M.O FORM 2373

THE DAILY WEATHER REPORT

BRITISH SECTION

1st January to 31st March

1938.

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, but as from 1st January, 1938, a change was made which gives approximately synchronous observations over a larger area than formerly.

Till the end of December, 1937, the chart could be divided into the following three sectors as regards hour of observation.

Sector.	Hour of Observation.
U.S.S.R. (approx. 170° E. to 30° E.)	7h. local time.
30° E. to 40° W....	6h. or 7h. G.M.T. (Azores 8h.)
40° W to 170° W	0h. or 1h G.M.T

From January 1st, 1938, these have been reduced to the two sectors :—

Sector.	Hour of Observation.
U.S.S.R. (approx. 170° E. to 30° E.)	1h. local time.
30° E. to 170° W.	0h. or 1h. G.M.T.

The improvement in the charts effected by this change is most marked over mid-Atlantic. Previously a difference of six hours had existed between observations from ships on opposite sides of the lines of longitude 40° W.

The gain in one respect has meant a sacrifice in another. The network of land stations in Europe and Africa making observations at 1h. is not so close as that of stations observing at 7h. This is particularly notable in Scandinavia, the Balkans and North Africa.

In the case of Iceland entries of weather, temperature and wind do not now appear on the chart, but pressure values at 1h. G.M.T. are available and are used in drawing the isobars.

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 At stations where anemometers are not in use, the force of the wind is estimated by means of the specification set out below. All wind directions are " true " or geographical, as distinguished from " magnetic."

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

The International and Upper Air Sections.

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

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

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

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

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

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

This section is very useful to one who wishes to trace the passage of various weather systems, since the 4 charts for each 24 hours enable the reader to follow the course of events in detail. From 1st March, 1933, the positions of well-defined warm, cold and occluded fronts have been indicated on the weather maps.

Upper Air Section:—The third section, called the " Upper Air Section " consists of 2 pp. Royal quarto per day and the issue for " yesterday " is published immediately prior to the issue of the British Section for " to-day." It contains maps, diagrams and tables showing upper air currents, pressures and temperatures over the British Isles and the Continent of Europe.

THE BEAUFORT SCALE OF WIND FORCE.

Beaufort Number.	Admiral Beaufort's General Description of Wind.	Specification for use on Land, based on observations made at British Land Stations.	Limits of Mean Velocities Statute Miles per Hour as recorded by well exposed anamometers 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.

1324/3

1h. G.M.T.

1h. Local Time.

Oh. G.M.T.

Ships Oh. G.M.T.

Land Stations

Oh. G.M.T.

Ships Oh.

Oh. G.M.T.

Clarke's Projection Scale 1: 4 X 10^7 along meridian ab 55° N.

Statute Miles 0 1 2 3 4 800

EXPLANATION OF CHART.

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

FORECAST DISTRICTS AND STATIONS IN GREAT BRITAIN AND IRELAND

FORECAST DISTRICTS

and the Counties comprised within them.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

14. *Mid. Scotland.*
    Perth.

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

16. *Orkneys and Shetlands.*

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

18. *Ireland, N.E.*
    Meath.
    West Meath.
    Longford.
    Cavan.
    Farmanagh.
    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.

London Observations.—As from 1st January, 1934, the rainfall measurements at all the London stations where raingauges are maintained, refer to two periods, day and night. The day period at Kew and Croydon is 7h. to 18h. G.M.T.; at all other stations it is 9h. to 18h. G.M.T.

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.

Holyhead.—As from 10th February, 1934, as the result of a series of comparisons with another gauge surrounded by a turf wall, the raingauge at this very exposed station was moved a short distance from its former position, and surrounded with a standard turf wall, with a view to increasing the catch to that appropriate to the locality.

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.

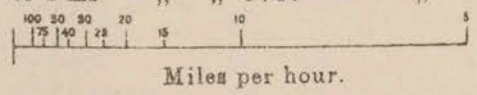
The wind at a height of 1,500-2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the 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 entries in columns7 and 21 are limited to 10, 25, 35, etc., to 85, 92 and 97. Entry 10 indicates that relative humidity is between 0 and 19: 25, between 20 and 29; .....and so on; 92, between 90 and 94: 97 between 95 and 100

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. Until and including 29th March, 1936, the number of feathers on the arrows denotes wind force by Beaufort number. from 30th March, 1936, each feather denotes two steps on the Beaufort Scale; thus force 5 is indicated by two whole feathers and one half feather

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

N.B.—Readers of the Report who are unacquainted with the method of construction and the use of weather charts are recommended to read "The Weather Map: An Introduction to Modern Meteorology," (2nd Edition, 1930), to be purchased from H.M. Stationery Office, Adastral House, Kingsway, W.C.2, price 5s. 2d. post free. (Reprinted 1933).
Corrections and additions can be obtained, if required, on application to the Meteorological Office.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

MONTHLY SUPPLEMENT,

January, 1938 No.253

MILD AND STORMY.

The main feature of the month was a series of very deep depressions which passed between Iceland and the British Isles, giving gales over most of the country. Pembroke recorded a gust of 100 m.p.h. on the 15th, 96 m.p.h. on the 30th and 88 m.p.h. on the 25th; a gust of 87 m.p.h. was also recorded at Stornoway on the 13th. The gales were very persistent, being reported on eighteen days during the month. Considerable damage was caused over the whole country, more especially in the West and North. Unfortunately several accidents resulting in loss of life occurred during some of the most severe gales.

The aurora was observed on several occasions during the month, but on the 25th the display was the most brilliant for 30 years and on this occasion it was seen as far south as Lands End and Dorchester.

The month was unusually mild and at Kew, Croydon, Calshot, Ross and Holyhead the air temperature did not fall below 32°F. during the whole month.

The highest temperature of 56°F. was recorded on numerous occasions during the latter half of the month. The lowest screen temperatures recorded were 18 F. at Eskdalemuir on the 11th and 19°F. at Renfrew on the 3rd.

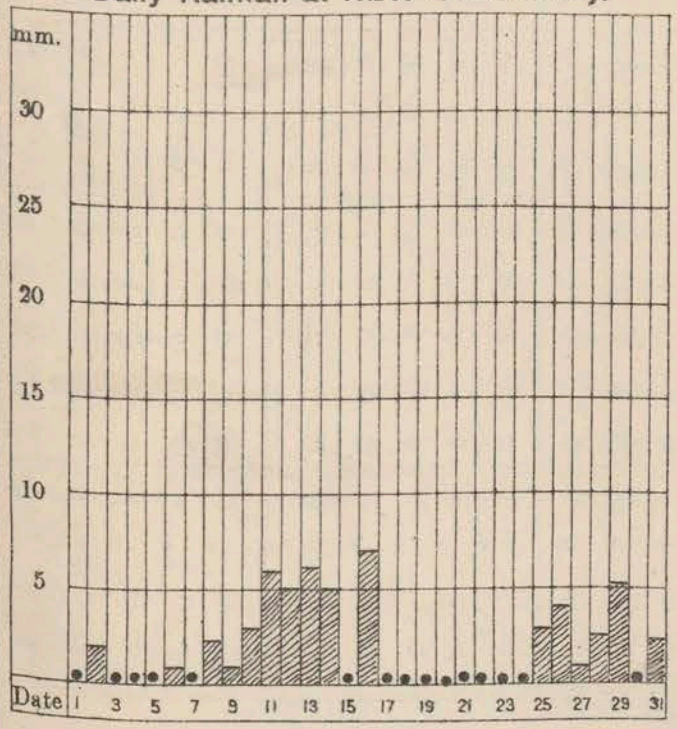
Sunshine was generally below normal but the East Coasts of Scotland were fortunate in having quite a number of hours above the average. At Aldergrove in Northern Ireland only 27 hours were recorded, a new low January record for this station.

On the whole rainfall was definitely above average and at Renfrew it was 105% above average and at Leuchars 91%. The heaviest falls were recorded at Valentia 1·22" (31 mm) on the 16th and at St. Abbs Head 1·14" (29mm) on the 9th. Snow fell during the month but it was confined mainly to Scotland. Hail showers were widespread on the 29th and 30th.

Fog was not very prevalent but occurred early in the month in Scotland and North Ireland and locally in the South on the 22nd and 23rd.

Thunderstorms occurred locally on the 7th & 9th & on the 29th & 30th.

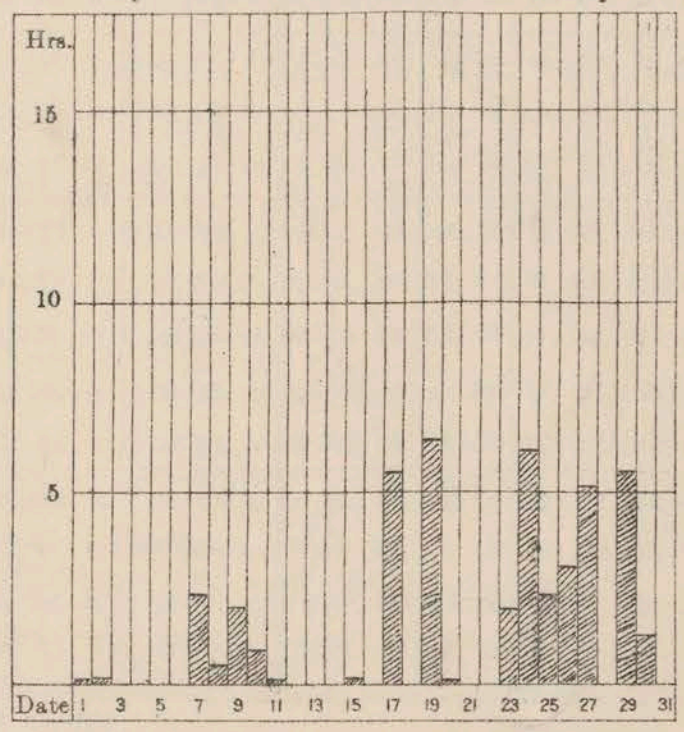
Daily Rainfall at KEW Observatory.



● = Less than 0·5 mm.

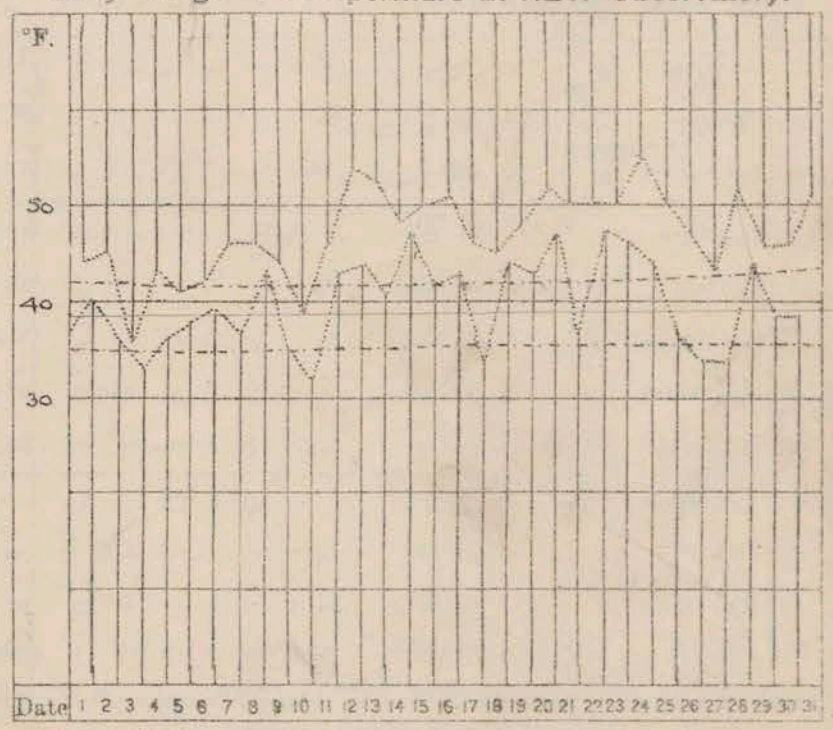
RAINFALL. Total for Month. 57 mm.

Daily Sunshine at KEW Observatory



SUNSHINE. Total for Month. 45 hrs.

Daily Range of Temperature at KEW Observatory.



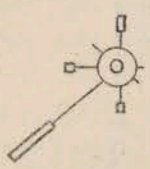
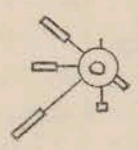
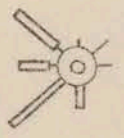
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.*

Stations.	PRESSURE Mean	PRESSURE Difference from average	TEMPERATURE Mean	TEMPERATURE Difference from average
	mb.	mb.	°F.	°F.
Kew	1011·6	-6·0	43·5	+2·2
Aberdeen	1001·5	-9·7	41·3	+1·8
Valentia	1011·8	-3·2	46·1	+0·4

*Pressure—The mean is for the 24 hours. It is derived from values at 7 h. and 18 h. daily corrected.
Temperature—mean of Max. and Min.

WIND FREQUENCIES AT 7 hr.

Kew	Aberdeen	Valentia
		

Forces 1–3 —— ; forces 4–7 ═══ ; force 8 or above ▬▬ . Scale ; ⊢10 mm⊣ 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 ...	8,589
Aberdeen ...	8,309
Lerwick ...	17,698
Valentia ...	13,665

SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

District	Stations	† TEMPERATURE. Number of daily readings within fixed limits. Maximum. 33° - 41°	42° - 50°	51° - 59°	Average Maximum. °F.	Minimum. 23° or below	24° - 32°	33° - 41°	42° - 50°	51° - 59°	Average Minimum. °F.	Extremes—Warmest and Coldest. Days. Highest Max. °F.	Date.	Lowest Max. °F.	Date.	Nights. Highest Min. °F.	Date.	Lowest Min. °F.	Date.	Number of Ground Frosts.	LOW CLOUD. Number of observations within fixed limits. 7 h. Below 1,000 ft.	1,000-5,000 ft.	5,000-8,000 ft.	13 h. Below 1,000 ft.	1,000-5,000 ft.	5,000-8,000 ft.	18 h. Below 1,000 ft.	1,000-5,000 ft.	5,000-8,000 ft.	FOG, MIST and GOOD VISIBILITY. Number of observations within fixed limits. 7 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.	13 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.
1	London ...	3	21	7	48·2	0	1	17	13	0	37·5	55	24	36	3	47	15, 21, 23	32	11	7	0	31	0	2	29	0	2	23	0	0	0	0	0	12	0	0	0	3	7
	(Kew Obsy). Croydon ...	4	19	8	44·9	0	2	15	14	0	37·1	55	24	35	3	48	23	32	4, 27	5	3	20	2	4	25	1	5	20	0	0	0	0	2	22	0	0	2	2	5
	Calshot** ...	2	23	6	46·1	0	0	16	15	0	38·4	55	12	39	3	48	15	33	4, 11	2	5	23	0	7	24	0	8	19	0	0	0	0	0	25	0	0	2	0	17
	(Southampton) Lympne ...	6	22	3	43·4	0	5	14	12	0	35·9	53	24	33	3	47	17	29	4	9	11	15	2	13	16	2	14	13	0	0	1	2	2	18	0	0	2	2	17
2	Shoeburyness ...	3	21	7	45·2	0	3	18	10	0	35·4	55	12, 24	36	3	46	21, 23	31	4, 5	9	4	25	0	6	22	0	8	18	0	0	0	0	1	18	0	0	0	2	11
	Gorleston ...	3	21	7	44·3	0	2	22	7	0	36·8	54	24	38	3	45	24	31	27	4	2	26	0	0	25	0	1	23	0	0	0	1	0	8	0	0	1	0	4
	Cranwell ...	5	18	8	43·3	0	2	25	4	0	34·7	55	24	36	10	45	24	30	11	7	6	21	0	5	23	1	6	17	0	0	1	2	0	16	0	0	0	2	16
3	Birmingham ...	7	19	5	43·2	0	0	25	6	0	36·0	54	24, 31	37	10	47	23	34	10, 11, 24	3	5	19	0	4	23	0	3	15	0	0	0	0	3	17	0	0	1	2	9
	(Edgbaston)																																						
4	Ross-on-Wye ...	3	19	9	45·5	0	0	20	11	0	37·2	55	28	37	10	50	23	33	22	5	1	27	0	4	27	0	2	25	0	0	0	0	2	21	0	0	0	0	21
5	The Lizard ...	0	21	10	*	0	0	13	18	0	*	53	14	42	3	49	13	34	4	*	3	28	0	5	26	0	8	23	0	0	1	0	0	26	0	0	1	0	22
7	Holyhead ...	0	27	4	46·4	0	0	10	21	0	41·6	53	28	43	9	48	21, 23	36	10	1	6	23	0	7	21	1	8	22	0	0	0	0	0	30	0	0	1	1	27
8	Chester ...	4	18	9	46·0	0	3	20	7	1	36·9	57	16	38	10	51	23	31	1	3	3	27	0	2	27	0	1	26	0	0	0	0	2	15	0	0	2	1	19
10	(Sealand) Tynemouth ...	3	20	8	44·1	0	1	23	7	0	37·3	54	23, 31	39	10	48	21, 24	31	11	3	13	18	0	8	23	0	7	24	0	0	0	0	0	20	0	0	2	3	9
11	Leuchars ...	7	18	6	43·4	0	10	15	6	0	34·4	54	28	38	11	48	23	26	11	12	2	23	1	2	27	1	0	27	1	0	0	0	1	25	0	0	0	0	23
12	Renfrew ...	11	15	5	43·6	1	9	14	7	0	35·3	54	22	35	3	49	25	19	3	12	3	25	1	7	22	1	4	25	1	0	1	1	0	13	0	0	3	0	17
	Eskdalemuir ...	13	18	0	40·7	1	9	17	4	0	32·4	50	28	34	10	45	23	18	11	9	18	12	0	15	16	0	17	14	0	0	0	0	1	16	0	0	0	1	25
13a	Stornoway	2	28	1	44·6	0	0	24	7	0	37·8	51	22	38	27	45	20	34	27, 29	*	0	31	0	0	31	0	0	30	1	0	0	0	0	25	0	0	0	0	23
15	Aberdeen ..	7	19 20	4 5	43·1	0	4	20	7	0	35·8	57	23	37	27	49	23	29	11	8	0	25	1	1	27	2	5	19	0	0	0	0	0	25	0	0	0	1	20
18	Aldergrove ...	7	17	7	*	0	4	22	5	0	*	55	22	35	3	47	23, 25	24	3	5	8	19	1	6	22	3	2	28	0	0	1	1	1	20	0	2	0	1	23
19	Dublin ...	5	13	13	46·9	0	4	23	4	0	35·4	57	22	39	2	50	23	28	1	9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	(Phœnix Park) Birr Castle ...	3	20	8	46·4	0	6	19	6	0	37·4	56	22	36	3, 9	50	23	30	2, 3	*	0	27	0	0	31	0	0	31	0	0	0	1	0	30	0	0	1	0	30
20	Valentia ...	0	18	13	49·0	0	2	9	19	1	42·3	55	22	42	4	51	23	27	3	3	5	25	0	8	22	0	9	19	0	0	0	0	0	24	0	0	0	0	26
	(Cahireiveen)																																						

UPPER AIR TEMPERATURE.

Pressure mb.	Normal Height. Feet.	Normal Temperature. °F.	Mildenhall. Mean. °F.	No. of Reports.	Aldergrove. Mean. °F.	No. of Reports.	Mean. °F.	No. of Reports.
950	1,800	38·3	44·4	45	41·2	42		
850	4,690	30·7	32·2	45	31·6	42		
750	7,910	21·4	24·2	45	23·4	42		
650	11,510	9·4	10·2	45	11·2	42		
550	15,620	-3·8	-3·7	45	-4·8	42		

UPPER WINDS.

No. of records of Velocity (km./hr.) within fixed limits.

Station	Lympne. Height. Metres.	No. of Obs.*	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Plymouth (Mt. Batten). No. of Obs.*	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Holyhead. No. of Obs.*	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Renfrew. No. of Obs.*	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Station. Height. Metres.
			kilometres per hour.						kilometres per hour.						kilometres per hour.						kilometres per hour.				
	500 above ground.	64	3	35	22	3	0	46	7	23	12	3	1	63	11	28	17	6	1	65	7	25	21	7	5	500 above ground.
	1000 above M.S.L.	51	2	26	21	2	0	33	1	14	13	3	2	34	5	19	8	1	1	43	9	6	21	5	2	1000 above M.S.L.
	2000 „ „	13	0	6	6	1	0	4	1	1	1	1	0	10	0	7	3	0	0	13	0	5	6	1	1	2000 „ „
	3000 „ „	5	0	2	3	0	0	0	0	0	0	0	0	5	0	1	4	0	0	8	1	3	0	1	3	3000 „ „
	4000 „ „	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	4000 „ „

† The readings and averages 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 readings and averages for Phœnix Park are for daily periods ending 21 h. Averages are for periods of at least 10 years (See M.O. 364).

* Winds of 0—5 km./hr. are included in the number of observations.

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

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

SUNSHINE, RAINFALL, AND HUMIDITY JANUARY 1938.

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. Hours.	Difference from average. Hours.	Total for Month. Hours.	Difference from average. Hours.	Highest and Lowest Totals on record for Month. First year of record.	Highest. Hrs.	Year.	Lowest. Hrs.	Year.	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. mm.	Difference from Average. mm.	Total for Month.‡ mm.	Difference from Average. mm.	Highest and Lowest Totals on record for Month. First year of record.	Highest. mm.	Year.	Lowest. mm.	Year.	Days with Thunder.	Days with Snow or Sleet.
1	London ... (Kew Obsy).	13	12	4	2	0	6·4	19	1356	-113	45	+1	1880	74	'91 '05	16	'85	13	4	9	5	0	0	7	16	715	+109	57	+12	1856	124	'77	11	'92	1	3
	Croydon ...	14	11	5	1	0	6·3	19	1305	-220	39	-9	1922	67	'27	25	'35	10	6	11	4	0	0	9	14	823	+144	65	+13	1921	137	'37	29	'35 '29	0	2
	Calshot** ... (Southampton)	10	14	4	3	0	6·9	27	1597	-149	54	-11	1881	93	'91	19	'85	11	4	9	7	0	0	13	12	817	+171	92[3]	+40	1871	207	'06	14	'98	0	0
	Lympne ...	11	14	5	1	0	6·8	29	1586	-179	51	-7	1921	77	'23	37	'36	8	5	9	8	1	0	15	26	840	+116	98[9]	+42	1920	122	'37	30	'29	0	4
2	Shoeburyness ...	12	12	4	3	0	6·4	24	1414	-302	47	-10	1919	77	'23	38	'29	6	10	10	5	0	0	8	13	729	+226	61	+27	1920	93	'37	23	'32	1	2
	Gorleston ...	12	12	5	2	0	6·4	24	1390	-253	45	-7	1908	84	'10	27	'15	7	13	9	2	0	0	10	9	608	-14	46	+2	1871	123	'22	3	'80	0	2
	Cranwell ...	4	19	7	1	0	6·3	24	1248	-290	55	0	1921	69	'32	37	'29	9	8	11	3	0	0	8	11	597	+7	54	+10	1917	84	'36	18	'32	1	3
3	Birmingham ... (Edgbaston)	14	11	5	1	0	6·4	24	1229	-75	40	-4	1887	73	'05	8	'17	12	5	8	6	0	0	13	29	720	+46	78	+27	1893	126	'30	21	'08	0	4
4	Ross-on-Wye ...	9	15	6	1	0	6·7	24	1354	-131	45	-10	1915	91	'33	34	'21	13	3	11	4	0	0	11	{8 14	735	+18	67	+5	1859	156	'69	7	'98	0	1
5	Falmouth ... (Observatory)	14	9	8	0	0	5·6	19	1597	-113	49	-11	1881	87	'95	22	'84	6	5	5	13	2	0	25	8	1093	-14	164	+57	1871	246	'75	25	'80	0	0
7	Holyhead ...	11	12	8	0	0	5·9	25	1457	-93	47	-4	1914	102	'33	29	'14	10	6	6	9	0	0	13	16	863	-24	96	+22	1871	190	'77	19	'80	0	0
8	Chester ... (Sealand)	12	10	9	0	0	5·2	{8 19	1300	-76	51	-2	1923	71	'33	37	'29	9	5	11	5	1	0	19	29	719	+58	83	+33	1922	155	'36	31	'29	0	1
10	Tynemouth ...	10	11	7	2	0	6·1	{12 30	1140	*	49	*	1935	*	*	*	*	8	11	10	2	0	0	12	9	807	+186	56	+15	1915	98	'21	15	'32	0	0
11	Leuchars ...	8	9	13	1	0	6·1	29	1393	-77	78[9]	+20	1922	84	'31	32	'26	10	8	7	5	1	0	25	9	774	+121	88	+42	1922	124	'28	22	'29	0	3
12	Renfrew ...	16	11	4	0	0	5·3	4	1202	+9	32	-2	1921	49	'31	19	'25	8	1	7	13	1	1	26	9	860	-79	175	+90	1921	241	'28	42	'29	3	6
	Eskdalemuir ...	12	11	8	0	0	5·1	30	1119	-82	39	+4	1910	56	'31	12	'13	6	3	5	11	5	1	27	16	1315	-114	234 [242]	+105	1910	394	'28	56	'29	0	9
13B	Stornoway ...	11	16	4	0	0	3·8	7	1198	-17	30*	+3	1881	81	'83	12	'07	3	4	9	11	4	0	18	20	968	-298	180	+49	1870	373	'72	33	'81	3	5
15	Aberdeen ...	10	9	12	0	0	6·0	24	1259	-70	64	+17	1881	85	'81	15	'85	12	8	7	4	0	0	11	14	734	-14	60[61]	+5	1871	125	'37	16	'05	0	4
18	Aldergrove ...	9	20	2	0	0	5·2	25	1164	*	27	*	1927	64	'28	33	'32	8	5	10	8	0	0	11	8	852	+14	90	+20	1926	130	'28	31	'35	0	3
19	Dublin ... (Phœnix Park)	11	12	6	2	0	8·4	31	1226	-211	56[2]	-1	1881	91	'91	21	'14	10	6	11	4	0	0	7	{8 16	716	+14	68[4]	+2	1865	103	'30	8	'76	0	4
	Birr Castle ...	11	15	5	0	0	5·4	25	1139	+167	36	-13	1881	91	'97	24	'84	7	4	10	10	0	0	12	{14 16 31}	878	+51	112	+50	1862	148	'90	17	'81	0	1
20	Valentia ... (Cahirciveen)	7	18	4	2	0	6·4	3	1313	-55	46	+2	1880	128	'81	16	'98	4	3	11	10	2	1	30	16	1516	+102	185	+46	1866	296	'37	27	'35	0	0

MINIMUM SURFACE HUMIDITY.

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

Stations.	95 to 100 %	90 to 94 %	80 to 89 %	70 to 79 %	60 to 69 %	50 to 59 %	40 to 49 %	30 to 39 %	20 to 29 %	0 to 19 %
London (Kew)	0	0	6	15	5	5	0	0	0	0
Ross-on-Wye ...	0	0	1	15	6	9	0	0	0	0
Falmouth (Obsy.)	7	7	5	11	1	0	0	0	0	0
Renfrew ...	0	2	14	10	5	0	0	0	0	0
Eskdalemuir ...	0	1	10	10	9	1	0	0	0	0
Aberdeen ...	0	1	2	9	12	5	2	0	0	0
Valentia ...	0	0	3	4	18	6	0	0	0	0

STATE OF GROUND AT 18 h.

No. of Days each type was recorded.

Stations.	0	1	2	3	4	5	6	7	8	9
London (Kew)	0	30	1	0	0	0	0	0	0	0
Ross-on-Wye	0	31	0	0	0	0	0	0	0	0
Renfrew ...	0	25	1	2	1	0	1	1	0	0
Eskdalemuir	0	24	1	0	3	1	1	0	1	0
Aberdeen ...	0	29	0	1	1	0	0	0	0	0
Valentia ...	2	28	1	0	0	0	0	0	0	0

CODE for State of Ground.

0 Dry.
1 Wet.
2 Flooded.
3 Frozen hard and dry.
4 Partly covered with snow or hail.
5 Covered with ice or glazed frost.
6 Covered with thawing snow.
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 and sunshine from Calshot are supplemented 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 1938

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 19h. 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

G.354/3408. m.8025. D.4518. 6p.908. 1100. 2/38.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 1st January, 1938.
No. 27799

Diagram.	Stations. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 31st December														OBSERVATIONS at 18h. G.M.T. 31st December														PAST 24 HOURS.			
		Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force 0–12	Weather.	Temp. °F.	% Humid.	Visibility 0–9	Cloud. Form. Low	Cloud. Form. Med.	Cloud. Form. High	Cloud. Amount. Low 0–10	Cloud. Amount. Total 0–10	Cloud. Height of Base (feet)	Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force 0–12	Weather.	Temp. °F.	% Humid.	Visibility 0–9	Cloud. Form. Low	Cloud. Form. Med.	Cloud. Form. High	Cloud. Amount. Low 0–10	Cloud. Amount. Total 0–10	Cloud. Height of Base (feet)	State of Ground. 0–9	Sea. 0–9	Weather. 7h.—18h. 31st	Weather. 18h.—18h. 31st	Weather. 18h. 31st to 1h. 1st.	Weather. 1h.—7h. 1st
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(37)	(38)	(39)	(40)
1	London (Kew)	1029·2	-10	NNW	3	2_o	40	92	6	5	-	-	10	10	1500	1028·6	-2	NNW	3	i_r	42	92	5	6	-	-	10	10	1500	1	*	cmr,cm,	cir,m,	cr,cm,	cm,
	Croydon ...	1029·3	-18	N	3	$3/f$	39	92	4	5	-	-	9	10	800	1028·2	-6	NNE	4	3_r	42	85	4	5	-	-	10	10	800	1	*	cmf,r,s,	cd,fom	d,cr,	om,
	S. Farnborough	1029·2	-14	NNW	2	id,	38	92	5	5	-	-	10	10	800	1028·9	-4	NNE	2	d,d,	41	92	5	5	-	-	10	10	800	1	*	cis,id,mo	d,d,r,d,o	or,r,m,	em,
	Boscombe Down	1030·6	-18	N	4	2_o	38	92	5	5	3	-	4-6	4-6	800	1030·0	-2	NNE	4	d,d,	38	97	4	6	-	-	10	10	450	1	*	bxc,bc	bm,c,r,d,	cd,m,c	bc,r,
	Calshot (Sthmtn.)	1030·0	-12	NNW	3	2_o	39	97	6	5	7	-	7-8	10	800	1028·8	-4	NNE	4	c	41	92	7	5	-	-	10	10	2500	1	2	ccm,	cm,	cir,c	c
	Lympne ...	1028·2	-16	NNE	3	d,d,	37	92	4	5	-	-	10	10	450	1026·8	-8	N	4	3_r	40	92	5	6	-	-	10	10	800	1	§ -	os,r,cd,	cm,d,r,m,	or,c,r,	bom,ir,
	Manston ...	1027·4	-16	NW	4	i_r	39	92	7	6	2	-	7-8	10	800	1026·2	-2	N	4	c_rd	41	92	5	6	2	-	9	10	800	1	*	coir,	of,DDcm,	m,r,c,	oir,r,m,
2	Shoeburyness ...	1028·2	-12	NNW	4	id,	40	92	6	5	2	-	9	10	800	1027·3	-2	NNE	3	i_r	42	92	7	5	-	-	9+	9+	800	1	*	cir,id,m,	ir,cir,	cir,b	bcc,r,
	Felixstowe ...	1027·8	-18	NW	3	i_r	40	97	6	6	-	-	7-8	10	1500	1026·6	-2	NNE	4	c_rd	42	85	6	5	-	-	10	10	800	1	3	cpr,m,ir,	cir,d,d,m,	cir,cm,	cm,c,d,r
	Gorleston ...	1028·3	-14	NNW	4	c	43	92	7	6	-	-	9	9	2500	1026·6	+2	NNE	5	c_r	43	85	6	8	-	-	9	9	2500	1	3	od,o,c	or,c,q	c,p,r,q	cir,q
	Mildenhall ...	1029·0	-12	NNW	3	d,d,	40	97	5	5	3	-	9	9+	450	1028·4	-2	NNW	5	d,d,	41	97	6	6	-	-	10	10	800	1	*	cm,d,f,f,r,	c,d,d,r,r,m,	c,d,d,r,r,d,	cm,
	Cranwell ...	1031·0	-10	NW	3	c_rd	41	97	5	5	-	-	9	10	800	1030·6	-2	NNW	5	i_r	36	97	5	5	-	-	10	10	450	1	*	omf,m,id,	os,r,m,	om,b,c,m,	cm,r,r,r
3	Birmingham ...	1031·9	-6	NNW	3	id,	39	92	4	6	-	-	10	10	800	1031·8	0	N	3	bc	38	82	6	5	-	-	4-6	4-6	1500	1	*	occ,id,	oi,d,bc	bcc	c
	Upper Heyford	1030·9	-10	NNW	3	2_o	39	92	5	5	-	-	9+	9+	800	1030·5	0	N	4	3_r	39	92	4	5	-	-	10	10	800	1	*	cm,d,f,r,	com,r,r,	c,b,cm,	bcc,r,m,
4	Ross-on-Wye	1031·8	-10	NNE	3	2_o	41	75	6	5	-	-	10	10	1500	1031·5	0	N	3	2_o	39	85	6	5	-	-	4-6	4-6	1500	1	*	d,cm,	cm,	cm,o,m,	occ
5	Bristol ...	1032·1	-10	NNE	3	m	38	92	4	5	7	-	7-8	9	1500	1031·5	-4	NNE	3	2_o	40	85	5	5	-	-	10	10	1500	1	*	bc,f,x,cm	cm,d,m,	cm,	cm,
	Portland Bill ...	1029·6	-12	NE	4	c	39	85	7	4	4	-	7-8	10	2500	1029·2	-4	NNE	4	c	40	85	6	4	-	-	10	10	2500	1	3	bcc	ccz,	c,b,c	bccz,
	Plymouth ...	1031·8	-10	N	2	c	41	65	8	5	3	-	9	9+	4000	1031·4	+2	NNE	3	2_o	39	85	6	-	-	-	0	0	-	1	1	q,c,z,c	c,z,c,b,c,z,	b,m,b	b
	The Lizard ...	1032·3	0	NNE	3	bc	41	65	8	8	-	-	4-6	4-6	2500	1031·7	0	NNE	4	c	40	75	8	8	-	-	9	9	2500	1	3	bc	bcc	c,b,c	bcc
	Scilly (St. Mary's)	1032·6	-8	NNE	4	c	42	75	7	5	6	-	4-6	9	2500	1031·8	-2	NE,NNE	5	c	43	65	8	5	2	-	7-8	10	2500	1	3	bcc	c	c	c
	Guernsey ...	1029·1	-6	NNE	4	c	41	75	9	8	-	-	9	9	2500	1028·7	0	NNE	4	p_r	43	85	6	8	-	-	10	10	1500	1	4	oir,c	cpr,	or,ir,c	c
6	Pembroke ...	1033·8	-2	NE,N	3	c	41	75	8	5	2	-	7-8	9+	2500	1033·6	0	NE,N	3	c	40	75	8	5	7	-	4-6	7-8	2500	1	2	c	c,q,c	c,b,c,c	c,b,c,c,q
7	Holyhead ...	1034·9	-6	NNE	4	c	43	85	8	5	-	-	10	10	2500	1034·4	-2	NE,N	4	c	42	85	7	5	-	-	10	10	2500	1	2	pr,c	c	c,b	b,i,c
	Chester (Sealand)	1034·2	-8	NNW	3	2_o	42	85	6	5	-	-	9+	9+	4000	1034·0	+2	NNW	2	3_r	36	85	4	5	-	-	10	10	4000	1	*	pr,m,c	c,b,c,m,c,m,	c,b,c,b,m	b,b,c,m,c,m,
8	Manchester ...	1033·3	-10	NNE	4	2_o	41	85	6	8	3	-	2-3	4-6	2500	1033·5	+2	NNE	2	2_o	34	85	5	-	-	-	0	0	-	1	*	cpr,b,c,m,	b,c,m,b,m,	b,m,b,c,m,	b,c,m,c
10	Spurn Head ...	1030·0	-10	NNE	5	c/pr	43	92	7	8	2	-	4-6	9+	800	1029·2	-4	NNW	5	p_r	41	97	7	5	-	-	10	10	1500	1	4	cpr,	cpr,o	c,p,r,b,c	cpr,
	Catterick ...	1033·7	-2	NNW	3	id,	37	85	7	6	2	-	7-8	10	1500	1032·6	-10	NW	3	c	37	75	8	5	-	-	10	10	2500	1	*	cm,o,i,d,	o,i,d,c	c,b,c,b	bcc
	Tynemouth ...	1033·6	-8	N	4	0	38	85	6	-	2	-	10	10	800	1031·7	-8	N	3	0	39	75	6	-	2	-	10	10	1500	1	2	o,p,o	o	o,p,b,c	c,o,i,r,
11	St Abbs Head	1034·2	-10	NW	3	c	36	85	8	4	6	1	7-8	9+	2500	1032·6	-10	NW	4	c	37	85	7	4	2	-	7-8	10	2500	0	3	c	c	cm,	m,b,c
12	Leuchars ...	1035·5	-18	W	2	b	35	75	7	5	-	-	Tr	Tr	2500	1034·5	-6	W	2	b	31	85	9	-	-	-	0	0	-	3	*	cb,c,b,x	b,b,x	b,x,c	c
	Renfrew (Abbots I.)	1036·4	-6	-	0	2_o	35	85	5	5	5	1	Tr	1	4000	1035·6	-2	WSW	1	2_o	30	92	5	-	-	-	0	0	-	1	*	b,c,b,m,c,b	b,x,c,m,b	b,m,b,m,x	b,m,c,x
	Eskdalemuir ...	1035·6	-6	NNE	3	c	34	85	7	5	-	-	10	10	1500	1034·5	-6	N	4	b	31	85	7	5	-	-	Tr	Tr	2500	3	*	c	c,b,c,b,x	b,x	b,b,c,c,x
	Point of Ayre ...	1036·0	-4	NE	2	c	40	75	8	5	-	-	10	10	2500	1034·7	-4	NNE	3	c	38	75	8	5	-	-	9+	9+	2500	0	3	c	c	c	c
13A	Tiree	1037·0	-4	NNE	2	c	42	65	8	5	-	-	7-8	7-8	4000	1035·9	-4	N	2	c	44	65	8	5	-	-	7-8	7-8	4000	0	2	c	c	c	c
13B	Stornoway ...	1037·2	-4	NW	3	c	40	85	7	5	2	-	4-6	10	2500	1035·4	-8	WSW	2	c	40	85	7	5	2	-	4-6	10	2500	1	1	c	c	c,p,r,	c
15	Dalwhinnie ...	*	-8	N	3	c	32	92	7	5	-	-	10	10	2500	*	-6	NE	2	c	32	97	7	4	2	-	4-6	10	2500	3	*	c	c	*	c
	Aberdeen ...	1034·4	-12	NW	3	c	39	75	7	5	-	-	9+	9+	2500	1033·2	-6	NW	3	p_r	38	75	7	5	-	-	9+	9+	2500	1	1	bc,z,c	c	bcc,p,r,	c
	Wick ...	1034·8	-10	WNW	3	c	40	85	8	5	2	-	7-8	10	1500	1033·6	-8	NW	3	c	41	85	7	5	2	-	9	10	800	1	1	c	c,i,d,c	c	c
16	Lerwick ...	1032·7	-14	NW	3	c/r	42	92	8	9	7	-	7-8	9	800	1031·6	-6	NW	3	c	42	92	8	8	2	-	7-8	10	800	1	*	cir	cpr	c	cpr
17	Blacksod Point	1038·3	0	S	1	c	40	55	8	-	7	-	0	10	-	1038·0	-2	W'S	2	c	39	75	8	-	2	-	0	10	-	0	2	c	c		
18	Malin Head ...	1037·3	-6	ENE	1	c	42	92	7	8	-	-	9	9	2500	1036·4	-6	N,E	2	c	43	85	7	5	-	-	9+	9+	2500	0	1	c	c	c	c
	Aldergrove ...	1037·2	-6	NW	2	c	39	85	8	5	-	-	10	10	2500	1036·5	-2	-	0	bc	35	85	8	5	-	-	2-3	2-3	2500	1	*	cm,c	c,b,x	b,x,c	c
19	Birr Castle ...	1036·9	-2	NNE	1	c	39	92	7	5	-	-	10	10	2500	1036·5	+2	NNE	1	c	39	75	7	5	-	-	10	10	2500	1	*	c	c	c	c
20	Valentia Obsy. †	1037·0	-2	ENE	2	c	42	55	8	5	-	-	9+	9+	4000	1037·3	+2	ENE	1	o	40	75	7	5	-	-	10	10	4000	0	2	ocy	c,y,o	o	o
	Roches Point	1035·9	-2	NE	3	c	41	85	8	5	-	-	9+	9+	2500	1036·5	+2	NE	3	c	41	85	8	5	-	-	9+	9+	2500	1	2	c	c	c	c,b,c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Ce predominating, and a little cirrus.
(Ce may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 . . Ground dry.
1 . . „ wet.
2 . . „ flooded.
3 . . „ frozen hard and dry.
4 . . „ partly covered with snow or hail.
5 . . „ covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . „ covered with snow, less than 8 ins., deep but ground not frozen.
8 . . „ covered with snow, less than 8 ins., but ground frozen.
9 . . „ covered with snow greater than 8 ins. deep.

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

† See disturbance reported from Dungeness.

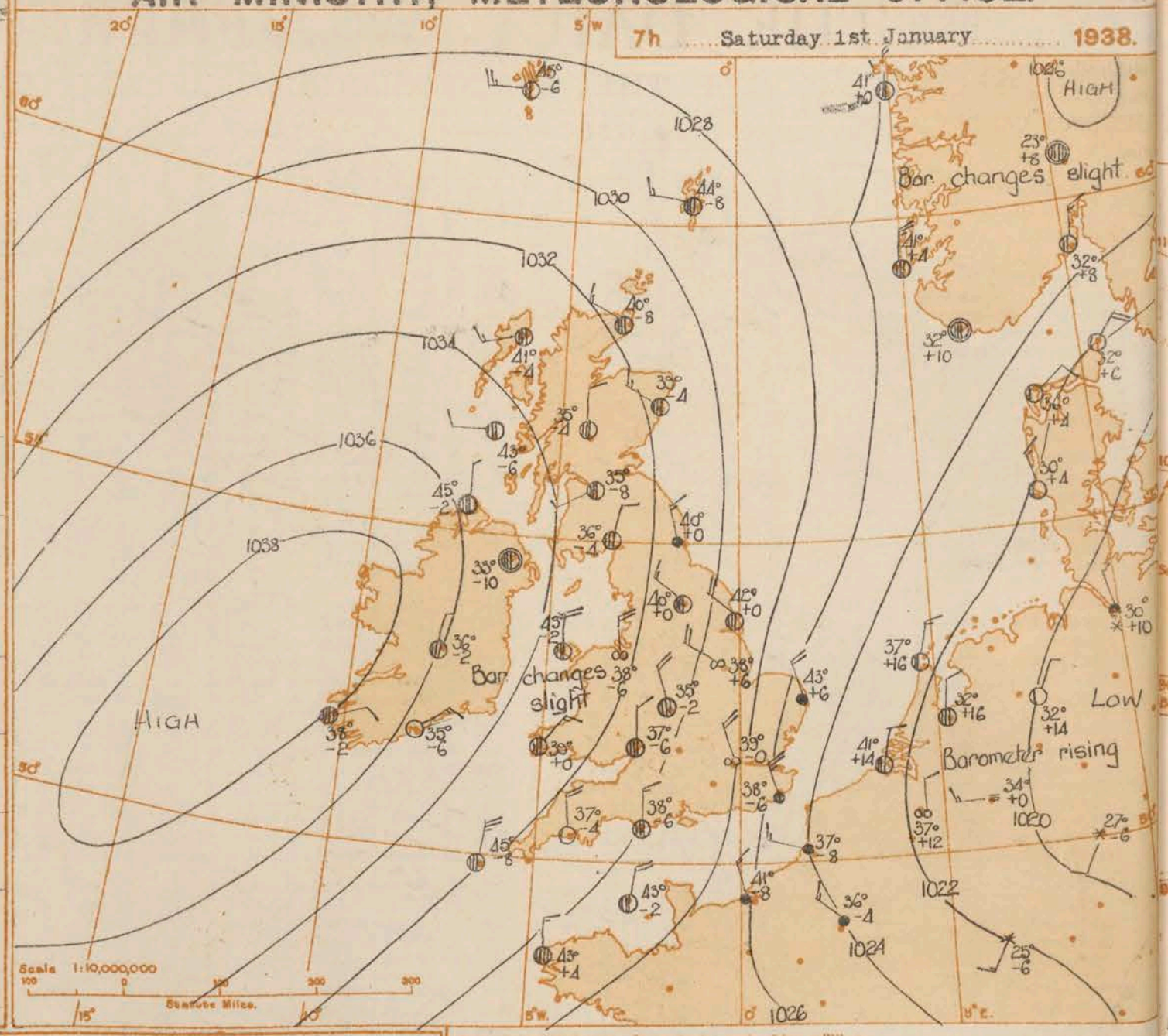
REPORTS from HEALTH RESORTS for 31st December 1937.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature (°F.) Min. 9h.30th to 9h.31st.	Temperature (°F.) Max. 9h.—17h. 31st.	Rainfall (mm.) Night. 17h.30th to 9h.31st	Rainfall (mm.) Day. 9h.—17h. 31st.	Sunshine (hrs.) Sunrise to Sunset. 31st.
1	Tunbridge W.	co	odo	32	41	Trace	Trace	0·0
	Bournemouth	ccbc	c	30	40	-	-	0·8
	Ventnor ...	xoz	ouz	33	40	-	-	0·0
	Southsea ...	c	cop	32	41	-	Trace	0·0
	Bognor Regis	oc	o	33	41	-	0·3	0·0
	Littlehampton	c	co	31	40	-	Trace	0·0
	Worthing ...	c	c	33	41	-	Trace	0·0
	Brighton ...	c	cdc	34	41	Trace	Trace	0·0
	Eastbourne† ...	oco	od,d	35	41	0·3	0·2	0·3
	Hastings† ...	cbcco	odoc	33	40	1	0·5	0·2
	Folkestone ...	cbcod	odir	33	42	4	1	0·5
	Dover ...	cbcdo	oid	34	42	2	0·3	0·5
	Deal	oco	od,ro	34	41	3	0·3	0·2
	Ramsgate ...	cbco	dp	35	42	-	Trace	0·4
	Margate ...	bcc	cr	36	43	1	0·5	0·1
2	Southend ...	cmir	oirc	33	41	-	Trace	0·0
	Clacton-on-Sea	coir	oirc	33	43	Trace	0·5	0·0
	Dovercourt ...	doc	roc	34	42	Trace	0·5	0·0
	Lowestoft ...	qprbc	cid	34	43	0·6	1	0·0
	Skegness ...	cp	cp	32	43	0·5	2	0·0
	Mablethorpe ...	cop	opo	37	43	1	1	0·0
	Cleethorpes ...	c	cir	37	43	0·5	1	0·0
3	Leamington S.	o	op	37	42	-	Trace	0·0
4	Cheltenham†	moir	moir	29	40	Trace	0·3	0·0
5	Bath	cr	c	27	41	-	Trace	0·0
	Weymouth ...	mc	cbc	32	40	-	-	1·5
	Jersey ...	dcr	rc	33	41	0·3	1	0·0
	Torquay ...	bcrbc	cbcb	33	40	-	-	1·1
	Falmouth	b	c	30	41	-	-	4·5
	Penzance ...	b	c	34	42	-	-	3·7
	St. Ives ...	o	o	34	39	-	-	0·0
	Bude... ...	cbcc	c	27	46	-	-	0·9
	Ilfracombe ...	ocbc	bcc	39	44	-	-	1·5
6	Aberystwyth	zo	o	38	43	-	-	0·1
7	Llandudno ...	c	c	38	43	-	-	0·0
	Colwyn Bay...	opc	cbcc	38	43	-	Trace	0·0
	Rhyl	rcm	c	38	42	Trace	-	0·1
8	Wallasey ...	c	cbc	38	41	-	-	1·5
	Southport ...	ocbc	cbcco	37	40	-	-	1·7
	Blackpool ...	cmbc	bbcc	39	41	-	-	3·3
	Morecambe ...	cbc	bbcc	38	40	-	-	1·1
9	Ilkley... ...	cpc	c	36	41	0·3	0·2	0·7
	Harrogate ...	coir	co	36	39	0·3	Trace	0·0
10	Berwick-on-T.	oc	c	38	39	0·2	-	0·0
11	Dunbar ...	cm	cm	36	37	0·5	-	0·2
12	Troon... ...	ocbc	bccfo	32	38	-	-	1·8
	Douglas ...	bcr	bc	38	39	Trace	-	0·0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h ..... Saturday 1st January ..... 1938.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 1st January 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light northerly winds; local rain; fair periods; average temperature.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Light northeast winds; fair; average temperature.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light north to northwest winds; mainly fair, showers later.
13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Light northwest to west winds; fair periods, showers; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light variable winds; mainly fair; average temperature.

Barometer. Isobars are drawn for intervals of two millibars.
Wind, Weather Symbols. For explanation see opposite page.
Sea Disturbance. ~~ Rough. ≈≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

An anticyclone west of Ireland is receding slowly. Weather will be mainly fair in the Southwest and West. In the East there will be local rain at first, becoming fair with average temperature.

FURTHER OUTLOOK.

Mainly fair.

Forecasts issued at 10. 30. G. M. T.

GEORGE C. SIMPSON, K.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.

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

SATURDAY 1ST JANUARY.

1938.

LOW

HIGH

Clarke's Projection Scale 1: 4x10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 600

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere ; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 1st January, 1938

No. 27799

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)	% Hufield. (7)	Visibility. 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1028·6	-6	N'W	3	o/r	38	85	6	6	-	-	10	10	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	348	1026·6	-10	NNW	5	bc/r	37	85	7	6	-	-	4-6	4-6	800
	Manston ...	142	1025·9	-10	NNW	4	o	39	85	6	6	-	-	10	10	800
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1025·2	-8	NNW	6	pr.	42	85	6	8	-	-	10	10	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1029·9	-4	N	3	bc	38	85	7	4	-	-	4-6	4-6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1032·7	+2	NNE	3	bc	36	85	8	4	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	1032·9	+2	NNE	4	c	45	65	8	5	-	-	10	10	2500
	Guernsey ..	175	1029·3	+6	N'E	3	c	43	75	6	8	-	-	7-8	7-8	2500
6	Pembroke ...	142	1033·5	0	NE	1	c	41	75	8	5	-	-	2+	2+	2500
7	Holyhead ...	26	1034·3	0	N	3	b	48	85	8	5	-	-	Tr	Tr	2500
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1028·2	-2	N'W	4	bc	42	85	7	5	-	-	4-6	4-6	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1031·1	-6	NNW	3	c	40	75	7	8	-	-	2+	2+	1500
11	St. Abbs Head ..	280	1032·1	-6	NW	4	c	37	85	6	5	2	-	7-8	10	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots L.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1031·8	0	NNE	4	bc	39	75	7	5	-	-	2-3	2-3	800
13a	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13b	Stornoway ...	80	1035·0	-2	WSW	3	c	41	85	7	5	2	-	7-8	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1033·0	-4	NW	2	c	40	92	8	5	2	-	7-8	10	1500
16	Lerwick ...	156	1031·1	-4	NW	3	c	43	75	8	5	-	-	7-8	7-8	1500
17	Blacksod Point	18														
18	Malin Head ...	84	1036·4	-2	N	2	c	44	85	7	5	-	-	2+	2+	2500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1038·0	0	ENE	3	0	39	92	8	5	-	-	10	10	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 6 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1028·0	-4	NNW	4	Z_o	39	85	6	5	-	-	10	10	1500	1	*
	Croydon ...	1028·1	0	NNE	4	Z_o	39	85	6	5	-	-	10	10	1500	1	*
	S. Farnborough	1028·6	-2	NNE	3	Z_o	37	86	5	5	-	-	10	10	1500	1	*
	Boscombe Down	1029·9	-4	N	4	c/pr	35	85	7	5	2	-	4-6	7-8	1500	1	*
	Calshot (Sthmtn.)	1028·8	-2	NNW	4	c	38	85	7	5	-	-	10	10	1500	1	2
	Lympne ...	1025·3	-6	NNE	5	ir_o	38	92	7	6	-	-	9	9	800	1	§2
	Manston ...	1025·2	+2	NNW	4	ir_o	39	92	6	6	2	-	7-8	10	450	1	*
2	Shoeburyness...	1026·5	0	NNW	4	ir_o	40	92	7	6	2	-	7-8	10	800	1	*
	Felixstowe ...	1025·5	+4	NNW	3	c	39	97	7	5	3	8	4-6	9+	2500	1	3
	Gorleston ...	1025·2	+6	NNW	4	ir_o	43	85	6	8	-	-	9	9	2500	1	3
	Mildenhall ...	1027·4	+4	NNW	4	c	39	97	7	5	7	-	4-6	9+	1500	1	*
	Cranwell ...	1029·4	+6	NNW	4	Z_o	38	97	6	5	-	-	10	10	1500	1	*
3	Birmingham ...	1030·8	-2	NNW	4	c	35	85	5	5	-	-	10	10	800	1	*
	Upper Heyford	1029·9	0	N	3	c	35	92	6	5	-	-	10	10	2500	1	*
4	Ross-on-Wye	1031·3	-6	N	2	c	37	75	7	5	-	-	10	10	2500	1	*
5	Bristol ...	1031·1	-6	N	3	Z_o	37	75	6	5	-	-	9+	9+	2500	1	*
	Portland Bill ...	1029·2	-6	N	3	c	38	92	6	4	-	-	10	10	2500	1	5
	Plymouth ...	1031·6	-4	NNE	4	q	37	85	8	-	4	-	0	Tr	-	1	1
	The Lizard ...	1031·9	0	NNE	3	c	39	85	8	8	2	-	7-8	10	2500	1	1
	Scilly (St. Mary's)	1032·0	-8	N'E	5	c	45	75	8	5	-	-	10	10	2500	1	3
	Guernsey ..	1029·2	-2	NNE	4	c	43	75	7	8	-	-	10	10	2500	1	5
6	Pembroke ...	1033·0	0	NE	3	q	39	85	8	8	-	-	9+	9+	2500	1	2
7	Holyhead ...	1033·5	-2	N	4	c	43	75	8	7	-	-	9	9	2500	1	2
	Chester(Sealand)	1032·7	-6	N'W	4	Z_o	38	85	5	5	2	-	7-8	10	4000	1	*
8	Manchester ...	1032·1	0	NNW	1	c	36	85	7	5	-	-	10	10	2500	1	*
10	Spurn Head ...	1028·2	0	NW	4	c	42	92	7	5	2	-	7-8	10	2500	1	5
	Catterick ...	1031·2	0	NNW	3	c	40	75	7	8	7	-	4-6	7-8	2500	1	*
	Tynemouth ...	1030·8	0	NNW	3	ir_o	40	85	6	-	2	-	10	10	800	1	2
11	St. Abbs Head ..	1032·1	0	NNW	3	c	39	85	6	5	2	-	7-8	10	800	0	2
	Leuchars ...	1033·0	-2	WNW	3	c	38	75	8	5	3	-	7-8	7-8	5700	1	*
12	Renfrew (Abbots L.)	1034·3	-8	SW	1	c	35	85	7	5	-	-	9+	9+	5700	1	*
	Eskdalemuir ...	1033·2	-4	NE'N	2	c	36	75	8	5	-	-	10	10	1500	3	*
	Point of Ayre...	1033·8	-4	N	4	c	42	85	7	5	-	-	9+	9+	1500	0	3
13a	Tiree	1034·5	-6	W	2	c	43	75	8	5	-	-	9	9	4000	0	2
13b	Stornoway ...	1033·8	-4	WSW	3	c	41	75	7	5	2	-	7-8	10	2500	1	1
15	Dalwhinnie ...	*	-4	N	2	c	35	85	7	5	-	-	10	10	2500	0	*
	Aberdeen ...	1031·8	-4	NW	3	c	39	85	7	5	-	-	9+	9+	4000	1	1
	Wick ...	1031·5	-8	NNW	3	c	40	85	8	5	7	-	7-8	9	1500	1	1
16	Lerwick ...	1028·8	-8	WNW	3	c/r	41	92	7	8	7	-	7-8	9	800	1	*
17	Blacksod Point																
18	Malin Head ...	1035·2	-2	N	1	c	45	85	7	5	-	-	9+	9+	2500	0	1
	Aldergrove ...	1035·8	-10	-	0	c	33	92	7	5	-	-	10	10	4000	1	*
19	Birr Castle ...	1036·2	-2	NNE	1	c	36	85	7	5	-	-	10	10	2500	1	*
20	Valentia Obsy. †	1038·1	-2	NE'E	2	o	38	65	8	5	-	-	10	10	4000	0	2
	Roches Point	1036·6	-6	NE	3	b	35	85	8	-	-	-	0	0	-	1	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 31st. Hrs. (36)
1	London (Kew)	42	37	32	0·1	0·3	0·0
	Croydon ...	43	38	36	0·1	0·1	0·0
	S. Farnborough	43	35	31	0·3	0·6	0·0
	Boscombe Down	38	38	31	Tr	Tr	0·9
	Calshot (Sthmtn.)	41	37	35	-	0·1	0·0
	Lympne ...	40	36	34	1	1	0·2
	Manston ...	42	38	37	1	1	0·2
2	Shoeburyness...	42	36	33	0·5	0·2	0·0
	Felixstowe ...	43	37	35	0·3	0·5	0·0
	Gorleston ...	44	41	38	2	2	0·0
	Mildenhall ...	42	36	31	1	1	0·0
	Cranwell ...	41	35	33	1	1	0·0
3	Birmingham ...	39	34	31	0·2	-	0·0
	Upper Heyford	41	34	30	0·6	0·1	+
4	Ross-on-Wye	41	35	34	Tr	-	0·0
5	Bristol ...	41	35	34	Tr	-	0·0
	Portland Bill ...	41	36	*	-	-	*
	Plymouth ...	41	36	32	-	-	3·1
	The Lizard ...	41	35	*	-	-	5·4
	Scilly (St. Mary's)	43	43	*	-	-	0·5
	Guernsey ..	43	41	36	Tr	1	0·0
6	Pembroke ...	42	38	*	-	-	0·0
7	Holyhead ...	44	39	35	Tr	-	0·0
	Chester(Sealand)	42	31	27	Tr	-	0·1
8	Manchester ...	42	32	27	Tr	-	0·7
10	Spurn Head ...	43	38	*	1	0·6	0·0
	Catterick ...	39	37	34	Tr	-	0·0
	Tynemouth ...	41	37	36	0·2	1	0·0
11	St. Abbs Head ..	39	36	*	-	Tr	*
	Leuchars ...	36	30	25	-	-	6·0
12	Renfrew (Abbots L.)	37	25	20	-	-	1·4
	Eskdalemuir ...	35	31	27	-	-	1·0
	Point of Ayre...	42	37	*	-	-	0·0
13a	Tiree	44	40	37	-	-	0·5
13b	Stornoway ...	41	40	*	-	Tr	0·0
15	Dalwhinnie ...	33	32	29	-	-	0·0
	Aberdeen ...	39	38	36	Tr	Tr	0·9
	Wick ...	44	39	*	0·1	0·2	*
16	Lerwick ...	43	41	*	0·5	1	0·0
17	Blacksod Point			*	-		*
18	Malin Head ...	45	41	*	-	-	0·0
	Aldergrove ...	39	28	20	-	Tr	0·0
19	Birr Castle ...	40	35	*	-	-	0·0
20	Valentia Obsy. †	42	37	36	-	-	0·0
	Roches Point	42	35	*	-	-	+

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day mm.	Rainfall. Night mm.	Sunshine to Sunset hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
Kew	18	cm/cm$_o$	cir$_o$m$_o$	cr$_o$cm$_o$	42	37	32	0·1	0·3	0·0	*	*	5
Croydon	217	cm/cr$_o$	cd/cm	dr$_o$cm$_o$	43	38	36	0·1	0·1	0·0	*	*	5
Greenwich (Royal Observatory)...	149	cd/m	cd/m	cd$_o$	42	38	36	Tr	Tr	0·0	91	86	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St James' Park) ...	27	*	*	*	43	37	37	-	-	0·0	91	97	*
Kensington Pk. (Botanic Gardens)‡...	168	*	*	*	42	36	34	Tr	0·3	0·0	91	82	*
Camden Square	110	ccp	ccr	*	42	36	34	0·3	-	*	*	86	*
Kensington	80	co	cop	*	43	38	33	0·3	0·5	0·0	At 18h. 89	87	*
Hampstead Observatory	450	or	o	o	41	33	29	1	-	0·0	*	94	*

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.
Paris	1026·3	N	2	Z_o	30	1023·5	NW	3	$d_o d_o$	36
Brussels	1024·7	WSW	2	$S_o S_o$	30	1021·6	N	2	Z_o	37
Berlin	1014·9	WSW	4	$S_o S_o$	28	1012·5	NNW	5	c	32
Zurich	1023·2	ESE	3	S_o	23	1022·7	NW	1	o	23
Rome	1016·2	SSE	1	b	37	1015·4	NE	3	bc	30

Stations	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Paris	32	21	-	Tr
Brussels	30	37	5	2
Berlin	*	*	3	5
Zurich	*	*	-	-
Rome	*	*	-	-

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·6	10–11h 31st.	<0·3	3h 1st.

Kew Observatory. Max.	Time.	Min.	Time.
0·3	11h 31st.	0·1	23h. 31st.

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

TERMS OF SUBSCRIPTION. Single Copies, 1d. each; by post 1½d. 2/6 per month; 6/6 per quarter; 24/- per year.

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

† 4 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 2nd January, 1938.
No. 27800.

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

Distrct.	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. (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)	1027·8	-3	NNW	4	N_o	44	75	5	5	-	-	9+	9+	2500
	Croydon ...	1027·2	-6	N'E	4	m	43	85	4	5	-	-	9+	10	1500
	S. Farnborough	1028·8	-10	N'W	3	N_o	42	85	6	5	-	-	9+	9+	2500
	Boscombe Down	1029·9	-6	N'W	4	N_o	40	85	6	5	3	-	7-8	9+	4000
	Calshot (Sthmtn.)	1029·5	-6	NNW	5	$N_o N_o$	42	85	6	5	6	-	4-6	7-8	4000
	Lympne ...	1026·9	+2	N'W	4	N_o	41	85	6	5	-	-	9+	9+	800
	Manston ...	1026·1	-4	NW	3	c	43	85	6	5	-	-	9	9	800
2	Shoeburyness ...	1027·0	+8	NNW	5	c	43	85	6	5	7	-	4-6	9+	800
	Felixstowe ...	1026·2	0	NNW	4	ir_o	44	85	7	6	3	-	7-8	9+	1500
	Gorleston ...	1026·4	+2	N'W	4	c/pr	43	85	6	8	-	-	9	9	2500
	Mildenhall ...	1028·0	0	NNW	4	N_o	42	85	6	5	-	-	9+	9+	4000
	Cranwell ...	1029·2	-2	NW	4	N_o	41	92	6	5	-	-	10	10	2500
3	Birmingham ...	1031·1	-2	NNW	3	N_o	38	85	5	5	-	-	9+	9+	2500
4	Upper Heyford	1030·2	-2	N'W	4	N_o	40	85	5	5	-	-	9+	9+	4000
	Ross-on-Wye	1031·2	-4	N'W	3	N_o	41	75	6	5	-	-	10	10	2500
5	Bristol ...	1030·4	-14	N'W	3	N_o	41	75	5	5	-	-	9+	9+	4000
	Portland Bill ...	1029·4	-6	N	4	o	39	92	7	5	-	-	10	10	2500
	Plymouth ...	1031·0	-3	N'W	4	c	41	75	7	5	-	-	9+	9+	4000
	The Lizard ...	1031·7	-2	N	4	bc	44	65	8	4	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	1032·7	0	NE'N	4	c	44	65	8	8	-	-	9	9	8500
	Guernsey ...	1028·6	-6	N	3	o	44	75	7	5	-	-	10	10	2500
6	Pembroke ...	1033·6	-4	NE'N	2	c	43	75	8	5	2	-	7-8	9+	2500
7	Holyhead ...	1033·0	0	N	4	c	45	65	9	7	-	-	10	10	2500
	Chester (Sealand)	1032·0	-4	NW	2	N_o	41	75	6	5	-	-	10	10	4000
8	Manchester ...	1032·4	-8	NW	1	m	42	75	4	5	-	-	10	10	4000
10	Spurn Head ...	1028·8	+4	N	5	c	43	85	7	9	-	-	9+	9+	2500
	Catterick ...	1031·7	-2	NNW	3	c	41	85	7	5	7	-	4-6	9+	4000
	Tynemouth ...	1030·7	0	N	2	bc/r	41	92	6	9	-	-	4-6	4-6	800
11	St. Abbs Head ...	1032·9	0	WNW	3	c	41	75	6	5	2	-	7-8	10	2500
	Leuchars ...	1032·9	-4	WSW	2	c	40	85	8	5	-	-	9+	9+	4000
12	Renfrew (Abbotsl.)	1034·3	-2	NNW	3	c	39	85	7	5	-	-	10	10	7800
	Eskdalemuir ...	1032·8	-4	NNW	3	o	39	75	7	5	-	-	9+	9+	2500
	Point of Ayre ...	1032·7	0	NE	4	c	44	72	8	-	7	-	0	10	-
13A	Tiree	1034·7	-2	NNW	2	bc	47	75	8	7	8	-	2-3	2-3	4000
13B	Stornoway ...	1033·6	-6	WSW	3	c	45	85	7	5	7	-	4-6	7-8	4000
15	Dalwhinnie ...	*	-14	NE	2	c	36	85	8	5	-	-	10	10	4000
	Aberdeen ...	1031·8	-4	NW	3	c	43	75	7	5	-	-	9+	9+	4000
	Wick ...	1032·1	0	WNW	3	c	43	85	8	5	7	-	7-8	9	1500
16	Lerwick ...	1029·7	0	NW	3	c	45	92	8	5	7	-	4-6	9	1500
17	Blacksod Point	1032·4	-6	WSW	3	c	45	85	8	5	-	-	9	9	450
18	Malin Head ...	1033·3	-2	S'W	1	c	45	97	7	8	4	-	4-6	7-8	1500
	Aldergrove ...	1036·2	-4	-	0	z_o	38	92	6	5	-	-	10	10	5700
19	Birr Castle ...	1036·3	+2	N	1	c	40	85	8	5	-	-	7-8	7-8	2500
20	Valentia Obsy. †	1033·3	0	NNE	3	b	43	65	8	7	-	-	1	1	4000
	Roches Point	1036·8	+2	NNE	3	c	41	75	8	5	-	-	7-8	7-8	2500

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

Distrct.	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°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)	1028·5	+4	NNW	4	N_o	42	85	6	5	-	-	10	10	2500	1	*
	Croydon ...	1028·4	+4	N	3	m	42	85	4	5	-	-	9+	9+	1500	1	*
	S. Farnborough	1029·1	+4	N'W	3	N_o	41	85	6	5	-	-	10	10	4000	1	*
	Boscombe Down	1030·2	+2	N'E	3	N_o	38	85	4	5	-	-	10	10	4000	1	*
	Calshot (Sthmtn.)	1029·4	+8	NNW	4	c/pr	42	85	7	5	-	-	10	10	2500	1	2
	Lympne ...	1027·2	+4	NNW	4	c/pr	40	85	7	5	-	-	9+	9+	2500	1	*
	Manston ...	1026·5	+2	N	4	c	42	85	6	5	-	-	9+	9+	1500	1	*
2	Shoeburyness ...	1027·5	+4	NW	4	c/r	42	85	6	5	-	-	10	10	800	1	*
	Felixstowe ...	1027·2	+6	N'W	3	ir_o	42	85	7	5	3	-	9	9+	1500	1	2
	Gorleston ...	1026·9	+4	NNW	4	c/pr	43	85	6	8	-	-	7-8	7-8	2500	1	*
	Mildenhall ...	1026·4	+4	NNW	3	c/pr	40	82	6	9	3	-	4-6	10	1500	1	*
	Cranwell ...	1030·0	+2	NW'W	3	N_o	39	92	6	5	-	-	9+	10	2500	1	*
3	Birmingham ...	1031·3	0	NNW	3	N_o	38	85	5	5	-	-	10	10	1500	1	*
4	Upper Heyford	1030·4	+2	N'W	4	N_o	40	85	5	5	-	-	9+	9+	4000	1	*
	Ross-on-Wye	1031·2	0	N	3	N_o	40	75	6	5	-	-	10	10	1500	1	*
5	Bristol ...	1031·3	+2	NNW	3	N_o	40	85	5	5	-	-	10	10	2500	1	*
	Portland Bill ...	1029·1	+4	N	4	c	42	85	7	4	-	-	10	10	2500	1	3
	Plymouth ...	1031·4	+2	N	4	N_o	41	75	6	5	-	-	9+	9+	4000	1	1
	The Lizard ...	1031·3	+2	N'E	3	c	41	75	8	8	7	-	7-8	10	2500	1	2
	Scilly (St. Mary's)	1032·4	-2	N'E	4	c	44	65	8	5	-	-	10	10	2500	1	3
	Guernsey ...	1028·2	+4	N'E	4	c	44	75	7	8	-	-	10	10	2500	1	3
6	Pembroke ...	1033·2	-2	NE	2	c	42	75	8	5	2	-	7-8	10	4000	1	1
7	Holyhead ...	1033·4	+2	N'E	4	c	45	75	8	5	-	-	10	10	4000	1	2
	Chester (Sealand)	1033·0	+4	NW'W	2	N_o	40	85	5	5	-	-	10	10	4000	1	*
8	Manchester ...	1032·0	-2	N	3	N_o	40	75	5	5	-	-	10	10	4000	1	*
10	Spurn Head ...	1028·3	+2	N	3	c	40	97	8	8	-	-	7-8	7-8	2500	1	3
	Catterick ...	1031·6	0	NW	2	c	40	85	7	5	-	-	10	10	4000	1	*
	Tynemouth ...	1031·4	0	NW	3	o	41	75	6	5	-	-	10	10	800	1	2
11	St. Abbs Head ...	1032·7	+4	WNW	4	c	42	65	6	5	2	-	7-8	10	2500	0	2
	Leuchars ...	1033·1	+6	WNW	2	c	40	75	7	5	-	-	9+	9+	4000	1	*
12	Renfrew (Abbotsl.)	1034·2	0	W'S	2	z_o	39	85	5	5	-	-	10	10	5700	1	*
	Eskdalemuir ...	1033·1	0	E	1	c	38	75	7	5	-	-	10	10	1500	1	*
	Point of Ayre ...	1033·8	+2	NNE	3	c	43	75	7	5	-	-	10	10	1500	0	2
13A	Tiree	1034·3	0	-	0	c	42	92	8	5	3	-	4-6	7-8	4000	0	2
13B	Stornoway ...	1033·7	+4	W	2	c	42	92	7	5	-	-	7-8	7-8	4000	1	1
15	Dalwhinnie ...	*	+4	N	1	bc	33	85	8	4	-	-	2-3	2-3	4000	0	*
	Aberdeen ...	1032·1	+6	NW	3	bc	41	75	7	5	-	-	2-3	2-3	4000	1	1
	Wick ...	1031·8	+4	WNW	3	r_r	43	97	7	5	2	-	7-8	10	800	1	*
16	Lerwick ...	1029·9	0	NW	2	$r_r c$	42	85	6	8	7	8	23	28	1500	1	*
17	Blacksod Point	1035·2	-4	WNW	2	bc	41	85	8	4	-	-	23	2-3	800	1	2
18	Malin Head ...	1034·7	0	SW'W	2	c	44	97	7	8	-	-	7-8	7-8	1500	0	1
	Aldergrove ...	1035·9	+2	-	0	z_o	37	92	6	5	-	-	9+	9+	4000	1	*
19	Birr Castle ...	1036·0	0	N	1	c	40	85	8	5	2	-	7-8	10	2500	1	*
20	Valentia Obsy. †	1037·2	-4	-	0	ir_o	42	85	7	5	7	-	4-6	10	2500	0	1
	Roches Point	1036·3	-4	NNE	3	bc	39	85	8	5	-	-	4-6	4-6	2500	0	2

PAST 24 HOURS.

Weather. 7h.–13h. 1st. (37)	13h.–18h. 1st. (38)	18h. 1st to 1h 2nd. (39)	1h.–7h. 2nd. (40)
$c_g c z_o$	cm_o	cm_o	$c p r_o c$.
$c d_o m_o n$	cm	$c m m_o$	$r_o a m_o$
$c i d c m_o$	$c m_o$	$c m_o$	$c m_o$
$b a p_g c m_o$	$c m_o c m$	$c m c m_o$	$c m_o$
$c b c m_o$	$c r_a$	o	c
$a_g c m_o$	$c r_o m p r_o$	$c o m_o$	$o m_o p_d r m$
$b i_g c m_o$	$c r_o m_o c$	$c m_o c r_o c$	c
$c i_g m_o c$	$c i_r m_o$	$c i r_o m c$.	c
$c p_g m_o i r_o$	$c i_r c$	$c r_o p r_o c$	c
$c i r_a q$	$a p_g$	$a p r_o$	$a p r c$.
$c p_g c m_o$	$c m_o p r_o p r$	$c p r_o r r m_o$	$c m_o$
$c m_o$	$c m_o i d_o$	$c m_o P R$.	$c m_o$
c	co	oc.	o
$c m_g$	$c m_o$	$c m_o$	$c m_o$
$c z_o$	$c z_o$	$c z o z$	$o m_o$
$c p_g m_o$	$c m_o r_o m_g$	$c m_o$	$c m_o$
bce	oc	$c z_o$	$c o z_o$
$b a c z_o c$	$c z_o$	$c z_o$	c
$c k_o c$	$b c c$	t	c
$c i d_o c$	c	cy	cy
co	oc	c.	$c i r_o$
$c q_o c$	c	c	$c q_o c$.
c	c	c.	cb.
$c m_o z_o$	$o z_o m_o$	$c m_o$	$c m_o$
$c m_o$	$c z z_o$	$o z_o$	$c b c z_o$
$p r_o c$	$p r b a c$	co	oc.
c	c	c.	$d o c w c$.
$b c i_g b c$	$b c c p_o$	$d b c$.	$c i r_o b c$.
$b e n_o c$	$c_o b c$.	$c b c$.	$b x$
$c b c$.	c	$c b c$.	$b d b m_o$
$b c$	$b c$.	$c b c$.	$b c$
$c b c$.	c	$c b c$.	$b c p r_o$
c	c	c	b
$c b a b$	$b b a b$	$b b c p r_o$
c	$d r r$	$s_o l d_o$	$c i d_o$
$c p r_o$	$w_o c c$	$c b c$.	$c p r_o$
$i r_o c$	$i r_o c$	$w_o c$.	$p r c$.
c	c	$c b c c$.	$c p r_o c$.
$b o l d_o$	$b c b x b$
$b b c c$	$c b c$	$b c$.	$b c$

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

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 1/20 of the sky. "9+" signifies an overcast sky with a few small openings.

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb.

COLUMN 29.—STATE OF GROUND.

0 . . Ground dry.
1 . . „ wet.
2 . . „ flooded.
3 . . „ frozen hard and dry.
4 . . „ partly covered with snow or hail.
5 . . „ covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . „ covered with snow, less than 6 ins., deep but ground not frozen.
8 . . „ covered with snow, less than 6 ins., but ground frozen.
9 . . „ covered with snow greater than 6 ins. deep.

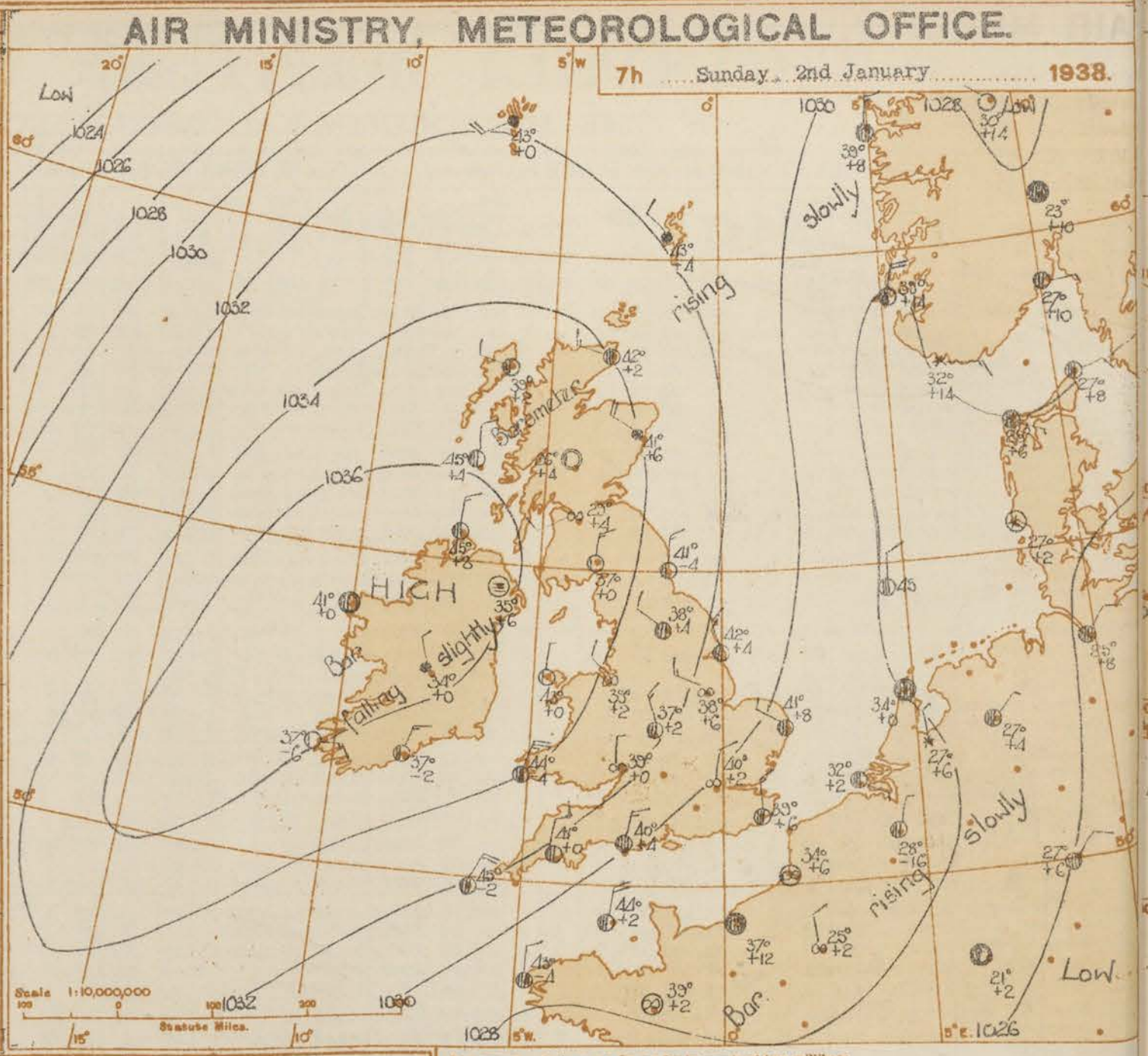
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

† Gale disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 1st January 1938

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature (°F.). Min. 9h. last to 9h. 1st.	Temperature (°F.). Max. 9h.—17h. last.	Rainfall (mm.). Night. 17h. 31st to 9h. 1st.	Rainfall (mm.). Day. 9h.—17h. last.	Sunshine (hrs.). Sunrise to Sunset. last.
1	Tunbridge W.	o	s,or.	34	42	0·3	Trace	0·0
	Bournemouth	c	c	32	43	–	–	0·1
	Ventnor ...	oz	oz	34	43	–	–	0·0
	Southsea ...	bcc	bcc	36	44	0·2	–	0·4
	Bognor Regis	oc	c	35	44	0·3	–	0·0
	Littlehampton	bcc	cbcc	34	44	–	–	0·5
	Worthing ...	cbcc	c	36	43	Trace	–	0·2
	Brighton ...	c	cdc	36	44	–	Trace	0·0
	Eastbourne† ...	co	oidp	42	44	0·4	Trace	0·1
	Hastings† ...	ocbc	bccop	37	43	0·5	0·3	0·5
	Folkestone ..	cmc	copo	34	44	1	0·3	1·0
	Dover ...	bcc	cor	38	45	1	0·5	2·8
	Deal	roc	cro	36	43	1	0·5	0·8
	Ramsgate ...	bc	dio	39	44	Trace	Trace	1·6
	Margate ...	c	cd	39	43	0·5	0·3	0·0
2	Southend ...	oo	ocPc	36	42	0·3	8	0·0
	Clacton-on-Sea	c	cpc	35	44	1	Trace	0·0
	Dovercourt ...	dbcc	doc	36	44	0·5	Trace	0·0
	Lowestoft ...	cir	c	37	44	6	0·6	0·1
	Skegness ...	cpc	coc	37	44	1	Trace	0·0
	Mablethorpe...	opo	bcc	36	44	1	Trace	0·0
	Cleethorpes ...	c	c	37	43	2	–	0·0
3	Leamington S.	o	o	35	42	–	–	0·0
4	Cheltenham†	mco	oco	35	40	–	–	0·0
5	Bath	c	c	35	42	Trace	–	0·0
	Weymouth ...	c	c	33	42	–	–	0·0
	Jersey ...	cro	c	36	45	1	–	0·0
	Torquay ...	bcmc	com	39	43	–	–	0·6
	Falmouth	b	c	31	45	–	–	3·7
	Penzance ...	bbc	cbbc	36	46	–	–	3·0
	St. Ives ...	o	c	32	38	–	–	1·2
	Bude... ...	bcc	c	35	43	–	–	2·0
	Ilfracombe ...	oc	co	38	44	–	–	0·0
6	Aberystwyth	xzc	c	30	42	–	–	0·0
7	Llandudno ...	c	c	36	44	–	–	0·0
	Colwyn Bay...	c	o	32	42	–	–	0·0
	Rhyl	cm	c	37	43	–	–	0·0
8	Wallasey ...	c	c	33	40	–	–	0·0
	Southport ...	oz	oz	30	39	–	–	0·0
	Blackpool ..	cm	cm	33	40	–	–	0·0
	Morecambe ...	cmcm	cmo	29	39	–	–	0·0
9	Ilkley... ...	c	c	35	42	–	–	0·0
	Harrogate ...	c	cir	35	40	–	Trace	0·0
10	Berwick-on-T.	c	oo	36	43	–	–	0·0
11	Dunbar ...	cmz	cm	32	40	–	–	0·0
12	Troon... ...	xcoc	coc	26	43	–	–	0·0
	Douglas ...	c	c	32	42	–	–	0·0

* Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
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 January, 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light to moderate north to northeast winds; cloudy, local showers at first, bright periods later; average day temperature, frost locally inland at night.
7 North Wales ... 8 N.W. England 9 N. Midlands ...	Light northerly winds; fair; local fog; average day temperature, frost at night.
10 N.E. England 11 S.E. Scotland	Light northerly or variable winds; bright periods, local showers; morning fog; average day temperature, frost inland at night.
12 S.W. Scotland & Isle of Man.	As 7 ~ 9.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Moderate westerly winds; bright periods, local showers; average temperature, frost locally inland.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light variable winds; fair; local fog; rather cold, frost at night.

GENERAL INFERENCE.

Anticyclones are centred over Ireland and Scandinavia. Weather will be fair over the greater part of the country, with average day temperatures and frost at night, but showers will occur locally on the east coast of England and in North Scotland.

FURTHER OUTLOOK.

Mainly fair and rather cold; local fog.

Forecasts issued at 1130 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway W.C.2
G 320/3398 W.L.8020 D.4513 6p 548 2510 1/38

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

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

SUNDAY, 2ND JANUARY.

1938.

Clarke's Projection. Scale 1: 4 x 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 600

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—◯

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. ✱ Sleet. , △ Hail. ≡ Fog. ≡ Mist. ϟ Thunder. Σ Thunderstorm. ∞ Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 2nd January, 1938

No. 27800.

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

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	1029.5	+6	N'E	3	c	40	85	6	5	-	-	10	10	1500.
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Stbmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1028.2	+4	N'W	3	0	39	85	6	5	-	-	10	10	1500.
	Manston ...	142	1027.8	+6	N'W	3	0	41	92	7	6	-	-	10	10	800.
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1028.0	+2	NNW	4	9/pr	41	85	7	6	-	-	10	10	2500.
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1029.6	-2	NNE	3	c	40	92	6	4	-	-	10	10	2500.
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1031.7	0	N'E	3	c	41	75	8	5	-	-	10	10	2500.
	Scilly (St. Mary's)	163	1032.1	-2	NE'N	5	c	45	55	8	5	-	-	10	10	2500.
	Guernsey ..	175	1029.2	+4	N'E	3	c	44	85	6	8	-	-	7-8	7-8	2500.
6	Pembroke ...	142	1032.9	0	NNE	3	c	42	75	8	5	-	-	10	10	4000
7	Holyhead ...	26	1034.0	+2	ENE	2	c	45	85	7	5	-	-	10	10	2500.
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1029.7	0	NW'N	3	0	40	97	7	5	-	-	10	10	2500.
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1031.3	-4	NW	3	bc	42	65	6	2	-	-	2-3	2-3	1500.
11	St. Abbs Head ..	280	1032.6	+4	WNW	3	bc	41	75	7	7	4	-	2-3	4-6	2500.
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1033.8	0	NE'N	3	c	44	75	8	5	-	-	7-8	7-8	2500.
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1034.9	+4	W'S'W	2	bc	39	92	8	5	-	-	2-3	2-3	2500.
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	78	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1032.7	+8	WNW	3	c/d.	41	97	6	8	7	-	4-6	7-8	1500.
16	Lerwick ...	156	1031.3	+8	NW	2	c	43	92	8	8	-	-	9	9	1500.
17	Blacksod Point	18	1036.5	0	-	0	bc	40	92	7	5	-	-	4-6	4-6	800.
18	Malin Head ...	84	1035.4	+4	N.	2	c	46	92	7	8	-	-	7-8	7-8	1500.
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1036.6	0	-	0	bc	41	97	7	5	-	-	2-3	2-3	1500.
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1030.3	+4	N	3	c	41	85	7	5	-	-	9+	9+	1500	1	*
	Croydon ...	1029.7	+2	N'E	2	Z_o	40	92	6	5	-	-	10	10	800	1	*
	S. Farnborough	1030.3	+2	NNW	2	c	39	92	6	5	-	-	10	10	800.	1	*
	Boscombe Down	1031.1	0	N'E	2	Z_o	37	92	6	5	-	-	10	10	4000	1	*
	Calshot (Stbmtn.)	1029.8	0	NNW	4	c	40	85	7	5	-	-	10	10	2500.	1	2
	Lympne ...	1029.0	+6	N	3	c/c.	39	92	7	5	7	-	9	10	450.	1	8 1.
	Manston ...	1028.6	+6	N	2	c	39	92	7	5	7	-	4-6	9	800.	1	*
2	Shoeburyness ...	1029.2	+4	N'W	4	pr.	40	92	7	8	7	-	4-6	9	1500.	1	*
	Felixstowe ...	1029.0	+10	N	3	c	39	92	7	5	3	-	4-6	9+	2500.	1	2
	Gorleston ...	1029.5	+8	NW'W	1	c	41	92	7	8	-	-	9	9	2500	1	2
	Mildenhall ...	1029.9	+3	NNW	2	Z_o	39	97	5	5	3	-	2-3	9+	1500.	1	*
	Cranwell ...	1031.5	+6	NW'W	3	Z_o	38	97	5	5	-	-	10	10	2500.	1	*
3	Birmingham ...	1032.5	+2	NNW	3	c	37	85	7	5	-	-	10	10	1500.	1	*
	Upper Heyford	1031.5	+2	NNW	3	m	37	97	4	5	-	-	10	10	800	1	*
4	Ross-on-Wye	1032.3	0	N'W	1	Z_o	39	75	6	5	-	-	10	10	1500.	1	*
5	Bristol ...	1032.3	0	NNE	3	c	39	85	7	5	-	-	10	10	2500.	1	*
	Portland Bill ...	1029.8	+4	NNE	3	c	40	85	6	5	-	-	10	10	2500.	1	3
	Plymouth ...	1031.3	0	N	2	c	41	75	7	5	-	-	9+	9+	4000	1	0
	The Lizard ...	1031.5	0	N'E	3	c	40	75	8	5	2	-	9+	10	2500	1	2
	Scilly (St. Mary's)	1031.6	-2	NE'N	4	c	45	65	8	5	-	-	9+	9+	2500	1	3
	Guernsey ..	1029.4	+2	NNE	4	c/c.	44	85	7	8	-	-	10	10	2500	1	3
6	Pembroke ...	1032.4	-4	NNE	5	q	44	75	7	5	2	-	7-8	10	2500	1	2
7	Holyhead ...	1034.2	0	N	1	b	43	92	8	5	-	-	Tr	Tr	2500.	1	1
	Chester (Sealand)	1033.7	+2	NW	2	Z_o	39	92	6	5	-	-	10	10	4000	1	*
8	Manchester ...	1033.2	+2	N	3	Z_o	41	75	6	5	3	-	7-8	9	2500.	1	*
10	Spurn Head ...	1030.8	+4	NNW	3	c	42	85	7	5	1	2	2	10	1500	0	2
	Catterick ...	1033.5	+4	NW	2	c	36	85	7	5	4	-	7-8	7-8	2500	1	*
	Tynemouth ...	1032.7	-4	N	3	bc	41	85	7	5	-	-	4-6	4-6	1500.	1	2
11	St. Abbs Head ..	1034.0	0	WNW	4	c	42	85	6	5	7	-	4-6	7-8	2500	0	2
	Leuchars ...	1034.7	+10	WNW	1	b	34	85	7	5	-	-	1	1	4000	3	*
12	Renfrew (Abbotsl.)	1035.1	+4	SW'W	2	Z_o	29	92	6	-	-	-	0	0	-	1	*
	Eskdalemuir ...	1034.5	0	N'E	3	b	37	75	8	5	-	1	Tr	Tr	2500	3	*
	Point of Ayre ...	1034.7	+2	NNE	3	b	41	85	7	5	-	-	1	1	2500	0	2
13A	Tiree	1035.6	+4	N	2	c	45	65	8	5	-	-	7-8	7-8	4000	0	2
13B	Stornoway ...	1035.8	+2	WNW	2	c	39	97	8	5	-	-	2-3	2-3	2500	1	1
15	Dalwhinnie ...	·	+4	-	0	b	26	92	8	4	-	-	1	1	4000	3	*
	Aberdeen ...	1033.6	+6	NW	4	bc	41	85	7	8	-	-	4-6	4-6	2500	1	1
	Wick ...	1033.1	+2	WNW	3	c/d	42	97	7	5	1	-	7-8	9	800	1	1
16	Lerwick ...	1031.7	+4	NW	2	pr.	43	92	8	8	7	-	4-6	7-8	800.	1	*
17	Blacksod Point	1036.3	0	-	0	bc	41	97	7	4	-	-	4-6	4-6	800.	1	2
18	Malin Head ...	1036.1	+8	N	3	c	45	97	7	8	-	-	9	9	1500	0	2
	Aldergrove ...	1036.8	+6	-	0	F	35	97	1	-	-	-	10	10	4150	1	*
19	Birr Castle ...	1036.3	0	NNW	1	id.	34	97	7	5	-	-	10	10	1500	1	*
20	Valentia Obsy. †	1035.8	-6	E'N	3	b	37	92	8	1	-	-	1	1	0500	1	1
	Roches Point	1035.6	-2	NNE	3	bc	37	92	8	5	-	-	2-3	2-3	0500.	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 1..... Hrs. (36)
1	London (Kew)	44	40	37	Tr	Tr	0.1
	Croydon ...	43	40	38	Tr	Tr	0.2
	S. Farnborough	42	38	36	Tr	-	0.1
	Boscombe Down	41	35	34	-	-	0.0
	Calshot (Stbmtn.)	43	40	38	-	-	0.2
	Lympne ...	42	38	37	0.2	0.2	0.1
	Manston ...	43	38	36	0.1	0.1	0.1
2	Shoeburyness ...	43	39	36	0.2	Tr	0.0
	Felixstowe ...	44	38	36	0.05	0.1	0.1
	Gorleston ...	44	40	38	0.5	1	0.0
	Mildenhall ...	42	38	35	1	4	0.0
	Cranwell ...	41	37	35	Tr	0.5	0.0
3	Birmingham ...	39	36	35	-	-	0.0
	Upper Heyford	41	36	33	-	-	*
4	Ross-on-Wye	41	38	35	-	-	0.0
5	Bristol ...	41	37	34	Tr	-	0.0
	Portland Bill ...	43	37	*	-	-	*
	Plymouth ...	42	40	37	-	-	1.4
	The Lizard ...	45	39	*	-	-	5.3
	Scilly (St. Mary's)	45	43	*	Tr	-	0.4
	Guernsey ..	44	43	39	-	0.1	0.0
6	Pembroke ...	43	41	*	-	-	0.5
7	Holyhead ...	45	42	35	-	-	0.0
	Chester (Sealand)	41	39	36	-	-	0.0
8	Manchester ...	42	36	33	-	-	0.0
10	Spurn Head ...	44	40	*	3	-	0.0
	Catterick ...	41	37	33	-	-	0.0
	Tynemouth ...	42	40	36	1	4	*
11	St. Abbs Head ..	43	40	*	-	-	*
	Leuchars ...	42	32	25	-	-	0.0
12	Renfrew (Abbotsl.)	40	26	20	-	-	0.0
	Eskdalemuir ...	40	31	23	-	-	0.0
	Point of Ayre ...	44	38	*	-	-	0.0
13A	Tiree	47	38	30	-	-	L23
13B	Stornoway ...	45	37	*	-	0.2	1.4
15	Dalwhinnie ...	37	26	15	-	-	0.0
	Aberdeen ...	43	39	36	-	Tr	0.0
	Wick ...	43	39	*	0.3	1	*
16	Lerwick ...	46	40	*	Tr	Tr	0.0
17	Blacksod Point	48	34	*	Tr	3	*
18	Malin Head ...	46	40	*	-	Tr	0.0
	Aldergrove ...	39	31	23	0.2	0.1	0.0
19	Birr Castle ...	43	30	*	-	Tr	21
20	Valentia Obsy. †	44	33	28	Tr	1	4.4
	Roches Point	42	36	*	-	-	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day mm.	Rainfall. Night mm.	Sunshine to Sunset hrs.	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cr.cz	cm.	cm.pr.c	44	40	37	Tr	Tr	0.1	*	*	5
Croydon	217	cd.m.m	cm	cr.m.c.	43	40	38	Tr	0.2	0.0.	*	*	5.
Greenwich (Royal Observatory)...	149	cir.	c	circm.	43	39	35	Tr	0.4	0.0	79	91	5.
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	45	42	36	0.3		0.0	78	92	*
Kew Pk. (Botanic Gardens)‡...	168	*	*	*	44	35	30	1	1	0.0	91	79	*
Camden Square	110	bcc	c	*	43	40	37	-	0.3	*	*	92	*
Kensington	80	cop	co	*	44	39	34	-	Tr	0.1	At 18h. 91	91	*
Hampstead Observatory	450	bcod	o	or.	42	37	30	Tr	0.3	0.2	*	94.	*

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.
Paris	1025.4	N	2	b	36	1028.5	NNW	2	b/s	25
Brussels	1025.4	NE	1	c	34	1028.9	NNE	1	c	28
Berlin	1017.5	ENE	4	$S_o S_o$	27	1024.4	NW	1	c/r3	25
Zurich	1022.0	WNW	1	$S_o S_o$	27	1025.0	ENE	1	c	21
Rome	1013.6	-	0	b	37	1014.1	NE	3	b	25

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0.3..	15-18h. 1st.	0.5	5-7h 2nd.

Kew Observatory. Max.	Time.	Min.	Time.
0.2	10h. 1st.	0.1	7hr. 2nd.

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
41	25	1	-
37	25	-	-
34	21	0.2	Tr.
*	*	0.1	0.2
*	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

* 1 hr. observations are from Valentia W/T Station. † Maximum and Minimum Temperatures are for the 24 hours ending 8 h. ‡ See disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 3rd January. 1938.
No. 27801.

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)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1031·0	-2	NE	3	c/pr	44	85	5	5	3	-	4-6	9+	1500
	Croydon ...	1031·1	-2	NE	2	m/f	43	85	4	5	-	-	9+	9+	1500
	S. Farnborough	1031·2	-2	N	2	c	43	85	6	5	3	-	9+	10	2500
	Boscombe Down	1031·9	-2	NNE	3	z.	42	85	6	5	3	-	9	9+	5700
	Calshot (Sthmtn.)	1030·3	-2	N	4	z.	44	85	6	5	3	-	4-6	9	4000
	Lympne ...	1030·1	-2	NW	3	c	42	85	8	8	3	-	4-6	7-8	2500
	Manston ...	1029·3	-6	NW	3	bc	42	92	7	5	3	-	4-6	4-6	1500
2	Shoeburyness ...	1030·1	-2	NWN	3	c	45	85	6	8	3	-	4-6	9	1500
	Felixstowe ...	1029·8	-6	NW	3	c	45	75	8	7	3	1	4-6	9	2500
	Gorleston ...	1028·9	-6	NWN	3	c	45	85	7	8	3	-	2-3	7-8	2500
	Mildenhall ...	1030·6	-4	NNW	2	pr.	43	97	6	9	7	-	7-8	9+	1500
	Cranwell ...	1032·4	-2	NNW	4	c/pr	41	97	6	8	4	-	4-6	9+	1500
3	Birmingham ...	1033·3	0	NNE	2	c	43	85	5	7	3	-	4-6	7-8	4000
4	Upper Heyford	1032·3	-2	N	3	z.	43	85	5	5	7	-	7-8	9+	1500
	Ross-on-Wye	1032·8	0	WNW	2	z.	42	85	6	5	3	1	1	2-3	1500
5	Bristol ...	1032·9	-2	N	3	z.	42	85	5	5	7	-	7-8	9	1500
	Portland Bill ...	1030·8	+4	N	3	c	43	85	6	4	4	-	4-6	10	2500
	Plymouth ...	1032·0	+2	NEE	2	c	45	65	8	5	-	-	9+	9+	7200
	The Lizard ...	1032·1	0	NNE	3	c	44	75	7	4	6	-	7-8	9+	2500
	Scilly (St. Mary's)	1032·9	+2	NEE	3	c	46	75	7	8	3	-	2-3	9+	1500
	Guernsey ...	1029·9	0	NE	3	c	45	75	7	8	-	-	9+	9+	2500
6	Pembroke ...	1033·8	+4	NEN	3	q	45	65	8	5	7	-	2-3	4-6	4000
7	Holyhead ...	1034·9	-2	N	3	bc	46	75	8	7	4	4	1	2-3	4000
	Chester (Sealand)	1035·0	+2	WNW	3	z.	41	85	6	-	3	-	0	4-6	- -
8	Manchester ...	1034·3	+2	NW	2	z.	44	75	5	-	3	-	0	9+	-
10	Spurn Head ...	1031·7	-4	NNW	5	c	44	92	6	5	1	-	4-6	7-8	2500
	Catterick ...	1034·1	-2	NNW	3	c	43	75	7	5	3	-	9	9+	2500
	Tynemouth ...	1033·6	0	NNW	3	c	44	75	7	8	-	-	7-8	7-8	1500
11	St. Abbs Head ...	1035·2	0	NW	3	c	41	85	8	8	7	1	4-6	7-8	2500
12	Leuchars ...	1035·7	+2	W	2	bc	43	75	8	-	4	1	0	2-3	-
	Renfrew (Abbotsl.)	1036·0	-2	-	0	bf	33	85	3	-	-	-	0	0	-
	Eskdalemuir ...	1035·1	-4	NEN	2	bc	43	65	8	7	-	-	4-6	4-6	4000
	Point of Ayre ...	1035·6	+2	NEN	1	b	44	75	8	-	4	-	0	1	-
13a	Tiree	1036·7	0	NEN	2	bc	46	65	9	5	3	5	1	2-3	4000
13b	Stornoway ...	1037·0	+4	WSW	1	c	43	85	9	5	7	-	9	9+	4000
15	Dalwhinnie ...	*	0	SSW	1	bc	39	75	8	4	4	5	1	4-6	4000
	Aberdeen ...	1035·1	+2	NW	4	bc	42	85	8	5	-	1	4-6	4-6	1500
	Wick ...	1034·8	+8	NW	3	c	43	97	8	8	1	-	4-6	9	1500
16	Lerwick ...	1033·6	+6	NW	3	c	43	85	8	5	7	-	7-8	10	1500
17	Blacksod Point	1037·5	0	SE	2	c	45	85	8	-	3	-	0	7-8	-
18	Malin Head ...	1037·0	0	W	1	c	46	97	8	8	-	-	7-8	7-8	2500
	Aldergrove ...	1037·1	-4	-	0	F	37	97	1	-	-	-	10	10	4150
19	Birr Castle ...	1036·9	+2	NNW	1	f	33	97	3	5	-	-	10	10	1500
20	Valentia Obsy. †	1037·6	-4	NE	2	b	44	75	8	-	-	-	0	0	-
	Roches Point	1036·6	+2	NNE	3	b	41	85	8	-	-	-	0	0	-

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

District	Stations. (For heights see p. 4.)	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)	1031·1	-2	NW	3	z.	42	85	5	5	-	-	7-8	7-8	1500	1	*
	Croydon ...	1030·6	0	NNE	3	r.	42	85	4	5	2	-	7-8	10	1500	1	*
	S. Farnborough	1031·3	0	NW	2	bc	41	92	6	5	-	-	4-6	4-6	1500	1	*
	Boscombe Down	1032·0	+2	NE	2	z.	40	92	6	5	-	-	10	10	1500	1	*
	Calshot (Sthmtn.)	1031·2	+2	NNW	3	c	43	85	7	5	7	-	7-8	10	4000	1	2
	Lympne ...	1029·4	-6	NNW	3	c	40	92	7	5	3	-	2-3	9+	2500	1	§ 0
	Manston ...	1028·9	-2	NNW	3	pr.	41	92	6	5	-	-	9+	9+	1500	1	*
2	Shoeburyness ...	1029·8	-4	NW	3	r.	42	92	6	-	2	-	10	10	800	1	*
	Felixstowe ...	1029·4	-8	NWN	3	pr	42	85	7	5	3	-	7-8	7-8	2500	1	2
	Gorleston ...	1029·1	+4	NWN	3	bc/pr	42	85	7	8	-	-	2-3	2-3	2500	1	2
	Mildenhall ...	1030·6	0	NNW	3	z.	38	97	6	5	3	-	2-3	2-3	2500	1	*
	Cranwell ...	1032·6	+2	NWN	4	PR	40	97	5	8	-	-	9	9	1500	1	*
3	Birmingham ...	1033·7	0	NNW	3	c	39	92	6	5	-	-	9+	9+	2500	1	*
4	Upper Heyford	1032·6	0	NW	3	z.	40	92	5	5	-	-	7-8	7-8	1500	1	*
	Ross-on-Wye	1033·4	+4	N	2	z.	40	85	5	5	-	-	4-6	4-6	1500	1	*
5	Bristol ...	1033·1	-2	NNE	2	m	40	92	4	5	-	-	4-6	4-6	1500	1	*
	Portland Bill ...	1031·1	0	NNE	3	c	43	85	7	4	-	-	7-8	7-8	2500	1	3
	Plymouth ...	1032·2	+2	N	2	b	41	85	7	5	-	-	Tr	Tr	5700	1	0
	The Lizard ...	1032·7	+2	NE	3	bc	40	85	8	4	-	-	4-6	4-6	2500	1	1
	Scilly (St. Mary's)	1032·9	0	NEN	4	c	45	75	7	8	7	-	4-6	9+	1500	1	3
	Guernsey ...	1030·2	+2	NEN	3	bc	44	75	6	8	-	-	2-3	2-3	2500	1	3
6	Pembroke ...	1034·3	+2	NE	3	q	40	85	7	5	7	-	2-3	2-3	4000	1	2
7	Holyhead ...	1035·8	+6	-	0	b	41	85	7	1	-	-	Tr	Tr	2500	0	1
	Chester (Sealand)	1035·5	+2	NW	3	z.	37	97	5	5	-	-	1	1	4000	1	*
8	Manchester ...	1034·7	+4	NW	3	z.	39	85	5	-	3	-	0	1	-	1	*
10	Spurn Head ...	1031·7	0	NE	4	c	43	85	7	8	1	-	4-6	7-8	2500	0	3
	Catterick ...	1034·7	+2	NWN	3	c	42	85	7	5	-	-	7-8	7-8	2500	1	*
	Tynemouth ...	1034·5	+6	N	3	pr.	43	85	6	8	-	-	9	9	1500	1	2
11	St. Abbs Head ...	1035·1	+6	NW	3	c	41	85	6	5	2	-	7-8	10	1500	0	2
12	Leuchars ...	1037·0	+8	WSW	1	bc	33	85	8	5	-	1	1	2-3	4000	3	*
	Renfrew (Abbotsl.)	1036·6	+4	-	0	F	25	97	0	-	-	-	10	10	1150	3	*
	Eskdalemuir ...	1036·2	+6	NW	3	bc	38	75	8	5	-	-	4-6	4-6	2500	1	*
	Point of Ayre ...	1035·6	0	NE	3	b	42	85	8	5	-	3	Tr	1	1500	0	2
13a	Tiree	1037·0	0	NNW	1	bc	43	85	9	5	3	-	2-3	2-3	4000	0	2
13b	Stornoway ...	1037·0	0	SW	2	c/d	43	97	7	5	2	-	7-8	10	2500	1	1
15	Dalwhinnie ...	*	+6	-	0	c	32	92	8	4	1	-	4-6	7-8	2500	3	*
	Aberdeen ...	1036·2	+4	NWN	2	id	39	97	6	5	-	-	9	9	1500	1	1
	Wick ...	1036·3	+8	WNW	3	c	41	92	8	8	1	-	4-6	7-8	1500	1	1
16	Lerwick ...	1034·6	+6	NW	2	c	43	85	8	5	2	-	9	10	1500	1	*
17	Blacksod Point	1037·5	0	-	0	bc	43	92	8	4	-	-	4-6	4-6	800	0	2
18	Malin Head ...	1037·0	+4	N	2	bc	45	92	7	4	-	-	4-6	4-6	2500	0	2
	Aldergrove ...	1037·7	+2	-	0	F	36	97	1	-	-	-	10	10	4150	1	*
19	Birr Castle ...	1036·9	+2	NNW	1	f	32	97	3	5	-	-	10	10	1500	1	*
20	Valentia Obsy. †	1036·7	+2	NE	2	b	36	85	8	-	-	-	0	0	-	1	1
	Roches Point	1036·5	0	NE	3	b	35	97	7	5	-	-	1	1	4000	0	2

PAST 24 HOURS.

Stations.	Weather 7h.–13h. 2nd (37)	Weather 13h.–18h. 2nd (38)	Weather 18h. 2nd.–1h. 3rd. (39)	Weather 1h.–7h. 3rd (40)
London (Kew)	cpr.	r.r r.cm.	cir.m.	cir.c
Croydon ...	cm.m fm	mr.r. fir.	pr.ir.cm.	am.rd.c
S. Farnborough	cir.m.c	bc r.r.c	cd.d bcb	bbc ir
Boscombe Down	cm.	cm.	cm.	cm.bcpr.c
Calshot (Sthmtn.)	cm.bcm.	bcm.cm.	cbcb	bcc
Lympne ...	cbc	bcpr.c	cpr.c	cpr.d.bcc
Manston ...	ccm.bc	bcm.cir.	cpr m.	am.bc
Shoeburyness ...	pr. cm.	cir.m.r.	occ.m.c	cbc
Felixstowe ...	c	cpr.bcc	cpr.bc	bcc
Gorleston ...	cm.c	cp.hr.q	bccpr.	c
Mildenhall ...	cm.pr.pr	cpr.cPRb	bccpr.cpr.	cm.
Cranwell ...	cm.pr.	cm.pr.	cm.pr	prpr.bc
Birmingham ...	cbc	c	cbc	bcod.
Upper Heyford	cm m.	cm.r.m.	cm.r.q	cm.r.m.s
Ross-on-Wye	cz.	cz	bcm.cm.	cm.
Bristol ...	cm.	bc rnpr.	bcmm.	bccm.pr.
Portland Bill ...	ocz.	c	bcz.	cd.
Plymouth ...	cz.	cbcb	b	bbc
The Lizard ...	c	cbc	bcb	bbc
Scilly (St. Mary's)	cp.c	c	cbc	bcc
Guernsey ...	c	cphr	bccbc	bccpr
Pembroke ...	cq bc	bc q	bqw	bbcq.c
Holyhead ...	b bc	b	bbcwb	bbc
Chester (Sealand)	cbbcm.	bccbm.	bm.w	bwam.
Manchester ...	bm.cz.	cz.m	bm.	bmar.r.
Spurn Head ...	cpre	cpr.c	cprbc	bcpr.
Catterick ...	cwbbcc	cbcc	cbcor.	or.r.d.d.
Tynemouth ...	bcc	cp.	cp.or.r.	oir
St. Abbs Head ...	c	m.b	cmid	rrfc
Leuchars ...	bbcx b	bbc bx	bxcid.	cid.cr.
Renfrew (Abbotsl.)	bm.mff	ff FF x	FFffx	oFFx
Eskdalemuir ...	bxbc	bcbybc	bcpr.bcb	bccx
Point of Ayre ...	b	b	bxb	bbcx
Tiree	bc	bc	bc	bcc
Stornoway ...	bcc	cd.d.	c	c
Dalwhinnie ...	bbc	bcc	.	cir
Aberdeen ...	pr.bc	bccid	m.cid.	cid.bc
Wick ...	c	id.o c	cid.	id.c
Lerwick ...	cpr.	c	c	omc
Blacksod Point	bbc	bc	bc	prbc
Malin Head ...	c	cbc	cbcbbc	c
Aldergrove ...	oFFe	oFeFe	oFFe	oFFebmx
Birr Castle ...	oid. ff	off	off	offo
Valentia Obsy. †	bxb	b	bbx	bx
Roches Point	bcb	bcbw	bwx	bx

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 18, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s./k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r., slight rain.
rr, continuous rain.
, less than (for cloud height).
⊕, Solar halo. ☽, lunar halo. ⸗ gale.
With present weather is combined, whenever possible, the general character of the weather.
A "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 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins deep.

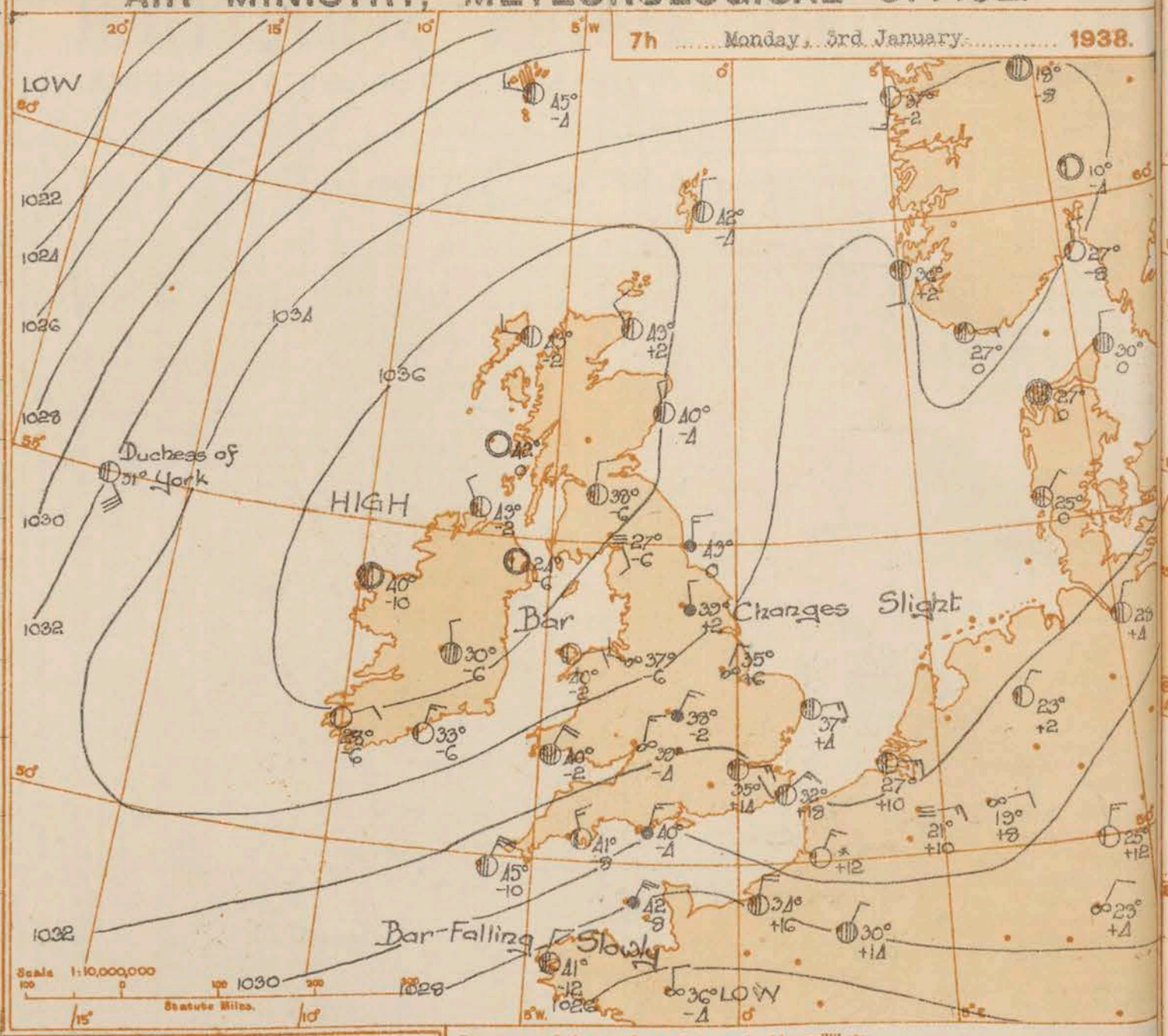
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

† See disturbance reported past Dungeness.

REPORTS from HEALTH RESORTS for 2nd January 1937.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature (°F.) Min. 9h. 1st to 8h. 2nd	Temperature (°F.) Max. 9h.—17h. 2nd	Rainfall (mm.) Night. 17h. 1st to 9h. 2nd	Rainfall (mm.) Day. 9h.—17h. 2nd	Sunshine/hr. Sunrise to Sunset 2nd.
1	Tunbridge W.	c	or	38	43	0·3	0·5	0·7
	Bournemouth	ebcb	cbbc	37	45	–	–	1·5
	Ventnor ...	ocz	bbcoz	37	45	–	–	1·9
	Southsea ...	bcc	bccr.	39	45	Trace	Trace	1·1
	Bognor Regis	cbc	cbcor	38	45	–	Trace	1·1
	Littlehampton	cbc	bcc	38	45	–	–	1·3
	Worthing ...	cbc	bbccr.	39	45	0·5	Trace	2·2
	Brighton ...	cbc	cbdc	39	46	Trace	Trace	2·4
	Eastbourne† ...	cb	bor.	40	46	0·3	Trace	2·2
	Hastings† ...	cbcb	bcbcc	39	45	0·3	–	2·1
	Folkestone ..	cbc	bbcc	29	44	2	–	1·1
	Dover ...	cbc	bccp	39	45	3	Trace	1·2
	Deal	coc	c	39		2	–	0·7
	Ramsgate ...	cbcc	bcc	40	43	1	–	1·0
	Margate ...	c.	bcc	39	43	1	–	0·9
2	Southend ...	c	cor	39	45	0·5	1	0·9
	Clacton-on-Sea	cbc	bcpc	38	46	–	Trace	1·1
	Dovercourt ...	bc	bcc	38	45	–	–	0·5
	Lowestoft ...	cbcc	crhbc	37	44	1	0·2	0·1
	Skegness ...	cpoc	cphrc	39	45	Trace	2	0·0
	Mablethorpe...	bccpc	bcorc	40	45	0·3	3	0·8
	Cleethorpes ...	cr	bcc	40	44	1	1	0·6
3	Leamington S.	oco	om	38	44	–	–	0·1
4	Cheltenham†	mooc	comir	36	42	–	0·3	0·0
5	Bath	c	bcbpo	38	44	–	Trace	1·5
	Weymouth ...	cbc	cbc	39	44	–	–	1·5
	Jersey ...	cpc	rcbc	43	44	–	0·1	0·1
	Torquay ...	czo	cbmo	37	44	–	–	0·0
	Falmouth	c	c	37	45	–	–	0·0
	Penzance ...	c	c	41	46	0·3	–	0·0
	St. Ives ...	o	o	35	41	–	–	0·0
	Bude... ...	c	c	39	45	–	–	0·0
	Ilfracombe ...	odroc	ocbc	40	45	Trace	–	1·1
6	Aberystwyth	zobc	bc	38	44	–	–	5·0
7	Llandudno ...	bc	bcb	36	46	–	–	4·0
	Colwyn Bay...	bcb	bcb	37	45	–	–	5·2
	Rhyl	bcb	bbccm	38	45	–	–	4·2
8	Wallasey ...	bc	bc	35	43	–	–	3·0
	Southport ...	cb	cbbcb	35	44	–	–	3·1
	Blackpool ...	bbcm	cbcbm	37	45	–	–	3·0
	Morecambe ...	bbcc	bccbc	35	44	–	–	3·6
9	Ilkley... ...	bcc	c	39	44	0·2	–	0·1
	Harrogate ...	bcc	bcc	38	44	0·3	–	1·6
10	Berwick-on-T.	cbc	bcroc	36	44	–	Trace	0·5
11	Dunbar ...	cmox	cmo	36	40	–	–	0·1
12	Troon... ...	xbrbc	brbcr	25	39	–	–	4·4
	Douglas ...	bcx	b	36	47	–	–	6·4

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
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. 3rd January, 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light or moderate northeast winds; cloudy and bright periods, local wintry showers; local fog at night; cold with frost at night.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Light or moderate northeast winds; cloudy or dull with drizzle and sleet or snow on high ground; local fog at night; rather cold.
10 N.E. England	As 1 - 3.
11 S.E. Scotland	As 4 -9.
12 S.W. Scotland & Isle of Man. 13 {A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland	Light variable winds; mainly fair; local fog at night; cold, sharp frost at night.
16 Orkney and Shetland	Light westerly winds; mainly fair; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 12 - 15.

GENERAL INFERENCE.

An anticyclone over Ireland and Scotland will spread northeast and a feeble low pressure trough over England will move slowly west. There will be drizzle, sleet or snow in Western England and Wales and wintry showers in the East. It will become cold.

FURTHER OUTLOOK.

Continuing cold in the South.

Forecasts issued at 1000 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S.
Director.

H.M. Stationery Office Press, Kingsway W.C.2
B.320/3398 W.6020 D. [illegible] 348. 25m. 6/39

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

Hours of observation :- Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

MONDAY, 3RD JANUARY.

1938.

Clarke's Projection Scale 1: 4x10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :-

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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 3rd January, 1958.
No. 27801.

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)	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	1029·9	-6	N	3	Z_o	41	92	6	5	-	-	9+	9+	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1028·4	-4	~~NNE~~ NNW	5	c/pr	37	92	7	5	-	-	10	10	800
	Manston ...	142	1029·3	+8	ENE	4	c	37	86	6	5	-	-	10	10	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1031·5	+20	NE'E	4	c	37	75	7	8	-	-	7-8	7-8	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1030·6	-6	NNE	3	bc	40	86	6	4	-	-	4-6	4-6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1032·1	-2	N'E	3	b	38	85	8	-	-	-	0	0	-
	Scilly (St. Mary's)	163	1032·8	-2	NE'N	4	bc	43	85	7	5	-	-	4-6	4-6	2500
	Guernsey ..	175	1029·4	-10	NNE	4	bc	44	65	6	8	-	-	4-6	4-6	2500
6	Pembroke ...	142	1033·7	-2	NE	4	q	40	92	7	5	-	-	Tr	Tr	4000
7	Holyhead ...	26	1035·2	-4	-	0	b	41	92	7	1	-	-	Tr	Tr	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1032·5	+4	NE'E	4	bc	40	85	8	8	-	-	4-6	4-6	4000
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1034·5	0	N	3	rr_o	43	85	6	6	-	-	10	10	1500
11	St Abb's Head ..	280	1036·1	0	NNW	3	id$_o$	39	92	4	8	2	-	7-8	10	800
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1035·9	0	NNE	2	b	40	92	7	-	-	-	0	0	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1037·3	+4	W	1	c	43	97	6	5	2	-	4-6	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1036·2	+2	NW	2	id$_o$	42	97	7	5	1	-	7-8	9	800
16	Lerwick ...	156	1035·6	+4	NW	2	c	41	92	8	5	2	-	7-8	10	1500
17	Blacksod Point	18	1037·7	0	-	0	b	36	92	8	2	-	-	1	1	1500
18	Malin Head ...	84	1037·1	+20	NE	2	bc	45	97	7	4	-	-	4-6	4-6	2500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1036·4	0	E	1	b	37	97	8	-	-	-	0	0	-
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 3rd 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)	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)
1032·4	+10	ENE	3	c	36	75	7	5	-	-	9	9	1500	1	*
1031·8	+14	ENE	3	c	36	75	7	5	-	-	10	10	2500	1	*
1031·9	+10	E'N	3	Z_o	36	85	5	5	-	-	9+	9+	2500	1	*
1031·6	+6	NE'E	3	c	35	85	8	5	-	-	9+	9+	1500	1	*
1030·4	+6	NE'E	4	c	39	85	8	8	-	-	9+	9+	2500	1	2
1032·0	+18	NE'E	3	c	32	75	8	8	-	-	9+	9+	2500	3	3
1031·9	+12	ENE	5	c	33	65	8	5	-	-	9	9	2500	1	*
1032·0	+12	E	4	bc	35	75	7	5	-	-	4-6	4-6	2500	1	*
1032·5	+10	NE'E	4	c	36	65	7	5	-	-	10	10	2500	1	3
1033·1	+4	ENE	3	c	37	75	7	8	-	-	10	10	2500	1	3
1033·0	+12	E	2	Z_o	34	92	6	5	-	-	9+	9+	4000	1	*
1033·5	+6	NE'E	1	Z_o	35	97	6	8	-	-	9+	9+	1500	1	*
1033·3	-2	NE	2	id$_o$	38	92	6	6	-	-	10	10	800	1	*
1033·0	+6	NNE	3	bc/s	33	97	6	5	-	-	4-6	4-6	1500	1	*
1032·3	-4	N'E	3	Z_o	39	85	5	5	-	-	9+	9+	1500	1	*
1032·1	-2	N	2	Z_o	38	97	5	5	-	-	10	10	1500	1	*
1029·8	-4	NNE	3	$d_o d_o$	40	92	7	5	-	-	10	10	1500	1	3
1030·4	-8	N'W	3	bc	41	85	7	5	-	-	4-6	4-6	2500	1	1
1031·1	-4	N'E	3	bc	37	85	8	4	-	-	2-3	2-3	2500	1	2
1031·1	-10	NE	5	c	45	75	8	8	-	-	7-8	7-8	1500	1	3
1027·9	-8	NE'N	5	pr$_o$	42	85	7	8	-	-	10	10	1500	1	3
1033·0	-2	NE	4	q	40	92	8	5	2	-	7-8	9+	2500	1	3
1034·8	-2	ENE	2	bc	40	85	7	-	3	5	0	2-3	-	0	1
1034·5	-6	WNW	2	Z_o	37	92	6	5	-	-	9+	9+	2500	1	*
1034·3	0	N	2	c/r	38	97	6	5	-	-	10	10	1500	1	*
1033·1	+2	E'S	3	bc	40	85	8	8	1	-	2-3	4-6	2500	1	3
1034·8	+2	N	1	id$_o$	39	97	5	5	-	-	10	10	1500	1	*
1034·6	0	N	3	ir$_o$	43	92	7	6	-	-	10	10	800	1	2
1035·4	0	WNW	3	f	39	97	2	-	-	-	10	10	2150	1	2
1036·6	-2	WSW	1	c/d	35	97	7	5	2	-	9	10	1500	1	*
1037·1	-6	SSE	1	F	27	97	1	-	-	-	10	10	2150	3	*
1035·6	-6	N	2	c	38	85	7	5	-	-	9+	9+	1500	3	*
1035·5	-4	NE	4	bc	41	85	8	4	4	-	2-3	2-3	4000	1	3
1037·1	0	-	0	c	42	92	9	5	-	-	9+	9+	4000	0	2
1037·4	-2	W	2	c	43	92	7	5	2	-	7-8	10	1500	1	1
*	0	-	0	c	34	97	7	5	1	-	4-6	9	2500	1	*
1035·8	-4	NNW	1	bc	40	97	7	5	-	-	4-6	4-6	1500	1	1
1036·5	+2	NW	2	c/d	43	97	7	5	1	-	4-6	7-8	800	1	1
1035·2	-4	N	2	c	42	97	7	5	7	-	4-6	7-8	1500	1	*
1036·9	-10	-	0	c	40	92	7	5	-	-	7-8	7-8	800	0	2
1036·4	-2	NW	1	c	43	97	7	8	-	-	9	9	1500	0	2
1037·4	-6	-	0	m	24	97	4	-	-	-	0	0	-	3	*
1036·5	-6	NNW	1	o	30	97	7	5	-	-	10	10	1500	1	*
1035·9	-6	NE'E	2	b	28	85	8	-	-	-	0	0	-	3	1
1035·6	-6	N'E	3	b	33	97	8	5	-	-	1	1	4000	3	2

PAST 24 HOURS.

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 2nd Hrs. (36)
45	36	33	1	1	0·2
44	35	33	0·4	1	0·0
45	36	31	0·6	1	0·5
43	35	33	-	0·4	1·0
44	39	37	-	-	0·7
43	30	27	Tr	0·3	2·3
43	32	30	0·6	0·3	1·0
47	34	31	0·2	0·1	0·8
45	35	32	Tr	Tr	0·3
45	36	34	0·3	0·1	0·3
44	34	31	4	0·3	0·2
42	34	30	0·8	1	0·3
43	36	32	-	Tr	1·2
43	33	31	Tr	1	*
44	36	31	-	-	0·6
43	36	30	Tr	Tr	0·8
44	39	*	-	Tr	*
45	35	35	-	-	0·0
45	36	*	-	-	0·0
46	42	*	Tr	-	0·0
46	41	38	1	1	0·0
47	37	*	-	-	2·4
47	39	27	-	-	3·6
44	34	31	-	-	2·8
45	30	24	-	0·6	0·6
45	39	*	0·1	0·6	1·0
43	38	35	-	3	0·5
44	41	38	0·1	8	0·1
45	38	*	Tr	1	*
45	29	18	-	0·3	4·7
36	19	17	-	-	1·4
44	32	28	-	Tr	3·7
44	38	*	-	-	5·7
47	38	32	-	-	2·5
44	42	*	0·2	-	0·0
40	32	23	-	0·3	2·2
43	33	27	0·1	0·6	4·0
44	40	*	0·3	1	*
45	40	*	Tr	-	0·0
45	32	*	-	0·2	*
47	41	*	Tr	-	0·4
38	24	19	0·2	0·1	0·0
45	34	30	*	Tr	-	0·0
45	27	22	Tr	Tr	6·3
41	31	*	Tr	Tr	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning.	Weather Afternoon.	Weather Night.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
Kew	18	cpr$_o$	r$_o$r$_o$cm$_o$	cir$_o$mi$_o$c	45	36	33	1	1	0·2	*	*	4
Croydon	217	cm$_o$mfm	mr$_o$c$_o$fir$_o$	ir$_o$cmid$_o$	44	35	33	0·4	1	0·0	*	*	5
Greenwich (Royal Observatory)...	149	cm$_o$	cir$_o$m$_o$	circm$_o$	44	34	29	0·5	1	0·0	89	78	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	45	36	31			0·0	67	83	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	44	33	30	1	1	0·0	91	79	*
Camden Square	110	c	ccr	*	44	33	28	2	0·5	*	*	85	*
Kensington	80	co	cor	*	44	34	28	1	1	0·1	At 18h. 83	90	*
Hampstead Observatory	450	cbc	or	orxbc	42	40	28	2	1	0·3	*	90	*

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.
Paris	1029·0	NNE	2	0	32	1027·1	NE	1	0	30
Brussels	1026·9	WSW	2	s$_o$s$_o$	30	1031·3	ENE	3	m	21
Berlin	1027·5	E	1	bc	19	1029·2	NW	2	c/s	23
Zurich	1026·0	NE	1	bc	21	1024·7	NE	3	0	21
Rome	1015·1	NE	3	bc	36	1014·9	NE	3	bc	28

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·5	11-13h 2n	0·3	1-3h. 3rd

Kew Observatory. Max.	Time.	Min.	Time.
0·2	12h 2n	0·1	0-6h. 3rd.

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
36	30	-	1
30	21	0·1	*
*	0·6	*	1·6
32	19	Tr	0·5
*	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	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. GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

† hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § See disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 4th January 1938.
No. 27802.

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. 0–12 Force (4)	Weather. (5)	°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)	1033·3	−2	NE'E	2	$s_o s_o$	36	75	4	5	–	–	10	10	1500
	Croydon ...	1033·2	−2	E'S	2	is_o	33	85	5	5	–	–	10	10	2500
	S. Farnborough	1033·5	−2	NNE	3	c/s	35	75	6	5	–	–	9+	9+	4000
	Boscombe Down	1033·5	−2	E'N	2	c	36	65	8	5	–	–	10	10	4000
	Calshot (Sthmtn.)	1033·2	+2	NE	4	c	36	75	7	8	3	–	4·6	10	2500
	Lympne ...	1033·2	−2	ENE	3	bc	33	65	8	7	–	–	4·6	4·6	2500
	Manston ...	1033·6	+2	ENE	4	c	33	75	8	5	–	–	7·8	7·8	2500
2	Shoeburyness ...	1034·5	+12	E	4	is_o	34	75	8	5	2	–	7·8	9+	2500
	Felixstowe ...	1034·0	+2	E'N	3	sh	34	85	6	5	–	–	10	10	1500
	Gorleston ...	1034·5	+4	S	2	phr_o	35	85	7	8	–	–	10	10	2500
	Mildenhall ...	1033·9	−4	NNW	2	c	36	85	7	5	–	–	9+	9+	4000
	Cranwell ...	1034·8	−2	WNW	1	c/r	36	97	7	5	–	–	10	10	1500
3	Birmingham ...	1034·1	+2	–	0	0	36	85	5	5	–	–	10	10	1500
4	Upper Heyford	1034·4	−2	NNE	2	z_o	35	85	6	5	–	–	9+	9+	4000
	Ross-on-Wye	1034·1	−4	NE	3	c	38	75	7	6	–	–	10	10	2500
5	Bristol ...	1034·1	+2	E'N	3	bc	37	65	7	7	3	–	4·6	4·6	4000
	Portland Bill ...	1032·2	+6	ENE	5	c	37	85	7	4	4	–	7·8	9	2500
	Plymouth ...	1032·0	+14	NE	3	c	39	75	8	5	–	–	9	9	2500
	The Lizard ...	1030·2	0	NE'E	6	c	42	75	7	8	6	–	7·8	9	1500
	Scilly (St.Mary's)	1030·3	−4	NE'E	6	c	44	65	8	2	8	–	4·6	7·8	1500
	Guernsey ...	1029·4	+4	NE	5	c	38	55	9	8	–	–	9+	9+	2500
6	Pembroke ...	1033·5	0	E	4	q	43	65	8	7	7	–	2·3	2·3	4000
7	Holyhead ...	1034·9	−6	NE'E	3	c	44	75	8	8	4	–	4·6	7·8	2500
	Chester(Sealand)	1035·1	−2	WNW	2	cf	41	85	3	5	–	–	9	9	4000
8	Manchester ...	1035·0	−2	NE	1	jp	42	85	4	8	–	–	10	10	1500
10	Spurn Head ...	1034·6	0	–	0	c	40	85	8	5	–	–	9+	9+	2500
	Catterick ...	1035·0	−4	NW	1	c/r	41	92	6	8	3	–	7·8	9	4000
	Tynemouth ...	1034·5	−6	N	2	bc	42	92	8	2	6	–	4·6	4·6	1500
11	St Abbs Head ...	1035·8	−10	WNW	2	dF	40	97	1	–	–	–	10	10	<150
12	Leuchars ...	1036·7	−6	W	1	c	41	92	6	5	2	–	7·8	10	800
	Renfrew (Abbotsl.)	1037·3	−2	–	0	cf	33	92	2	5	3	–	9	9+	2500
	Eskdalemuir ...	1035·8	−2	NNE	2	id_o	41	92	7	–	2	–	9+	9+	800
	Point of Ayre...	1035·9	0	ENE	3	bc	44	85	7	5	4	–	1	2·3	800
13A	Tiree	1037·2	−2	NNE	1	c	46	75	9	5	–	–	9	9	2500
13B	Stornoway ...	1037·5	−4	W	1	c	41	92	8	5	3	9	2·3	9+	4000
15	Dalwhinnie ...	1037·9	−6	N	1	c	39	92	7	5	–	–	10	10	1500
	Aberdeen ...	1036·1	−6	N'W	2	c	43	97	7	5	–	–	9+	9+	1500
	Wick ...	1036·8	−4	WNW	3	c/d	44	97	7	5	1	–	7·8	9+	800
16	Lerwick ...	1034·7	−6	W	2	c	45	92	8	8	7	–	7·8	10	1500
17	Blacksod Point	1036·8	−8	–	0	c	43	85	8	5	–	–	10	10	1500
18	Malin Head ...	1036·9	+2	NE	1	bc	44	97	8	4	–	1	2·3	4·6	2500
	Aldergrove ...	1037·5	−6	–	0	F	30	97	1	–	–	–	10	10	<150
19	Birr Castle ...	1036·6	−2	NNW	1	o	32	97	7	5	–	–	10	10	2500
20	Valentia Obsy.†	1035·1	−10	E'N	4	b	42	75	9	1	–	1	Tr	Tr	2500
	Roches Point	1036·1	−4	N'E	3	bc	40	92	8	5	–	1	2·3	4·6	2500

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. 0–12 Force (18)	Weather. (19)	°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)	1033·9	+4	NE	2	is_o	35	85	5	5	–	–	10	10	1500	1	*
	Croydon ...	1033·8	+4	E'N	2	is_o	32	92	4	5	–	–	10	10	4000	1	*
	S. Farnborough	1033·9	+2	ENE	1	m	33	85	4	5	–	–	10	10	1500	1	*
	Boscombe Down	1033·8	+2	NE'E	2	z_o	34	85	5	5	–	–	10	10	1500	1	*
	Calshot (Sthmtn.)	1033·3	+6	NE'N	2	c	35	75	7	5	7	–	7·8	10	2500	1	2
	Lympne ...	1033·8	+2	NE	2	c	31	75	7	5	–	–	9+	9+	2500	1	§ 2
	Manston ...	1033·5	+2	E'N	3	c/s	33	75	8	5	–	–	10	10	4000	1	*
2	Shoeburyness ...	1033·9	+2	N	1	c/s	33	92	7	6	2	–	9	10	1500	1	*
	Felixstowe ...	1033·9	0	NNW	1	z_o	32	97	5	5	–	–	10	10	2500	1	2
	Gorleston ...	1033·7	0	W'S	1	o	34	92	6	6	–	–	10	10	1500	1	*
	Mildenhall ...	1033·8	0	–	0	z_o	34	97	6	5	–	–	10	10	800	1	*
	Cranwell ...	1034·3	−2	N'W	2	z_o	37	92	6	5	–	–	7·8	10	2500	1	*
3	Birmingham ...	1033·7	0	NNE	2	o	37	85	5	5	–	–	10	10	1500	1	*
4	Upper Heyford	1034·1	+2	N	2	z_o	34	92	6	5	–	–	4·6	10	4000	1	*
	Ross-on-Wye	1033·9	0	NNW	2	c	36	75	7	5	–	–	10	10	2500	1	*
5	Bristol ...	1034·1	+2	ENE	1	z_o	36	75	5	5	–	–	10	10	2500	1	*
	Portland Bill ...	1032·3	+4	NE	4	c	37	85	7	4	–	–	10	10	2500	1	3
	Plymouth ...	1032·5	0	NE'N	3	c	37	55	7	5	–	–	9+	9+	4000	1	1
	The Lizard ...	1031·5	+4	NE'E	5	c	39	65	8	8	2	–	9	10	1500	1	4
	Scilly (St.Mary's)	1031·5	+2	NE	5	c	40	75	8	4	4	–	4·6	7·8	1500	1	4
	Guernsey ...	1030·4	+6	NE'E	5	bc	36	55	7	8	–	–	4·6	4·6	2500	1	4
6	Pembroke ...	1034·3	+4	E'S	2	c	39	75	7	5	2	–	7·8	10	2500	1	2
7	Holyhead ...	1034·9	0	ENE	2	c	43	85	8	7	–	–	10	10	2500	0	1
	Chester(Sealand)	1035·1	0	NNW	1	cf	39	92	3	5	–	–	10	10	2500	1	*
8	Manchester ...	1034·8	−2	NNE	1	m	38	85	4	5	–	–	9	9	2500	1	*
10	Spurn Head ...	1034·3	0	E	3	r	38	92	8	5	–	–	10	10	1500	1	1
	Catterick ...	1034·6	−4	NW'N	1	z_o	40	92	6	5	–	–	9+	9+	1500	1	*
	Tynemouth ...	1034·4	−2	N	2	bc/pr	42	97	6	2	–	–	4·6	4·6	1500	1	2
11	St Abbs Head ...	1035·1	0	WNW	2	rf	41	97	3	–	–	–	10	10	<150	1	1
12	Leuchars ...	1036·1	−4	W	1	z_o	39	97	6	5	–	–	9+	9+	2500	1	*
	Renfrew (Abbotsl.)	1036·9	−2	–	0	cf	35	97	2	5	–	–	10	10	4000	1	*
	Eskdalemuir ...	1035·6	−2	NNE	3	o	40	92	6	5	–	–	10	10	450	1	*
	Point of Ayre...	1035·6	0	NE'E	3	bc	42	92	7	5	4	–	2·3	4·6	800	0	2
13A	Tiree	1036·9	0	–	0	bc	43	92	9	5	–	–	4·6	4·6	2500	0	1
13B	Stornoway ...	1037·1	−2	W	1	c	40	97	7	5	7	–	7·8	10	4000	1	0
15	Dalwhinnie ...	*	0	N	1	c	37	97	7	5	–	–	10	10	2500	1	*
	Aberdeen ...	1035·6	−4	NW	3	id_o	42	97	6	5	8	–	7·8	9	800	1	1
	Wick ...	1036·3	0	WNW	3	c	43	97	8	5	2	–	7·8	10	1500	1	1
16	Lerwick ...	1034·1	−2	NW	2	c/pr	42	92	8	8	7	–	4·6	7·8	800	1	*
17	Blacksod Point	1036·6	0	E	2	c	43	85	8	5	–	–	10	10	1500	0	2
18	Malin Head ...	1036·9	0	S	1	bc	36	97	8	4	–	–	2·3	2·3	2500	0	2
	Aldergrove ...	1037·1	−2	–	0	m	34	97	4	5	–	–	10	10	2500	1	*
19	Birr Castle ...	1036·2	+2	NNW	1	of	33	97	3	5	–	–	10	10	2500	1	*
20	Valentia Obsy.†	1035·1	+4	–	0	b	36	85	8	–	–	–	0	0	–	1	2
	Roches Point	1034·9	−2	NE	3	b	36	97	8	–	–	–	0	0	–	1	2

PAST 24 HOURS.

Stations.	Weather. 7h.–13h. (37)	Weather. 13h.–18h. (38)	Weather. 18h. 3rd ... to 1h. 4th (39)	Weather. 1h.–7h. 4th. (40)
London (Kew)	$cs_o m$	cmgis$_o$	$cs_o cm$	cm_o
Croydon ...	$gcm_o is_o$	$css_o is_m c$	$cis_o cmcf$	$afcm$
S. Farnborough	$fmis_o c$	$cis_o m_o$	$ois_o m_o o$	om_o
Boscombe Down	$cbcc$	cm_o	cm_o	cm_o
Calshot (Sthmtn.)	$cbcc$	c	c	c
Lympne ...	$cis_o bc$	bcc	$cis_o cm_o$	$om_o s_o cm_o$
Manston ...	cis_o	$cis_o c$	$cis_o cx$	cxc
Shoeburyness ...	$bccis_o$	$s_o s_o is_o cc$		c
Felixstowe ...	$cpr_o cshsh$	$cshis_o cm$	cm_o	cm_o
Gorleston ...	$cph_o r_o$	$oph_o s_o$	$ocbcm_o$	$coid_o$
Mildenhall ...	$cm_o c$	$dr_o s_o cm$	$cm_o om_o m_o mffeF$	
Cranwell ...	$fPSprs_o$	ccm_o	$m_o ird_o d_o$	$od_o d_o fd_o d_o$
Birmingham ...	$rs_o o$	o	o	om
Upper Heyford	bcc	$cz_o m_o$	cm_o	$cm_o cm$
Ross-on-Wye	c	c	om_o	$omid_o$
Bristol ...	$r_o r_o bc$	$bccm_o$	cm_o	$cm_o d_o$
Portland Bill ...	$cd_o c$	c	c	ccz_o
Plymouth ...	$bccz_o bcc$	cy	$cbcc$	c
The Lizard ...	$bccq$	oz	cq	cx
Scilly (St.Mary's)	$phr_o p_o c$	$cbcc$	$cbcc$	$cbccy$
Guernsey ...	$cpr_o c$	cbc	bcc	c
Pembroke ...	$cbcq$	$bcqc$	c	c
Holyhead ...	$bc_o c$	c	c	c
Chester(Sealand)	$cm_o cff$	$cffq$	$cffm$	$cmr_o m_o$
Manchester ...	$cm_o pr_o m$	$cpr_o fm$	$cmpr_o$	$cmam_o$
Spurn Head ...	bcc	$cpro$	$pr_o o$	$afdm$
Catterick ...	$oid_o m_o r_o o$	$cm_o prc$	$prom d_o$	$idm_o o_o$
Tynemouth ...	$ocir_o c$	$cp_o c$	$bcoid$	$oidoir$
St Abbs Head ...	FFd	$ffrr$	$ffiro$	$pr_o c$
Leuchars ...	$omddcm_o$	cm_o	$cm_o cbcc$	c
Renfrew (Abbotsl.)	$FFffc$	cff	cff	$ffm_o c$
Eskdalemuir ...	$d_o d_o id_o$	$d_o d_o cm_o$	$d_o d_o om_o$	cm_o
Point of Ayre...	bc	$bcbc$	bcc	c
Tiree	c	c	bcc	cir_o
Stornoway ...	c	c	c	cpr_o
Dalwhinnie ...	$cmir_o o$	c	c	c
Aberdeen ...	$bccid_o$	$cidm_o$	$id_o pr_o$	$cpr_o b$
Wick ...	$m_o id_o$	c	$id_o m_o$	c
Lerwick ...	cid_o	cpr	cpr_o	c
Blacksod Point	bc	c	bc	bc
Malin Head ...	cbc	bc	bcc	c
Aldergrove ...	$bmwFF_o FFx$	$oFFmc$	$cmcm_o$	c
Birr Castle ...	o	$pcoff$	off	off
Valentia Obsy.†	$bbcxb$	b	bbx	$bxbcc$
Roches Point	$bxbc$	$bcbw$	bwx	$bwcw$

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 . . Ground dry.
1 . . „ wet.
2 . . „ flooded.
3 . . „ frozen hard and dry.
4 . . „ partly covered with snow or hail.
5 . . „ covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . „ covered with snow, less than 6 ins., deep but ground not frozen.
8 . . „ covered with snow, less than 6 ins., but ground frozen.
9 . . „ covered with snow greater than 6 ins. deep.

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

† Sea disturbance reported from Dungeness.

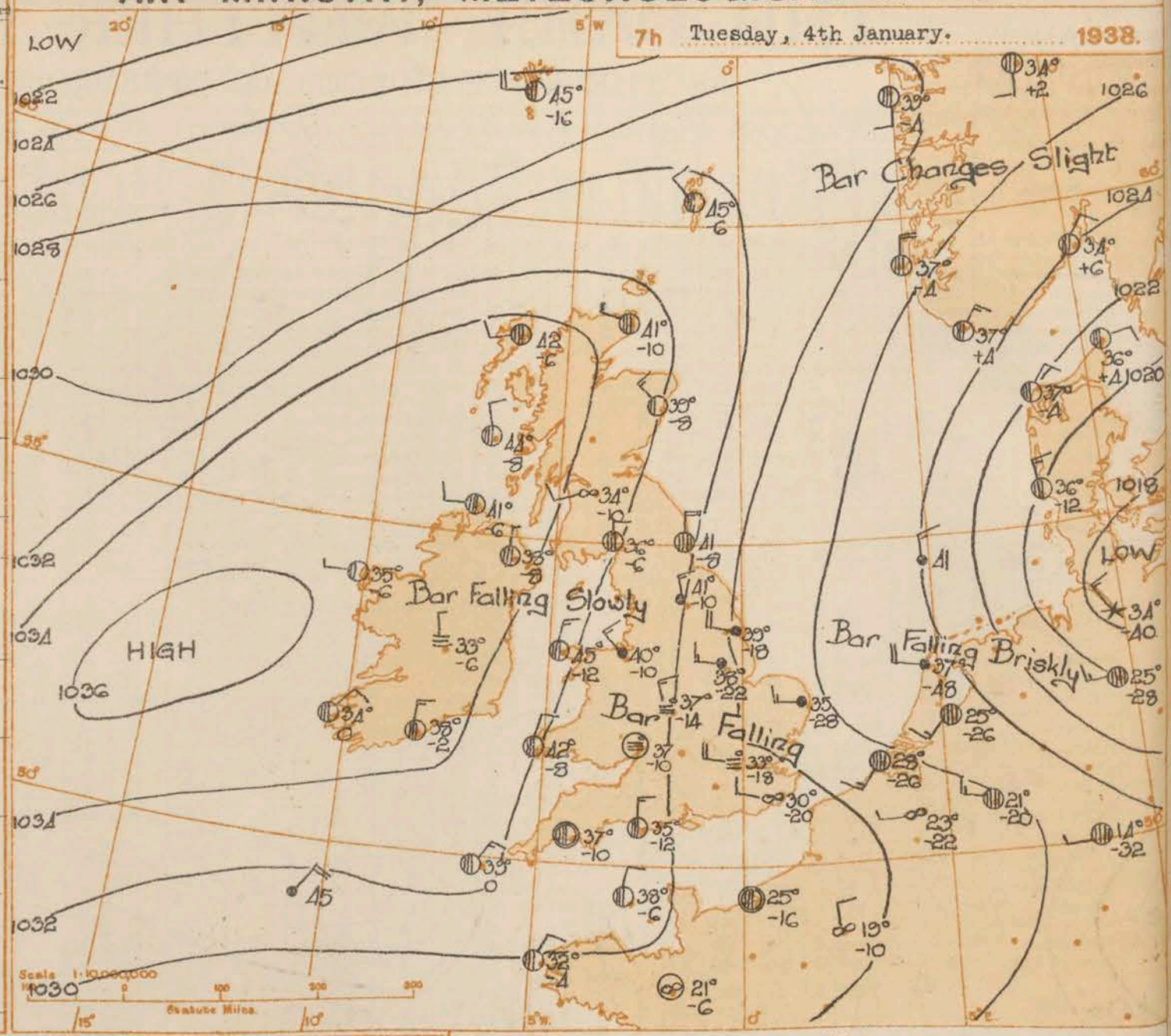
REPORTS from HEALTH RESORTS for 3rd January 1938.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature (°F.) Min. 9h. 2nd to 9h. 3rd	Temperature (°F.) Max. 9h.—17h. 3rd.	Rainfall (mm.) Night. 17h. 2nd to 9h. 3rd	Rainfall (mm.) Day. 9h.—17h. 3rd.	Sunshine (hrs) Sunrise to Sunset. 3rd.
1	Tunbridge W.	ops$_0$	ops$_0$	31	33	0·3	Trace	0·0
	Bournemouth	b	bbcc	35	37	0·5	-	3·4
	Ventnor ...	pc	coc	34	36	0·5	-	0·4
	Southsea ...	bbcc	co	34	37	-	-	1·0
	Bognor Regis	c	cbc	32	36	0·3	-	0·4
	Littlehampton	c	c	32	36	0·3	-	0·6
	Worthing ...	c	cbcc	32	36	0·5	-	1·2
	Brighton ...	c	cbc	32	40	0·3	-	1·8
	Eastbourne† ...	c	cbcc	34	42	0·1	-	3·0
	Hastings† ...	bc	bcc	32	41	-	-	2·7
	Folkestone ..	ch$_0$c	cbcco	32	35	0·3	Trace	2·8
	Dover ...	cs$_0$bc	bcc	33	37	0·5	Trace	2·1
	Deal	coc	cbbc	33	35	0·5	-	2·5
	Ramsgate ...	bc	bcc	34	36	Trace	-	1·6
	Margate ...	c	bcc	33	36	0·5	-	0·5
2	Southend ...	ocis$_0$	ois$_0$	34	35	0·3	Trace	0·0
	Clacton-on-Sea	cirs$_0$	oirs$_0$	35	36	Trace	Trace	0·0
	Dovercourt ...	bcc	s$_0$oc	35	36	-	-	0·0
	Lowestoft ...	cchsc	ciscm	34	36	-	2	0·0
	Skegness ...	co	oc	35	39	2	-	0·0
	Mablethorpe ...	bccprs	bcc	35	43	3	1	0·1
	Cleethorpes ...	cbc	cr$_0$c	38	40	0·5	Trace	0·6
3	Leamington S.	o	o	35	38	1	-	0·0
4	Cheltenham†	c	co	35	40	0·5	-	0·5
5	Bath	bcb	bbcc	34	39	0·3	-	3·2
	Weymouth ...	cb	c	37	44	-	-	2·5
	Jersey ...	cbc	cbc	39	40	0·3	-	4·5
	Torquay ...	oqc	coy	39	42	-	-	0·4
	Falmouth	bc	bc	36	42	-	-	2·8
	Penzance ...	cbc	bbcc	37	43	-	-	4·0
	St. Ives ...	c	c	34	40	-	-	0·0
	Bude... ...	cr$_0$bc	bc	37	40	Trace	-	3·5
	Ilfracombe ...	ocbcc	bccbc	38	43	-	-	4·7
6	Aberystwyth	xc	c	31	42	-	-	0·3
7	Llandudno ...	cbc	c	31	43	-	-	1·4
	Colwyn Bay...	cbcco	oc	34	42	-	-	0·1
	Rhyl	bccm$_0$	cm$_0$	27	42	-	-	0·0
8	Wallasey ...	bcc	c	32	41	-	-	0·0
	Southport ...	bccz	cmpc	33	41	-	Trace	0·5
	Blackpool ...	cmbcm	p$_0$cm	35	41	-	Trace	0·6
	Morecambe ...	cidc	mccdc	32	41	-	Trace	0·0
9	Ilkley... ...	bcc	cpbc	37	41	2	0·4	0·0
	Harrogate ...	bccp$_0$	bccp$_0$	36	39	1	0·1	0·0
10	Berwick-on-T.	cod$_0$	d$_0$c	39	43	2	0·2	0·5
11	Dunbar ...	fr$_0$	fr$_0$	34	40	Trace	2	0·0
12	Troon... ...	xbfc	cocfc	28	41	-	-	0·1
	Douglas ...	bx	bc	36	44	-	-	5·7

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Tuesday, 4th January. 1938.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 4th January, 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light to moderate northerly winds; cloudy to dull, occasional slight rain or sleet; becoming less cold.
5 S.W. England 6 South Wales ... 7 North Wales ...	Light to moderate northerly winds; mainly fair; rather cold.
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 Orkney and Shetland	Light to moderate variable or northwesterly winds; fair apart from slight occasional local rain; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light variable winds; mainly fair; local morning fog and frost; rather cold.

GENERAL INFERENCE.

An anticyclone remains centred to the west of the British Isles and a depression over Germany is moving southwestwards. In the East and Southeast weather will be cloudy to dull with occasional slight rain or sleet while in the North and West it will be mainly fair.

FURTHER OUTLOOK.

No important change.

Forecasts issued at 1030 G.M.T.

GEORGE C. SIMPSON, K.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.

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

TUESDAY, 4TH JANUARY.

1938.

LOW HIGH LOW HIGH LOW HIGH LOW HIGH LOW HIGH LOW HIGH LOW HIGH LOW

Mercator's Projection Scale 1: 4 x 10⁷ along meridian at 55° N.

Statute Miles. 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere ; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 4th January, 1938.
No. 27802.

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)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Cloud. Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1032·1	-10	WNW	2	cf	33	92	3	5	-	-	10	10	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1032·5	-6	W'N	1	is$_o$	29	85	5	5	-	-	10	10	1500
	Manston ...	142	1031·6	-8	W	1	c	31	85	7	5	-	-	10	10	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1031·1	-14	W	2	bc	33	92	5	5	-	-	4-6	4-6	1500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1032·4	0	NE	3	c	33	92	7	4	-	-	7-8	7-8	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1032·2	+2	NE	5	c	38	65	8	5	-	-	10	10	2500
	Scilly (St. Mary's)	163	1032·3	+4	NE'N	5	c	39	65	7	5	-	-	9+	9+	2500
	Guernsey ...	175	1030·7	-2	ENE	3	c	37	65	7	8	-	-	9	9	2500
6	Pembroke ...	142	1034·4	0	NE'E	1	c	38	85	8	5	-	-	9+	9+	2500
7	Holyhead ...	26	1034·5	-2	NE'E	2	c	43	92	8	7	-	-	10	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1031·5	-12	WNW	3	0	38	97	6	5	-	-	10	10	1500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1032·7	-10	NNW	3	id	42	97	6	-	2	-	10	10	800
11	St Abbs Head	280	1033·4	-10	NW	3	c	40	97	6	5	2	-	7-8	10	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1034·9	-4	NE	3	c	44	85	8	5	-	-	10	10	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1035·5	-4	SW	2	c	42	85	7	5	2	-	4-6	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1034·4	-10	WNW	3	id$_o$	41	92	6	5	2	-	9	10	800
16	Lerwick ...	156	1032·5	-8	WNW	3	c	44	85	8	5	-	-	7-8	7-8	800
17	Blacksod Point	18	1036·6	0	E	1	bc	39	85	8	-	4	-	0	2-3	-
18	Malin Head ...	84	1036·5	0	SW	1	c	37	97	7	5	-	-	9+	9+	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1035·2	0	E	1	b	37	97	8	-	-	-	0	0	-
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 4th 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)	Cloud. Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1028·8	-20	NNW	2	z_o	35	92	5	5	-	-	10	10	1500	1	*
	Croydon ...	1028·9	-18	W'N	4	m	33	97	4	5	-	-	10	10	4000	1	*
	S. Farnborough	1029·1	-16	W	2	z_o	33	92	5	5	-	-	10	10	2500	1	*
	Boscombe Down	1030·4	-10	NW'N	1	z_o	33	92	5	5	-	-	10	10	2500	1	*
	Calshot (Sthmtn.)	1029·9	-14	W'N	2	c	34	97	7	5	-	-	9+	9+	2500	1	1
	Lympne ...	1028·3	-20	NNW	2	z_o	30	92	5	6	-	-	9+	9+	2500	3	§1
	Manston ...	1027·3	-24	NW	3	c	35	85	7	5	-	-	10	10	4000	1	*
2	Shoeburyness ...	1027·7	-20	WNW	3	c	34	92	7	5	-	-	9+	9+	2500	1	*
	Felixstowe ...	1027·6	-24	WNW	3	z_o	35	92	6	5	-	-	10	10	2500	1	2
	Gorleston ...	1026·5	-28	N	3	id$_o$	35	92	6	6	-	-	10	10	1500	1	2
	Mildenhall ...	1027·7	-18	NW'N	3	cf	36	97	3	5	-	-	10	10	220	1	*
	Cranwell ...	1028·4	-22	W'N	3	df	38	97	3	-	2	-	10	10	800	1	*
3	Birmingham ...	1030·3	-14	NNE	3	m	37	97	4	6	-	-	10	10	1500	1	*
	Upper Heyford	1029·9	-16	NW	1	cf+	34	97	3	5	-	-	10	10	1500	1	*
4	Ross-on-Wye	1030·6	-10	-	0	m	37	92	4	5	-	-	10	10	800	1	*
5	Bristol ...	1030·8	-18	N	1	c/d	35	97	5	5	-	-	10	10	1500	1	*
	Portland Bill ...	1030·2	-12	N	3	c	35	92	6	4	-	-	10	10	2500	1	3
	Plymouth ...	1031·7	-10	-	0	c	37	75	7	5	3	-	2-3	9	1500	1	1
	The Lizard ...	1031·9	-2	N	3	c	36	75	8	5	2	-	9	10	1500	3	2
	Scilly (St. Mary's)	1032·5	0	NE'E	3	c	39	65	8	5	-	-	10	10	2500	1	3
	Guernsey ...	1030·1	-6	NNE	2	c	38	55	7	8	-	-	9+	9+	2500	1	3
6	Pembroke ...	1032·1	-8	N'E	2	c	42	65	7	5	-	-	10	10	2500	1	2
7	Holyhead ...	1032·4	-12	N	3#4	c	45	85	8	5	3	-	4-6	9+	2500	0	2
	Chester (Sealand)	1031·7	-10	NW	3	ir$_o$	40	92	5	-	2	-	10	10	1500	1	*
8	Manchester ...	1030·8	-18	NNW	3	z_o	41	85	5	8	-	-	10	10	1500	1	*
10	Spurn Head ...	1027·4	-18	WNW	4	d$_o$d$_o$	39	97	4	5	-	-	10	10	1500	1	3
	Catterick ...	1030·3	-10	NNW	3	ir$_o$	41	85	6	5	-	-	10	10	1500	1	*
	Tynemouth ...	1030·2	-8	N	4	o/r	41	85	7	-	2	-	10	10	1500	1	2
11	St Abbs Head	1031·6	-12	WNW	4	bc	40	92	7	5	2	-	4-6	4-6	1500	1	2
	Leuchars ...	1032·8	-8	WSW	2	c	38	85	7	5	-	8	4-6	7-8	4000	1	*
12	Renfrew (Abbotsl.)	1033·9	-10	WSW	2	z_o	34	92	6	5	3	-	4-6	9+	4000	1	*
	Eskdalemuir ...	1032·6	-6	N	2	c	36	92	6	5	2	-	1	10	800	1	*
	Point of Ayre ...	1033·2	-10	N	4	c	44	75	8	5	-	-	9+	9+	1500	0	3
13A	Tiree	1034·1	-8	NNW	2	c/d	44	92	8	5	-	-	9+	9+	2500	1	2
13B	Stornoway ...	1034·1	-6	WSW	2	c	42	92	7	5	2	-	7-8	10	1500	1	1
15	Dalwhinnie ...	*	-10	-	0	c	35	97	7	5	-	-	10	10	2500	1	*
	Aberdeen ...	1032·0	-8	NW	3	bc	39	92	7	5	-	-	2-3	2-3	2500	1	1
	Wick ...	1032·7	-10	WNW	1	c	41	92	8	5	2	-	4-6	10	1500	1	1
16	Lerwick ...	1030·8	-6	NW	2	c	45	75	8	8	2	-	7-8	10	1500	1	*
17	Blacksod Point	1035·8	-6	W	1	bc	35	92	7	-	7	-	0	4-6	-	0	2
18	Malin Head ...	1034·7	-6	W	2	c	41	92	7	5	-	-	9	9	1500	0	2
	Aldergrove ...	1035·0	-8	N	1	c	38	92	7	5	-	-	10	10	2500	1	*
19	Birr Castle ...	1035·2	-6	NNW	1	cf	33	97	3	5	-	-	10	10	2500	1	*
20	Valentia Obsy. †	1035·1	0	NE'E	2	c	34	92	8	5	-	-	9+	9+	2500	3	1
	Roches Point	1034·7	-2	N	3	c	38	97	8	5	-	-	7-8	7-8	2500	1	2

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (31)	Temperature. Min. Night 18h–7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine Hrs. (36)
1	London (Kew)	36	33	31	Tr	Tr	0·0
	Croydon ...	35	32	31	Tr	Tr	0·0
	S. Farnborough	37	31	29	0·1	Tr	0·4
	Boscombe Down	36	30	29	-	-	2·9
	Calshot (Sthmtn.)	39	33	32	-	-	1·6
	Lympne ...	33	29	26	Tr	Tr	3·0
	Manston ...	35	30	30	Tr	Tr	0·4
2	Shoeburyness ...	36	31	29	0·1	-	0·0
	Felixstowe ...	36	31	30	0·1	-	0·0
	Gorleston ...	38	33	31	0·6	Tr	0·0
	Mildenhall ...	36	33	32	0·3	Tr	0·0
	Cranwell ...	38	35	33	0·6	0·2	0·5
3	Birmingham ...	38	35	34	0·4	-	0·0
	Upper Heyford	36	33	31	-	-	*
4	Ross-on-Wye	39	35	33	Tr	0·1	0·2
5	Bristol ...	38	33	31	0·1	Tr	3·3
	Portland Bill ...	41	33	*	-	-	*
	Plymouth ...	41	35	32	-	-	0·9
	The Lizard ...	42	34	*	Tr	-	1·5
	Scilly (St. Mary's)	45	37	*	Tr	-	3·8
	Guernsey ...	43	35	30	Tr	-	1·5
6	Pembroke ...	44	37	*	-	-	3·6
7	Holyhead ...	44	40	38	-	-	0·4
	Chester (Sealand)	41	38	35	-	Tr	0·0
8	Manchester ...	42	36	34	0·1	0·1	0·0
10	Spurn Head ...	41	37	*	1	1	0·3
	Catterick ...	42	39	38	0·5	0·2	0·1
	Tynemouth ...	43	41	39	1	2	0·6
11	St Abbs Head	41	39	*	2	1	*
	Leuchars ...	41	38	34	0·6	-	0·0
12	Renfrew (Abbotsl.)	35	33	30	-	-	0·0
	Eskdalemuir ...	41	36	32	Tr	Tr	0·0
	Point of Ayre ...	44	42	*	-	-	4·5
13A	Tiree	46	40	37	-	0·5	0·0
13B	Stornoway ...	43	40	*	-	Tr	0·0
15	Dalwhinnie ...	40	33	28	0·4	-	0·0
	Aberdeen ...	44	39	36	0·3	0·2	0·0
	Wick ...	44	40	*	Tr	1	*
16	Lerwick ...	45	41	*	1	0·2	0·0
17	Blacksod Point	44	32	*	-	Tr	*
18	Malin Head ...	46	35	*	-	-	4·5
	Aldergrove ...	35	34	33	Tr	-	0·0
19	Birr Castle ...	36	32	*	-	-	0·5
20	Valentia Obsy. †	43	29	22	Tr	Tr	6·4
	Roches Point	41	35	*	Tr	0·2	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
24h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cs$_o$m	cmgis$_o$	cs$_o$cm$_o$	36	33	31	Tr	Tr	0·0	*	*	4
Croydon	217	c,cm$_o$is$_o$	cs$_o$s$_o$is$_o$m	cis$_o$dcm	35	32	31	Tr	Tr	0·0	*	*	3
Greenwich (Royal Observatory) ...	149	cs$_o$m$_o$	cs$_o$m	cm	35	33	31	Tr	-	0·0	85	88	4
City (Bankside Roy)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	38	35	33	-	-	0·0	79	90	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	37	33	31	Tr	-	0·0	90	90	*
Camden Square	119	c	psrc	*	43	33	31	Tr	-	*	*	92	*
Kensington	80	bcco	co	*	37	34	30	Tr	Tr	0·0	At 18h. 24	91	*
Hampstead Observatory	450	bcos	o	o	35	31	26	Tr	-	0·0	*	98	*

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 3rd January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 4th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1030·1	NNE	4	b	28	1028·1	NNW	2	z_o	19
Brussels	1032·8	NE	2	b	24	1027·1	W	1	z_o	24
Berlin	1028·7	NNW	5	s_os_o	27	1015·5	WNW	4	rs	25
Zurich	1025·8	NE	3	c	16	1023·4	NE	1	z_o	10
Rome	1013·8	NE	2	c	34	1011·3	NNE	5	c	30

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	15–17h. 3rd.	<0·3	2–4h. 4th.

Kew Observatory. Max.	Time.	Min.	Time.
0·4	23h. 3rd.	<0·1	8h. 3rd.

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
32	19	Tr	-
28	16	-	-
30	21	0·1	3
27	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. GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 5th January, 1938.

No. 27303.

Distrct.	Stations. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 4th January														OBSERVATIONS at 18h. G.M.T. 4th January															PAST 24 HOURS.			
		Barom. at M.S.L.	Change in 3 hours.	Wind. Direc.	Wind. Force 0–12	Weather.	Temp. °F.	% Humid.	Visibility 0–9	Cloud. Form. Low	Cloud. Form. Med.	Cloud. Form. High	Cloud. Amount. Low 0–10	Cloud. Amount. Total 0–10	Height of Base (feet)	Barom. at M.S.L.	Change in 3 hours.	Wind. Direc.	Wind. Force 0–12	Weather.	Temp. °F.	% Humid.	Visibility 0–9	Cloud. Form. Low	Cloud. Form. Med.	Cloud. Form. High	Cloud. Amount. Low 0–10	Cloud. Amount. Total 0–10	Height of Base (feet)	State of Ground. 0–9	Sea. 0–9	Weather 7h.–13h. 4th.	Weather 13h.–18h. 4th.	Weather (5h. 4th to 1h. 5th)	Weather 1h.–7h. 5th.
		mb.														mb.																			
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(37)	(38)	(39)	(40)
1	London (Kew)	1024·6	-26	NNW	3	m/d	41	92	4	5	-	-	10	10	800	1024·3	+4	N'W	4	z_o	43	85	6	5	-	-	9	9	1500	1	*	cfd,cm	cm,$r_o$cm,i_r,bcm,$_o$	bcm,x_{cr_o}	bcm,$_o$xcr,$_o$
	Croydon ...	1025·0	-32	NNW	3	df	38	97	2	r_-	-	-	10	10	<150	1024·1	-2	NE'N	4	z_o	42	85	5	5	-	-	4-6	4-6	1500	1	*	omffd,d	dd,$r_o$fm	bcm,$_o$bc	bcm,$_o$x
	S. Farnborough	1025·3	-26	NNW	3	m/f	39	97	4	5	-	-	10	10	450	1024·4	0	N'W	3	i_{r_o}	42	85	5	5	-	-	9+	9+	1500	1	*	om,fdfo	cm,$_o$$i_r$,$_o$	c_{ir},$_o$cm,$_o$	c_{ir},$_o$
	Boscombe Down	1026·7	-26	N'W	4	c/d	40	92	5	6	2	-	10	10	450	1025·3	-6	N	4	i_{d_o}	41	85	5	6	2	-	9+	10	1500	1	*	cm,$_o$ffcid,$_o$	cm,$_o$id,$_o$	id,$_o$m,$_o$cb	bbcc
	Calshot (Sthmtn.)	1026·1	-28	WNW	3	df	38	97	3	5	-	-	10	10	800	1024·2	-4	NNW	4	i_{r_o}	42	92	6	5	-	-	10	10	1500	1	2	cm,$_o$odf,$_o$odfc,$_{ir}$,$_o$m,$_o$	c_{ir},$_o$bc	bcb	
	Lympne ...	1023·2	-20	NNW	4	cf	37	85	3	5	-	-	10	10	<150	1022·4	0	N'E	5		40	85	6	6	-	-	10	10	800	1	§3	coffd,d,d	fcd,m,r,m,o,m,$_o$,r,$_o$bc	c	
	Manston ...	1022·6	-32	WNW	4	df	39	97	3	6	-	-	10	10	220	1022·1	+4	NNE	4	i_{d_o}	42	85	6	5	-	-	10	10	1500	1	*	coffd,$_o$d,$_o$	ffrcd,$_o$m,$_o$cm,$_o$p,$_o$c	c	
2	Shoeburyness ...	1023·5	-26	NW'N	5	c/f	41	92	5	5	7	-	7-8	9+	800	1023·4	+6	NNW	4	c	41	85	7	6	7	-	7-8	9+	800	1	*	cd,$_o$d,$_o$fc	rRb,$_i$c	ccr,$_o$b	bbcxcx
	Felixstowe ...	1023·1	-26	NW	3	c/pr	42	92	6	5	3	-	7-8	9	800	1023·5	+10	N	4	i_{r_o}	41	92	7	5	-	-	10	10	800	1	2	cd,$_i$p,$_r$c	cp,$_r$bcc	i_{r},$_i$cbcb	bbcxc
	Gorleston ...	1022·8	-20	NNW	5	c/pr	44	92	6	8	-	-	9+	9+	1500	1023·8	+10	N	5	c	43	85	6	8	-	-	10	10	2500	1	3	ofdc,p,$_r$	p,$_r$cq	ep,$_r$bc	bcc
	Mildenhall ...	1024·2	-22	N'W	4	c/r	44	97	7	6	7	-	9	9+	800	1024·8	+4	NNE	3	b	39	92	8	5	-	-	Tr	Tr	4000	1	*	offd,$_i$r,$_i$	cp,$_r$bcb	b,$_c$id,$_o$bc	bcb,$_c$r,$_o$
	Cranwell ...	1026·6	-14	NNW	4	z_o	42	92	6	8	4	-	7-8	9	1500	1027·1	+6	N	4	c/d	41	97	7	8	-	-	7-8	7-8	1500	1	*	fd,$_i$r,$_i$d,$_o$	cd,$_o$m,$_o$dd,$_o$bcc		ofefe
3	Birmingham ...	1027·4	-12	NNW	4	m	41	85	4	6	-	-	10	10	1500	1027·2	0	NNW	3	m	40	92	4	5	-	-	10	10	1500	1	*	om,$_i$d,$_o$	om,$_i$d,$_o$	oi,d,$_o$	oi,d,$_o$m
4	Upper Heyford	1026·6	-18	NW'N	4	d,$_o$d,$_o$	41	92	4	5	2	-	9+	10	450	1026·3	+2	N	4	i_{r_o}	41	92	5	5	-	-	9+	9+	800	1	*	cfd,$_o$d,$_o$m	cd,$_o$d,$_r$m,$_o$r,$_o$bcc		cd,$_o$m,$_o$
	Ross-on-Wye	1027·8	-16	N	3	z_o	42	85	6	5	-	-	10	10	800	1027·3	-4	N	4	z_o	42	85	6	5	-	-	10	10	800	1	*	d,$_o$m,$_o$m	om,$_o$	om,$_o$	om,$_o$cm,$_o$
5	Bristol ...	1027·9	-22	NNW	4	c/r	42	85	5	5	-	-	10	10	800	1027·0	0	N	3	c/r	42	85	5	5	-	-	10	10	800	1	*	cd,$_o$r,$_o$r	cm,$_o$r,$_o$m	cm,$_o$p,$_r$	cm,$_o$p,$_r$
	Portland Bill ...	1026·2	- 8	NW	3	d,$_o$d,$_o$	42	85	6	5	-	-	10	10	1500	1025·5	-6	N	3	o	42	92	6	5	-	-	10	10	1500	1	3	od,$_o$	od,$_o$o	c	c
	Plymouth ...	1028·8	-24	NNW	3	z_o	40	75	6	5	3	-	4-6	9	4000	1026·6	-10	N'E	3	c	43	75	7	5	7	-	7-8	9	4000	1	1	c,cz,$_o$	cz,$_o$	cq,$_r$c	cq
	The Lizard ...	1029·5	-16	NW'N	3	c	41	75	8	8	6	-	7-8	9+	2500	1027·4	-8	N	4	c	42	85	8	8	7	-	7-8	9+	2500	1	2	c	c	cbc	bcc
	Scilly (St. Mary's)	1030·4	-20	NNW	3	c	42	75	8	5	3	-	4-6	10	2500	1028·3	-14	N'E	5	c/pr	44	92	8	8	7	-	4-6	10	1500	1	3	c	cp,$_o$	cp,$_o$qc	c
	Guernsey ...	1027·8	-20	NNW	3	c	41	65	7	8	-	-	10	10	2500	1024·2	-12	N	4	c/r	44	85	6	8	-	-	10	10	2500	1	3	c	cprir	c_{ir}	bcc
6	Pembroke ...	1030·8	-16	NE'E	3	pr,$_o$	45	75	8	5	7	-	9	9+	2500	1029·9	-4	NE'N	3	q	43	85	8	5	4	-	7-8	9+	2500	1	2	cqpr,$_o$	cqprc	cq	cqc
7	Holyhead ...	1031·3	-14	NNE	4	c	45	85	8	7	3	8	4-6	7-8	2500	1031·0	-2	NNE	5	bc	45	85	8	5	4	1	4-6	4-6	4000	0	2	pr,$_o$c	cbbc	bcb	bwc
8	Manchester ...	1030·3	-12	N'W	4	z_o	42	85	6	5	-	-	10	10	4000	1030·2	0	NNW	4	c/r	42	85	5	5	-	-	10	10	2500	1	*	cr,$_o$m,$_o$	cr,$_o$m,$_o$	cr,$_o$r,$_o$m,$_o$	cm,$_o$
		1029·4	-12	N'W	4	i_{r_o}	43	75	5	6	2	-	9	10	2500	1029·3	-2	N	3	i_{r_o}	43	85	6	6	-	-	10	10	1500	1	*	cm,$_o$ir,$_o$	cz,$_o$m,$_i$r,$_o$	cir,$_o$m,$_o$	cir,$_o$m,$_o$
10	Spurn Head ...	1026·1	- 8	N'E	5	q	45	85	7	8	-	1	4-6	7-8	1500	1027·4	+6	NE	5	bc	43	85	7	5	-	-	4-6	4-6	2500	1	4	pr,$_o$q	q,pr,$_o$c	c	cpr,$_o$c
	Catterick ...	1029·4	-10	NNW	4	i_{r_o}	43	92	6	9	7	-	4-6	9+	800	1029·7	+6	N'W	4	pr,$_o$	41	92	7	8	-	-	4-6	4-6	1500	1	*	r_o,pr,$_o$r,$_o$	m,$_o$bc,pr,$_o$	pr,$_o$bbc	bcb
	Tynemouth ...	1029·3	-12	N	4	c/r	42	85	7	8	6	-	4-6	7-8	1500	1029·5	+4	N	4	c/r	44	92	7	-	2	-	7-8	7-8	1500	1	2	bc,$_i$r,$_o$	bcc,$_i$r	coir	oc
11	St. Abbs Head	1031·2	-6	N	3	ir	42	85	7	4	6	8	7-8	9	2500	1031·2	0	N	4	bc	43	85	8	2	4	-	2-3	4-6	2500	1	3	ir,$_c$	c_{ir},bc	pr,$_o$c	bcb
12	Leuchars ...	1032·3	-12	WNW	2	bc	42	75	8	5	3	-	4-6	4-6	5700	1032·7	0	NW	1	bc	34	85	8	5	-	-	2-3	2-3	4000	1	*	c,bc,x,bc	bc,c,bc	bcc,bc,x	bc,x,bc
	Renfrew (Abbotsl.)	1032·9	-14	W	1	b	45	75	7	5	-	-	Tr	Tr	4000	1033·0	+2	SW	1	bf	34	92	3	-	-	-	o	o	-	3	*	c,bc,b,$_o$	bx,m,f	bff,bc,m,$_o$	bc,m,$_o$
	Eskdalemuir ...	1031·9	- 6	N	4	bc	41	85	8	5	3	-	2-3	4-6	1500	1031·8	+2	N'E	3	bc	37	85	8	5	-	-	2-3	2-3	1500	1	*	bc,$_i$r,$_o$	bc,b	bcc	c
	Point of Ayre...	1032·3	- 8	NE	3	c	44	75	8	5	4	-	7-8	7-8	2500	1032·1	0	NE'N	3	bc	43	75	8	4	4	-	4-6	4-6	2500	0	2	c	cbc	cbcc	bcc
13A	Tiree	1034·0	-4	-	0	c/d	45	92	7	5	-	-	7-8	7-8	1500	1033·2	-4	-	0	c	44	92	8	5	-	-	9	9	1500	1	2	c	c	cir	cir
13B	Stornoway ...	1032·9	-6	SW	3	c	45	85	8	5	7	-	7-8	9+	2500	1032·0	-4	SW	2	c/d	43	97	7	8	7	-	7-8	10	1500	1	1	cpr,$_o$	c_{id_o}	c_{id_o}p,$_o$	c_{id_o}
15	Dalwhinnie ...	*	-10	N	3	c	39	85	7	5	1	-	4-6	10	2500	1033·7	-4	S	2	c	36	92	7	5	-	-	10	10	2500	0	*	c	c	c_{z_o},$_i$d,$_o$b	c,ir,$_o$
	Aberdeen ...	1031·7	- 6	NW	3	c	43	75	7	5	-	-	9+	9+	2500	1031·5	-2	NW	2	c	41	85	6	5	-	-	9+	9+	2500	1	1	bbcc	c		b,c
16	Wick ...	1032·1	- 8	NW	3	c	43	97	8	5	2	-	7-8	10	1500	1030·8	- 8	WSW	2	c	42	92	7	5	2	-	9	10	800	1	1	i,$_d$c	c_{id_o}c	bc	cpr,$_o$c
	Lerwick ...	1029·1	-14	WSW	3	c	45	92	8	8	7	9	4-6	9	1500	1026·8	-16	WSW	3	bc	46	75	8	5	-	-	4-6	4-6	1500	1	*	c_{id_o}	cd,$_o$	bcpr	bccpr
17	Blacksod Point	1035·6	-12	E	2	c	42	92	7	5	-	-	9+	9+	1500	1035·3	-2	W	2	c	41	97	7	-	1	-	o	10	-	0	2	o	o	c	c
18	Malin Head ...	1034·8	- 4	N'W	2	c	45	97	7	8	-	-	9	9	1500	1033·8	0	-	0	c/d	44	97	7	8	3	-	7-8	9	1500	1	2	c	circ	cidbcc	cbc
	Aldergrove ...	1034·2	-10	NW	2	id	40	92	6	5	-	-	10	10	800	1033·8	0	NW	1	c	41	92	7	5	-	-	9+	9+	2500	1	*	cm,$_o$,dc	cd,$_o$c	c_{id_o}m,$_o$c	c_{ir},bc
19	Birr Castle ...	1034·9	- 4	NNW	1	o	37	97	7	5	-	-	10	10	2500	1034·1	-2	NNW	1	o	38	92	7	5	-	-	10	10	2500	1	*	offo	o	o	o
20	Valentia Obsy. †	1035·5	- 6	ENE	1	c	40	85	8	5	-	-	9+	9+	4000	1034·9	-2	NE'N	2	c	41	75	8	5	-	-	9	9	4000	1	1	cbcc	c	cbcb	bbcc
	Roches Point	1034·5	- 2	N	2	c	42	85	8	5	-	-	9	9	2500	1033·9	-2	N	3	c	40	85	8	5	3	-	7-8	9	2500	1	2	cwc	cbcc	cbc	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large Cu (or Cb) and Sc.
9 Large Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 28.—STATE OF GROUND

0 . . Ground dry.
1 . . „ wet.
2 . . „ flooded.
3 . . „ frozen hard and dry.
4 . . „ partly covered with snow or hail.
5 . . „ covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . „ covered with snow, less than 5 ins., deep but ground not frozen.
8 . . „ covered with snow, less than 5 ins., but ground frozen.
9 . . „ covered with snow greater than 5 ins. deep.

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

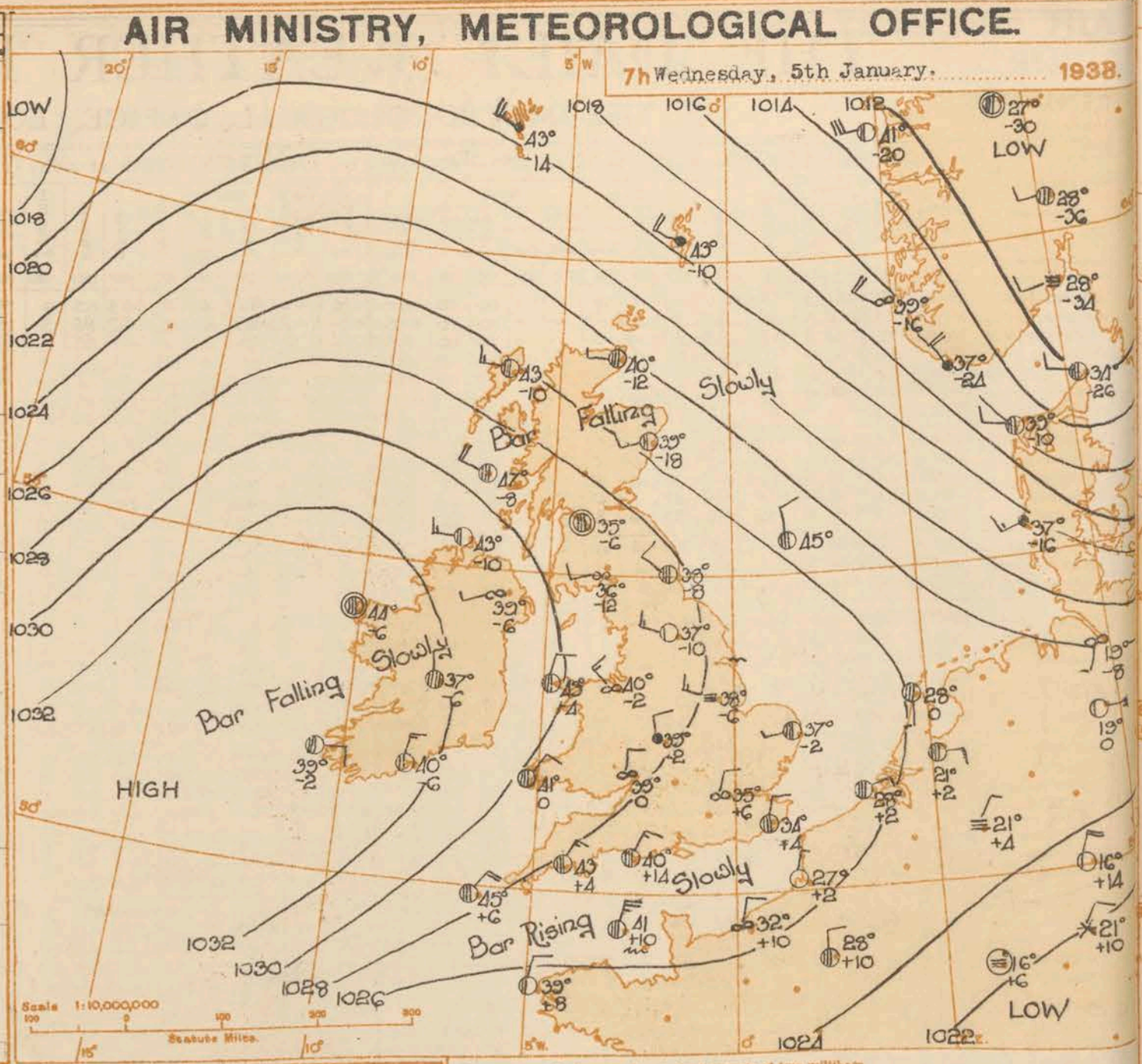
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 4th. January 1938.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature (°F.) Min. 9h. 3rd to 9h. 4th.	Temperature (°F.) Max. 9h.—17h. 4th.	Rainfall (mm.) Night. 17h. 3rd. to 9h. 4th.	Rainfall (mm.) Day. 9h.—17h. 4th.	Sunshine (hrs) Sunrise to Sunset. 4th.
1	Tunbridge W.	opsr	ocpsr	30	41	Trace	0·3	0·0
	Bournemouth	ood₀	o	30	42	–	Trace	0·0
	Ventnor ...	opz	ouz	32	42	–	0·3	0·0
	Southsea ...	od₀d₀	cbc	33	43	–	–	0·0
	Bognor Regis	o	oid₀	32	43	–	Trace	0·0
	Littlehampton	o	oidc	32	42	–	0·4	0·0
	Worthing ...	c	cr	32	43	–	Trace	0·0
	Brighton ...	c	cd	33	42	–	Trace	0·0
	Eastbourne† ...	o	od₀d₀	32	42	–	0·4	0·0
	Hastings† ...	ood₀	oopd₀	30	42	–	0·3	0·0
	Folkestone ..	omd₀	odrc	30	42	Trace	1	0·0
	Dover ...	odm	dmo	31	45	Trace	1	0·0
	Deal	odd	o	31	39	–	1	0·0
	Ramsgate ...	od₀	doc	33	43	–	1	0·0
	Margate ...	cd₀	cd₀	33	43	–	0·3	0·0
2	Southend ...	ofd	obcb	32	43	Trace	Trace	0·0
	Clacton-on-Sea	omcp	cpbc	32	43	Trace	1	0·0
	Dovercourt ...	oc	rococ	32	43	–	0·3	0·0
	Lowestoft ...	crprs	bcc	32	44	0·5	0·2	0·3
	Skegness ...	opc	cobcb	35	44	1	1	0·1
	Mablethorpe...	bcpbc	bcp	35	45	0·5	0·5	1·5
	Cleethorpes ..	cr₀	cr₀bc	35	45	1	Trace	1·0
3	Leamington S.	op	op	35	43	–	0·5	0·0
4	Cheltenham†	ofp₀	fid₀	34	42	Trace	0·3	0·0
5	Bath	cr₀	r₀c	35	43	–	Trace	0·0
	Weymouth ...	c	c	33	43	–	–	0·0
	Jersey ...	cg	c	33	43	–	–	0·0
	Torquay ...	cmco	oc	35	44	–	–	0·0
	Falmouth	c	o	34	44	–	–	0·0
	Penzance ...	ccp	c	34	45	–	Trace	0·0
	St. Ives ...	o	o	35	40	–	–	0·0
	Bude... ...	c	c	31	45	Trace	–	0·1
	Ilfracombe ...	ococ	cbcc	37	45	–	–	0·0
6	Aberystwyth	cir₀c	c	36	44	–	Trace	0·0
7	Llandudno ...	cr₀c	c	38	44	–	Trace	0·0
	Colwyn Bay...	cpc	cbcc	38	44	–	Trace	0·0
	Rhyl	cpr₀c	c	37	43	Trace	Trace	0·0
8	Wallasey ...	c	cr₀	36	41	Trace	Trace	0·0
	Southport ...	c	cocp₀	34	42	0·2	Trace	0·0
	Blackpool ...	cm	cmp₀c	41	44	Trace	Trace	0·0
	Morecambe ...	c	co	38	43	Trace	–	0·0
9	Ilkley... ...	cod₀	cd₀c	36	44	0·2	0·3	0·0
	Harrogate ...	c	coir	35	42	0·4	1	0·0
10	Berwick-on-T.	cir₀	ir₀c	41	43	1	1	0·0
11	Dunbar ...	cm₀r	cr	36	42	0·5	Trace	0·1
12	Troon... ...	xbf bc	bcbfb	29	40	–	–	5·1
	Douglas ...	bc	bc	38	45	–	–	2·3

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
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 January, 1938.
1 S.E. England 2 E. England ... 3 E. Midlands	Light to moderate northerly winds; mainly fair; local morning fog; average temperature.
4 W. Midlands ... 5 S.W. England	Moderate or fresh north to northeast winds becoming light and variable; cloudy with occasional rain today, mainly fair tomorrow; average temperature.
6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light to moderate northerly to variable winds; mainly fair; local morning fog; average temperature.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland	Light to moderate westerly winds, backing towards south; mainly fair: average temperature.
15 N. E. Scotland 16 Orkney and Shetland	Light to moderate northwesterly wind, backing; mainly fair; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light variable winds, freshening from southwest or west later; mainly fair today, occasional slight rain tomorrow; average temperature.

GENERAL INFERENCE.

An anticyclone centred to the west of Ireland is tending to move southwards. Mainly fair weather will be general with temperature about the average for the season.

FURTHER OUTLOOK.

No important change.

Forecasts issued at 1000 G.M.T.

GEORGE C. SIMPSON, K.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.

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

WEDNESDAY, 5TH JANUARY.

1938.

Clarke's Projection Scale 1: 4X10⁷ along meridian at 55° N.

Statute Miles. 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 5th January, 1938.
No. 27803.

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)	°/o 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	1026·6	+1·4	NE'E	2	C	38	85	7	5	-	-	9	9	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1026·2	+1·4	NE	4	C	35	75	8	5	-	-	9+	9+	2500
	Manston ...	142	1026·0	+1·4	ENE	4	C	36	65	8	5	-	-	7-8	7-8	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1027·4	+1·0	ENE	4	bc	38	75	7	8	-	-	4-6	4-6	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1026·0	+6	NE	3	c	42	85	8	4	-	-	10	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1026·3	+2	N'E	4	bc	43	75	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1027·7	0	NEN	6	c	46	85	8	8	7	-	4-6	10	1500
	Guernsey ..	175	1024·2	+4	NNE	5	bc	44	75	7	8	-	-	4-6	4-6	2500
6	Pembroke ...	142	1029·8	0	NE	4	q	43	75	7	5	2	-	7-8	9+	2500
7	Holyhead ...	26	1030·7	-2	NE'N	4	b	44	87	8	1	-	-	Tr	Tr	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1028·3	+2	ENE	2	c	42	85	7	5	-	-	9+	9+	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1030·0	0	N	3	o/r	41	92	6	6	-	-	10	10	800
11	St. Abb's Head ..	280	1030·6	-0·6	WNW	3	c	40	85	7	5	4	-	4-6	7-8	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1032·1	0	NNE	3	c	43	75	7	5	-	-	10	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ..	80	1028·7	-1·4	WSW	4	c/pr	45	92	7	8	7	-	4-6	7-8	2500
15	Dalwhinnie ...	1178	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1027·2	-2·0	W	3	bc	41	92	8	5	7	-	2-3	2-3	1500
16	Lerwick ...	156	1027·9	-1·2	NW	4	bc/pr	43	85	8	8	-	-	4-6	4-6	1500
17	Blacksod Point	18	1034·5	-2	W	1	c	42	85	7	-	1	-	0	10	-
18	Malin Head ...	84	1032·6	-4	W	1	c	43	87	7	5	-	-	9	9	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1034·3	0	NNE	5	b	40	87	8	-	-	-	0	0	-
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. 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)	°/o Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1028·2	+0·6	N	2	fr	36	85	5	5	7	-	7-8	9+	1500	1	*
	Croydon ...	1027·7	+0·6	N'E	2	fr	35	85	6	5	-	-	10	10	2500	1	*
	S. Farnborough	1027·9	+0·4	N	-	fr	36	85	5	5	-	-	9	9	2500	1	*
	Boscombe Down	1028·5	+1·0	NNE	2	c	37	85	5	5	-	-	10	10	4000	1	*
	Calshot (Sthmtn.)	1027·5	+0·2	N'W	3	c	35	92	8	-	5	6	0	7-8	-	1	2
	Lympne ...	1027·4	+0·4	NNE	2	c	36	75	8	5	-	-	9+	9+	2500	1	§3
	Manston ...	1026·5	0	NE	2	c	37	75	8	5	-	-	9	9	2500	1	*
2	Shoeburyness ...	1027·3	+0·4	NNW	2	c	32	92	7	5	3	-	4-6	7-8	2500	1	*
	Felixstowe ...	1027·1	0	NNW	2	c	34	92	7	5	-	-	10	10	1500	1	2
	Gorleston ...	1026·7	-0·2	WSW	-	c	37	85	6	5	-	-	10	10	2500	1	2
	Mildenhall ...	1027·1	-0·2	W	1	fr	35	97	7	5	-	-	9+	9+	1500	1	*
	Cranwell ...	1028·0	-0·6	NW	3	fr	38	87	1	-	-	-	10	10	4150	1	*
3	Birmingham ...	1028·9	-0·2	NNW	2	fr	39	92	4	6	-	-	10	10	800	1	*
	Upper Heyford	1028·1	+0·2	N	3	c/d	38	92	6	5	2	-	7-8	10	1500	1	*
4	Ross-on-Wye	1028·6	0	N	2	fr	39	92	5	5	-	-	9+	9+	1500	1	*
5	Bristol ...	1029·4	+0·2	NNE	1	fr	39	92	6	5	-	-	7-8	7-8	1500	1	*
	Portland Bill ...	1027·3	+0·4	NE	3	c	40	85	8	4	-	-	10	10	2500	1	3
	Plymouth ...	1027·6	+0·4	NE	3	c	43	65	8	5	7	-	9	10	2500	1	2
	The Lizard ...	1027·5	+0·2	NE'N	3	c	42	75	8	4	2	-	9	10	2500	1	3
	Scilly (St. Mary's)	1028·3	+0·6	NE'E	4	c	45	75	8	8	6	-	4-6	7-8	2500	1	3
	Guernsey ..	1025·6	+0·10	NNE	5	c	41	65	7	8	-	-	10	10	2600	1	4
6	Pembroke ...	1029·3	0	NE	2	c	41	85	7	5	-	-	9	9	2500	1	2
7	Holyhead ...	1030·1	-0·4	NNE	2	c	43	85	8	5	8	-	7-8	9+	4000	0	2
	Chester (Sealand)	1029·8	-0·2	NNW	3	fr	40	85	6	5	-	-	10	10	2500	1	*
8	Manchester ...	1029·3	-0·10	-	0	fr	40	85	6	5	3	-	2-3	7-8	2500	1	*
10	Spurn Head ...	1026·9	-0·4	NNW	4	c/pr	39	87	7	8	1	-	4-6	10	800	1	2
	Catterick ...	1028·5	-0·10	WNW	3	bc	37	75	7	5	-	-	Tr	Tr	2500	1	*
	Tynemouth ...	1028·5	-0·8	NW	2	c	38	85	6	5	-	-	7-8	7-8	800	1	2
11	St. Abb's Head ..	1027·9	-0·6	WNW	3	bc	41	75	7	-	3	-	0	2-3	-	1	2
	Leuchars ...	1027·6	-0·4	WSW	2	bc	34	92	7	5	-	-	2-3	2-3	4000	3	*
12	Renfrew (Abbotsl.)	1029·2	-0·12	WSW	2	fr	36	97	5	5	-	-	7-8	7-8	2500	1	*
	Eskdalemuir ...	1029·1	-0·6	-	0	c	35	85	7	5	-	-	7-8	7-8	1500	1	*
	Point of Ayre ...	1030·0	-0·8	N	2	c	43	75	8	5	-	-	9+	9+	1500	0	1
13A	Tiree	1028·9	-0·8	WNW	4	c	47	85	8	8	-	-	9	9	1500	1	*
13B	Stornoway ..	1026·7	-0·10	W	3	c/d	43	97	7	5	7	-	7-8	9	2500	1	2
15	Dalwhinnie ...	1028·3	-0·12	SW	3	bc	38	92	7	4	6	-	2-3	4-6	2500	1	*
	Aberdeen ...	1028·1	-0·8	WSW	2	bc	39	85	7	5	-	-	4-6	4-6	2500	1	1
	Wick ...	1024·4	-0·12	W	1	c	40	92	8	8	7	-	7-8	9	1500	1	*
16	Lerwick ...	1023·7	-0·10	WNW	4	bc	43	85	8	8	2	-	7-8	9	800	1	*
17	Blacksod Point	1032·8	-0·6	-	0	c	44	85	8	5	-	-	9+	9+	2500	0	2
18	Malin Head ...	1030·3	-0·6	W	3	bc	43	97	7	8	-	-	4-6	4-6	1500	1	2
	Aldergrove ...	1031·5	-0·6	WSW	1	Zo	39	97	6	5	-	-	7-8	7-8	1500	1	*
19	Birr Castle ...	1032·5	-0·6	NNW	1	o	37	97	7	5	-	-	10	10	4000	1	*
20	Valentia Obsy. †	1033·4	-0·2	ENE	2	c	39	85	8	5	-	-	7-8	7-8	4000	0	1
	Roches Point	1032·2	-0·6	N'E	3	bc	40	85	8	5	-	-	2-3	2-3	2500	1	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 4th Hrs. (36)
1	London (Kew)	43	36	28	0·1	Tr	0·0
	Croydon ...	43	35	30	2	-	0·0
	S. Farnborough	42	35	29	0·1	Tr	0·0
	Boscombe Down	41	36	35	0·2	0·1	0·0
	Calshot (Sthmtn.)	43	35	31	0·1	Tr	0·0
	Lympne ...	41	33	31	0·5	1	0·0
	Manston ...	43	35	33	1	Tr	0·0
2	Shoeburyness ...	43	31	24	0·5	Tr	0·0
	Felixstowe ...	43	32	27	0·6	Tr	0·1
	Gorleston ...	44	37	35	1	0·1	0·1
	Mildenhall ...	44	33	27	1	0·1	0·2
	Cranwell ...	44	37	33	1	Tr	0·2
3	Birmingham ...	41	38	35	0·2	0·1	0·0
	Upper Heyford	44	37	35	0·4	1	*
4	Ross-on-Wye	43	38	33	0·1	Tr	0·0
5	Bristol ...	43	39	35	0·1	Tr	0·0
	Portland Bill ...	43	39	*	Tr	-	*
	Plymouth ...	44	42	40	-	Tr	0·0
	The Lizard ...	44	41	*	-	-	0·0
	Scilly (St. Mary's)	45	42	*	0·5	1	0·0
	Guernsey ..	44	40	35	0·5	Tr	0·0
6	Pembroke ...	46	40	*	1	-	0·0
7	Holyhead ...	45	43	38	Tr	-	3·2
	Chester (Sealand)	42	40	38	Tr	Tr	0·0
8	Manchester ...	44	37	31	Tr	0·3	0·0
10	Spurn Head ...	45	39	*	0·4	0·2	1·3
	Catterick ...	43	37	32	2	Tr	0·2
	Tynemouth ...	44	38	36	2	2	0·0
11	St. Abb's Head ..	43	38	*	0·4	Tr	*
	Leuchars ...	43	31	19	-	-	0·4
12	Renfrew (Abbotsl.)	46	30	25	-	-	5·3
	Eskdalemuir ...	43	34	31	Tr	-	3·7
	Point of Ayre ...	45	41	*	-	-	2·3
13A	Tiree	46	41	33	1	1	0·0
13B	Stornoway ..	45	41	*	0·2	1	0·6
15	Dalwhinnie ...	39	33	30	-	Tr	0·1
	Aberdeen ...	43	38	32	-	Tr	0·5
	Wick ...	44	30	*	0·2	0·6	*
16	Lerwick ...	47	43	*	Tr	1	0·1
17	Blacksod Point	44	38	*	-	-	*
18	Malin Head ...	46	41	*	1	0·3	0·0
	Aldergrove ...	43	38	36	Tr	0·5	0·1
19	Birr Castle ...	39	37	*	-	-	0·0
20	Valentia Obsy. †	42	37	32	-	-	0·1
	Roches Point	43	38	*	Tr	-	*

LONDON OBSERVATIONS

Day 7h—18h. Kew & Croydon.
9h—18h. Kensington.
9h—21h. other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
Kew	18	cf d cm	cm c m	ir bc m x c	43	36	28	0·1	Tr	0·0	*	*	5
Croydon	217	cm f d d	dd c f m	bc m b c x	43	35	30	2	-	0·0	*	*	4
Greenwich (Royal Observatory)...	149	cd m	cir d m	cb c m	43	35	31	0·5	-	0·0	88	82	4
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	45	36	31			0·0	86	86	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	43	34	29	0·3	-	0·0	83	90	*
Camden Square	110	c	cr c d	*	43	34	29	0·5	-	*	*	90	*
Kensington	80	co	co c p	*	43	34	27	1	Tr	0·0	At 18h. 84	88	*
Hampstead Observatory ...	450	or	o	o s	41	34	31	1	Tr	0·0	*	74	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington.

Max.	Time.	Min.	Time.
0·6	10-11h 4th.	0·3	1-2h 5th.

Kew Observatory.

Max.	Time.	Min.	Time
0·5	11h. 4th	0·1	0h. 5th.

FOREIGN OBSERVATIONS

18h G.M.T. 4th January

Stations.	Barom. mb.	Wind. Direc.	Wind. Force	Weather.	Temp. °F.
Paris	1017·9	NW	3	o/s	28
Brussels	1019·5	NE	4	c	34
Berlin	1020·0	NE	4	b	19
Zurich	1019·1	NW	1	s s	18
Rome	1008·7	N	4	bc	32

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

Barom. mb.	Wind. Direc.	Wind. Force	Weather.	Temp. °F.
1024·2	N	2	c	28
1020·2	N	1	m	14
1010·6	NE	3	bc	24

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
28	24	0·4	-
34		2	
32		2	
21	12	0·4	0·2
*	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h.

§ See disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 6th January, 1938.

No. 27804.

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)	°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)	1027·3	-10	NNW	2	m	40	85	4	5	-	-	10	10	1500
	Croydon ...	1027·6	-14	WNW	2	df	38	92	3	5	-	-	10	10	1500
	S. Farnborough	1027·5	-14	NNW	3	c/d	41	85	6	5	-	-	9+	9+	4000
	Boscombe Down	1028·7	- 8	N'W	1	Z_o	40	92	5	5	-	-	9+	9+	1500
	Calshot (Sthatn.)	1028·2	- 4	NW	2	Z_o	40	85	5	5	7	-	7-8	10	2500
	Lympne ...	1027·1	-10	NW	2	Z_o	37	85	6	5	3	-	4-6	7-8	2500
	Manston ...	1026·8	- 6	NW	4	c	38	85	8	5	2	-	7-8	10	2500
2	Shoeburyness ...	1026·7	-12	W'S	2	r_o	39	92	5	5	7	-	7-8	10	800
	Felixstowe ...	1026·6	-12	W'S	2	ir_o	39	92	6	5	2	-	9	9+	1500
	Gorleston ...	1025·6	-16	W	2	c/pr	42	85	6	8	-	-	9	9	2500
	Mildenhall ...	1026·4	-10	NW	3	Z_o	41	97	5	5	-	-	9+	9+	800
	Cranwell ...	1027·0	-16	NNW	3	Z_o	42	85	6	5	3	-	4-6	9	4000
3	Birmingham ...	1027·8	- 4	NW	2	m	41	75	4	6	-	-	10	10	1500
4	Upper Heyford	1028·0	-10	NNW	3	m	41	92	4	5	-	-	9+	9+	1500
	Ross-on-Wye	1028·2	- 6	NNW	2	Z_o	42	85	6	5	-	-	9+	9+	2500
5	Bristol ...	1029·1	- 8	NW	2	Z_o	42	85	5	5	-	-	9+	9+	1500
	Portland Bill ...	1027·9	- 8	NW	2	c	41	92	7	4	4	-	4-6	10	2500
	Plymouth ...	1029·2	+ 2	NNE	3	c	43	75	8	5	-	-	~~7-8~~	9+	2500
	The Lizard ...	1029·4	- 2	N	3	c	42	85	8	4	2	-	9	10	2500
	Scilly (St. Mary's)	1029·9	- 2	NE'E	3	c	44	75	7	5	2	-	9+	10	2500
	Guernsey ...	1027·4	- 2	NE'N	3	c	41	55	9	8	-	-	~~2-3~~	9	2500
6	Pembroke ...	1030·2	0	NNE	1	c	44	85	7	5	2	-	7-8	10	2500
7	Holyhead ...	1029·2	-14	WNW	2	c/r	44	85	8	9	-	-	9+	9+	1500
8	Chester (Sealand)	1028·5	-18	WN	3	c/pr	44	75	6	7	7	-	9	9	2500
	Manchester ...	1028·2	-16	NNW	2	id_o	41	92	5	5	-	-	10	10	2500
10	Spurn Head ...	1026·2	-10	NW	4	c	41	92	6	5	-	-	9+	9+	1500
	Catterick ...	1026·2	-20	WNW	2	c	44	75	8	-	4	4	0	7-8	-
	Tynemouth ...	1025·4	-16	W	2	c	42	85	6	2	-	-	7-8	7-8	1500
11	St. Abbs Head ...	1024·1	- 8	WNW	4	c	44	75	7	-	5	2	0	7-8	-
12	Lenchars 1024·1	~~1023·3~~	-18	WSW	3	bc	41	85	7	4	4	8	4-6	4-6	4000
	Renfrew (Abbots L.)	1026·3	-18	W'S	3	c	44	92	8	5	-	-	9	9	2500
	Eskdalemuir ...	1026·1	-18	WN	3	jp	44	75	8	8	-	6	4-6	7-8	1500
	Point of Ayre ...	1028·5	-12	NW	4	jp	46	85	8	8	4	-	7-8	9+	1500
13a	Tiree ...	1026·9	-14	NNW	4	pr	47	85	8	8	-	-	7-8	7-8	1500
13z	Stornoway ...	1023·2	-14	W	4	id	45	97	7	8	1	-	7-8	10	1500
15	Dalwhinnie ...	1025·3	-18	SW	4	ir	42	85	7	5	2	-	4-6	10	1500
	Aberdeen ...	1023·1	-18	-	0	c/r	43	92	6	5	7	-	9	9+	1500
	Wick ...	1021·3	-20	NW	3	c	41	85	8	5	7	8	4-6	9	1500
16	Lerwick ...	1017·0	-16	WNW	3	c/pr	41	85	8	8	7	-	7-8	10	800
17	Blacksod Point	1030·1	-18	W	2	c	46	75	8	3	3	-	4-6	7-8	1500
18	Malin Head ...	1028·7	- 8	WNW	3	jp	45	97	7	8	4	2	4-6	7-8	1500
	Aldergrove ...	1029·9	-14	SW'S	2	c/r	41	92	6	5	-	-	9+	9+	1500
19	Birr Castle ...	1032·0	- 8	S	1	c	42	85	7	5	-	-	9+	9+	2500
20	Valentia Obsy. †	1033·3	- 6	-	0	c	44	65	9	5	-	-	9	9	4000
	Roches Point	1032·4	0	NNE	3	c	43	85	8	5	4	-	7-8	7-8	2500

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)	°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)	1026·3	-6	WNW	2	Z_o	41	85	5	5	-	-	10	10	1500	1	*
	Croydon ...	1026·7	-6	W'N	2	c·f	40	92	3	5	-	-	10	10	800	1	*
	S. Farnborough	1026·9	-8	NW'N	3	Z_o	40	~~85~~ 92	5	5	-	-	10	10	4000	1	*
	Boscombe Down	1027·6	-6	NW	2	Z_o	39	85	5	5	-	-	10	10	2500	1	*
	Calshot (Sthatn.)	1027·5	0	WNW	2	Z_o	41	92	6	5	-	-	10	10	2500	1	1
	Lympne ...	1026·5	-4	NW'W	2	c·f+	36	92	2	5	-	-	10	10	1500	1	0
	Manston ...	1026·6	-6	WNW	2	m/r	39	97	4	5	-	-	10	10	800	1	*
2	Shoeburyness ...	1025·8	-6	WNW	3	id_o	40	92	5	5	-	-	10	10	800	1	*
	Felixstowe ...	1025·3	-6	W'N	2	c/r	40	92	5	5	-	-	9+	9+	1500	1	2
	Gorleston ...	1024·4	-4	W	2	c	39	85	6	5	-	-	9+	9+	2500	1	2
	Mildenhall ...	1025·2	-10	WNW	3	Z_o	39	92	6	5	-	-	10	10	2500	1	*
	Cranwell ...	1025·1	-14	W'S	2	Z_o	36	92	6	-	-	-	0	0	-	1	*
3	Birmingham ...	1026·1	-10	NW	3	o	41	85	5	6	-	-	10	10	1500	1	*
4	Upper Heyford	1027·1	-6	W	2	m	38	85	4	5	-	-	10	10	2500	1	*
	Ross-on-Wye	1027·4	-6	SW	2	c	41	75	7	5	-	-	10	10	2500	1	*
5	Bristol ...	1028·6	-2	WNW	2	Z_o	40	75	5	5	-	-	10	10	2500	1	*
	Portland Bill ...	1028·0	-2	N	3	o	42	85	6	5	-	-	10	10	2500	1	3
	Plymouth ...	1029·1	+2	NW	2	Z_o	43	75	6	5	-	-	10	10	2500	1	0
	The Lizard ...	1030·0	+4	NW'N	1	c	41	85	7	4	2	-	9	10	2500	1	1
	Scilly (St. Mary's)	1030·1	+2	-	0	c	43	75	7	5	-	-	10	10	2500	1	1
	Guernsey ...	1027·9	+2	NNE	1	c	42	75	7	8	-	-	10	10	2500	1	3
6	Pembroke ...	1030·1	-4	NNE	2	c	42	85	8	8	2	-	7-8	9+	1500	1	1
7	Holyhead ...	1027·8	-6	NW'W	3	r	45	85	8	9	-	-	10	10	1500	1	2
8	Chester (Sealand)	1027·3	-8	NW'W	3	pr	42	92	6	8	-	-	7-8	7-8	1500	1	*
	Manchester ...	1026·5	-10	NW'W	2	Z_o	42	97	6	5	3	-	7-8	9	2500	1	*
10	Spurn Head ...	1024·2	- 8	WNW	4	b	39	92	6	5	-	-	1	1	4000	0	2
	Catterick ...	1024·3	-12	W	2	bc	41	85	8	4	4	1	1	4-6	4000	1	*
	Tynemouth ...	1023·4	-12	W	2	bc	41	85	6	5	-	-	2-3	2-3	1500	1	1
11	St. Abbs Head ...	1023·3	- 4	W	5	bc	43	85	7	-	4	1	0	2-3	7200	0	3
12	Lenchars	1022·3	- 6	W	4	bc	42	85	8	4	7	-	1	2-3	4000	1	*
	Renfrew (Abbots L.)	1024·7	- 6	SW	2	bc/x	42	85	8	8	-	-	4-6	4-6	2500	1	*
	Eskdalemuir ...	1024·8	- 6	W	3	x/pr	41	85	8	5	-	6	4-6	4-6	1500	1	*
	Point of Ayre ...	1026·7	- 8	NW	4	c	45	85	7	5	-	-	7-8	7-8	800	0	3
13a	Tiree ...	1024·2	-14	WNW	4	pr	46	85	8	8	-	-	7-8	7-8	1500	1	3
13z	Stornoway ...	1021·1	-12	WSW	4	c/pr	45	92	7	5	7	-	7-8	9	1500	1	2
15	Dalwhinnie ...	1023·5	-18	SW	4	bc	40	85	7	4	1	-	4-6	4-6	2500	0	*
	Aberdeen ...	1020·6	-18	NNW	3	c	44	75	6	5	-	-	9	9	2500	1	1
	Wick ...	1019·2	-10	WNW	3	c/r	43	97	7	8	1	8	7-8	9+	1500	1	1
16	Lerwick ...	1017·0	+ 4	NNW	3	bc	40	85	8	8	-	-	4-6	4-6	1500	1	*
17	Blacksod Point	1028·8	-14	WSW	2	pr	45	85	8	3	4	-	4-6	7-8	1500	1	3
18	Malin Head ...	1026·4	-18	W	3	c	45	97	7	8	-	-	7-8	7-8	1500	1	2
	Aldergrove ...	1027·9	- 8	SW'W	2	c	40	97	7	5	-	-	9	9	4000	1	*
19	Birr Castle ...	1029·9	- 6	SSW	1	c/pr	40	92	7	5	-	-	9+	9+	1500	1	*
20	Valentia Obsy. †	1031·6	-10	-	0	o	41	85	8	5	-	-	10	10	4000	0	1
	Roches Point	1031·2	- 6	N'E	3	Z_o	39	92	6	5	-	-	2-3	2-3	2500	1	2

PAST 24 HOURS.

District	Stations.	Weather. 7h.—18h. 5th. (37)	Weather. 13h.—18h. 5th. (38)	Weather. 18h. 5th to 1h. 6th. (39)	Weather. 1h.—7h. 6th. (40)
1	London (Kew)	cm·r·cm	cm·cm·	cm·	cm·
	Croydon ...	cm·r·df	cf·fd·r·	cf·m·	cm·c·
	S. Farnborough	cm·i·d·c	cr·m·c·	cm·	cm·ir·c
	Boscombe Down	cm·ccm·	cm·om	o	oc
	Calshot (Sthatn.)	bcm·cm·	cm·	cm·c·	cbc
	Lympne ...	ccm·	ccfr·	cd·ff	bcb·wcm
	Manston ...	cr·	cir·m	cmbcm··	cr·bmw
2	Shoeburyness ...	m·r·r·c	r·rr·id·	m·d·bcx	bcxcm·
	Felixstowe ...	cpr·cir·	cir·cm·	cm·bm·	bm·cm·
	Gorleston ...	cpr·c	cpr·cz·	c·bcz·	bcz·z·
	Mildenhall ...	cbccm·	cm·pr·m·	c·bmcffcm	cm·
	Cranwell ...	Fe·id·pr·	cm·mm·b	bm·cmbcm·	bcm·cm·
3	Birmingham ...	r·om	bm	oc	c
4	Upper Heyford	cmr·cfm	cmm·m	cmm·	cm·
	Ross-on-Wye	omcz·	c	c	c
5	Bristol ...	cmm·	cd·r·m·	cm·ir·	cm·
	Portland Bill ...	c	coz·	c	c
	Plymouth ...	cqz·c	cz·	cz·cr·m	cor·mbc
	Scilly (St. Mary's)	c	c	cpr·c	cpr·c·
	Guernsey ...	c	c	cr·c	c
		c	c	co	cpr·c·
6	Pembroke ...	c	pr·c	crqc	cqprc
7	Holyhead ...	ir·c	cr·r·c	cir·bc·c	c
8	Chester (Sealand)	cpr·m·	cz·pr·mbc	bccr·r·m·	bcm·pr·
	Manchester ...	cm·fd·m·	d·cm·	cm·c	cpr·bccm
10	Spurn Head ...	prc	cbc	bcbif	zwc·
	Catterick ...	bcbbc	bccbc	bcb·	b
	Tynemouth ...	bcc	cbc	bc	bc
11	St. Abbs Head ...	c	bcb	bc·	bc
12	Lenchars	bbcxm·bc	cbcz·bc	bcbbcz·	bc cpr6
	Renfrew (Abbots L.)	mfm·c	cpr·	bc	bc
	Eskdalemuir ...	bcxjp	bcpr·	bccpr·	cbcpr·
	Point of Ayre ...	c	c	cbc·	c
13a	Tiree ...	cpr·	cpr	cpr·	cpr
13z	Stornoway ...	cid·id	cidprp·	crr·	cr·r·
15	Dalwhinnie ...	cir	c	*	c
	Aberdeen ...	cz·r·	cr·bc	cz·r·	r·cm·
	Wick ...	cpr·c	cir·	ir·id	cidc
16	Lerwick ...	cpr	cprbc	cbc·	bc
17	Blacksod Point	p·ir	pr·	prc	cq·
18	Malin Head ...	cprc	cprc	cprbc·	c
	Aldergrove ...	cr·bxcr·m·	cm·r·c	cbccm·	cir·c
19	Birr Castle ...	ocpr·c	cpr·	cpr·c	c
20	Valentia Obsy. †	coc	c·bcic	od·d·id	cid·c
	Roches Point	bcc	cbcz·	bcz·c·	cir·

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. P_o 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. ① lunar halo. ⁄ gale.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Ce predominating, and a little cirrus.
(Ce may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.

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

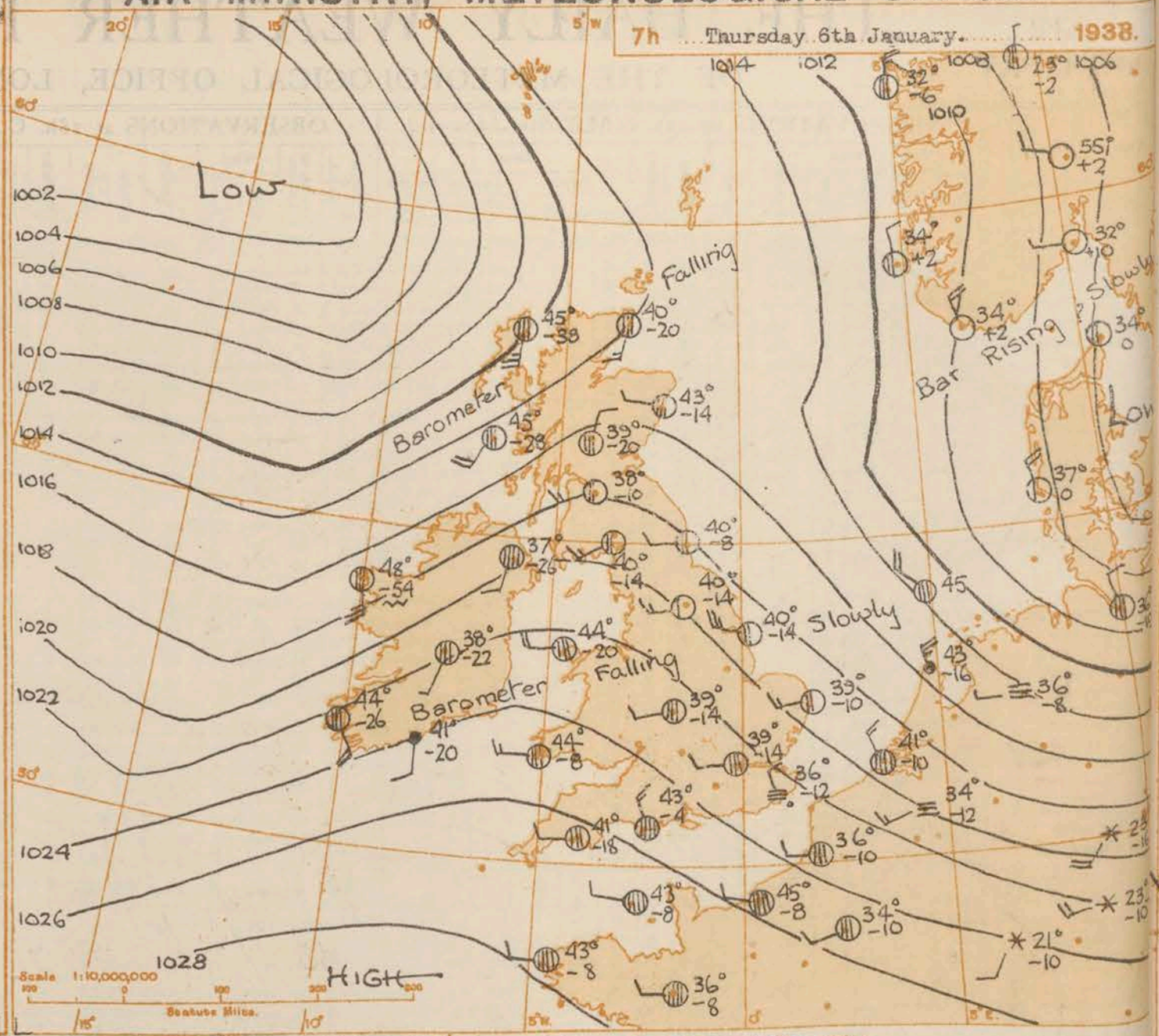
† Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 5th January, 1938.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 4th to 9h. 5th	Temperature. (°F.) Max. 9h.—17h. 5th	Rainfall. (mm.) Night. 17h. 4th to 9h. 5th	Rainfall. (mm.) Day. 9h.—17h. 5th	Sunshine (hrs) Sunrise to Sunset. 5th
1	Tunbridge W.	bccoS	srcod	31	38	Trace	Trace	0·1
	Bournemouth	bbc	co	34	42	–	–	1·6
	Ventnor ...	bozp	bccoz	34	40	–	Trace	2·9
	Southsea ...	bcc	ccp	33	41	–	Trace	0·6
	Bognor Regis	bc	bcc	34	41	–	–	2·3
	Littlehampton	bc	bcc	31	42	–	–	2·5
	Worthing ...	bcbc	bc	33	41	Trace	–	1·8
	Brighton ...	cbc	cbdc	34	41	0·3	Trace	1·4
	Eastbourne† ...	cbcco	o	33	41	0·3	–	1·3
	Hastings† ...	cbc	cbc	33	43	0·3	–	1·2
	Folkestone ..	c	or$_o$m$_o$	34	39	0·5	Trace	0·0
	Dover ...	amrc	cr$_o$om	36	43	0·3	Trace	0·0
	Deal	od$_o$o	o	35	39	–	Trace	0·0
	Ramsgate ...	co	o	37	44	–	–	0·0
	Margate ...	c	cd$_o$	37	40	–	Trace	0·0
2	Southend ...	omcpc	cpco	33	41	Trace	0·3	0·0
	Clacton-on-Sea	cpc	cpcm	33	41	–	0·3	0·3
	Dovercourt ...	oc	doc	32	41	–	0·3	0·0
	Lowestoft ...	cbcc	circ	35	43	0·2	0·1	0·1
	Skegness ...	corro	cbcb	37	42	1	0·5	0·3
	Mablethorpe...	cd$_o$bc	bc	37	42	0·3	0·3	1·0
	Cleethorpes ...	cbc	bc	39	42	0·3	–	2·0
3	Leamington S.	o	o	38	43	–	–	0·0
4	Cheltenham†	mop$_o$c	co	38	42	Trace	Trace	0·0
5	Bath	c	c	37	43	Trace	–	0·1
	Weymouth ...	c	c	38	42	–	–	0·4
	Jersey ...	pcbcc	cbcc	36	41	1	–	2·9
	Torquay ...	cm$_o$o	bcom$_o$	36	44	–	–	0·1
	Falmouth	c	c	34	44	–	–	0·0
	Penzance ...	c	c	36	45	–	–	0·0
	St. Ives ...	o	o	35	40	–	–	0·0
	Bude... ...	o	c	34	44	–	–	0·0
	Ilfracombe ...	ococ	o	42	45	–	–	0·0
6	Aberystwyth	zc	cpr$_o$	39	44	–	0·3	0·0
7	Llandudno ...	cp$_o$e	cr$_o$ir	39	45	–	1	0·2
	Colwyn Bay...	obcc	ccpc	39	43	–	1	0·2
	Rhyl	cm$_o$	cpr	39	43	–	0·5	0·2
8	Wallasey ...	cp$_o$	cp	37	43	Trace	0·5	0·0
	Southport ...	coc	cp$_o$p$_o$	36	42	0·1	Trace	0·1
	Blackpool ...	cm$_o$p	m$_o$cmop	38	43	Trace	Trace	0·2
	Morecambe ...	bbcc	c	35	43	Trace	–	0·2
9	Ilkley... ...	cbc	cbc	36	42	0·6	–	2·1
	Harrogate ...	cbc	bcb	34	43	0·6	–	3·8
10	Berwick-on-T.	bccbc	cbc	35	45	0·1	–	1·8
11	Dunbar ...	bcm$_o$	bcm$_o$	36	43	Trace	–	0·5
12	Troon... ...	cbfc	cbcpc	28	48	–	0·3	0·5
	Douglas ...	bc	bci$_o$	36	45	–	Trace	3·4

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
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 January, 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate westerly winds; mainly fair; average temperature.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Moderate to fresh westerly winds, backing temporarily; cloudy periods; rain at times; rather mild.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Moderate to strong southwest to west winds; cloudy periods, occasional rain; rather mild.
13 A. W. Scotld. ↓ 13 B.N.W.Scotland ↓ 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland ↓ 18 N. E. Ireland ↓	Moderate to strong southerly winds, approaching gale at times at first, veering and moderating later; occasional rain; rather mild.
19 S. E. Ireland 20 S. W. Ireland	Moderate to strong southwesterly winds, veering; bright periods, occasional rain; rather mild.

GENERAL INFERENCE

A trough of low pressure, associated with a deep depression near Iceland, is approaching the British Isles from the Atlantic. Weather will be milder generally than of late with rain at times in the West and North.

FURTHER OUTLOOK.

Rather mild but less settled than of late.

TIMES OF ISSUE OF GALE WARNINGS.

↓ South Cone hoisted at 0830 G.M.T. on 6/1/38 in districts 13A and 13B and part of both districts 17 and 18.

Forecasts issued at 1030 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S.
Director.

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

Hours of observation :—Azores, Greenland, Ships, 7h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

THURSDAY 6TH JANUARY.

1938.

Clarke's Projection Scale 1: 4 x 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Light haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 6th January, 1938.

No. 27804.

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)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0-10 (12)	Cloud. Amount. Total 0-10 (13)	Cloud. Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1025·0	-1·2	WNW	2	z_o	40	85	5	5	-	-	10	10	4000.
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (8h 30m n.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1024·6	-1·4	WNW	3	m/f	35	92	4	5	-	-	2-3	2-3	2500.
	Manston ...	142	1025·6	-1·2	WNW	3	z_o	37	85	5	5	-	-	2-3	2-3	4000.
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1021·5	-2·4	W'S	2	bc	37	85	5	5	-	-	4-6	4-6	2500.
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1026.6	-0·6	NW	3	c	44	85	8	4	4	-	7-8	10	2500.
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1029.3	0	NNW	2	c	42	85	8	8	-	-	7-8	7-8	2500.
	Scilly (St. Mary's)	163	1029.3	-0·6	NW/N	2	c/c	44	85	8	8	7	-	4-6	7-8	2500.
	Guernsey ..	175	1027·6	-0·2	NW/W	2	o	44	65	6	5	-	-	10	10	2500.
6	Pembroke ...	142	1027·2	-0·4	NW	3	q	44	75	8	5	2	-	9	10	2500.
7	Holyhead ...	26	1025·4	-1·4	WNW	4	c	44	85	8	1	2	-	2-3	10	1500.
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1021·0	-1·4	WNW	5	b	39	92	6	-	-	-	0	0	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1020.6	-1·6	W	3	bc	41	85	6	2	-	-	2-3	2-3	1500.
11	St Abb's Head ..	280	1018.5	-2·0	WNW	4	bc	44	75	8	-	4	1	0	4-6	-
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1024.0	-1·4	NW	5	bc	43	85	7	5	-	-	4-6	4-6	1500.
13a	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13b	Stornoway ...	80	1027·7	-1·2	WSW	3	rr	45	97	7	5	2	-	4-6	10	1500.
15	Dalwhinnie ...	1178	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1017·0	-1·2	W	5	id	40	97	6	5	-	-	10	10	800.
16	Lerwick ...	156	1016.8	-4	NNW	3	bc	33	75	8	5	-	-	2-3	2-3	1500.
17	Blacksod Point	18	1024·4	-2·4	SW	5	c	45	85	7	3	-	-	7-8	7-8	800.
18	Malin Head ...	84	1022·2	-2·4	W	3	bc	43	97	7	8	-	-	4-6	4-6	800.
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1028.5	-1·0	S	3	c	43	97	7	5	-	-	3+	3+	1500.
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 6th 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)	Cloud. Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)	1022·5	-1·6	W	3	z_o	40	85	6	5	-	-	10	10	1500.	1	*
	Croydon ...	1023.3	-1·4	W	2	c	39	85	7	5	-	-	10	10	5700	1	*
	S. Farnborough	1023·2	-1·2	W	2	m_o	39	85	5	5	-	-	10	10	2500	1	*
	Boscombe Down	1024·4	-1·8	W'N	3	c	39	92	7	5	-	-	10	10	1500	1	*
	Calshot (8h 30m n.)	1024.1	-1·0	W'N	3	bc	40	92	8	-	7	-	0	4-6	-	1	1
	Lympne ...	1022.7	-1·2	NW	2	m	36	92	4	5	-	-	9	9	4000	1	1
	Manston ...	1021. 5	-1·4	W'N	3	m	37	92	7/4	5	-	-	2-3	2-3	4000	1	*
2	Shoeburyness ...	1021·8	-1·8	W'S	2	c	37	97	5	5	7	-	9	9+	2500	1	*
	Felixstowe ...	1021.1	-1·2	W	3	z_o	38	92	6	5	3	-	4-6	7-8	1500.	1	2
	Gorleston ...	1019.4	-1·0	W'S	3	bc	39	92	5	4	-	-	2-3	2-3	2500.	1	2
	Mildenhall ...	1020.6	-1·0	W	3	c	39	97	7	5	-	-	9+	9+	4000.	1	*
	Cranwell ...	1020.6	-1·2	W'SW	3	z_o	37	97	6	5	-	-	9	9	2500	1	*
3	Birmingham ...	1022.5	-1·4	W'SW	2	c	39	85	7	-	7	-	0	10	-	1	*
	Upper Heyford	1023·2	-1·8	W	3	z_o	38	92	6	5	-	-	10	10	4000.	1	*
4	Ross-on-Wye	1023. 5	-1·2	W	2	c	40	75	9	5	-	-	10	10	2500	1	*
5	Bristol ...	1024·8	-1·6	W	2	z_o	39	92	6	5	-	-	10	10	2500.	1	*
	Portland Bill ...	1024.8	-1·4	NW	3	c	43	85	8	4	-	-	10	10	2500	1	3
	Plymouth ...	1025·9	-1·8	W	2	c	41	92	8	5	7	-	4-6	7-8	4000.	1	0
	The Lizard ...	1026.9	-1·0	WNW	3	c	43	85	8	8	-	-	10	10	2500.	1	2
	Scilly (St. Mary's)	1027·2	-1·2	W'N	3	c	45	75	8	5	7	-	4-6	7-8	2500	1	2
	Guernsey ..	1026.3	-1·8	WNW	2	c	43	75	9	8	-	-	10	10	2500	1	3
6	Pembroke ...	1024.7	-1·8	W'N	3	q	44	65	7	8	2	-	7-8	10	2500	1	3
7	Holyhead ...	1022.1	-2·0	W	4	c	44	75	8	7	-	-	10	10	2500	1	3
	Chester (Sealand)	1022.1	-1·6	W	3	z_o	41	85	6	5	-	-	4-6	4-6	2500.	1	*
8	Manchester ...	1021. 5	-2·2	WNW	2	pr_o	40	97	6	8	-	-	7-8	10	1500.	1	*
10	Spurn Head ...	1018·6	-1·4	WNW	5	bc	40	97	6	5	1	-	4-6	4-6	4000.	1	3
	Catterick ...	1018.3	-1·4	W	3	b	40	85	8	-	6	-	0	1	-	1	*
	Tynemouth ...	1017.7	-1·8	W	2	bc	40	85	7	2	-	-	2-3	2-3	1500.	1	1
11	St Abb's Head ..	1016.3	-1·0	WNW	5	bc	44	75	8	4	4	1	2-3	4-6	4000	0	3
	Leuchars ...	1016.1	-1·0	W'SW	3	bc	38	92	8	5	4	-	2-3	4-6	4000.	1	*
12	Renfrew (Abbotsl.)	1017.4	-1·8	NW	3	bc	42	92	7	5	-	-	4-6	4-6	4000	1	*
	Eskdalemuir ...	1018.1	-1·4	W'SW	3	bc/pr	40	85	7	5	-	-	4-6	4-6	1500.	1	*
	Point of Ayre...	1020.2	-1·8	WNW	4	pr_o	43	85	7	8	-	-	7-8	7-8	1500	0	3
13a	Tiree	1014.5	-1·8	S'W	4	c/pr	45	85	7	8	-	-	7-8	7-8	1500.	1	-
13b	Stornoway ...	1011. 9	-3·8	SSW	5	c	45	85	8	5	7	-	4-6	9+	2500	1	3
15	Dalwhinnie ...	1016.2	-2·0	NE	2	c	39	85	7	4	6	-	7-8	9+	2500	0	*
	Aberdeen ...	1014. 6	-1·4	W'N	1	z_o	43	92	6	5	-	-	9+	9+	2500	1	1
	Wick ...	1013. 3	-2·0	SSW	3	c	40	97	8	5	2	-	7-8	10	800.	1	1
16	Lerwick ...	1014.3	-2·0	NW	2	bc	33	75	8	5	-	-	2-3	2-3	1500.	1	*
17	Blacksod Point	1016.5	-5·4	S	5	c	48	75	7	9	-	-	9	9	800.	0	4
18	Malin Head ...	1016.0	-2·4	S'W	4	c	41	97	7	8	2	-	4-6	9	1500.	1	3
	Aldergrove ...	1020.4	-2·6	SSW	2	c/r	37	92	7	5	-	-	10	10	4000	1	*
19	Birr Castle ...	1022.0	-2·2	SSW	1	c	38	97	8	5	-	-	7-8	7-8	2500.	1	*
20	Valentia Obsy. †	1022.3	-2·6	S'W'S	4	c	44	85	8	5	2	-	4-6	7-8	2500	1	3
	Roches Point	1024.7	-2·0	S	2	m_o	41	92	8	6	-	-	9+	9+	1500	1	2

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 5th. Hrs. (36)
1	London (Kew)	41	38	33	0·1	-	0.0
	Croydon ...	40	39	37	0·1	-	0.0
	S. Farnborough	41	39	37	Tr	Tr	0.5.
	Boscombe Down	41	38	37	-	-	0.0
	Calshot (8h 30m n.)	41	39	38	-	-	1.6.
	Lympne ...	38	34	31	Tr	Tr	0.0
	Manston ...	40	36	34	0·1	Tr	0.0.
2	Shoeburyness ...	41	35	28	0·2	Tr	0.0.
	Felixstowe ...	41	37	34	0·1	-	0.1.
	Gorleston ...	42	35	33	0·2	-	0.5.
	Mildenhall ...	42	34	29	Tr	-	0.1
	Cranwell ...	43	34	31	Tr	Tr	1.3.
3	Birmingham ...	41	38	35	Tr	-	0.0.
	Upper Heyford	41	37	32	0·1	-	*
4	Ross-on-Wye	43	39	35	-	-	0.0
5	Bristol ...	42	39	36	Tr	Tr	0.0.
	Portland Bill ...	43	40	*	-	-	*
	Plymouth ...	44	40	36	-	0·3	0.1.
	The Lizard ...	43	40	*	-	0·4	0.0.
	Scilly (St. Mary's)	45	42	*	-	0·4	0.1
	Guernsey ..	43	41	38	-	0·2	0.7.
6	Pembroke ...	45	41	*	Tr	0·3	0.0
7	Holyhead ...	45	43	40	0·5	Tr	0.0.
	Chester (Sealand)	44	40	36	0·2	0.3	0.0.
8	Manchester ...	42	38	32	Tr	0.4	0.0
10	Spurn Head ...	42	38	*	1	Tr	1·9.
	Catterick ...	44	39	38	-	-	4.3.
	Tynemouth ...	44	40	36	-	-	4.2.
11	St Abb's Head ..	46	42	*	-	-	*
	Leuchars ...	45	37	32	-	Tr	0.4
12	Renfrew (Abbotsl.)	44	38	34	0·1	-	0.0.
	Eskdalemuir ...	45	38	35	Tr	0.1	3.1.
	Point of Ayre...	47	42	*	-	-	2.2.
13a	Tiree	48	44	41	2	1	1·1.
13b	Stornoway ...	46	42	*	2	5	0·6
15	Dalwhinnie ...	42	38	31	0·4	-	0.0.
	Aberdeen ...	44	42	39	Tr	0.4.	0.0
	Wick ...	43	39	*	0·5	1	*
16	Lerwick ...	46	30	*	4	-	0.0.
17	Blacksod Point	47	41	*	0·3	0.1	*
18	Malin Head ...	46	40	*	1	1	0.0
	Aldergrove ...	44	35	31	Tr	Tr	1·8
19	Birr Castle ...	43	38	*	0·2	Tr	0.1.
20	Valentia Obsy. †	45	40	37	-	1	1·4.
	Roches Point	44	37	*	-	0.3	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility 9h. To-day.
Kew	18	cm r cm	cm cm $_o$	cm $_o$	41	38	33	0·1	-	0.0	*	*	5
Croydon	217	cm r d ff	c ff d r $_o$	cm f c	40	39	37	0.1	-	0.0.	*	*	6
Greenwich (Royal Observatory)...	149	c dd d m	c d $_o$ m	cm	41	39	34	0·3	-	0.0	85	84	4.
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	43	40	32	Tr		0.0	89	89.	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	41	35	35	-	-	0.0	83	83.	*
Camden Square	110	o	oc	*	41	35	33	Tr	-	*	*	96.	*
Kensington	95	c	bc	*	42	39	32	Tr	-	0.0.	At 18h. 84	76.	*
Hampstead Observatory	450	bc od	od	o	40	37	28	Tr	-	0.0.	*	92.	*

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.
Paris	1026.2	NNW	2	b	27	1024.2	WSW	2	o	34
Brussels	1025.0	SW	1	m	27	1019.8	WSW	3	f	34
Berlin	1019.6	SW	3	o	19	1007.5	WSW	3	$s_o s_o$	30
Zurich	1022.8	E	1	b	16	1023.6	SSE	1	m	18
Rome	1012.9	NNE	4	bc	32	1015.1	NE	3	bc	25

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
34	25	-	-
28	27	-	-
*	*	-	-
*	*	-	-

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·6	18h 5th	<0·3	4h 6th.

Kew Observatory. Max.	Time.	Min.	Time.
0·3	13h 5th	<0·1	5h 6th

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. GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

† hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 7th January, 1938.
No 27805.

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. Direct. (3)	Wind. Force 0–12 (4)	Weather. (5)	°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)	1020·4	-2·0	W'S	3	Z₀	42	75	6	5	-	-	10	10	2500
	Croydon ...	1021·9	-1·2	W	3	Z₀	41	85	6	5	-	-	10	10	4000
	S. Farnborough	1020·9	-2·2	W'S	2	Z₀	41	85	6	5	-	-	10	10	4000
	Boscombe Down	1021·9	-2·0	W'S	3	c	41	85	7	5	-	-	10	10	4000
	Calshot (Sthmtn.)	1022·3	-1·8	W'S	4	c	43	75	8	5	-	-	9+	9+	4000
	Lympne ...	1021·1	-1·4	W'N	2	Z₀	41	75	6	5	-	-	9+	9+	5700
	Manston ...	1020·1	-·8	W	3	c/r	41	85	5	5	2	-	7-8	10	4000
2	Shoeburyness ...	1020·2	-1·6	WSW	3	m	42	85	4	5	-	-	9+	9+	4000
	Felixstowe ...	1019·3	-1·4	W	4	bc	42	85	7	5	3	-	1	4-6	2500
	Gorleston ...	1017·6	-1·6	WSW	3	c	42	85	6	-	3	-	0	7-8	-
	Mildenhall ...	1018·7	-1·6	W	3	Z₀	43	85	6	5	-	-	9+	9+	4000
	Cranwell ...	1017·9	-2·2	WSW	4	Z₀	41	92	5	5	-	-	Tr	Tr	4000
3	Birmingham ...	1019·1	-2·0	WSW	3	c	41	75	6	-	3	-	0	9+	-
4	Upper Heyford	1020·5	-1·8	W	4	c	41	75	7	5	-	-	9+	9+	4000
	Ross-on-Wye	1020·1	-2·0	SW'W	3	c	42	75	8	5	-	-	9+	9+	2500
5	Bristol ...	1021·7	-2·6	W	2	C	43	85	7	5	-	-	9+	9+	4000
	Portland Bill ...	1021·5	-2·8	W	3	c	44	85	8	4	4	-	7-8	10	2500
	Plymouth ...	1023·2	-2·2	W	3	c/pr	44	85	6	2	7	-	7-8	9+	1500
	The Lizard ...	1023·4	-2·0	SW	4	c	47	75	8	3	6	-	7-8	9+	2500
	Scilly (St. Mary's)	1023·1	-3·2	WSW	4	c/pr	48	85	8	8	7	3	4-6	7-8	1500
	Guernsey ...	1021·4	-1·8	W'N	2	C	48	65	7	8	-	-	9+	9+	2500
6	Pembroke ...	1020·7	-2·4	WSW	5	q	46	65	8	8	7	-	7-8	9	2500
7	Holyhead ...	1016·7	-4·2	SW	5	C	45	75	8	8	-	-	9+	9+	4000
	Chester (Sealand)	1018·1	-3·0	SW'S	3	c	45	65	7	8	-	2	4-6	7-8	4000
8	Manchester ...	1017·8	-2·6	SW'N	3	Z₀	42	85	6	5	3	-	7-8	9	4000
10	Spurn Head ...	1016·2	-2·0	W'N	4	bcf	43	85	3	-	3	-	0	4-6	-
	Catterick ...	1015·2	-2·6	W	3	bc	43	75	9	8	4	2	2-3	4-6	2500
	Tynemouth ...	1014·0	-2·2	W	3	bc	44	75	6	1	5	4	1	2-3	2500
11	St Abbs Head ...	1012·0	-3·6	WSW	3	c	43	75	8	4	5	2	4-6	7-8	4000
12	Leuchars ...	1011·9	-3·0	SW	4	Z₀	42	85	6	5	7	6	2-3	9	4000
	Renfrew (Abbotsl.)	1011·7	-3·8	SW'S	2	Z₀	43	85	6	5	2	-	7-8	10	2500
	Eskdalemuir ...	1013·4	-3·0	SW	4	c	40	85	7	5	-	-	9+	9+	800
	Point of Ayre ...	1014·5	-3·4	WSW	5	c	45	85	7	8	4	-	4-6	7-8	1500
13a	Tiree	1005·8	-5·2	SSW	6	rr	44	92	6	6	2	-	9	10	800
13s	Stornoway ...	1004·3	-3·6	SSW	7	r₀r₀	45	92	6	8	2	-	7-8	10	1500
15	Dalwhinnie ..	1010·6	-4·4	S	4	i₀	39	85	6	5	2	-	7-8	10	1500
	Aberdeen ...	1009·4	-3·6	SW	1	c	44	75	7	5	9	9	Tr	7-8	5700
16	Wick ...	1005·0	-3·0	S	3	C	43	92	8	5	9	-	4-6	9	1500
	Lerwick ...	1008·4	-3·8	SSE	3	pr₀	36	85	8	8	2	-	7-8	9+	1500
17	Blacksod Point	1009·0	-2·8	WSW	5	q	47	85	8	9	-	-	10	10	800
18	Malin Head ...	1007·4	-4·0	S	4	C	43	97	7	9	-	-	9+	9+	800
	Aldergrove ...	1012·4	-4·8	S	4	ir	40	92	6	6	2	-	Tr	10	800
19	Birr Castle ...	1013·8	-4·4	SW	2	c/r	42	92	7	6	2	-	4-6	10	1500
20	Valentia Obsy. †	1015·3	-4·4	SW	5	c/r	49	85	8	5	-	-	9+	9+	1500
	Roches Point	1017·2	-3·8	SW	3	r₀r₀	47	92	7	6	2	-	7-8	10	1500

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

District.	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direct. (17)	Wind. Force 0–12 (18)	Weather. (19)	°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)	1017·2	-2·0	SW'S	3	Z₀	41	85	6	5	-	-	10	10	4000	1	*
	Croydon ...	1017·9	-2·0	SW'W	3	Z₀	41	85	6	5	-	-	9+	9+	4000	1	*
	S. Farnborough	1017·6	-2·0	SW'S	3	c	40	85	6	5	-	-	9+	9+	4000	1	*
	Boscombe Down	1017·6	-1·6	SSW	3	c	40	85	6	5	-	-	9	9	4000	1	*
	Calshot (Sthmtn.)	1018·9	-2·0	SW	3	c	42	85	8	5	7	-	7-8	10	4000	1	2
	Lympne ...	1018·4	-1·4	WSW	3	Z₀	38	85	6	5	-	-	9+	9+	4000	1	1
	Manston ...	1017·9	-1·0	WSW	2	Z₀	40	85	5	5	-	-	10	10	4000	1	*
2	Shoeburyness ...	1017·6	-1·4	WSW	3	m	41	75	4	5	-	-	9+	9+	4000	1	*
	Felixstowe ...	1016·9	-1·4	SW	2	Z₀	41	85	5	5	-	-	9+	9+	2500	1	2
	Gorleston ...	1015·7	-·8	SW	2	c	40	85	6	5	-	-	10	10	2500	1	2
	Mildenhall ...	1015·6	-1·8	SW	3	Z₀	40	85	6	5	-	-	10	10	4000	1	*
	Cranwell ...	1014·1	-2·6	S'W	3	Z₀	36	92	6	-	5	-	0	2-3	-	1	*
3	Birmingham ...	1013·8	-3·6	S	2	c	39	85	6	-	3	-	0	9	-	1	*
4	Upper Heyford	1016·5	-2·2	SW	3	c	39	85	6	5	3	-	9	9+	2500	1	*
	Ross-on-Wye	1014·7	-2·6	SSW	3	c	42	85	6	5	-	-	10	10	1500	1	*
5	Bristol ...	1016·5	-3·0	SW	3	c	42	85	7	5	-	-	9+	9+	2500	1	*
	Portland Bill ...	1017·3	-2·0	WSW	3	c	45	85	8	4	7	-	7-8	10	2500	1	3
	Plymouth ...	1017·8	-3·0	SW	4	Z₀	48	75	6	8	7	-	4-6	9+	4000	1	1
	The Lizard ...	1017·9	-2·0	WSW	5	c/pr	46	92	8	8	2	-	9	10	2500	1	3
	Scilly (St. Mary's)	1017·2	-3·2	WSW	6	c/r₀r₀	48	85	7	8	2	-	7-8	10	1500	1	3
	Guernsey ...	1022·3	-1·6	SW	2	C	45	85	7	8	-	-	9+	9+	2500	1	2
6	Pembroke ...	1012·5	-3·2	SW'W	6	c/r	46	92	7	8	2	-	9	10	2500	1	4
7	Holyhead ...	1009·0	-4·2	SW'S	5	c/r	46	85	7	6	2	-	4-6	10	1500	1	2
	Chester (Sealand)	1011·4	-4·2	SSE	3	Z₀	42	75	6	5	-	-	10	10	2500	1	*
8	Manchester ...	1012·0	-3·6	S'W	4	ir₀	41	85	6	5	2	-	4-6	10	2500	1	*
10	Spurn Head ...	1013·2	-2·2	SSW	3	bc	38	92	6	5	3	-	4-6	4-6	4000	0	3
	Catterick ...	1009·7	-3·6	S'E	2	c	42	85	8	5	-	-	10	10	1500	1	*
	Tynemouth ...	1008·7	-3·2	SW	3	c	41	75	6	2	7	-	4-6	7-8	1500	1	2
11	St Abbs Head ...	1005·3	-4·6	SSW	4	ir₀	40	92	8	8	7	-	4-6	7-8	2500	0	2
12	Leuchars ...	1004·6	-3·8	SSW	3	Z₀	42	85	6	5	-	-	9+	9+	2500	1	*
	Renfrew (Abbotsl.)	1004·6	-4·0	S'W	3	r₀r₀	40	92	5	5	-	-	10	10	2500	1	*
	Eskdalemuir ...	1006·1	-4·2	SW'S	6	rr	39	97	6	-	2	-	10	10	450	1	*
	Point of Ayre ...	1006·5	-5·0	SW'W	5	c	45	85	7	8	-	-	9	9	800	1	3
13a	Tiree	999·8	-2·6	SW	2	c/pr	42	92	7	3	-	3	4-6	7-8	1500	1	3
13s	Stornoway ...	998·8	-2·0	SSW	3	C	43	92	7	8	7	-	4-6	7-8	2500	1	2
15	Dalwhinnie ..	1001·3	-4·0	S	6	ir₀	37	92	7	3	6	-	2-3	4-6	2500	1	*
	Aberdeen ...	1003·2	-3·8	SSW	3	C	40	85	6	5	9	-	2-3	9	4000	1	1
16	Wick ...	1000·8	-3·0	S	S	c	44	85	8	5	2	-	7-8	9+	1500	1	2
	Lerwick ...	1002·7	-2·4	S	4	ir₀	43	92	7	6	2	-	7-8	10	800	1	
17	Blacksod Point	1004·0	-2·8	W	S	q	45	85	8	9	-	-	7-8	7-8	450	1	4
18	Malin Head ...	1001·2	-4·6	SSW	4	c/p	43	97	7	9	-	-	7-8	7-8	800	1	3
	Aldergrove ...	1005·0	-3·4	SSW	4	bc	42	92	7	5	-	-	2-3	2-3	2500	1	*
19	Birr Castle ...	1008·2	-2·8	SW	3	c/pr	43	85	8	3	7	-	2-3	7-8	1500	1	*
20	Valentia Obsy. †	1011·1	-2·0	W'S	5	pr₀	48	75	8	9	-	-	7-8	7-8	1500	1	3
	Roches Point	1011·7	-2·2	W	4	bc	45	85	8	6	-	-	4-6	4-6	1500	1	3

PAST 24 HOURS.

Weather. 7h.—18h. 6th. (37)	Weather. 18h.—18h. 6th. (38)	Weather. 18h. 6th. to 1h. 7th. (39)	Weather. 1h.—7h. 7th. (40)
cm₀	cz₀cm₀	cr₀cm₀	cr₀cm₀
cm₀	cm₀z₀	bcm d r₀	cr₀bc
cir₀cm₀	cm₀c	~~cb d r r~~ c	bcm₀
c	c	cr r₀ i₀ c	cir₀cbc
bcc	c	r₀ cr r r.	crrcbc d
cmm₀	cm₀	cbcm₀ r₀	cr r r bc
cbmir₀	cm₀	cbccm₀r₀	cr₀r₀bc.
cm₀m	cm	cmb,cr₀	cr₀bbc
cm₀bc	bcbcm₀cm	cmbcm₀cm	cm₀r₀bcm
bccz₀	cbccz₀	cz₀z₀	corbc.
cbccm₀	cm₀	cbccr₀r	crm₀b.
cm₀bcm₀bm₀bbcm₀cb	bcpr₀PR.	cbcrb	
c	c	cir₀	c
cm₀c	c	cr₀m₀	cbcm₀
cVc	c	r₀oPbc	cbc
cm₀	c	r₀r₀bcpr₀	bcpr₀
c	c	orr	oc
cr₀pr₀m	cpr₀ir₀z₀	cm₀rrPR	cpr₀pr₀
cpr₀c	cbcpr	crrpr	cPRq.
cp₀	cpr₀	r₀r₀p₀	pqpq.
cir₀	cprc	cprr.	rrPR.
cqpr₀V	cqirc	cPRqc	bccq
pr₀Vc	5rrc	cr₀b.	bcc.
bcm₀cpr₀z	bccz₀	czmrRbcb	bm₀
r₀r₀p₀C	ccr₀m₀	cr₀rrc	bccm₀
cmff	ffc	orrc	cbc
bbc	bcpr₀c	i₀qPR.	cqpr₀bc
bc	bcc	cp₀bcp.	bc.
bcc	cpr₀	bc.	c,bc.
bcmfz₀	cz₀	zmr₀cm₀	cmr₀r₀c
bcprcm₀	cmr₀r₀	cr₀bcm₀	bcpr₀m₀
bcc	pir₀	orra	oir
c	crrc	c	bcir₀
drr	rrcPR	bcPR	cprbc
cprr₀r₀	r₀r₀rrc	cbcpr₀	bc
ciro	ciro	*	cir
cfbc	bccz₀	orrbc	bccpr₀
c	c	c	c
cir₀	cir₀	cir₀pr₀	cpr
prcq	prcq	PRcq	PRcq
circ	cprc	cprcqpr	cPRbc.
coiro	or₀r₀cbc	bcb,c	cr₀iR
cir	cirpr	cpr.	cpr
r₀r₀irr₀c	pr₀qpr₀	pr₀qc	cpr₀qc
cr₀r₀	cirbc	bc	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ◑ lunar halo. ⁄ gale.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 3 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.

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

† Sea disturbance reported from Dungeness.

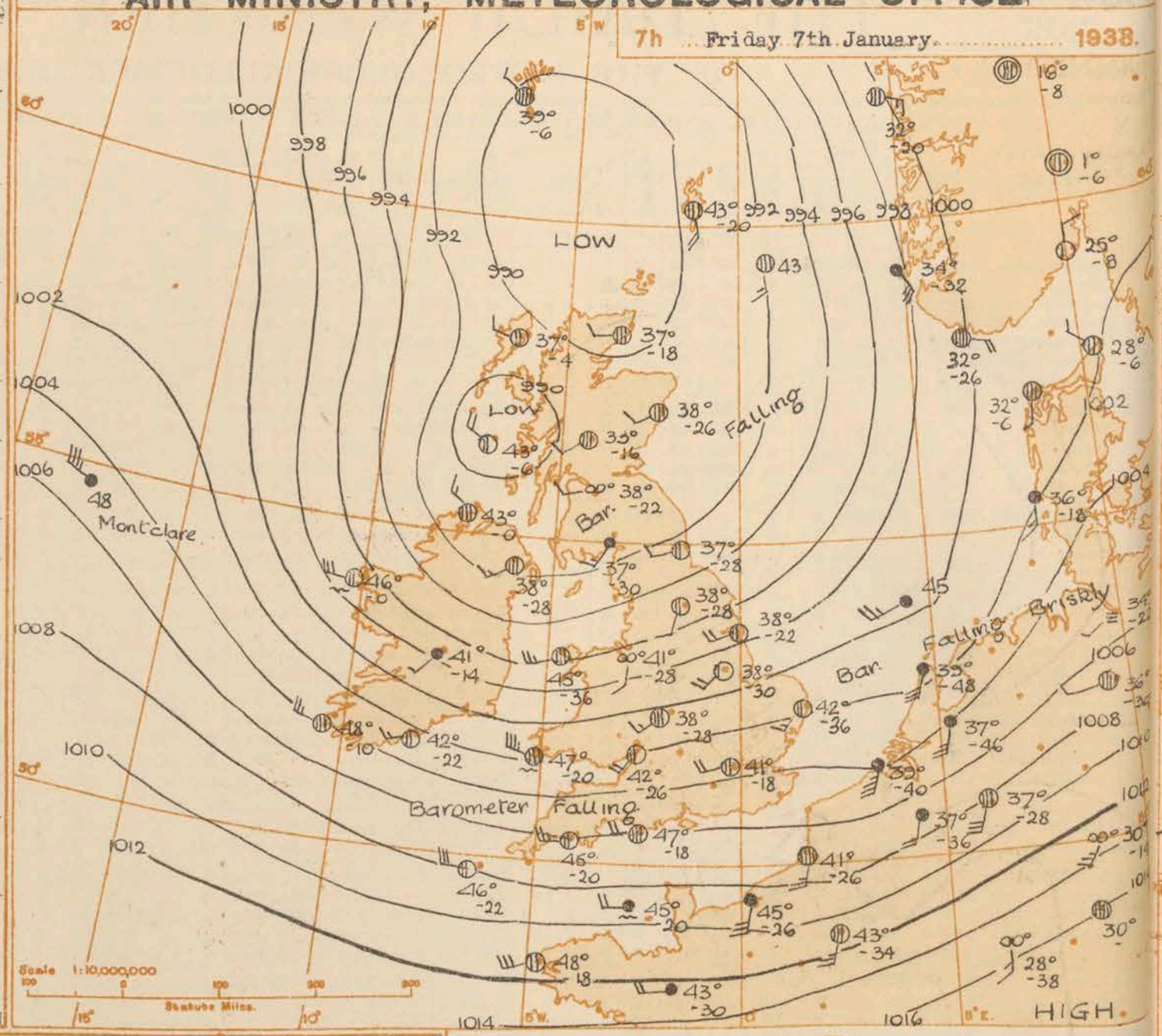
REPORTS from HEALTH RESORTS for 6th January 1938.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature (°F.) Min. 9h. 5th to 9h. 6th	Temperature (°F.) Max. 9h.—17h. 6th	Rainfall (mm.) Night. 17h. 5th to 9h. 6th	Rainfall (mm.) Day. 9h.—17h. 6th	Sunshine (hrs.) Sunrise to Sunset. 6th.
1	Tunbridge W.	o	o	33	41	Trace	Trace	0·0
	Bournemouth	oc	co	35	45	-	-	0·4
	Ventnor ...	ov	ov	36	43	-	-	0·0
	Southsea ...	c	c	35	44	-	-	0·0
	Bognor Regis	o	o	35	43	-	-	0·0
	Littlehampton	o	o	33	43	-	-	0·0
	Worthing ...	c	c	34	43	Trace	-	0·0
	Brighton ...	c	c	35	43	-	-	0·0
	Eastbourne† ...	o	o	40	43	-	-	0·0
	Hastings† ...	oco	c	37	41	-	-	0·0
	Folkestone ...	o	o	35	42	Trace	-	0·0
	Dover ...	or$_o$	oir$_o$	37	43	0·3	Trace	0·0
	Deal	mo	o	37	42	-	-	0·0
	Ramsgate ...	oc	bcc	38	42	-	-	0·0
	Margate ...	cd$_o$	c	38	43	-	Trace	0·0
2	Southend ...	omc	om	35	41	Trace	-	0·0
	Clacton-on-Sea	cm$_o$c	cbcc	35	43	-	-	0·5
	Dovercourt ...	oc	bcc	36	42	Trace	-	1·7
	Lowestoft ...	cbcb	bbcc	33	44	-	-	2·2
	Skegness ...	cbc	bcc	32	42	Trace	-	5·4
	Mablethorpe...	cbcc	bcc	35	44	-	-	1·9
	Cleethorpes ..	mcbc	bc	36	44	Trace	-	1·8
3	Leamington S.	c	o	35	43	-	-	0·0
4	Cheltenham†	c	c	37	43	Trace	-	0·0
5	Bath	c	c	39	44	Trace	-	0·0
	Weymouth ...	c	c	39	46	-	-	0·5
	Jersey ...	pcbc	crc	37	44	Trace	2	0·3
	Torquay ...	bcm$_o$c	bccp$_o$	37	47	-	Trace	0·7
	Falmouth	rococ	cporo	40	47	0·3	0·4	1·0
	Penzance ...	pccpc	cbcpc	41	48	0·5	0·5	0·7
	St. Ives ...	pr	pr	36	42	1	4	0·0
	Bude... ...	c	cpc	40	47	1	1	0·2
	Ilfracombe ...	ocbcp	cbcpc	42	46	0·2	1	0·6
6	Aberystwyth	pr$_o$c	cpr$_o$	41	45	1	1	0·1
7	Llandudno ...	cp$_o$c	cr$_o$c	41	47	1	Trace	0·9
	Colwyn Bay...	cbc	cpc	41	47	0·5	Trace	1·0
	Rhyl	bc$_o$bc	bcc	40	47	1	-	1·9
8	Wallasey ...	cirbc	c	39	45	0·5	0·3	0·5
	Southport ...	prcoc	cocp$_o$	37	43	2	0·2	0·7
	Blackpool ...	cp$_o$bc	cm$_o$v	41	44	0·5	Trace	0·1
	Morecambe ...	cbcc	c	36	43	1	Trace	0·0
9	Ilkley... ...	bc	cp$_o$c	36	42	Trace	Trace	2·3
	Harrogate ...	b	bbccp	34	43	-	Trace	3·8
10	Berwick-on-T.	bbc	c	35	44	-	-	3·9
11	Dunbar ...	bcm$_o$	cm$_o$	37	45	-	-	2·0
12	Troon... ...	cocor	orora	39	49	0·3	2	0·0
	Douglas ...	bdr$_o$	bcir	38	45	0·3	4	0·4

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Friday 7th January. 1938.



Barometer. Isobars are drawn for intervals of two millibars.
Wind, Weather Symbols. For explanation see opposite page.
Sea Disturbance. ~ Rough ≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 7th January, 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate to strong westerly winds; showery and bright periods; rather mild.
4 W. Midlands ...	Moderate to strong westerly winds, stronger locally at first, occasional rain; bright periods; average temperature.
5 S.W. England 6 South Wales ... 7 North Wales ...	Moderate to strong west to northwest winds; showery and bright periods; rather mild.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light variable winds, freshening from northwest; showery and bright periods; average temperature.
13 ~~A. W. Scotld.~~ ~~B.N.W.Scotland.~~ 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Light variable to north or northwest winds; showery and bright periods; sleet, perhaps snow on high ground; becoming temporarily colder.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 5 - 9

GENERAL INFERENCE

A complex depression covering the British Isles will move southeastwards. Weather will be changeable with bright and showery periods in most areas. On the high ground in Northern Scotland there will be snow at times.

FURTHER OUTLOOK.

Changeable.

Times of issue of Gale Warings.

South Cone hoisted 0830 6/1/38 in district 17.
South Cone hoisted 1900 6/1/38 in districts 5, 6, 7, 19, 20.

Forecasts issued at 10.30. G.M.T.

GEORGE C. SIMPSON, K.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.

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

FRIDAY 7TH JANUARY.

1938.

Clarke's Projection Scale 1: 4 X 10⁷ along meridian at 55° N.

Statute Miles 0 100 200 300 400 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—○

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. $ Sleet. , Hail. ≡ Fog. ≈ Mist. ϟ Thunder. L Thunderstorm. ∞ Slight haze.

This hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 7th January 1938.
No. 27805.

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	1009.3	-48	SW'S	4	c/r	43	92	7	5	-	-	9	9	4000.
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	348	1010.5	-50	SW'S	5	ir.	43	92	7	5	-	-	10	10	450.
	Manston ...	142	1009.9	-46	SW'W	5	c/r	43	85	7	5	-	-	10	10	4000.
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1007.6	-40	S	4	c	58	85	6	5	-	-	7-8	7-8	2500.
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	221	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	269	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1008.3	-40	WSW	4	o	47	92	7	5	-	-	10	10	1500.
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1010.4	-20	W	6	bc/pr	47	85	8	9	-	-	4-6	4-6	2500.
	Scilly (St. Mary's)	163	1010.7	-20	W'N	6	pr.	47	85	8	9	-	-	7-8	7-8	1500.
	Guernsey ...	175	1012.5	-40	SW	5	rr	47	92	6	5	-	-	10	10	1500.
6	Pembroke ...	142	1005.5	-18	W	6	q	46	75	7	8	-	-	7-8	7-8	2500.
7	Holyhead ...	28	1001.5	-26	WSW	5	bc	44	92	7	1	-	-	2-3	2-3	2500.
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1002.8	-30	SSW	5	bc	39	97	7	5	-	-	4-6	4-6	2500.
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	999.5	-26	SW	3	bc/pr	39	85	6	9	-	-	4-6	4-6	800
11	St Abbs Head	280	997.9	-20	SW	3	bc	38	92	8	-	4	-	0	4-6	-
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	999.5	-40	WN	5	c	43	85	7	5	-	-	7-8	7-8	800.
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	999.5	-28	SW	1	bc	39	92	8	5	7	-	4-6	4-6	2500.
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	998.8	-32	SW	4	c	41	85	8	5	7	-	4-6	7-8	1500.
16	Lerwick ...	156	994.3	-34	S	5	c	44	85	7	8	7	-	4-6	7-8	800.
17	Blacksod Point	18	999.3	-24	W	6	q	44	92	7	9	-	-	10	10	450.
18	Malin Head ...	84	994.1	-42	SW	4	c/pr	42	97	7	9	2	-	7-8	9	800.
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1006.0	-10	W	7	PR.	45	97	8	3	-	-	2-3	2-3	1500.
	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)	1002.5	-18	SSW	3	z_o	40	92	6	5	-	-	9	9	1500	1	*
	Croydon ...	1003.5	-18	WSW	4	bc	41	85	8	5	-	-	2-3	2-3	1500.	1	*
	S. Farnborough	1003.0	-18	WSW	3	bc	40	92	5	5	-	-	4-6	4-6	4000	1	*
	Boscombe Down	1003.5	-20	WSW	4	bc	39	85	7	-	7	-	9	2-3	-	1	*
	Calshot (Sthmtn.)	1005.5	-18	WSW	3	c	42	92	7	5	3	-	7-8	7-8	2500	1	3
	Lympne ...	1004.0	-26	WSW	3	c/pr	42	92	8	5	-	-	9	9	1500.	1	3/2
	Manston ...	1003.0	-26	SW	4	bc	41	92	8	5	-	-	2-3	2-3	1500.	1	*
2	Shoeburyness ...	1002.9	-10	SW	2	bc	41	92	7	5	4	-	2-3	2-3	1500	1	*
	Felixstowe ...	1002.0	-28	SSW	3	z_o	41	97	6	5	-	-	4-6	4-6	1500	1	2
	Gorleston ...	1001.1	-36	SW'S	3	bc	42	92	7	5	-	-	4-6	4-6	2500	1	2
	Mildenhall ...	1000.2	-24	SW	4	b	39	92	8	5	-	-	1	1	4000.	1	*
	Cranwell ...	998.8	-30	SW	4	b	38	92	7	5	-	-	1	1	2500	1	*
3	Birmingham ...	1000.3	-28	SW	3	c	38	85	8	5	-	-	7-8	7-8	1500	1	*
	Upper Heyford	1001.7	-22	SW	3	b	36	97	6	5	-	-	1	1	2500	1	*
4	Ross-on-Wye	1000.9	-26	SW	4	q	42	75	8	7	-	-	2-3	2-3	2500	1	*
5	Bristol ...	1002.7	-32	SSW	3	pr.	40	92	7	8	-	-	4-6	4-6	1500	1	*
	Portland Bill ...	1006.9	-18	W	4	c	47	85	8	4	7	-	7-8	9	1500	1	3
	Plymouth ...	1005.7	-20	W	5	bc/pr	45	85	8	9	-	-	4-6	4-6	1500	1	3
	The Lizard ...	1007.1	-10	W	7	bc/pr	45	85	8	8	-	-	4-6	4-6	2500	1	3
	Scilly (St. Mary's)	1006.7	-22	W'N	6	bc/pr	46	85	8	8	-	-	2-3	2-3	1500	1	3
	Guernsey ...	1008.0	-20	W	4	pr	45	85	8	5	-	-	7-8	7-8	2500	2	4
6	Pembroke ...	1001.6	-20	W'N	7	q	47	75	8	8	-	-	9+	9+	2500	1	4
7	Holyhead ...	995.4	-36	SW'W	5	c	45	92	8	8	2	-	7-8	10	500	1	3
	Chester (Sealand)	996.8	-28	S'W	2	z_o	41	85	6	5	-	-	2-3	2-3	2500	1	*
8	Manchester ...	996.7	-34	S'W	3	c	38	85	6	5	3	36	2-3	7-8	2500	1	*
10	Spurn Head	997.0	-22	SW'W	4	bc	38	97	7	5	-	-	4-6	4-6	4000	1	3
	Catterick ...	994.2	-28	SSW	2	bc/pr	38	92	8	9	-	-	4-6	4-6	1500	1	*
	Tynemouth	993.4	-28	WSW	2	bc	37	92	6	5	-	-	2-3	2-3	1500	1	1
11	St Abbs Head	990.9	-20	SW	3	bc	37	97	8	4	4	-	2-3	4-6	7200	1	2
	Leuchars ...	990.8	-20	WSW	1	c	37	92	7	5	7	-	7-8	7-8	1500	1	*
12	Renfrew (Abbots I.)	991.6	-22	W'S	2	z_o	38	97	6	5	-	-	7-8	7-8	2500	1	*
	Eskdalemuir ...	991.3	-30	SW'S	3	ir.	37	97	6	6	-	-	10	10	800	1	*
	Point of Ayre ...	992.2	-20	W'N	5	ir.	43	85	7	8	-	-	7-8	7-8	800	1	3
13A	Tiree	989.9	-6	NW'N	4	bc	43	85	8	8	-	-	4-6	4-6	1500	1	*
13B	Stornoway ...	990.9	-4	WNW	2	bc	37	97	8	5	7	-	4-6	4-6	2500	1	1
15	Dalwhinnie ...	990.9	-16	SW	2	c	33	92	7	4	4	-	4-6	9	2500	1	*
	Aberdeen ...	990.3	-26	SW'S	2	c/pr	38	92	6	5	-	-	9+	9+	2500	1	1
	Wick ...	989.3	-18	W	2	c	37	92	8	5	1	-	7-8	9+	1500	1	1
16	Lerwick ...	990.5	-20	SSE	4	c/pr	43	85	8	8	7	-	4-6	7-8	1500	1	*
17	Blacksod Point	997.4	0	W	6	q	46	75	8	9	-	-	4-6	4-6	1500	1	4
18	Malin Head ...	990.5	0	NW	3	c	43	92	7	8	-	-	7-8	7-8	800	1	2
	Aldergrove ...	991.8	-28	SW	3	c/r	38	92	7	6	-	-	9+	9+	800	1	*
19	Birr Castle ...	993.2	-14	SW	1	pr	41	92	7	3	7	-	4-6	7-8	1500	1	*
20	Valentia Obsy. †	1004.4	-10	WNW	5	c/pr	48	75	8	9	-	-	7-8	7-8	2500.	1	3
	Roches Point	1002.5	-22	W'S	3	bc	42	92	8	3	-	-	2-3	2-3	1500	1	3

PAST 24 HOURS.

District	Stations	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 6th Hrs.
1	London (Kew)	42	39	36	-	1	0.0.
	Croydon ...	41	39	37	-	0.4	0.0.
	S. Farnborough	42	38	34	Tr.	0.6	0.0.
	Boscombe Down	42	38	35	-	0.5	0.1.
	Calshot (Sthmtn.)	43	41	38	-	2	0.0.
	Lympne ...	41	36	31	-	6	0.0
	Manston ...	42	36	32	Tr	Tr	0.0.
2	Shoeburyness ...	42	39	35	-	0.2	0.0
	Felixstowe ...	42	39	37	-	0.2	1.8.
	Gorleston ...	44	38	36	-	1	1.4
	Mildenhall ...	43	39	34	-	1	0.3.
	Cranwell ...	42	36	32	-	1	4.7.
3	Birmingham ...	42	37	35	-	0.1	0.1.
	Upper Heyford	42	36	32	-	0.2.	*
4	Ross-on-Wye	43	40	35	-	2	0.1.
5	Bristol ...	45	40	37	-	2	0.4.
	Portland Bill ...	46	43	*	-	4	*
	Plymouth ...	48	44	39	0.2	3	0.6.
	Scilly (St. Mary's)	48	42	*	1	8	1.7.
	Guernsey ...	50	43	*	0.3	5	1.6.
6	Pembroke ...	48	44	39	2	11	0.6.
7	Holyhead ...	47	45	*	1	2	0.1.
	Chester (Sealand)	46	43	41	3	0.2	0.1
8	Manchester ...	46	39	33	0.2	3	1.7.
10	Spurn Head	43	38	34	1	3	0.1.
	Catterick ...	45	37	*	-	0.5	1.2.
	Tynemouth	45	37	32	Tr	3	5.1.
11	St Abbs Head	44	37	32	-	0.3	4.5.
	Leuchars ...	46	36	*	Tr	0.1	*
12	Renfrew (Abbots I.)	44	36	32	-	0.5	2.7.
	Eskdalemuir ...	43	37	34	2	0.6	0.1
	Point of Ayre ...	41	36	34	1	5	0.0.
13A	Tiree	47	40	*	2	0.5	0.6.
13B	Stornoway ...	46	38	34	5	2.5	0.0
15	Dalwhinnie ...	46	36	*	3	Tr.	0.0.
	Aberdeen ...	40	33	30	0.1	2	0.0.
	Wick ...	44	37	32	-	3	0.0.
16	Lerwick ...	44	36	*	0.2	0.1	*
17	Blacksod Point	43	38	*	4	7	*
18	Malin Head ...	45	39	*	2	6	0.0
	Aldergrove ...	42	37	35	2	3	0.1.
19	Birr Castle ...	45	39	*	2	3	1.2
20	Valentia Obsy. †	49	44	40	4	3	1.0.
	Roches Point	47	40.	*	2	-	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
Kew	18	cm.	cz.cm.	cr.cm.	42	39	36	-	1	0.0	*	*	6.
Croydon	217	cm.	cm.z.	bcr.mr.	41	39	37	-	0.4	0.0.	*	*	6
Greenwich (Royal Observatory)...	149	cm	cm	crcb.	42	40	34	-	1	0.0	76	83	5.
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	46	41	36			0.0	80	89.	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	45	40	37	Tr	1	0.0	74	83.	*
Camden Square	110	c	c	*	44	40	36	-	1	*	*	87.	*
Kensington	80	bcz	coc	*	42	40	33	-	1	0.0	81 18h.	84.	*
Hampstead Observatory	450	0	0	orbc	40	38	32	-	1	0.0.	*	86.	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington.

Max.	Time.	Min.	Time.
0.6	16h 6th	<0.3	1-3h 7th.

Kew Observatory.

Max.	Time.	Min.	Time.
0.3	11h 6th	<0.1	00-07h 7th

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.
Paris	1021.7	WSW	3	z_o	37	1011.5	SSW	5	c.	43
Brussels	1017.4	WSW	1	z_o	37	1006.6	SSW	4	r.r.	37
Berlin	1009.7	NW	3	c	32	1009.9	SSW	2	m.	16
Zürich	1021.8	NNW	1	sf	23	1019.6	WNW	1	ss.	30
Rume	1012.5	N	3	b	32	1012.1	NE	3	b	24

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
43	37	Tr.	1
37	37	-	1
36	14	2.	Tr.
*	*	3.	7
*	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

0 Calm.	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.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

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

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

§ See disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Saturday 8th January, 1958.
No. 7806.

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)	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	999.4	+2	W	4	b	39	85	7	-	-	-	0	0	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Stthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	999.9	+8	WSW	5	b	55	92	7	5	-	-	Tr	Tr	4000.
	Manston ...	142	998.1	+6	WSW	4	c/pr	41	75	6	5	-	-	9	9	4000.
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	995.9	+6	SWW	3	9/pr	39	85	6	6	-	-	10	10	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1001.5	+6	WNW	3	b	46	75	8	-	-	-	0	0	-
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1004.3	-6	W'N	5	bc	47	75	8	8	-	-	4-6	4-6	2500.
	Scilly (St. Mary's)	163	1004.7	-10	W'N	5	a.d.	48	75	8	5	2	-	7-8	10	1500.
	Guernsey ..	175	1004.7	+2	W'N	4	bc	47	85	7	1	-	-	2-3	2-3	2500
6	Pembroke ...	142	1001.6	-4	WNW	5	q	47	85	8	8	4-	-	4-6	4-6	2500
7	Holyhead ...	26	997.2	-2	W	5	c	45	85	8	2	-	-	7-8	7-8	2500.
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	994.3	+8	NNW	5	bc	39	85	6	5	-	-	4-6	4-6	4000
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	993.3	+2	W	3	b	36	85	7	-	-	-	0	0	-
11	St. Abb's Head .	260	991.4	0	WNW	4	bc	40	75	8	-	4	-	0	2-3	-
12	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	995.8	+2	NW	5	c	43	92	8	8	-	-	7-8	7-8	1500.
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	992.7	0	WSW	3	bc	36	92	8	5	7	-	4-6	4-6	2500
15	Dalwhinnie ...	1178	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	989.4	+4	NW	3	c	37	97	8	5	7	-	4-6	7-8	1500.
16	Lerwick ...	156	991.3	+4	SE	3	c	41	85	8	8	-	-	7-8	7-8	1500.
17	Blacksod Point	18	998.6	-20	-	0	bc	44	92	7	9	-	-	4-6	4-6	800.
18	Malin Head ...	84	994.4	0	W	2	bc	43	97	7	0	-	-	4-6	4-6	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1000.0	-14	SW	4	d.d.	48	97	7	5	-	-	10	10	1500.
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 8th 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)	Sc. 0-9 (30)
1	London (Kew)	998.9	-4	SSW	2	2o	37	92	5	5	-	2	2-3	7-8	1500.	1	*
	Croydon ...	999.3	-2	WSW	4	b	39	92	7	5	4	-	1	1	4000	1	*
	S. Farnborough	999.1	-10	NE~~N~~	3	bc	35	97	7	-	5	2	0	4-6	-	1	*
	Boscombe Down	999.3	-14	W'S	3	c	36	92	7	5	4	-	7-8	9	2500.	1	*
	Calshot (Stthmtn.)	1000.9	-8	WSW	3	bc	40	92	8	5	3	-	2-3	4-6	4000	1	2
	Lympne ...	1000.0	-6	W'S	3	c	35	92	8	5	-	-	7-8	7-8	4000	1	5-1
	Manston ...	998.7	-2	WSW	3	bc	36	85	8	5	-	-	4-6	4-6	4000	1	*
2	Shoeburyness...	998.5	-12	WSW	3	c	39	92	6	5	7	-	4-6	9+	2500.	1	*
	Felixstowe ...	997.7	+2	WSW	2	bc	37	85	7	5	3	-	2-3	4-6	2500	1	2
	Gorleston ...	997.0	0	SWW	2	bc	39	85	6	4	-	-	4-6	4-6	2500	1	2
	Mildenhall ...	996.8	0	SWW	4	9/pr	37	97	7	8	7	-	2-3	9+	4000	1	*
	Cranwell ...	996.5	0	SWW	3	c	36	97	7~~6~~	5	3	-	4-6	9	1500	1	*
3	Birmingham ...	997.7	-4	WSW	3	c	39	85	8	5	3	-	1	7-8	2500	1	*
	Upper Heyford	998.3	-16	SW'W	3	bc	33	97	7	-	4	1	0	2-3	-	1	*
4	Ross-on-Wye	998.0	-10	SSW	2	bc	39	85	8	4	8	-	1	2-3	2500	1	*
5	Bristol ...	998.3	-14	W	3	pr.	42	97	8	5	-	-	9	9	1500	1	*
	Portland Bill ...	999.5	-14	NW	3	c	47	92	8	5	4	-	7-8	10	2500.	1	3
	Plymouth ...	999.6	-24	-	0	pr.	45	97	7	5	-	-	9+	9+	800	1	1
	Scilly (St. Mary's)	998.9	-24	W'S	5	r.r.	49	97	5	5	-	-	10	10	800	1	3
	Guernsey ..	998.9	-26	W'S	5	m	50	97	4	5	-	-	10	10	1500	1	4
6	Pembroke ...	1002.0	-20	SSW	1	rr	46	97	6	5	-	-	10	10	1500.	1	3
7	Holyhead ...	996.4	-16	WSW	3	c	47	85	8	5	-	^	9+	9+	2500	1	3
8	Manchester ...	994.8	-18	WSW	3	bc	45	65	8	5	3	-	2-3	4-6	2500	1	*
		996.0	-12	WSW	1	2o	42	85	6	5	-	^	2-3	2-3	2500.	1	*
		995.7	-4	SW'S	2	2o	39	97	5	8	-	-	9	9	1500.	1	*
10	Spurn Head ...	995.1	0	W'S	4	c	37	97	6	5	1	-	4-6	7-8	2500	0	3
	Catterick ...	994.0	-4	SW	2	b	35	85	8	-	4	-	0	Tr	-	1	*
	Tynemouth ...	992.9	-4	W	2	bc	35	97	7	2	-	-	2-3	2-3	1500	4	1
11	St. Abb's Head .	991.4	-4	WNW	4	bc	40	85	8	-	3	-	0	2-3	-	0	2
12	Leuchars ...	991.9	-6	WSW	2	b	31	92	8	-	-	-	0	0	-	3	*
	Renfrew (Abbots I.)	993.6	-8	WSW	1	bc	34	97	7	5	-	-	4-6	4-6	2500	1	*
	Eskdalemuir ...	993.0	-8	SE	2	c	33	97	7	5	-	-	9+	9+	800	1	*
	Point of Ayre...	993.3	-12	WNW	3	bc	41	92	8	-	4	-	0	2-3	-	1	2
13A	Tiree	990.7	-14	W	3	bc/pr	42	85	8	8	4	-	2-3	4-6	1500	1	*
13B	Stornoway ...	991.2	-16	W	1	bc	37	92	8	5	-	-	4-6	4-6	2500	5	1
15	Dalwhinnie ...	992.4	-8	-	0	c	31	92	6	5	-	-	9+	9+	1500	3	*
	Aberdeen ...	990.4	-2	WNW	2	c/pr	39	85	7	8	-	-	7-8	7-8	2500	1	1
	Wick ...	990.0	+2	WNW	3	bc	33	97	8	5	7	-	2-3	4-6	1500	1	1
16	Lerwick ...	990.8	-4	SSE	1	bc	41	85	8	8	-	-	4-6	4-6	1500	2~~1~~	*
17	Blacksod Point	995.5	-36	S	5	ir.	45	97	7	6	-	-	10	10	450	1	3
18	Malin Head ...	991.4	-20	S	1	bc	39	97	7	4	-	-	4-6	4-6	1500	1	3
	Aldergrove ...	993.9	-18	S'W	2	3+	36	97	3	-	-	-	10	10	450	1	*
19	Birr Castle ...	994.3	-26	SSW	1	c/r	40	97	7	5	-	-	10	10	1500	1	*
20	Valentia Obsy. †	996.9	-10	WNW	3	bc/pr	47	92	8	5	-	-	4-6	4-6	2500	1	2
	Roches Point	995.4	-20	W'N	3	bc/r	46	97	7	5	-	-	4-6	4-6	1500	1	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 7th. Hrs. (36)
1	London (Kew)	46	37	32	Tr	Tr	2.5
	Croydon ...	47	38	35	0.1	-	3.0
	S. Farnborough	47	34	28	1	Tr	4.2.
	Boscombe Down	47	34	28	1.4	Tr	3.8.
	Calshot (Stthmtn.)	45	36	32	4	Tr	3.8.
	Lympne ...	47	36	33	0.1	Tr	3.0.
	Manston ...	46	34	30	Tr	-	4.3.
2	Shoeburyness...	48	35	32	Tr	Tr	5.2.
	Felixstowe ...	47	37	32	2	-	3.4.
	Gorleston ...	44	37	33	.2	0.3	2.3.
	Mildenhall ...	45	37	35	1	Tr.	2.8.
	Cranwell ...	44	36	32	1	0.2	2.6
3	Birmingham ...	44	35	32	1	-	0.5.
	Upper Heyford	45	37	34	0.3	0.2	1.8~~6~~
4	Ross-on-Wye	46	32	24	0.1	0.1.	*
5	Bristol ...	47	37	28	0.6	-	3.1.
	Portland Bill ...	46	41	33	3	0.4	2.4.
	Plymouth ...	48	43	*	1	-	*
	The Lizard ...	50	44	40	6~~1~~.0	1	3.2.
	Scilly (St. Mary's)	49	45	*	3	4	2~~.~~6
	Guernsey ..	50	46	*	3	1	3.2.
6	Pembroke ...	49	46	40	4	.2	2.4
7	Holyhead ...	49	45	*	Tr	0.1	2.2.
8	Manchester ...	46	44	42	Tr	-	1.4.
10	Spurn Head ...	45	41	35	6	3	0.5.
	Catterick ...	42	38	34	4	2	0.0
	Tynemouth ...	42	36	*	1	-	0.4.
11	St. Abb's Head .	40	38	25	4	0.1	0.1.
12	Leuchars ...	41	35	30	Tr	0.2	0.2
	Renfrew (Abbots I.)	42	30	25	Tr	-	3.6.
	Eskdalemuir ...	41	31	25	Tr	-	1.6.
	Point of Ayre...	40	32	27	0.1	-	0.3.
13A	Tiree	45	41	*	3	-	0.7.
13B	Stornoway ...	46	39	34	0.4	2	2.4.
15	Dalwhinnie ...	42	35	*	Tr	0.1	3.8.
	Aberdeen ...	37	30	19	Tr	Tr	0.6.
	Wick ...	41	36	33	Tr	1	0.5.
16	Lerwick ...	40	33	*	8	2	*
17	Blacksod Point	43	39	*	1	1	0.0.
18	Malin Head ...	47	38	*	1	2	*
	Aldergrove ...	45	38	*	3	2	0.1
19	Birr Castle ...	42	35	31	1	-	1.1.
20	Valentia Obsy. †	45	36	*	1	0.2	3.5.
	Roches Point	49	45	44	1	2	1.4.
		46	43.	*	1	2	*

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 of the sky. "3+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 . . Ground dry.
1 . . ,, wet.
2 . . ,, flooded.
3 . . ,, frozen hard and dry.
4 . . ,, partly covered with snow or hail.
5 . . ,, covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 . . ,, covered with snow, less than 6 ins., but ground frozen.
9 . . ,, covered with snow greater than 6 ins. deep.

† See disturbance reported from Dungeness.

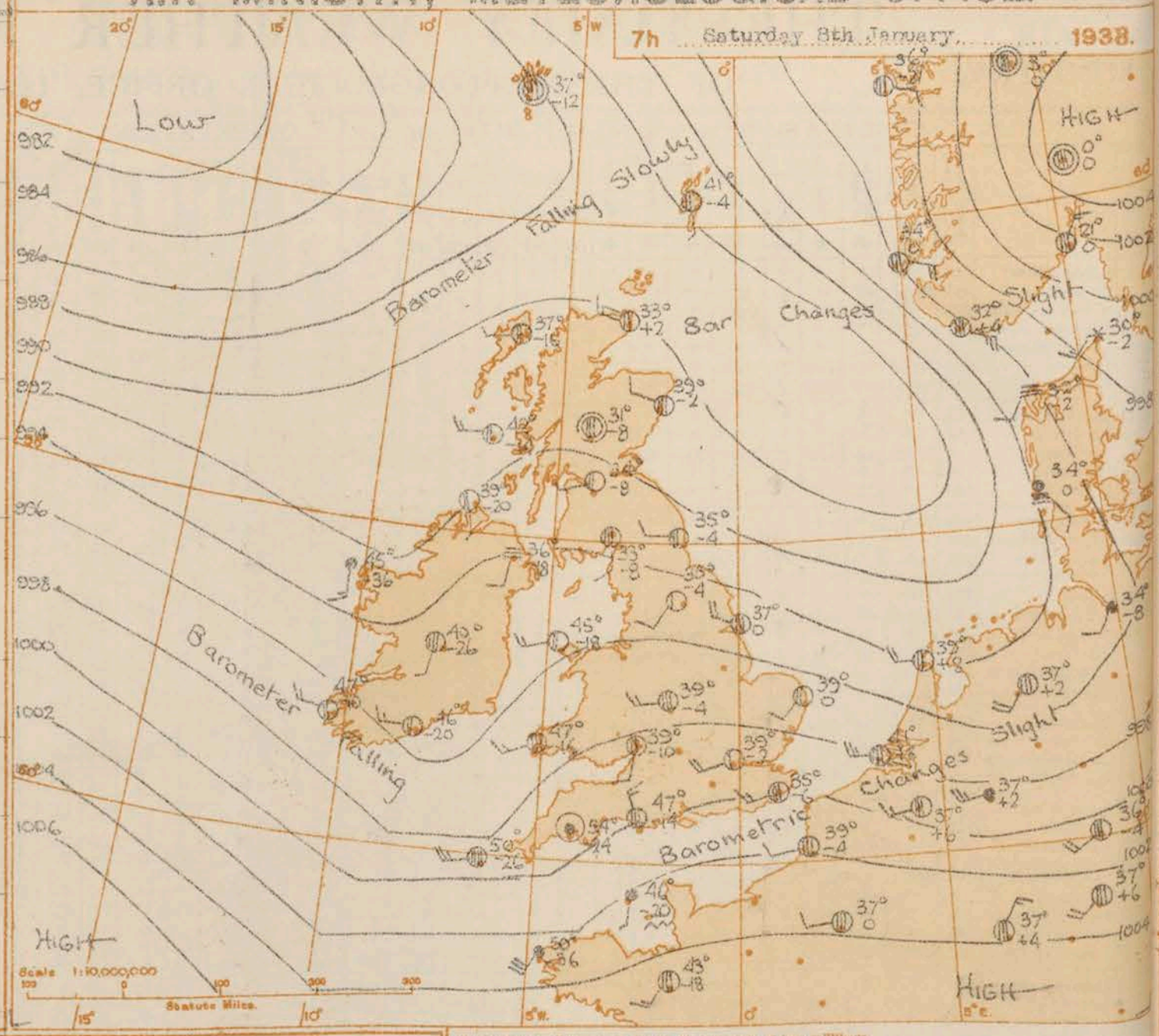
REPORTS from HEALTH RESORTS for 7th January 1938.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature (°F.) Min. 9h. 6th. to 9h. 7th.	Temperature (°F.) Max. 9h.—17h. 7th.	Rainfall (mm.) Night 17h. 6th. to 9h. 7th.	Rainfall (mm.) Day 9h.—17h. 7th.	Sunshine Sunrise to Sunset. 7th.
1	Tunbridge W.	bbcc	copbc	38	46	1	0·3	3·8
	Bournemouth	bbc	pcpbc	40	47	3	3	3·4
	Ventnor ...	rbo	opb	40	49	3	3	3·9
	Southsea ...	bbcr.	cb	41	47	2	Trace	3·0
	Bognor Regis	bbc	bccbc	39	47	0	-	3·5
	Littlehampton	bc	bc	39	47	5	-	3·7
	Worthing ...	bc	cbccb	39	47	6	-	3·5
	Brighton ...	bbccc	cbcbc	44	47	7	-	3·8
	Eastbourne† ...	bbcc	cbccb	44	47	4	-	3·8
	Hastings† ...	bbc	cbcbcc	42	47	3	-	4·3
	Folkestone ..	bcmb	bccrb	38	47	7	Trace	4·7
	Dover ...	b	bcribc	40	48	7	0·3	5·2
	Deal	cb	bcc	39	47	2	-	4·6
	Ramsgate ...	bc	bc	39	48	-	-	5·3
	Margate ...	bc	bc	38	48	-	-	4·5
2	Southend ...	bbcc	cor	38	47	0·3	Trace	3·4
	Clacton-on-Sea	bcc	cr.	38	44	0·2	Trace	2·0
	Dovercourt ...	b	bbcy	38	43	-	Trace	2·7
	Lowestoft ...	bbcc	bcbr	37	45	0·2	1	3·3
	Skegness ...	coc	cpcpc	36	42	2	0·3	0·1
	Mablethorpe...	bcbcc	crbc	34	42	1	0·5	0·3
	Cleethorpes ...	bcc	crbc	36	42	0·5	1	0·2
3	Leamington S.	c	cpbc	38	46	0·2	1	3·6
4	Cheltenham†	cp	circ	39	46	Trace	0·3	2·0
5	Bath	bcp	pcbcb	40	47	2	2	2·5
	Weymouth ...	bcb	rcbcb	41	44	4	9	3·5
	Jersey ...	cpbc	bc	48	48	5	1	2·7
	Torquay ...	bbcp	pbcbc	39	49	3	2	4·4
	Falmouth	crbc	cpbbc	41	49	7	2	3·0
	Penzance ...	cp.c	bcpbr	42	50	8	3	3·6
	St. Ives ...	p	pbcp	*38	41	5	2	0·0
	Bude... ...	pcp	bcp	43	49	3	1	1·0
	Ilfracombe ...	crrb	pcbcc	42	48	7	1	0·4
6	Aberystwyth	prc	c	42	46	2	-	0·5
7	Llandudno ...	cir.	ccrc	42	45	2	1	0·1
	Colwyn Bay...	pbcpc	c	42	45	4	0·5	0·1
	Rhyl	cpr	bpr	41	45	2	3	0·7
8	Wallasey ...	cir	chrc	40	43	3	4	0·0
	Southport ...	cpr	cpcrc	41	42	4	3	0·1
	Blackpool ...	cPHc	cchbch	41	43	6	4	0·2
	Morecambe ...	rirbc	cbcir	40	43	9	3	0·4
9	Ilkley... ...	crro	qc	39	40	7	13	0·0
	Harrogate ...	cr	R	38	39	8	8	0·6
10	Berwick-on-T.	cbcc	cbc	35	40	0·2	-	0·3
11	Dunbar ...	cmr.	crn.	36	40	0·3	-	0·7
12	Troon... ...	bcrbc	cbcbc	*44	43	1	-	0·6
	Douglas ...	bcr	bcpy	40	44	8	Trace	2·8

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Saturday 8th January 1938.



Barometer. Isobars are drawn for intervals of two millibars.
Wind, Weather Symbols. For explanation see opposite page.
Sea Disturbance. ~~ Rough. ≈≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 8th January 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Moderate westerly winds; occasional rain today, showers and bright intervals tomorrow; rather mild.
5 S.W. England 6 South Wales ... 7 North Wales ...	Moderate to fresh northwest to west winds; bright periods, rain at times; rather mild.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Light to moderate westerly winds, freshening; occasional rain today, showers and bright intervals tomorrow; average temperature.
13 {A. W. Scotld. B.N.W.Scotland} 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Light variable to westerly winds, freshening; occasional rain or drizzle; average temperature.
17 N. W. Ireland † 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland †	Moderate to strong west to northwest winds; bright periods, occasional rain; rather mild.

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

GENERAL INFERENCE.

A trough of low pressure, associated with a depression near Iceland, will move eastwards across the British Isles. Weather will be mainly fair at first in the East and North but rain will spread from the West during the day to eastern districts.

FURTHER OUTLOOK.

Changeable.

Time of Issue of Gale Warnings.

† South Cone hoisted 0500 8/1/38 in districts 17 and 20.

Forecasts issued at 1030 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S.
Director.

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

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

SATURDAY 8TH JANUARY.

1938.

Lambert Projection Scale 1: 4 x 10⁷ along meridian at 58° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— Clear sky. Sky less than 2/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow, Sleet, Hail. Fog. Mist, Thunder. Thunderstorm. Slight rain.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 8th January, 1937.

No. 27806.

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)	998·0	-3·0	SW/W	4	ir.	45	75	8	6	-	8	9+	9+	1500
	Croydon ...	999·1	-3·0	W/S	5	ir.	46	75	6	5	3	-	9	9+	2500
	S. Farnborough	998·3	-2·8	W/S	4	PR	44	85	7	9	-	-	10	10	2500
	Boscombe Down	999·5	-2·2	W/N	4	c/phr	42	92	7	9	7	-	4-6	7-8	800
	Calshot (Stn.mtn.)	1001·3	-2·8	SW/W	4	c	46	85	7	5	7	-	7-8	9+	1500
	Lympne ...	999·8	-3·4	SW/W	4	c	46	75	8	8	3	-	4-6	7-8	1500
	Manston ...	999·0	-2·6	WSW	5	bc	47	65	8	5	3	-	4-6	4-6	2500
2	Shoeburyness ...	998·8	-2·8	SW	4	c	43	75	8	6	7	-	7-8	9	1500
	Felixstowe ...	998·0	-3·0	SSW	3	Zo	44	85	6	5	3	8	2-3	7-8	2500
	Gorleston ...	996·8	-2·0	SW/S	4	c	44	75	6	8	3	1	4-6	7-8	2500
	Mildenhall ...	995·7	-3·0	SW	5	c	44	85	7	8	7	-	7-8	9+	2500
	Cranwell ...	994·5	-2·8	SW	4	c	43	85	7	8	3	-	9	9+	1500
3	Birmingham ...	995·7	-2·2	NSW	4	bc/pr	43	85	7	6	-	3	4-6	4-6	1500
	Upper Heyford	996·3	-2·6	SW/W	4	c	43	85	7	3	-	-	9+	9+	800
4	Ross-on-Wye	996·7	-2·4	W	5	q	47	65	8	8	-	3	2-3	2-3	2500
5	Bristol ...	998·8	-2·2	W	4	PR	45	92	8	8	-	-	9	9	1500
	Portland Bill ...	999·5	-2·4	WSW	6	pr	47	85	7	6	2	-	9	10	800
	Plymouth ...	1002·7	-1·4	W	6	c/pr	47	75	8	8	5	-	7-8	9	2500
	The Lizard ...	1004·4	-1·0	W/N	7	c/pr	48	75	8	8	6	-	7-8	7-8	2500
	Scilly (St.Mary's)	1005·1	-1·2	W/N	87	c	48	75	8	8	7	1	2-3	7-8	1500
	Guernsey ...	1005·4	-2·2	W	4	bc	47	85	8	8	3	-	2-3	4-6	2500
6	Pembroke ...	999·4	0	WNW	7	q	48	75	8	8	6	-	4-6	4-6	4000
7	Holyhead ...	994·8	+0·8	W/N	6	c/	46	75	8	8	8	1	4-6	7-8	1500
	Chester (Sealand)	993·9	-0·8	W/N	6	c/pr	42	85	6	8	-	-	7-8	7-8	1500
8	Manchester ...	997·7	-1·8	WNW	4	pr.	41	82	6	8	-	-	10	10	1500
10	Spurn Head ...	992·2	-2·8	SW/S	4	c	41	92	6	5	1	-	4-6	9+	4000
	Catterick ...	990·7	-1·6	-	0	c	38	92	7	6	9	-	1	9+	1500
	Tynemouth ...	990·5	-0·8	W	1	F	38	85	3	5	-	-	9+	9+	1500
11	St. Abbs Head .	989·7	-0·4	WNW	2	c	40	85	7	3	7	-	7-8	9+	2500
	Leuchars ...	989·8	-0·6	W	3	c.	41	85	8	8	4	2	2-3	7-8	2500
12	Roslyn (Athetal.)	991·4	0	W	2	bc/pr	39	92	6	8	-	1	4-6	4-6	1500
	Eskdalemuir ...	990·7	0	W/S	2	c	39	85	8	5	-	-	7-8	7-8	1500
	Point of Ayre...	992·3	+0·8	NW	6	c/pr	44	85	8	8	7	3	4-6	9+	1500
13a	Tiree	992·4	+1·2	NNW	4	bc	45	75	9	8	6	-	4-6	4-6	2500
13b	Stornoway ...	991·4	+0·2	W	2	bc/pr	39	85	8	8	4	3	2-3	2-3	2500
15	Dalwhinnie ...	990·1	0	N	2	c	36	85	7	4	6	8	2-3	7-8	2500
	Aberdeen ...	989·6	-0·2	NW	2	c	40	85	7	2	7	8	Tr	9+	4000
	Wick ...	988·8	-0·4	W	3	pr	40	85	8	5	2	-	9	10	1500
16	Lerwick ...	988·8	-0·2	SSE	3	c/pr	43	85	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	1000·3	+1·0	NW	5	q	47	75	8	9	-	-	4-6	4-6	800
18	Malin Head ...	993·8	+1·6	N	3	c	45	97	8	8	-	-	7-8	7-8	800
	Aldergrove ...	994·7	+1·4	W	4	c/pr	41	85	8	9	-	-	10	10	1500
19	Birr Castle ...	999·8	+0·4	WNW	3	c	45	75	8	5	7	-	4-6	7-8	2500
20	Valentia Obsy.†	1005·0	+0·2	WNW	5	c/pr	48	85	8	8	-	-	9	9	1500
	Roches Point	1003·0	+0·4	WNW	4	bc/pr	45	85	8	3	-	3	4-6	4-6	1500

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°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. 0–6 (29)	Sea. 0–9 (30)
1	London (Kew)	997·5	+0·6	WSW	3	Zo	43	75	6	-	-	4	0	4-6	-	1	*
	Croydon ...	997·6	-0·6	W	4	Zo	42	85	6	5	-	-	2-3	2-3	4000	1	*
	S. Farnborough	998·1	+0·4	W	4	b	41	85	8	-	-	-	0	0	-	1	*
	Boscombe Down	999·4	+0·4	W/N	4	bc	40	85	7	6	-	-	2-3	2-3	1500	1	*
	Calshot (Stn.mtn.)	1000·3	+1·0	WSW	4	bc	43	85	8	8	-	-	2-3	2-3	1500	1	3
	Lympne ...	999·8	-0·4	WSW	3	bc	40	85	7	3	4	-	2-3	4-6	2500	1	§ 2
	Manston ...	996·4	-1·0	WSW	3	pr	42	85	7	8	2	-	4-6	7-8	1500	1	*
2	Shoeburyness ...	996·8	-0·8	SW	4	bc/r	42	85	6	6	-	-	2-3	2-3	1500	1	*
	Felixstowe ...	995·6	-1·2	WSW	4	c/pr	42	85	6	5	-	-	9+	9+	1500	1	3
	Gorleston ...	993·8	-1·0	WSW	4	o/r	42	85	6	6	-	-	10	10	1500	1	2
	Mildenhall ...	994·7	+0·2	SSW	4	bc	38	97	7	4	6	-	4-6	4-6	4000	1	*
	Cranwell ...	994·4	+1·0	W/S	5	bc	39	92	7	5	2	-	1	4-6	1500	1	*
3	Birmingham ...	997·0	+0·8	W	3	c/pr	40	75	6	5	-	-	7-8	7-8	1500	1	*
	Upper Heyford	997·3	+1·0	W/S	4	bc	39	85	8	4	4	1	4-6	4-6	1500	1	*
4	Ross-on-Wye	998·0	+0·6	W/S	3	b	42	75	8	8	-	-	1	1	2500	1	*
5	Bristol ...	999·7	+1·0	W	3	pr	42	85	7	8	-	-	4-6	4-6	1500	1	*
	Portland Bill ...	1000·3	+0·6	W	4	bc	46	85	8	2	-	-	4-6	4-6	2500	1	4
	Plymouth ...	1003·0	+0·2	W/N	4	c/pr	47	85	6	8	-	3	4-6	7-8	1500	1	2
	The Lizard ...	1004·7	+0·4	WNW	6	c	47	92	8	8	-	-	7-8	7-8	1500	1	4
	Scilly (St.Mary's)	1005·8	+0·4	WNW	6	bc	47	85	8	4	6	-	2-3	4-6	2500	1	4
	Guernsey ...	1004·5	+0·4	W	4	c	47	75	7	8	-	-	7-8	7-8	2500	1	4
6	Pembroke ...	1000·7	+0·6	WNW	5	q	46	75	8	8	-	-	4-6	4-6	2500	1	4
7	Holyhead ...	999·9	+0·6	WNW	7	bc	45	75	8	7	-	-	4-6	4-6	2500	1	3
	Chester (Sealand)	999·7	+1·0	W/N	5	bc	42	85	7	8	-	-	4-6	4-6	2500	1	*
8	Manchester ...	999·3	+1·0	WNW	4	Zo	39	92	6	8	-	-	7-8	7-8	2500	1	*
10	Spurn Head ...	999·0	+0·2	WNW	4	c	40	92	6	5	-	-	9+	9+	2500	1	3
	Catterick ...	999·5	+1·0	WSW	3	bc	37	85	7	4	6	-	1	2-3	2500	1	*
	Tynemouth ...	999·4	+0·6	WNW	2	c	39	92	6	5	-	-	7-8	7-8	1500	1	1
11	St. Abbs Head .	999·3	+1·0	WNW	4	c	39	92	7	4	6	-	4-6	7-8	2500	0	2
	Leuchars ...	999·9	+1·4	WSW	1	b	35	85	9	-	4	-	0	1	-	1	*
12	Roslyn (Athetal.)	999·6	+1·4	NW	2	bc	37	85	7	5	-	-	2-3	2-3	2500	1	*
	Eskdalemuir ...	999·8	+1·4	NW	3	c	37	85	7	5	-	-	7-8	7-8	800	1	*
	Point of Ayre...	999·4	+1·2	NW	6	bc	44	85	8	8	-	-	4-6	4-6	1500	1	4
13a	Tiree	999·5	+0·8	NNW	2	bc/pr	43	75	9	3	6	3	2-3	2-3	2500	1	3
13b	Stornoway ...	999·6	+1·4	WNW	2	bc	38	92	8	8	-	3	2-3	2-3	2500	1	1
15	Dalwhinnie ...	999·5	+0·8	S	1	bc	32	85	7	4	6	-	2-3	4-6	2500	0	*
	Aberdeen ...	999·8	+0·6	W/S	1	bc	36	85	6	5	7	-	1	4-6	4000	1	1
	Wick ...	999·2	+0·2	W	1	c	37	97	7	5	2	-	9	10	1500	1	1
16	Lerwick ...	998·9	+0·2	SE	3	bc/pr	40	85	8	8	-	-	4-6	4-6	1500	1	*
17	Blacksod Point	999·7	0	W	3	bc	46	75	8	9	-	-	2-3	2-3	1500	1	3
18	Malin Head ...	999·5	+1·4	W/NW	3	jp	43	97	7	3	-	-	7-8	7-8	800	1	3
	Aldergrove ...	999·1	+1·0	W/S	4	bc	40	85	8	8	-	-	4-6	4-6	1500	1	*
19	Birr Castle ...	1000·5	+0·6	WNW	2	bc	41	85	8	5	4	-	2-3	4-6	2500	1	*
20	Valentia Obsy.†	1005·0	-0·2	WNW	4	jp	46	85	8	9	-	-	4-6	4-6	1500	1	4
	Roches Point	1003·9	+0·8	NW	3	bc	45	85	8	3	-	-	4-6	4-6	1500	1	3

PAST 24 HOURS.

WEATHER.

District	Stations. (For heights see p. 4.)	7h.—13h. 7th. (37)	13h.—18h. 7th. (38)	18h. 7th. to 1h. 8th. (39)	1h.—7h. 8th. (40)
1	London (Kew)	cb, cr.	cbc	pr. bcm.	bcm. w
	Croydon ...	bc bvc	r. pr. bc	bcm. b	bbc
	S. Farnborough	bcm. b.c	pr. c, b	b.	bbccbx.
	Boscombe Down	bccprhq	bcb	b.	bbcc
	Calshot (Stn.mtn.)	bbcc	cir. b.c	bbcpr. b.	b, bc
	Lympne ...	cbbc	cir. pr. bc	bbcbwx	bwxc
	Manston ...	bbc	bc	bccpr, m.	cm. b, cbc
2	Shoeburyness ...	bcbm.c	pr. r bc	bcbm.	bm. cm.
	Felixstowe ...	bcm. cm.	cpr. PRcm.	cm. cpr. bcc	cbc
	Gorleston ...	bccq	copr	ocpr.	cbc
	Mildenhall ...	bbcc	cpr. prq. b	cbccm.	bcb, cpr.
	Cranwell ...	bbccm.c	cprq PR	cbbccm.	cbcm.
3	Birmingham ...	cbc	bcpr.	bcpr.	bcpr.
	Upper Heyford	bccpr.	cpr. bc	bcprq b.	bbcx
4	Ross-on-Wye	cbcq	bcb	bvc	bbcb.
5	Bristol ...	prphpr	cpr. bc	bcpr. bbc	bccpr
	Portland Bill ...	cpr	cPR	b.	bcc
	Plymouth ...	bccprPRm.	cbccprq	bccprm.	cpr. pr.
	The Lizard ...	bc prq	q bcpr	cbcq.	bcmrr
	Scilly (St.Mary's)	cPRq	cPRkq	pq cd.	ildd. mo.
	Guernsey ...	cPHR	bc phr	cbc.	bcorr
6	Pembroke ...	cbcq	bcq PRP	cbcq	cqc
7	Holyhead ...	cpr.	c, bc	bcb, c.	c, bc.
	Chester (Sealand)	bbczpPR	cphrPH	bccPR, b.	bbcr. m.
8	Manchester ...	cPRq m.	cPKphrtl	cm. pr.	cm. pr.
10	Spurn Head ...	bcpr.	cprc	pr. mc	bccw.
	Catterick ...	orrrm.c	cbc	bcprc	cb
	Tynemouth ...	bccoirsff	cffcbc	cp. bcb.	bbc
11	St. Abbs Head .	m.c	m.c	bcb	b.
	Leuchars ...	cd. m. bc	bcb	bcb m. bx	bx
12	Roslyn (Athetal.)	To pr. m.	m. cbc	bc	bcx
	Eskdalemuir ...	oc	r.c ir.	bccx	bccx
	Point of Ayre...	cpr	cprbc	bcc	bc
13a	Tiree	cprbc	bcpr.	bcpr.	bcPR
13b	Stornoway ...	bc pr.	bcpr.	bcpr.	bc
15	Dalwhinnie ...	cirro	c	*	cirobc
	Aberdeen ...	cm. c	cr. bc	bccr.	ccpr.
	Wick ...	cpr.	RRc	prc	bc
16	Lerwick ...	cpr	prphr	bcprc.	cir
17	Blacksod Point	prcq	bcq	prc	prc
18	Malin Head ...	cprc	ephr	cprbcpr	cpr. bc
	Aldergrove ...	cbcpr.c	cpr. bbc	bcb, cbc	bcoff
19	Birr Castle ...	cprc	obc	bc	bcir
20	Valentia Obsy.†	prpr. c	prpr. bc	bccr. n	rnr. bcpr. bc
	Roches Point	cprbc	cpr. bc	bc.	cirdrbc

LONDON OBSERVATIONS

Day 7h—18h. Kew & Croydon.
9h—18h. Kensington.
9h—21h. other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew...	18	cb, cr.	cbc	bcpr. w	46	37	32	Tr	Tr	2·5	•	•	5
Croydon	317	bcbvc	r. pr. bc	bbcm.	47	38	35	0·1	-	3·0	•	•	6
Greenwich (Royal Observatory)...	149	bc	cr. cb	bcm.	46	37	30	Tr	-	2·7	72	92	4
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	1·1	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	47	37	30	-	-	2·0	77	96.	•
Regents Pk. (Botanic Gardens)‡...	168	•	•	•	46	37	34	-	-	1·4	75	91.	•
Camden Square	110	bcp	c	•	45	37	33	Tr	-	•	•	93.	•
Kensington	80	bc	bccx	•	46	37	29.	-	-	1·8.	At 12h. 74	92.	•
Hampstead Observatory	450	bcp	bc	bc	44	35	27	0·1	-	1·7	•	98.	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington.

Max.	Time.	Min.	Time.
0·8	19h 7th.	<0·3	3-4h 8th

Kew Observatory.

Max.	Time.	Min.	Time.
0·2	22h 7th	<0·1	2-6h 8th.

FOREIGN OBSERVATIONS.

18h G.M.T. 7th January. 7h. G.M.T. 8th January.

Stations.	18h Barom. mb.	18h Wind. Direc.	18h Wind. Force.	18h Weather.	18h Temp. °F.	7h Barom. mb.	7h Wind. Direc.	7h Wind. Force.	7h Weather.	7h Temp. °F.
Paris	1003·8	SSW	5	c	41	1003·9	WSW	2	c	37
Brussels	998·7	SW	5	rr	39	999·1	WSW	3	c	37
Berlin	1003·0	SSW	4	s.s.	34	998·6	SE	2	q/r	34
Zürich	1013·6	S	2	c	34	1008·8	WSW	5	rf	36
Rome	1015·3	SW	1	bc	39	1010·3	SE	5	c	45

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
43	37	0·6.	1·
41	36	2.	2.
34	32	0·1	0.5.
•	•	-	4.
•	•	-	0.2.

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	,,
6	Moderate ,,	6½	,,
7	Good ,,	12½	,,
8	Very good ,,	31	,,
9	Excellent ,,	beyond 31m.	

COLUMN 30.—Code for State of Sea.

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

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. GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § as disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 9th January, 1938.
No. 27807.

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)	°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)	996·3	-22	WSW	2	z.	44	85	5	5	7	2	7-8	9+	4000
	Croydon ...	997·0	-22	SSW	2	z.	46	75	6	5	3	6	4-6	9	4000
	S. Farnborough	996·2	-24	S	1	c	47	85	6	5	3	-	7-8	9+	2500
	Boscombe Down	996·0	-26	SE	3	z.	46	85	6	5	7	-	4-6	9+	1500
	Calshot (Sthmtn.)	997·0	-30	SWS	3	c	48	85	7	8	7	-	4-6	9+	2500
	Lympne ...	998·1	-16	SW	1	c/pr	41	85	7	5	-	4	4-6	7-8	4000
	Manston ...	997·4	-12	SW	3	c/r	44	75	8	5	-	6	9	9+	4000
2	Shoeburyness ...	997·2	-14	SW	3	c/pr	45	85	6	5	9	3	7-8	9+	4000
	Felixstowe ...	997·0	-10	SW	3	z.	42	85	5	5	3	4	2-3	7-8	2500
	Gorleston ...	996·6	-10	SWW	2	bc	41	85	6	1	8	-	2-3	4-6	2500
	Mildenhall ...	996·8	-10	SWS	2	z.	42	85	5	5	4	2	4-6	7-8	4000
	Cranwell ...	995·2	-14	SW	3	z.	45	75	6	5	4	-	2-3	2-3	4000
3	Birmingham ...	994·9	-14	S	2	c	42	85	6	5	-	-	10	10	2500
	Upper Heyford	995·7	-22	SW	2	z.	41	97	6	5	3	-	4-6	9	450
4	Ross-on-Wye	994·7	-14	SW	2	r.r.	42	92	5	6	2	-	1	10	800
5	Bristol ...	995·3	-22	SSE	1	rr	44	97	6	6	2	-	4-6	10	450
	Portland Bill ...	995·2	-24	SSW	3	o	47	92	7	5	-	-	10	10	1500
	Plymouth ...	996·1	-18	W'S	3	c	50	85	8	9	-	8	7-8	9	1500
	The Lizard ...	996·9	-8	W'S	5	c	50	92	7	8	6	-	4-6	7-8	1500
	Scilly (St. Mary's)	996·5	-22	W'N	5	c/pr	50	92	7	9	2	3	4-6	9	1500
	Guernsey ...	998·7	-18	WSW	4	ir.	50	97	6	5	-	-	10	10	1500
6	Pembroke ...	992·5	-20	NW'W	5	q	48	97	8	5	7	-	7-8	9+	1500
7	Holyhead ...	991·7	-2	SSE	3	r.r.	45	92	6	6	7	-	4-6	10	800
	Chester (Sealand)	993·6	-22	SE	2	z.	47	75	6	5	3	-	1	4-6	2500
8	Manchester ...	993·5	-20	SSW	2	z.	45	75	5	7	5	1	1	4-6	4000
10	Spurn Head ...	994·7	-4	WSW	2	c	42	85	6	5	6	-	4-6	7-8	4000
	Catterick ...	992·7	-16	-	0	z.	39	92	6	8	4	-	7-8	7-8	2500
	Tynemouth ...	992·5	-8	SW	2	m	40	85	4	5	-	-	4-6	4-6	1500
11	St Abbs Head .	991·1	-6	SW	2	bc	40	85	7	-	4	8	0	4-6	-
12	Leuchars ...	990·7	-14	SW	2	z.	40	85	6	5	-	-	4-6	4-6	4000
	Renfrew (Abbots L.)	991·2	-18	-	0	pr	35	97	2	5	-	-	9+	9+	1500
	Eskdalemuir ...	991·5	-14	SSW	3	c	37	97	7	5	-	-	9+	9+	450
	Point of Ayre...	991·3	-20	SW	1	c	45	85	8	8	4	-	4-6	9	1500
13A	Tiree ...	987·0	-26	SW	4	c/r	43	85	7	5	2	-	7-8	10	1500
13B	Stornoway ...	987·7	-18	S	5	c/pr	43	85	9	8	5	-	7-8	9	1500
15	Dalwhinnie ...	990·5	-16	SW	1	c	38	85	7	5	6	-	4-6	9+	2500
	Aberdeen ...	989·6	-12	WNW	1	b	42	75	7	5	-	1	Tr	Tr	2500
16	Wick ...	988·8	-10	SSW	2	bc	42	85	8	5	7	-	2-3	4-6	1500
	Lerwick ...	990·4	-8	SSE	4	c	42	85	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	990·8	-24	SW	3	c	45	85	8	9	-	-	10	10	450
18	Malin Head ...	987·7	-22	S	3	r.r.	41	97	6	5	-	-	10	10	800
	Aldergrove ...	989·7	-30	SSE	3	c/d	41	92	7	5	3	-	4-6	9+	4000
19	Birr Castle ...	991·9	-14	WSW	1	c	45	92	8	5	2	-	4-6	10	1500
20	Valentia Obsy. †	992·9	-36	SW	3	c	48	75	8	5	-	-	10	10	2500
	Roches Point	993·8	-14	W	3	c	47	85	8	5	1	-	4-6	7-8	1500

OBSERVATIONS at 18h. G.M.T. 8th 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. 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)	992·2	-26	EN	2	r.r.	44	97	5	5	-	-	10	10	1500	1	*
	Croydon ...	993·0	-26	S'E	3	id.	44	97	6	5	3	-	4-6	9+	4000	1	*
	S. Farnborough	991·9	-24	S'E	1	c/d	44	97	4	5	-	-	9+	9+	2500	1	*
	Boscombe Down	992·3	-16	SW	2	c/f	44	97	6	5	-	-	9+	9+	1500	1	*
	Calshot (Sthmtn.)	993·6	-16	SW	3	bc	44	97	7	-	7	6	0	2-3	-	1	2
	Lympne ...	994·2	-26	S'E	3	f	43	92	2	-	-	-	10	10	<150	1	§ 2
	Manston ...	993·8	-20	SSW	2	ir.	43	97	6	6	2	-	7-8	9+	800	1	*
2	Shoeburyness ...	993·8	-20	S'E	3	r.r.	42	92	6	5	1	-	9	9+	1500	1	*
	Felixstowe ...	994·5	-20	SSE	3	z.	40	92	5	5	-	-	7-8	7-8	2500	1	2
	Gorleston ...	994·5	-10	S'E	2	bc	40	85	6	-	3	-	0	2-3	-	1	2
	Mildenhall ...	992·8	-24	SE	2	m	39	97	4	-	1	-	0	9+	-	1	*
	Cranwell ...	993·1	-14	SE'S	2	z.	38	97	5	5	-	-	9+	9+	4000	1	*
3	Birmingham ...	991·3	-20	SSE	2	id.	40	97	4	5	-	-	10	10	1500	1	*
4	Upper Heyford	992·0	-22	S	1	m	41	97	4	5	2	-	7-8	10	1500	1	*
	Ross-on-Wye	990·7	-14	SSW	2	z.	43	92	5	5	-	-	9+	9+	800	1	*
5	Bristol ...	991·9	-12	WSW	3	c	45	92	8	5	7	-	4-6	9+	1500	1	*
	Portland Bill ...	993·3	-10	W	3	c	48	92	8	4	-	-	10	10	2500	1	3
	Plymouth ...	993·2	-18	WSW	3	z.	48	75	6	5	-	-	10	10	800	1	1
	The Lizard ...	993·1	-10	WSW	3	id.	47	92	6	5	-	-	10	10	1500	1	2
	Scilly (St. Mary's)	991·5	-34	SSW	3	c	48	92	8	8	1	-	2-3	10	2500	1	3
	Guernsey ...	995·9	-16	SW'W	2	o	48	85	7	5	-	-	10	10	2500	1	2
6	Pembroke ...	989·7	-12	W	3	c	46	85	8	8	2	-	7-8	9+	2500	1	3
7	Holyhead ...	987·6	-24	S	1	c/d	44	97	7	5	1	-	4-6	10	800	1	1
	Chester (Sealand)	989·5	-24	ESE	2	z.	42	85	6	5	-	-	10	10	2500	1	*
8	Manchester ...	990·2	-20	SSE	3	z.	40	92	5	5	4	-	1	2-3	4000	1	*
10	Spurn Head ...	992·0	-8	S	3	c	40	92	6	5	-	-	9+	9+	4000	0	2
	Catterick ...	990·2	-14	SE	1	f	36	92	3	-	-	-	10	10	<150	1	*
	Tynemouth ...	989·9	-8	SW	2	m	38	92	4	5	-	-	4-6	4-6	800	1	1
11	St Abbs Head .	988·9	-10	S	2	e	35	92	7	-	4	6	0	7-8	-	0	1
12	Leuchars ...	987·7	-18	E	1	c	35	97	6	5	1	-	7-8	9	2500	1	*
	Renfrew (Abbots L.)	987·5	-22	SEE	2	r.r.	39	92	4	5	-	-	10	10	2500	1	*
	Eskdalemuir ...	987·8	-20	S'E	1	o	37	97	6	5	-	-	10	10	450	1	*
	Point of Ayre...	986·7	-22	S'W	4	d.d.	44	97	6	5	-	-	10	10	800	1	3
13A	Tiree ...	982·6	-20	S'W	2	c/r	42	97	7	5	1	-	9	9+	1500	1	2
13B	Stornoway ...	983·1	-22	SSE	6	r.r.	43	97	7	5	7	-	9	10	1500	1	4
15	Dalwhinnie ...	987·0	-20	S	4	is	34	85	6	3	2	-	4-6	10	1500	1	*
	Aberdeen ...	987·7	-14	S'W	2	b	35	85	5	-	-	1	0	Tr	-	1	1
16	Wick ...	986·2	-14	SSE	3	c	40	85	8	8	7	8	4-6	7-8	1500	1	2
	Lerwick ...	988·2	-12	SSE	4	bc	41	85	8	8	-	-	4-6	4-6	1500	1	*
17	Blacksod Point	983·2	-50	S	4	c	46	75	8	9	-	-	9	9	800	1	3
18	Malin Head ...	982·8	-36	S	2	c	41	97	7	4	2	-	4-6	9	800	1	2
	Aldergrove ...	985·1	-30	SSE	2	c/d	40	97	6	5	1	-	1	10	1500	1	*
19	Birr Castle ...	986·2	-34	WSW	1	c	42	92	7	5	-	-	10	10	2500	1	*
20	Valentia Obsy. †	983·5	-66	S	4	ir.	47	92	7	5	-	-	10	10	800	1	3
	Roches Point	987·0	-40	SW	3	c	45	92	8	5	1	-	7-8	9+	1500	1	2

PAST 24 HOURS.

Weather 7h.—13h. 8th. (37)	Weather 18h.—18h. 8th. (38)	Weather 18h. 8th. to 1h. 9th. (39)	Weather 1h.—7h. 9th. (40)
bcm.wc	cm.ir.	cirm	crr.
bbm.cm.	z. cr.	od.d.m	cid.r
bcc m.	ciR.d.d.	cmbac.m	ciRirm.
c cm.	cm.r.r.fm.cm.c	ccpra	
bcdfc	cdrm.bc	bcc	cpr
bccpr.	cm.rrf	fFrr.om	fr.drc
cm.pr.	ccm.ir.	crr.m.c	cor.r.m.
cm.pr.	c.m.ir.r.r.	m.r.r.r.r	cprc
bcbcm.cm.	bcm.fcm.cm.fcpr.r.r.	cR.r.RR.m	
bcz.	bcz.	bcoir	orr
cpr.bcbm.	bcm.cm	cm.irc.m	crr.r.r.
cm.bcm.	bcz.cm.	cm.fd	oR.orr
cbbcc	c	cid.	cRbc
bccfcm	cir.cm	cm.o.c	corrc
ccr.	cm.	ccr.	rrc
cpr.rr	grr.d.d.	cd.	cRRpH
od	oc	orr	orr
odd f, bc	cz.	czddRR	cpr.m.
mirbc	cpd.c	idirrc	rr pr.q.
d.bcp.	cid.c	id.r.q.	irpl.m.
orr.	cir.o	oR.ir.	cPRq
cbcqd	q irc	mirqc	cqbcc
bcr.c	d.d.d.m	cbcc	rrc
bbcm.z.	bcz.cm.	cir.m.	crr.m.c
cm pr.bc	bcm.bm.	b.c.m.	bcm.cRR
c	c	cm.ro	Ff.m.r
bxcm.	cm.fx	ff.c.r.c.	cm.r.m.
bcm	bcm	bcmbc	bc.o.ir.
bbc	bcc	cm	m.irc
bxm.bcz.	bcz.cld.	cm.c	cir.c
pr. cff	ff cm.r.r.	r.r.c.m.	cm.
firs id	old	oid	oid
bcc	ed.d	d.iro	orr
bccir	ciR	ciR	c
bccpr.	cpr r.r.	cpr	c
c	c	*	cirrr
bccb	b bz	bz.or	ozo
cbc	bcc	c	r.r.c
cpr	cpr	cpr	cpr
prc	grc	PRcq	PRcq
crr	cir.c	c	cr.n
ffbccd.	dd id.c	cm.	RRrnc
circ	c	corr	orr.bc
bcpr.c	cir.	ir.PRqprq	pr.qc
cir.c	cid.c	RRbc	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.

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

§ See disturbance reported from Dungeness.

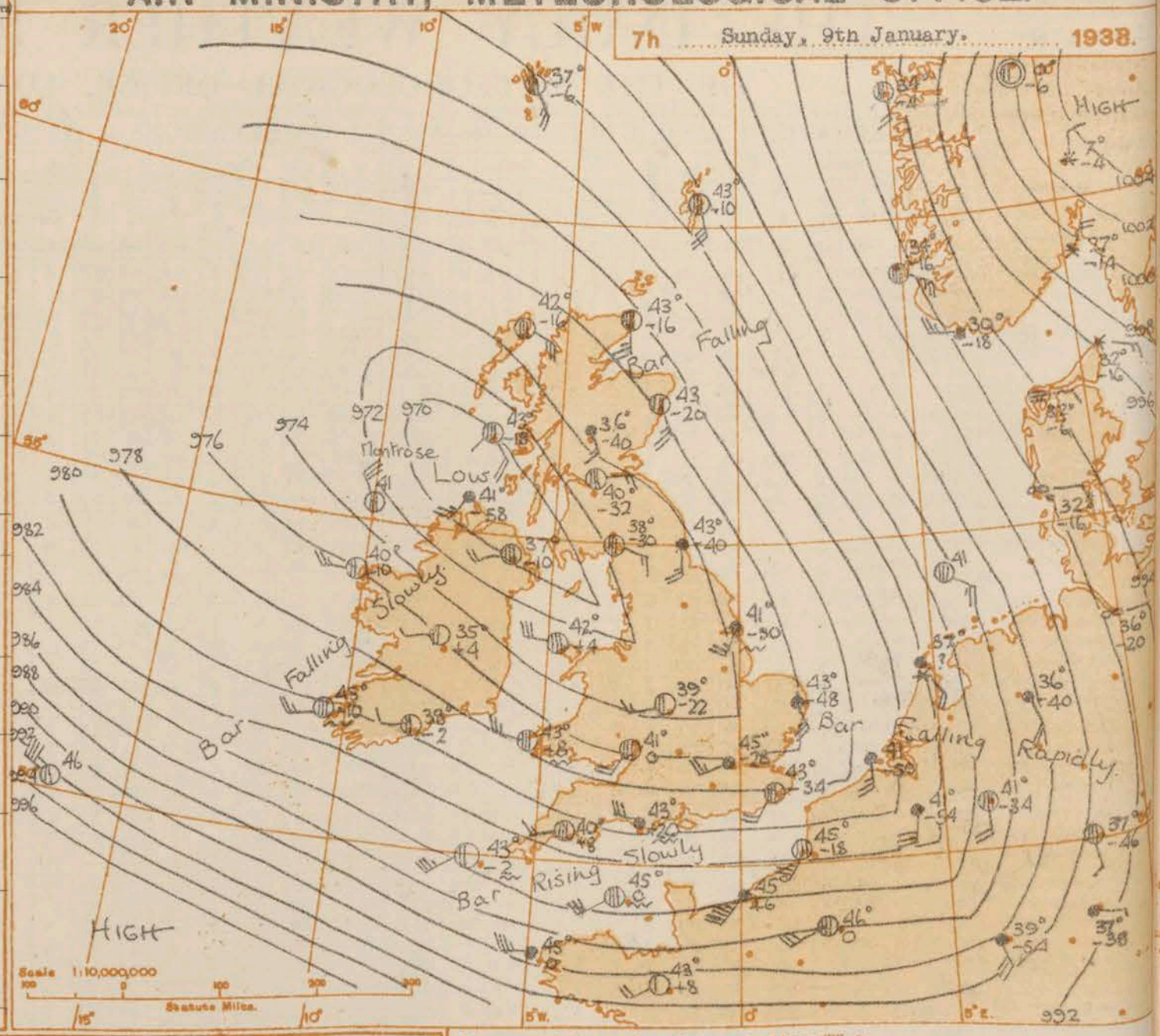
REPORTS from HEALTH RESORTS for 8th January 1938.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature (°F.) Min. 9h. 7th to 9h. 8th.	Temperature (°F.) Max. 9h.—17h. 8th.	Rainfall (mm.) Night. 17h. 7th to 9h. 8th.	Rainfall (mm.) Day. 9h.—17h. 8th.	Sunshine (hrs.) Sunrise to Sunset. 8th.
1	Tunbridge W.	cbc	obcor	30	46	–	0·5	0·9
	Bournemouth							
	Ventnor ...	ocu	cope	41	49	–	Trace	0·9
	Southsea ...	oe	code	38	48	–	0·5	0·0
	Bognor Regis	cbc	cdrc	35	45	Trace	2	0·5
	Littlehampton	e	core	35	46	–	2	0·6
	Worthing ...	cbcb	bccdd	34	47	Trace	2	0·9
	Brighton ...	cbbc	cr	38	47	Trace	1	2·0
	Eastbourne† ...	cbc	bcodr	39	47	–	0·5	1·8
	Hastings† ...	cbc	cod.	36	48	Trace	Trace	1·0
	Folkestone ..	xbc	coro	33	45	–	Trace	1·5
	Dover ...	bcc	cop	39	44	0·3	0·5	1·6
	Deal	cbcc	obco	37	48	–	–	1·5
	Ramsgate ...	bc	bcor	37	47	–	Trace	2·3
	Margate ...	bc	cd.	36	47	–	Trace	1·6
2	Southend ...	e	cbcpc	36	48	0·3	Trace	1·1
	Clacton-on-Sea	cbc	bc	36	43	1	–	1·2
	Dovercourt ...	bc	bcbcm	36	45	3	–	3·7
	Lowestoft ...	b	b	36	45	2	–	6·2
	Skegness ...	bcmb	bbcc	33	43	–	–	4·7
	Mablethorpe...	bcb	bcbcc	32	44	Trace	–	5·7
	Cleethorpes ..	bc	bcc	33	43	Trace	–	4·5
3	Leamington S.	odcbc	codm	33	44	0·2	Trace	1·3
4	Cheltenham†	co	circ	34	45	Trace	1	0·1
5	Bath	eir	eir	37	46	Trace	4	0·0
	Weymouth ...	mc	dcbc	42	50	0·3	0·3	0·7
	Jersey ...	rer	rc	44	50	7	3	0·1
	Torquay ...	cmdp	bcc	40	50	2	0·2	0·6
	Falmouth	admbc	cpco	44	51	5	0·2	1·2
	Penzance ...	rcbcc	cpc	44	51	8	Trace	1·4
	St. Ives ...	d	p	38	43	7	3	0·0
	Bude... ...	mdbc	bcmd	43	50	3	1	1·7
	Ilfracombe ...	odro	drodr	44	49	1	2	0·0
6	Aberystwyth	proc	ddc	43	46	0·3	0·5	0·0
7	Llandudno ...	bc	bcdc	42	49	Trace	Trace	3·1
	Colwyn Bay...	bcbcb	bcbcc	41	44	–	–	3·9
	Rhyl	cbcb	bbcc	37	49	1	–	4·1
8	Wallasey ...	cbc	bcc	39	49	4	–	4·0
	Southport ...	bc	bcm	37	46	0·6	–	2·5
	Blackpool ...	cf pc	pcbcm	33	45	0·3	0·5	1·2
	Morecambe ...	cdbbc	dbbcc	38	44	0·3	Trace	2·0
9	Ilkley... ...	bcbc	c	36	42	0·1	–	1·6
	Harrogate ..	bbc	bcm	35	41	–	–	1·8
10	Berwick-on-T.	b	bcb	32	41	–	–	5·1
11	Dunbar ...	bcrm	bc	35	42	–	–	2·3
12	Troon... ...	ocbc	cocpc	41	45	1	–	0·0
	Douglas ...	bcw	bcd.	38	45	–	1	1·7

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Sunday, 9th January. 1938.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 9th January, 1938.
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 ...	Fresh westerly winds, strong to gale on coasts; changeable, squally showers of rain or hail with bright periods; average temperature.
10 N.E. England	Light variable or southeasterly winds, fresh in northern parts, cloudy, dull at times; some rain; average temperature.
11 S.E. Scotland	Fresh southeast to east winds; cloudy, dull at times; some rain; average temperature.
12 S.W. Scotland & Isle of Man. ↓	Variable winds, becoming easterly in Southwest Scotland, westerly in Isle of Man, moderate to fresh; cloudy; occasional rain; average temperature.
13 { S. W. Scotld. / B.N.W. Scotland.	
14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Fresh south to southeast winds, strong at times, backing to east or northeast; cloudy; occasional slight rain; average temperature.
17 N. W. Ireland 18 N. E. Ireland ↓	Fresh or strong westerly to northwesterly winds; cloudy; squally showers of rain or hail; average temperature.
19 S. E. Ireland ↓ 20 S. W. Ireland ↓	As 1 - 9.

H.M. Stationery Office Press Impey E.C.2

Barometer. Isobars are drawn for intervals of two millibars.
Wind, Weather Symbols. For explanation see opposite page.
Sea Disturbance. ~ Rough. ≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

The deep depression over Northern Ireland is moving slowly southeastwards. Squally showers of rain or hail will occur in all districts but there will be general rain at first in Scotland and Eastern England. Average temperature.

FURTHER OUTLOOK.

Changeable.

TIMES OF ISSUE OF GALE WARNINGS.

↓ South Cone hoisted at 1910 on 8th in districts 5, 6, 7, 8, 12, 19, 20 and parts of districts 1 and 18.

Forecasts issued at 1030 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S.
Director.

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

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

SUNDAY, 9TH JANUARY.

1938.

Gnomonic Projection Scale 1: 4 x 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 800

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 9th January, 1938.

No. 27807.

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)	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	985·4	-4·8	SW	3	c	44	92	7	5	-	-	10	10	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	987·0	-4·4	S'W	3	≡	44	92	5	5	-	-	10	10	220
	Manston ...	142	986·2	-4·2	SSW	4	c	45	92	8	5	-	-	10	10	800
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	985·4	-5·2	SE'E	5	ir	42	92	6	6	-	-	10	10	1500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	980·7	-6·4	SSW	4	rr	47	92	7	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	980·5	-3·0	W	7	c	46	85	8	8	-	-	7·8	7·8	1500
	Scilly (St. Mary's)	163	980·9	-3·9	W	8	ir	46	75	8	6	-	-	7·8	7·8	1500
	Guernsey ..	175	985·1	-6·0	SSW	3	ir	47	97	6	8	-	-	10	10	2500
6	Pembroke ...	142	976·2	-5·6	SW'S	6	ir	46	92	7	5	-	-	10	10	1500
7	Holyhead ...	26	976·1	-4·4	SE'S	4	r	44	85	7	5	2	-	7·8	10	800
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	983·3	-4·8	SE'E	5	r	41	97	4	5	-	-	10	10	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	982·7	-3·0	SW	3	bc	38	92	6	5	-	-	4·6	4·6	800
11	St. Abb's Head .	280	981·7	-3·0	ESE	4	m	37	97	4	5	2	-	7·8	10	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	978·5	-3·8	SSW	3	o	43	97	7	10	2	-	10	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	978·9	-2·2	ESE	5	c/pr	44	85	7	5	2	-	9	10	2500
15	Dalwhinnie ...	1178	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	980·8	-2·8	SSW	5	c	40	85	8	5	2	-	7·8	10	1500
16	Lerwick ...	156	985·2	-2·0	ESE	4	c/pr	41	85	8	8	7	-	4·6	7·8	1500
17	Blacksod Point	18	977·5	-2·0	W	5	c	40	85	7	9	-	-	7·8	7·8	450
18	Malin Head ...	84	979·8	-4·2	S	4	c	41	97	7	8	-	-	9+	9+	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	980·4	0	W'N	5	PR	44	97	8	6	-	-	7·8	7·8	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 9th 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)	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)
975·7	-2·6	SW	4	c/r	44	85	8	5	-	-	9+	9+	1500	1	*
976·2	-2·8	WSW	5	ir	45	85	7	5	-	-	10	10	1500	1	*
976·5	-6	W'S	5	c/r	42	85	5	5	-	-	9	9	2500	1	*
977·8	+2	W'S	5	pr.	40	92	7	9	2	-	9	10	800	1	*
980·6	+1·8	SW'W	4	c	42	85	8	8	7	-	4·6	9+	1500	1	3
977·9	-3·4	SW	4	c/r	43	85	7	5	-	2	7·8	9	1500	1	§3
975·8	-5·4	SSW	5	rr.	45	85	8	6	7	-	4·6	9+	800	1	*
975·5	-4·2	SW	4	c	45	92	7	9	7	-	7·8	9+	1500	1	*
975·5	-5·4	SSE	4	c/r	42	97	6	5	2	-	9	10	1500	1	3
976·5	-4·8	SE	5	rr.	43	97	6	6	-	-	10	10	800	1	3
973·4	-6·0	SSE	4	ir.	44	97	7	5	-	-	10	10	1500	1	*
9731	-6·0	SE	4	rr	42	97	5	6	-	-	10	10	800	1	*
973·7	-2·2	WSW	3	bc	39	85	7	5	-	8	2·3	4·6	800	1	*
974·7	-1·6	W	5	c	40	92	7	5	7	-	4·6	7·8	800	1	*
975·6	0	SW	4	c	41	75	8	8	-	-	9	9	2500	1	*
977·5	+0	WSW	4	bc	45	92	8	8	-	-	4·6	4·6	2500	1	*
979·1	+2·0	W	6	pr.	43	92	7	5	-	-	10	10	1500	1	4
981·9	+0	W'S	3	c/pr	40	85	6	9	-	-	7·8	7·8	1500	1	2
980·0	+6·4	W	7	bc	43	75	8	9	-	-	4·6	4·6	1500	1	4
983·4	-2	W'N	7	bc/pbn	43	85	8	9	-	-	4·6	4·6	1500	1	5
983·9	0	WSW	6	q	45	75	7	8	-	-	7·8	7·8	2500	1	4
977·7	+0	WNW	5	q	43	75	8	8	-	-	7·8	7·8	1500	1	4
972·6	+0	W'N	6	c	42	85	8	5	-	-	10	10	2500	1	3
972·6	-1·6	W	4	c/r	39	85	7	6	-	-	9	9	1500	1	*
972·8	-3·4	SW'S	2	RR	37	92	7	6	2	-	7·8	10	800	2	*
974·3	-5·0	SE	5	RR	41	97	5	5	-	-	10	10	1500	1	4
977·6	-2·0	ESE	3	r.	40	97	6	6	-	-	10	10	800	1	*
973·9	-4·0	S	5	ir.	43	97	6	6	-	-	10	10	800	1	2
973·7	-3·6	SE	6	ir	41	92	5	5	2	-	7·8	10	800	1	3
974·8	-4·0	ESE	5	c	43	85	7	8	-	-	9	9	1500	0	*
975·7	-1·6	ESE	5	c	42	85	7	5	-	-	7·8	7·8	4000	1	3
974·8	-4·0	SE	3	rr	36	92	5	6	-	-	10	10	1500	1	*
977·3	-2·0	SE	5	o	43	65	7	6	-	-	10	10	1500	1	3
977·5	-1·6	S	5	c	43	75	6	5	2	-	9	10	800	1	3
982·4	-1·0	SE	5	c	43	75	8	8	7	-	4·6	7·8	1500	1	*
976·9	-1·0	W	5	bc	40	75	8	9	-	-	4·6	4·6	1500	1	3
978·8	-5·8	SW'W	5	rr.	41	97	6	9	-	-	10	10	800	1	3
979·9	-1·0	WSW	4	c	37	92	7	5	-	-	10	10	1500	1	*
977·0	+4	W	1	bc	35	92	8	-	4	-	0	2·3	4000	1	*
980·0	-1·0	W'S	5	c	45	65	8	8	-	-	7·8	7·8	2500	1	4
980·2	-2	W	23	bc	38	92	8	5	-	-	4·6	4·6	1500	1	3

PAST 24 HOURS.

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 8th Hrs. (36)
46	43	40	0·3	2	0·6
47	44	42	1	4	0·6
47	44	42	1	4	0·6
47	42	37	1	3	0·6
46	39	38	2	1	0·3
48	41	40	1	3	0·4
44	42	40	0·6	5	1·3
47	42	39	0·1	4	1·8
46	41	40	0·1	4	1·3
44	40	39	-	7	2·8
44	38	35	-	2	5·4
45	38	35	0·1	4	2·6
46	36	32	-	4	4·2
42	39	37	Tr	11	1·1
43	40	37	0·4	2	*
44	41	38	2	3	0·2
46	37	33	4	11	0·0
48	42	*	1	4	*
50	40	37	1	12	1·1
50	41	*	0·3	18	1·4
51	41	*	0·4	13	2·1
50	43	39	1	7	0·2
49	42	*	4	4	0·0
47	40	39	0·6	8	0·8
48	39	35	-	5	5·2
46	37	35	0·6	10	3·8
43	39	*	-	2	4·5
41	32	29	-	2	2·4
42	37	32	-	0·4	0·3
42	35	*	-	0·4	*
41	35	32	Tr	0·4	4·1
40	38	37	0·6	1	0·0
38	36	36	0·3	1	0·1
44	41	*	2	10	0·8
43	40	39	3	4	0·0
44	42	*	2	2	0·3
38	33	31	-	2	1·7
43	33	24	-	1	4·0
42	39	*	-	4	*
43	40	*	1	0·5	0·3
48	35	*	2	11	*
43	38	*	1	3	0·0
42	36	34	1	10	0·2
45	34	*	1	4	0·5
48	38	33	0·6	7	0·0
47	37	*	0·6	10	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day mm.	Rainfall. Night mm.	Sunshine to Sunset hrs.	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew...	18	bc mc wc	c mi r.	ci rm	46	43	40	0·3	2	0·6	•	•	7
Croydon	217	bb mc m‡	c r r.	ad d m r	47	44	42	1	4	0·6	•	•	8
Greenwich (Royal Observatory)...	149	c m	a d m	d m c i r c	46	41	37	0·5	2	0·3	80	80	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·1	•	•	•
Westminster (St. James' Park) ...	27	*	*	*	47	38	38	1	1	0·1	91	80	•
Regents Pk. (Botanic Gardens)‡...	158	*	*	*	47	38	36	-	1·8	0·0	77	83	•
Camden Square	110	bc	bc	•	45	38	35	0·5	2	•	•	79	•
Kensington	80	bc		•	46	38	36	0·2	2·2	0·4	At 18h 84	81	•
Hampstead Observatory	450	or§	or	bc	44	34	29	1	2	0·2	•	87	•

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. January 8th. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. January 9th. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	998·6	SSW	2	ir	43	996·1	WSW	6	c/pr	46
Brussels	997·6	S	3	o.	39	981·4	S	6	rr.	41
Berlin	999·1	S'W	2	c/r	36	996·9	SSE	3	≡.	30
Zurich						999·1	SE	1	RR	36
Rome	1002·5	-	0	bc	41	1002	SSE	6	o	46

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
1·0	17·20h 8th	0·3	2·4h 9th

Kew Observatory. Max.	Time.	Min.	Time.
0·3	19h 8th	0·1	6–7h 9th

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
45	*	1	*
41	39	0·2	3
36	30	0·1	2
	34		1
*	*	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 ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 10th January, 1938.
No. 27808.

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)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	980·1	+1·6	WSW	4	c	44	65	7	4	-	8	4-6	9	2500
	Croydon ...	980·9	+1·8	W	6	c	43	75	6	1	3	3	9	9+	2500
	S. Farnborough	981·1	+1·4	WSW	4	c	43	75	8	2	7	1	2-3	7-8	1500
	Boscombe Down	982·0	+1·6	W'S	3	pr.	39	92	7	9	2	-	9	9+	800
	Calshot (Sthmtn.)	982·9	+1·4	SWW	4	c	43	75	8	8	6	3	4-6	7-8	1500
	Lympne ...	981·1	+1·4	WSW	6	c	44	65	8	4	7	8	4-6	7-8	1500
	Manston ...	979·7	+2·0	WSW	4	c	43	65	8	5	2	-	2-3	9	2500
2	Shoeburyness ...	979·5	+1·4	SWW	4	c	43	75	7	1	-	6	1	9	2500
	Felixstowe ...	978·3	+2·2	SW	5	c	43	75	8	5	-	3	9	9+	1500
	Gorleston ...	978·8	+1·0	WSW	5	c	43	75	6	8	-	-	9	9	2500
	Mildenhall ...	976·9	+1·8	WSW	6	c	45	75	8	8	5	4	7-8	9	2500
	Cranwell ...	975·2	+1·6	SWW	5	c	41	85	7	8	-	1	9	9	2500
3	Birmingham ...	977·4	+1·0	W	4	bc	41	65	7	3	-	-	4-6	4-6	2500
4	Upper Heyford	978·9	+1·4	W'S	4	c	40	75	7	8	7	2	4-6	7-8	2500
	Ross-on-Wye	979·0	+·4	SWW	5	q	42	65	9	2	-	1	2-3	2-3	4000
5	Bristol ...	981·2	+·6	W	5	phr	41	85	8	8	-	-	4-6	4-6	2500
	Portland Bill ...	982·5	+·6	W	5	c	45	75	8	4	4	8	7-8	9	2500
	Plymouth ...	983·3	-·6	WSW	4	c/pr	44	75	7	3	7	3	4-6	9+	2500
	The Lizard ...	983·1	-2·0	W	7	c/prh	45	65	8	9	-	-	7-8	7-8	800
	Scilly (St. Mary's)	982·5	-1·4	W'S	7	c	46	65	8	8	6	3	4-6	7-8	1500
	Guernsey ...	986·4	+·6	WSW	5	pr.	42	85	7	8	-	-	9+	9+	1500
6	Pembroke ...	978·0	-·4	WSW	6	q	45	97	8	9	7	-	4-6	7-8	2500
7	Holyhead ...	975·1	+·8	WSW	4	c	42	75	8	8	3	-	7-8	7-8	2500
	Chester (Sealand)	975·2	+·6	W'S	5	bc	45	55	8	8	-	-	2-3	2-3	2500
8	Manchester ...	974·1	+1·2	W'S	5	pr.	42	75	6	8	3	-	4-6	4-6	2500
10	Spurn Head ...	972·1	0	W	6	q	42	85	6	5	3	8	4-6	9+	1500
	Catterick ...	970·2	-1·2	WSW	4	c	40	85	8	5	3	-	4-6	7-8	2500
	Tynemouth ...	969·2	-2·0	S	2	ir	41	92	6	-	2	-	10	10	1500
11	St. Abbs Head	969·0	-2·4	SE	5	RR	41	92	6	5	2	-	7-8	10	800
	Leuchars ...	970·7	-2·6	E	4	r.	42	97	6	5	-	-	10	10	800
12	Renfrew (Abbotsl.)	970·6	-1·4	WSW	2	RR	36	92	5	5	-	-	10	10	800
	Eskdalemuir ...	969·1	-1·0	S	2	rr	36	92	6	-	2	-	10	10	800
	Point of Ayre ...	971·7	+·8	WNW	6	c	41	85	8	8	2	-	7-8	10	2500
13a	Tiree ...	968·9	-·4	SE'E	3	c	42·1	85	6	5	-	-	9+	9+	1500
13b	Stornoway ...	975·2	0	E	6	r.	43	75	6	5	2	-	4-6	10	2500
15	Dalwhinnie ...	972·6	-2·0	E	4	rr	38	85	7	6	-	-	10	10	2500
	Aberdeen ...	974·5	-2·0	ESE	6	c/pr	43	75	7	8	-	-	10	10	1500
16	Wick ...	976·6	-·8	SE	5	c	44	75	7	5	2	-	7-8	10	1500
	Lerwick ...	983·2	+·2	SSE	7	c	41	75	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	974·7	-1·8	W	3	bc	41	85	8	9	-	-	4-6	4-6	800
18	Malin Head ...	969·3	+·4	W	5	u	41	97	7	9	-	7	4-6	10	800
	Aldergrove ...	971·9	-·6	WSW	4	c	38	85	8	8	7	-	1	9	1500
19	Birr Castle ...	976·5	-·8	SW	1	bc/pr	34	97	8	8	-	-	4-6	4-6	1500
20	Valentia Obsy. †	977·3	-2·2	SWW	6	c	43	65	8	9	-	-	9+	9+	2500
	Roches Point	978·8	-·6	WN	4	prs.	41	85	8	6	-	3	7-8	9	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)	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)	980·2	-·6	SSW	3	bc	40	75	7	5	-	-	4-6	4-6	2500	1	*
Croydon ...	981·0	-·4	SW'S	4	z.	38	85	6	-	5	3	0	4-6	-	1	*
S. Farnborough	980·5	-1·2	SSW	3	c	39	85	7	7	7	8	2-3	7-8	2500	1	*
Boscombe Down	980·4	-1·0	SSW	3	c	35	85	7	9	1	3	4-6	7-8	800	1	*
Calshot (Sthmtn.)	981·8	-1·0	WSW	3	c	42	92	6	8	7	-	7-8	9	1500	1	2
Lympne ...	982·7	+·2	SW'S	4	c	36	85	7	8	6	3	4-6	7-8	4000	1	5 4
Manston ...	981·9	+1·0	SW'W	3	bc	38	75	7	8	-	-	2-3	2-3	2500	1	*
Shoeburyness ...	981·0	0	SW	4	b	40	85	7	-	4	-	0	Tr	-	1	*
Felixstowe ...	980·8	+1·0	SW'S	4	bc	39	75	7	5	-	9	2-3	4-6	1500	1	2
Gorleston ...	979·3	+1·2	SW	4	b	38	85	7	-	-	-	0	0	-	1	2
Mildenhall ...	978·5	+·8	SW'S	4	bc	38	85	7	-	3	3	0	2-3	-	1	*
Cranwell ...	977·0	+1·4	SW'S	4	b	36	85	6	5	-	-	1	1	2500	1	*
Birmingham ...	977·6	0	SSW	2	bc	37	85	7	5	-	-	4-6	4-6	1500	1	*
Upper Heyford	979·2	0	WSW	3	c	37	92	7	5	7	-	7-8	9+	1500	1	*
Ross-on-Wye	978·2	-·6	SW	4	bc	37	85	8	8	-	3	1	2-3	2500	1	*
Bristol ...	979·4	-·8	SSW	3	bc	37	85	8	3	-	-	2-3	2-3	1500	1	*
Portland Bill ...	981·0	-1·2	W	4	bc	44	85	8	4	4	-	2-3	4-6	2500	1	4
Plymouth ...	980·8	-2·0	WSW	4	z.	44	75	6	9	7	-	4-6	10	1500	1	2
The Lizard ...	981·0	-·6	WSW	6	q	43	85	7	9	7	-	4-6	4-6	800	1	4
Scilly (St. Mary's)	980·4	-2·6	WSW	7	c/p	44	75	8	8	6	-	4-6	7-8	1500	1	3
Guernsey ...	984·7	-·6	SW'W	5	c	43	75	7	8	-	-	9	9	2500	1	4
Pembroke ...	976·2	-·6	WSW	6	q	44	75	7	8	-	-	9+	9+	2500	1	5
Holyhead ...	973·8	-·8	WSW	4	bc	41	75	8	8	-	-	2-3	2-3	2500	1	2
Chester (Sealand)	975·4	-·2	S	2	bc	38	75	8	5	4	-	2-3	2-3	4000	1	*
Manchester ...	975·1	+·2	SSW	3	z.	36	75	6	4	-	-	Tr	Tr	2500	1	*
Spurn Head ...	975·2	+1·4	SW	4	b	37	85	6	-	-	-	0	0	-	0	4
Catterick ...	972·4	+·6	SW	2	c	38	85	8	5	7	8	4-6	7-8	2500	1	*
Tynemouth ...	970·3	+1·4	WSW	3	r.r.	37	92	6	6	2	-	4-6	10	800	1	2
St. Abbs Head	969·2	+·8	SW	2	rr	34	97	6	5	2	-	4-6	10	1500	2	2
Leuchars ...	970·0	+·2	ESE	3	pr.	40	92	6	5	-	-	10	10	1500	1	*
Renfrew (Abbotsl.)	970·3	+·6	-	0	sf	33	97	2	-	2	-	10	10	450	7	*
Eskdalemuir ...	970·5	+1·2	SW'W	4	d	34	92	6	5	-	-	10	10	450	6	*
Point of Ayre ...	971·7	0	W	4	bc	38	85	8	2	4	-	2-3	2-3	2500	1	3
Tiree ...	968·6	0	E'S	2	c/r	40	92	8	5	2	-	9	10	1500	1	3
Stornoway ...	974·9	0	E	7	c	43	75	7	6	1	-	7-8	10	1500	1	4
Dalwhinnie ...	971·5	-2	ENE	4	RR	35	92	5	8	-	-	10	10	1500	1	*
Aberdeen ...	973·1	-·6	E	6	rr	41	85	6	9	-	-	10	10	800	1	4
Wick ...	976·3	0	ESE	8	pr.	43	85	7	8	2	-	7-8	10	1500	1	4
Lerwick ...	983·2	0	SE	8	c	40	85	7	8	7	-	7-8	10	800	1	*
Blacksod Point	974·4	0	W	3	c	37	92	8	9	-	-	7-8	7-8	800	1	3
Malin Head ...	968·9	0	SW	4	bc	38	97	7	8	-	2	2-3	4-6	800	1	4
Aldergrove ...	971·7	-2	SW'S	3	bc	35	92	8	5	1	8	Tr	2-3	1500	1	*
Birr Castle ...	974·1	-1·0	SW	1	c	41	97	8	8	7	-	4-6	9	1500	1	*
Valentia Obsy. †	976·1	+·6	NW'W	6	c/phr	43	65	8	9	-	-	9	9	2500	1	5
Roches Point	975·4	-1·4	W'N	4	pr.	40	85	7	6	-	-	7-8	7-8	1500	1	3

PAST 24 HOURS.

Stations.	Weather. 7h.—13h. 9th. (37)	Weather. 13h.—18h. 9th. (38)	Weather. 18h. 9th to 1h. 10th. (39)	Weather. 1h.—7h. 10th. (40)
London (Kew)	cbcc	cbc	bcbx.	bxcrn.c.
Croydon ...	cir.m.⊕	cpr.bc W	bcbw.cir	bcr.r.c.
S. Farnborough	cbcc	cbbcc	bbbrh	cir.rrc.
Boscombe Down	cprq	cprq.bc	bccr.r.	corr.bc
Calshot (Sthmtn.)	cbc	bccpr	cbcprPR	bcpr.bl.
Lympne ...	c	cbcc	bccpric.cphrq	cphrq.prq
Manston ...	cr.r.bcc	cbcb	bcpr.	bccpr.rc
Shoeburyness ...	c	cbcb	cb.	b,crrc
Felixstowe ...	cm.c	cbc	bcbc	bcqpr.rrc
Gorleston ...	cr.cq	cbcbq	cbcz.	cpr.prr.
Mildenhall ...	cqam.prq	cb	bccb	bcr.r.r
Cranwell ...	rrc	cbcb	bm.cbc	r.r.r.r.r
Birmingham ...	bcb	bcr.s	r.bcc	cbcpr
Upper Heyford	c	bccprhc	cbcbx	bccprc
Ross-on-Wye	bccq	cbc	c	crbcc
Bristol ...	bcpr.	bccr.s.bc	bbcpr.	bcpr.
Portland Bill ...	cprc	cbc	cpr.c	c
Plymouth ...	cpr.	cpctlr.m	cm.r.pr.c	cm.pr.c
The Lizard ...	cpr.	cphrq	cprql	bcqpr.
Scilly (St. Mary's)	cp.q	cp.qc	cprlq	bcp.q
Guernsey ...	q PHR	c HR	cprq.bc	bcpr
Pembroke ...	cqpr	cprq	cqrrc	crrq.
Holyhead ...	c,bc	c,bc	bc,b.	bcr.r.c
Chester (Sealand)	cr.bc	bcy	bcrrr	cbcm.m
Manchester ...	Rr.cpr.	bcbm.	bm.	bmcr.m.
Spurn Head ...	Rroc	cqbc	bc	cpr.c.
Catterick ...	cm.r.c	cpr.c	bcbx	bxcfx
Tynemouth ...	c1rrr	offrr	cr.r.bc	bc
St. Abbs Head	RRc	rrm.c	ir.c	crsbc
Leuchars ...	car.d.r.m	cam.rrr.	crrair.	cirom.
Renfrew (Abbotsl.)	cm.RRq	offss	fffSS.	offs.s.
Eskdalemuir ...	r.r.rr	SSrs	rs.s.	is.
Point of Ayre ...	rrc	cbc	bc	bcx
Tiree ...	cz.g	zcRr	c	cbc
Stornoway ...	r.r.c	r.r.rrc	c.	cbcc
Dalwhinnie ...	crr	cir	*	cir
Aberdeen ...	ccpr.	pr.rr	rreir	circ
Wick ...	c	cpr.	cprq	cprcq
Lerwick ...	phpr	cprq	bccphr	cphr
Blacksod Point	phrc	prhc	PRcq.	PRcq.
Malin Head ...	cir.c	cPHRcpr	bc.	cprc.
Aldergrove ...	c	cb	bxbc	bcod.o
Birr Castle ...	bcprs	bcprsc	c	cpr
Valentia Obsy. †	prPHRc	phrphr.c	cphrc	cbco
Roches Point	bccprs	cpr	cprsc	cbcpr

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

o, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s., slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s./k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r., slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ☽, lunar halo. ⸗ gale.
With present weather is combined, whenever possible, the general character of the weather.
A "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 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon inviaible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

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 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.

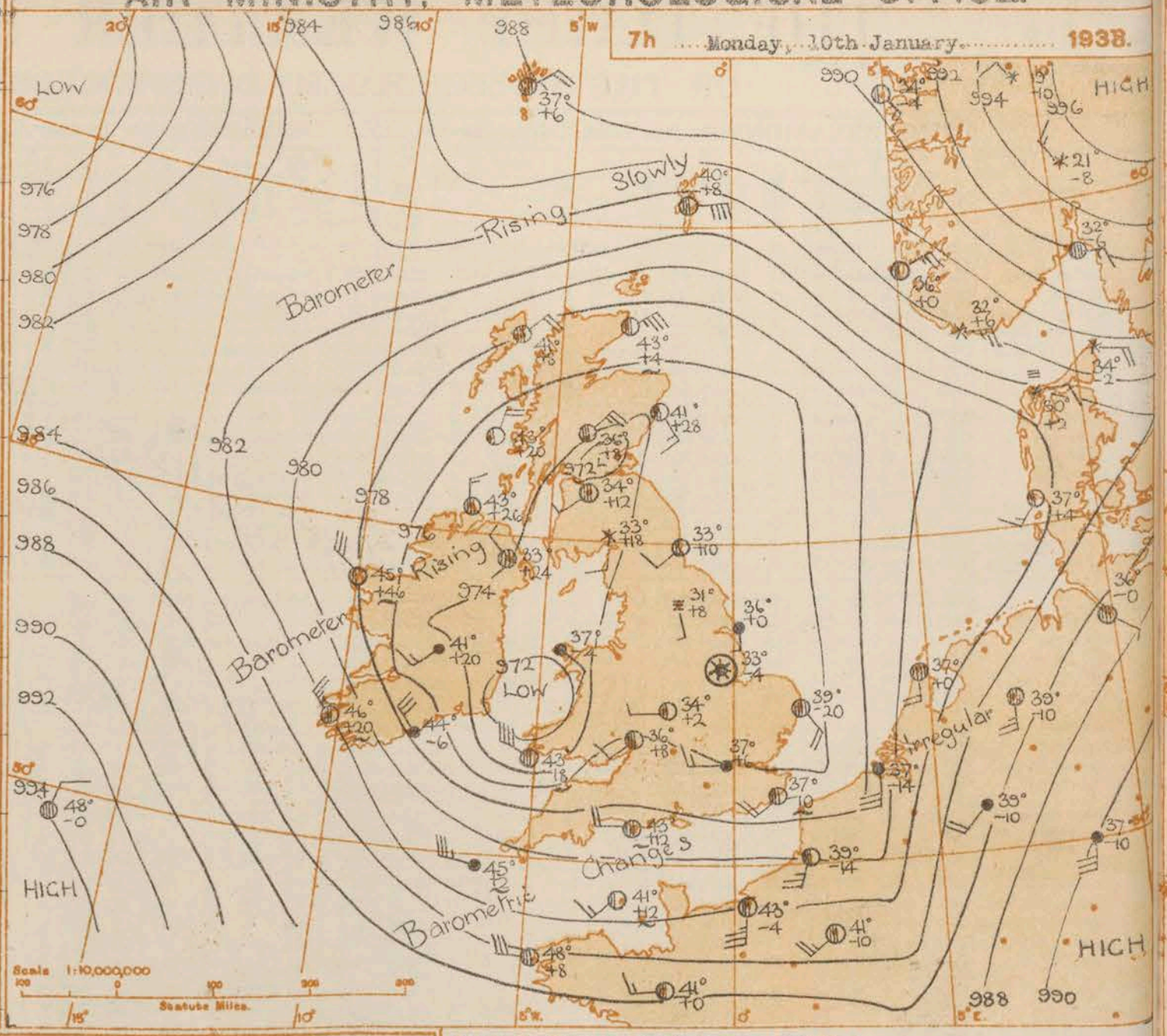
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

† See disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 9th January 1938

Districts	Stations	Weather: Forenoon	Weather: Afternoon	Temperature (°F.): Min. 9h. 8th to 9h. 9th	Temperature (°F.): Max. 9h.—17h. 9th	Rainfall (mm.): Night. 17h. 8th to 9h. 9th	Rainfall (mm.): Day. 9h.—17h. 9th	Sunshine (hrs.): Sunrise to Sunset. 9th
1	Tunbridge W.	oc	bcb	32	44	5	-	2·6
	Bournemouth	b	bbcp	40	45	2	1	3·0
	Ventnor ...	orc	bcrb	40	46	5	0·3	4·4
	Southsea ...	cb	bcrc	41	45	5	1	3·8
	Bognor Regis	cbc	bcphc	38	45	4	1	3·8
	Littlehampton	cbc	bcpc	36	45	4	Trace	3·9
	Worthing ...	cbcb	bbcc	37	46	4	-	3·5
	Brighton ...	cbc	bc	40	45	3	-	3·5
	Eastbourne† ...	cbc	bcphc	44	47	6	0·5	2·9
	Hastings† ...	cbc	bccop	42	47	5	0·3	3·4
	Folkestone ...	cbc	cbcb	36	46	5	-	2·5
	Dover ...	cbc	bcbbc	40	47	6	-	2·2
	Deal	bcco	ocb	39	45	4	-	2·3
	Ramsgate ...	bc	bc	40	46	4	-	3·3
	Margate ...	bc	bc	40	45	5	-	2·2
2	Southend ...	cbc	bcb	38	44	5	-	2·6
	Clacton-on-Sea	orc	cbc	37	43	5	0·3	1·0
	Dovercourt ...	roc	bc	40	44	7	-	1·9
	Lowestoft ...	circ	cbcc	37	43	9	-	0·0
	Skegness ...	ocbc	bcb	34	44	6	-	3·2
	Mablethorpe...	orbc	bc	38	44	7	-	2·3
	Cleethorpes ...	crbc	bc	33	43	7	Trace	1·0
3	Leamington S.	ocbc	c	33	43	6	-	4·3
4	Cheltenham†	bcqc	bcPc	39	41	13	Trace	3·9
5	Bath	cbcp	bbcp	41	43	6	0·5	1·8
	Weymouth ...	cb	bcpc	40	45	5	0·3	1·8
	Jersey ...	rcbc	pcbcc	42	45	8	1	1·4
	Torquay ...	cbcp	cb	38	45	10	1	1·4
	Falmouth	orhbc	rhcoc	38	45	25	1	1·6
	Penzance ...	hcph	cp	39	46	20	1	1·1
	St. Ives ...	h	p	38	43	22	4	0·0
	Bude... ...	cphbc	cph	41	46	6	1	0·7
	Ilfracombe ...	orro	obcpo	40	45	5	4	0·6
6	Aberystwyth	prbcc	bcpr	37	44	2	4	2·9
7	Llandudno ...	bc	bcb	39	44	2	-	5·1
	Colwyn Bay...	cbc	bcb	38	43	2	-	3·7
	Rhyl	cbc	bcb	38	44	2	-	4·8
8	Wallasey ...	Rcbc	bcb	39	43	8	0·3	3·9
	Southport ...	obc	bcpc	39	42	11	0·3	2·7
	Blackpool ...	orPc	bcp	38	43	9	2	1·7
	Morecambe ...	rcbcc	bcc	34	42	11	0·5	2·5
9	Ilkley... ...	rror	oc	37	40	16	2	0·0
	Harrogate ..	crc	cPbq	34	39	10	3	0·9
10	Berwick-on-T.	orrm.	rrsmo	34	43	3	12	0·0
11	Dunbar ...	cr.	crr	35	43	2	9	0·0
12	Troon... ...	rroro	roroc	38	41	6	8	0·0
	Douglas ...	bcir	bc	37	43	12	-	3·7

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 10th January, 1938.
1 S.E. England †	Westerly winds, strong to gale locally on coast; occasional rain or sleet, perhaps thunder; rather cold.
2 E. England ...	
3 E. Midlands ...	Light variable winds, freshening from west; occasional rain or sleet, snow on high ground; rather cold.
4 W. Midlands ...	
5 S.W. England †	Moderate to strong west to northwest winds, gale locally at first, occasional rain, hail or sleet; some bright periods; rather cold.
6 South Wales ... †	
7 North Wales ... †	Moderate to strong northerly winds; occasional rain or sleet; snow on high ground; some bright periods; rather cold, night frost.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	Moderate to fresh northeast winds, backing towards west or southwest; occasional rain or sleet; snow on high ground; rather cold; night frost.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13 A. W. Scotld. B. N.W. Scotland.	Moderate to strong easterly winds; occasional rain, sleet or snow; rather cold.
14 Mid Scotland	
15 N.E. Scotland †	
16 Orkney and Shetland †	
17 N.W. Ireland †	Moderate to strong northwesterly winds, backing temporarily; bright periods with local rain or hail today, occasional rain tomorrow; average temperature; ground frost at night.
18 N.E. Ireland	
19 S.E. Ireland †	
20 S.W. Ireland †	

GENERAL INFERENCE.

A complex depression covering the British Isles will move eastwards across the British Isles and be followed by another at present near Iceland. Weather will be unsettled with rain or sleet at times in most areas and snow on high ground.

FURTHER OUTLOOK.

Continuing unsettled

Times of Issue of Gale Warnings.

† South Cone hoisted at 1910 G.M.T. on 8/1/38 in districts 5, 6, 19 and 20. and parts of districts 1 and 7. † South Cone hoisted at 1530 G.M.T. on 9/1/38 in districts 15 and 16. and part of district 13B.
† South Cone hoisted at 0200 G.M.T. on 10/1/38 in district 17 and remainder of district 1.

Forecasts issued at 10.50 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S.
Director.

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

Hours of observation:—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

MONDAY, 10TH JANUARY,

1938.

Chart Projection Scale 1·4 x 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol:—○

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS:— ○Clear sky. ◔Sky less than 3/16 clouded. ◑Sky 4/10 to 6/10 clouded. ◕Sky 7/10 to 9/10 clouded. ●Overcast sky. ●Rain falling. ✳Snow. ⁂Sleet. △Hail. ≡Fog. ≡Mist. ⓣTornado. ⚡Thunderstorm. ≈Slight haze.

The hour of observation is not uniform throughout the hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 10th January, 1938.
No. 27808.

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

District	Stations	Height above M.S.L. in feet.	Barom at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force 0–12	Weather.	Temp. °F	Humid. %	Visibility. 0–9	Cloud. Form. Low	Form. Med.	Form. High	Amount. Low 0–10	Amount. Total 0–10	Height of Base (feet)
		(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	977.8	-26	SSW	4	c/r	39	92	7	5	–	–	7-8	7-8	1500.
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	981.0	-48	SSW	5	pr.	39	85	7	8	–	–	9	9	1500.
	Manston ...	142	979.6	-16	SW	5	pr.	37	92	8	8	–	–	4-6	4-6	1500.
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	979.2	-6	S	3	bc	38	92	6	–	5	–	0	2-3	–
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	975.0	-30	W	6	c	43	92	7	5	–	–	10	10	2500.
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	978.9	+10	WNW	7	q	44	65	8	9	–	–	4-6	4-6	1500.
	Scilly (St. Mary's)	163	980.2	+10	NWW	6	bc/phr	43	85	8	8	6	–	4-6	4-6	1500.
	Guernsey ..	175	979.7	-16	SWW	6	bc	44	65	8	8	–	–	4-6	4-6	2500.
6	Pembroke ...	142	974.2	+2	NW	6	q	41	85	8	8	–	–	7-8	7-8	2500.
7	Holyhead ...	26	972.9	+4	WN	4	bc	41	85	8	2	–	–	2-3	2-3	2500.
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	974.6	-2	SW	4	bc	35	97	7	5	–	5	2-3	4-6	4000
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	972.6	+10	SW	2	bc	36	92	6	5	–	–	4-6	4-6	1500.
11	St. Abb's Head ..	280	969.0	0	WSW	3	r.	35	92	7	4	6	9	7-8	9+	1500.
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	971.9	0	SSW	2	bc	33	92	8	4	–	3	2-3	2-3	1500.
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	976.5	+14	ENE	5	c	41	75	8	5	7	–	4-6	7-8	2500.
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	975.9	-4	ESE	8	c/pr	42	85	7	8	2	–	7-8	10	800.
16	Lerwick ...	156	982.8	-4	E	8	c/phr	39	85	7	8	2	–	7-8	10	800.
17	Blacksod Point	18	972.0	-20	W	6	q	44	92	7	9	–	–	10	10	450.
18	Malin Head ...	84	969.2	+2	S	4	bc	34	97	7	8	–	–	4-6	4-6	800.
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	980.1	+6	WNW	7	PHR	42	97	8	9	–	–	7-8	7-8	1500.
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	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	Form. Med.	Form. High	Amount. Low 0–10	Amount. Total 0–10	Height of Base (feet)	State of Ground. 0–9	Sea. 0–9
		(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1	London (Kew)	976.0	+6	W	3	c	38	85	7	5	–	–	10	10	1500	1	*
	Croydon ...	975.7	+6	W	3	r.c.	37	92	7	5	–	–	10	10	800	1	*
	S. Farnborough	976.3	+20	WNW	4	r.	36	92	6	5	–	–	10	10	800.	1	*
	Boscombe Down	977.2	+22	WNW	4	bc	35	85	7	5	–	–	2-3	2-3	4000.	1	*
	Calshot (Sthmtn.)	978.0	+18	WSW	4	bc	37	92	8	8	–	–	2-3	2-3	2500	1	3
	Lympne ...	977.1	-10	SW	4	c	37	85	8	5	–	–	9+	9+	2500.	1	4
	Manston ...	975.2	-14	SSW	3	bc	37	85	7	5	–	–	4-6	4-6	2500.	1	*
2	Shoeburyness...	975.4	-4	SWW	5	c	39	85	7	5	–	–	9+	9+	1500	1	*
	Felixstowe ...	975.3	-18	S	4	c.	39	85	7	5	–	–	9+	9+	1500	1	2
	Gorleston ...	975.2	-20	SE'S	4	c/r	39	92	6	6	–	–	10	10	1500.	1	3
	Mildenhall ...	974.3	-12	ENE	2	r.	37	97	6	5	7	–	7-8	9+	1500	1	*
	Cranwell ...	975.8	-4	-	0	rs	33	97	5	-	2	–	10	10	1500	1	*
3	Birmingham ...	974.9	+2	W	1	bc	34	97	5	5	–	–	4-6	4-6	1500.	1	*
	Upper Heyford	975.2	+10	W	4	c	35	97	7	5	7	–	4-6	7-8	800	1	*
4	Ross-on-Wye	976.0	+8	SW	2	c	36	85	8	5	1	–	1	9	2500.	1	*
5	Bristol ...	976.7	+18	WSW	2	bc	35	92	7	9	7	–	4-6	4-6	1500.	1	*
	Portland Bill ...	978.3	+12	W	4	c	43	85	7	5	–	–	9	9	1500.	1	4
	Plymouth ...	979.7	+2	WSW	4	pr.	45	75	8	5	7	–	4-6	9+	1500.	1	2
	The Lizard ...	981.2	+4	WNW	7	q	45	65	8	9	7	–	4-6	7-8	1500.	1	4
	Scilly (St. Mary's)	981.1	+2	WNW	7	pr.	45	75	8	3	–	–	4-6	4-6	1500.	1	4
	Guernsey ..	981.8	+12	SW	3	bc/pr	41	92	7	8	1	–	2-3	4-6	2500	1	4
6	Pembroke ...	972.4	-18	WNW	8	q	43	85	7	8	–	–	9+	9+	1500.	1	5
7	Holyhead ...	973.0	-4	SE'E	2	r.c.	37	97	7	5	2	–	4-6	10	450	1	2
	Chester(Sealand)	974.4	+2	SE	1	m	32	97	4	5	–	–	4-6	4-6	2500	3	*
8	Manchester ...	974.5	+2	S	1	z.	35	97	5	5	–	–	10	10	1500	1	*
10	Spurn Head ...	975.1	0	S	1	r	36	97	5	5	–	–	10	10	1500	1	1
	Catterick ...	975.2	+8	S'E	1	f	31	97	3	-	–	–	10	10	4150	3	*
	Tynemouth ...	973.9	+10	SW	2	bc	33	97	6	2	–	–	4-6	4-6	1500	3	1
11	St. Abb's Head ..	973.0	+20	SE	3	bc	35	92	8	5	4	1	2-3	4-6	2500	1	3
	Leuchars ...	972.6	+24	SSE	3	z.	37	92	6	5	–	–	10	10	800	1	*
12	Renfrew (Abbotsl.)	973.1	+12	SW	1	c/r	34	97	6	–	2	–	10	10	2500	7	*
	Eskdalemuir ...	974.0	+18	S	2	r.	33	97	6	–	2	–	10	10	450	4	*
	Point of Ayre...	973.5	+8	WSW	2	bc	32	97	8	2	4	–	1	2-3	2500.	3	2
13A	Tiree	974.5	+20	NNE	4	bc	43	75	8	5	4	–	2-3	2-3	2500	0	–
13B	Stornoway ...	977.3	+8	NE	4	c	41	85	8	5	7	–	4-6	7-8	4000	1	2
15	Dalwhinnie ...	974.3	+6	NE	5	c	36	92	5	8	–	–	10	10	1500	1	*
	Aberdeen ...	974.2	+28	SE'S	3	c	41	75	7	9	–	–	10	10	1500	1	3
	Wick ...	976.5	+4	ENE	7	c	43	85	7	8	2	–	7-8	10	800	1	4
16	Lerwick ...	983.6	+8	E	8	c/phr	40	75	7	8	2	–	7-8	10	800	1	*
17	Blacksod Point	978.5	+46	NW	6	q	45	75	7	9	–	–	4-6	4-6	450	1	4
18	Malin Head ...	974.6	+26	N	3	c	43	92	7	8	2	–	7-8	9+	800	1	3
	Aldergrove ...	974.2	+24	NW	1	c/d	33	97	6	5	–	–	10	10	800	1	*
19	Birr Castle ...	974.4	+20	SW	3	pr	41	92	7	8	–	–	7-8	7-8	1500	1	*
20	Valentia Obsy. †	983.1	+20	NW	5	c	46	65	8	8	–	–	7-8	7-8	2500	1	4
	Roches Point	977.7	-6	NW	6	pr.	44	75	8	3	–	1-	4-6	4-6	1500	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F.	Min. Night 18h–7h °F	Min. on Grass °F.	Rainfall. Day 7h–18h mm.	Rainfall. Night 18h–7h mm.	Sunshine 24h hrs.
		(31)	(32)	(33)	(34)	(35)	(36)
1	London (Kew)	44	35	28	Tr	1	2.1.
	Croydon ...	45	36	33	Tr	1	0.8.
	S. Farnborough	44	35	31	-	4	2.6
	Boscombe Down	42	33	31	1	3	1.5.
	Calshot (Sthmtn.)	46	37	35	0.4	5	3.5.
	Lympne ...	45	35	30	-	8	2.6.
	Manston ...	45°	34	30	-	4	3.1
2	Shoeburyness...	45	37	31	-	3	2.7.
	Felixstowe ...	44	36	33	-	3	1.4.
	Gorleston ...	44	34	30	7	3	0.9.
	Mildenhall ...	45	35	29	1	1	3.4.
	Cranwell ...	43	31	28	0.4	1	3.0.
3	Birmingham ...	42	34	31	0.2	1	5.3.
	Upper Heyford	43	33	28	0.2	0.6.	*
4	Ross-on-Wye	44	34	30	-	2	4.1.
5	Bristol ...	43	35	30	2	2	1.7.
	Portland Bill ...	46	40.	*	2	1	*
	Plymouth ...	45	39	35	1	2	1.3.
	The Lizard ...	46	39.	*	2	2	1.2.
	Scilly (St. Mary's)	46	39	*	1	2	1.1.
	Guernsey ..	46	40	32	8	4	0.7.
6	Pembroke ...	45	36	*	1	12	0.7.
7	Holyhead ...	43	36	32	–	1	4.7.
	Chester(Sealand)	45	32	27	Tr	3	4.5.
8	Manchester ...	43	33	28	3	0.2	2.5.
10	Spurn Head ...	43	34	*	5	1	0.7.
	Catterick ...	41	31	28	6	–	1.5.
	Tynemouth ...	44	33	28	12	0.2	0.0.
11	St. Abb's Head ..	42	33	*	24	5	*
	Leuchars ...	43	37	34	12	13	0.0.
12	Renfrew (Abbotsl.)	41	32	32	9	17	0.0.
	Eskdalemuir ...	40	32	31	4	1	0.0.
	Point of Ayre...	43	29	*	8	-	0.9.
13A	Tiree	43	39	38	4	-	0.0
13B	Stornoway ...	44	41	*	1	–	0.0.
15	Dalwhinnie ...	39	34	32	4	1	0.0.
	Aberdeen ...	43	40	39	2	3	0.0.
	Wick ...	44	39.	*	0.1	0.3	*
16	Lerwick ...	44	35	*	0.6	0.4.	0.0.
17	Blacksod Point	42	33	*	0.6	11	*
18	Malin Head ...	42	37	*	2	0.4	0.0.
	Aldergrove ...	35	31	27	-	Tr	0.6.
19	Birr Castle ...	36	32	*	2	5	0.7.
20	Valentia Obsy. †	46	39	36	6	1	0.5.
	Roches Point	42	37.	*	2	1	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cbcc	cbc	bxr.c	44	35	28	Tr	1	2.1	*	*	5
Croydon	217	cir.m.	cpr.bdl	ber.bw.	45	36	33	Tr	1	0.8.	*	*	6.
Greenwich (Royal Observatory)...	149	c@	cbc	bwcdc	44	36	30	-	0.5	1.6	69	83	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	1.1	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	45	38	32	2		1.9	71	88	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	44	37	34	-	2	0.8	66	91	*
Camden Square	110	bc	bc	*	44	37	32	-	2	*	*	87	*
Kensington	80	bc	cox	*	44	37	30	-	2	1.6.	At 18h. 77	86.	*
Hampstead Observatory	456	bc	bc	bcor	43	36	29	-	1	2.6.	*	94.	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 10th.

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

Kew Observatory. Max.	Time.	Min.	Time.
0.2	20h 9th	40.1	0-7h 10th.

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.
Paris	990.2	SSW	4	bc	43	984.7	SW	5	q	41
Brussels	985.9	SW	5	b	39					
Berlin						991.0	S	3	bc	32
Zurich	1000.8	SSW	4	c	41	998.0	SE	2	c	32
Rome						1001.7	SW	5	dd	54

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
46	39	Tr.	0.1
45		3.	
*	25		Tr.
*	*	5.	-
*	*		5.

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

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

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h.

§ Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 11th January, 1938.
No. 27809.

District	Stations. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 10th 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)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)	OBSERVATIONS at 18h. G.M.T. 10th 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)	Form. Med. (24)	Form. High. (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)	PAST 24 HOURS. WEATHER. 7h.—13h. 10th. (37)	13h.—18h. 10th. (38)	18h. 10th.—1h. 11th. (39)	1h.—7h. 11th. (40)
1	London (Kew)	977.1	-12	NE	2	r,r,	38	92	5	5	-	-	10	10	2500	984.2	+48	WNW	3	z,	38	85	5	5	-	-	10	10	1500	1	*	bc,rs	or,fcm,	cm,bcx.	cm,x
	Croydon ...	977.4	-14	S	3	rs	37	92	6	5	2	-	7-8	10	1500	984.0	+50	NW'W	3	m	37	92	4	5	-	-	10	10	2500	1	*	r,r,rs.	r,s,s,f,d,r,	cm,bc,bm,x	bx,bc,cm,
	S. Farnborough	976.6	-22	-	0	c/r	38	92	6	6	2	-	7-8	10	1500	985.4	+48	WNW	3	z,	36	85	6	6	2	-	9+	9+	1500	1	*	cbc,r,rs,	c,i,d,r,cm,	bc,bm,	bm,
	Boscombe Down	976.8	-6	W	4	c	40	92	7	5	7	-	9	9+	1500	986.4	+54	NW'N	3	bc	36	85	7	5	-	-	2-3	2-3	1500	1	*	bc,c,ph,c	cbc	c,b.	b
	Calshot (Stn.Mtn.)	977.5	-18	WSW	4	c	43	85	8	8	7	-	4-6	9	1500	986.3	+68	WNW	4	c	38	85	7	8	-	-	7-8	7-8	1500	1	3	cpr,q,rr	c	pc,bw,bc,c,b	b
	Lympne ...	979.5	-2	SW	4	ir	38	85	6	-	2	-	10	10	1500	982.5	+40	NW'N	3	o/r	35	92	5	6	-	-	10	10	450	1	§ 3	c,ir,bcc	om,rs,rr,	c,c,cm,	bc,bx,cm,
	Manston ...	978.6	+6	WSW	4	c.	40	75	7	5	7	-	Tr	9	2500	981.5	+30	NNW	4	r, r,	37	85	5	5	-	-	10	10	1500	1	*	c,d,bcc	r,r,rs,m,	c,m,d,d,m,	c,bc,m,m,x
2	Shoeburyness ...	978.3	+4	SW'S	2	c	40	85	6	5	7	-	4-6	9	2500	982.8	+40	WNW	3	c	37	85	6	5	-	-	9+	9+	1500	1	*	ir,bc,c,m,	rs,rs,rr,c	cm,	bx,cm,
	Felixstowe ...	978.4	+12	SW'W	3	c	40	85	7	5	4	-	7-8	9	1500	982.1	+28	WNW	2	z,	38	85	5	5	-	-	9+	9+	1500	1	2	c,r,r,ir,	c,bc,c,m,	cm,bc,m,	bc,m,bm,x
	Gorleston ...	977.3	+4	S'W	2	c	38	92	6	8	-	-	10	10	1500	981.4	+20	W	2	d, d,	37	92	5	6	-	-	10	10	800	1	2	c,o,ir,c	c,ir,d,	o,d,c,z,	ff,o
	Mildenhall ...	977.7	+14	W'S	3	z,	38	97	5	5	-	-	9+	9+	800	982.1	+32	NW'W	3	z,	36	97	5	5	-	-	10	10	1500	1	*	c,r,d,pr,d,f,c	cm,	cm,c,cr,c,m	cm,bff,x
	Cranwell ...	978.4	+12	NW'W	3	m	36	97	4	5	-	-	9+	9+	450	983.8	+34	WNW	3	id,	35	97	4	6	2	-	9	10	800	1	*	r,s,r,s,f,o,f,m	o,f,cm,r,id,	cm,x.	cm,bc,m,x
3	Birmingham ...	978.5	+16	NNW	2	cf	36	97	3	6	2	-	4-6	10	1500	985.9	+46	NW	3	c	35	92	5	-	3	-	0	9	-	1	*	cf	c,f,bcc	cbc	bc,pr,
4	Upper Heyford	977.7	+2	NE	1	ss	33	97	3	-	2	-	10	10	800	984.3	+38	WNW	3	m	34	92	4	5	-	-	9	9	1500	4	*	c,o,n,s,s,s,f	c,f,s,s,r	cm,b,m,	b,bc,bm,
	Ross-on-Wye	979.2	+20	N'W	3	z,	35	92	6	5	-	-	9+	9+	800	986.7	+34	WSW	1	c	35	85	8	5	-	-	9	9	4000	1	*	oc	bcc	c	cpb
5	Bristol ...	978.6	+22	NW	4	c	39	85	7	8	6	-	7-8	7-8	1500	987.2	+44	WNW	1	z,	33	97	6	5	7	-	4-6	4-6	1500	1	*	r,s,s,s,cbc	cbcm,	bcm,bx	bcpr,b,
	Portland Bill ...	978.0	+6	W	6	c	46	85	7	4	-	-	10	10	2500	987.2	+64	NNW	3	c	42	85	7	2	4	-	4-6	7-8	2500	1	4	cpr	c	cpr	c
	Plymouth ...	981.7	+22	NW'W	6	prs,	42	92	6	9	7	-	9+	10	800	988.8	+42	WNW	3	z,	44	85	6	9	8	3	2-3	2-3	1500	1	2	cr,r,p,pr,s	cpr,s,r,r,b,c	bc,cpr,pr,m,	cbcc
	The Lizard ...	984.0	+20	W'N	7	q	49	75	8	9	-	-	7-8	7-8	1500	990.8	+30	WNW	7	c	47	75	8	8	-	-	7-8	7-8	1500	1	4	cpr,q,c	cq	cbc	bc,cpr
	Scilly (St.Mary's)	985.5	+16	WNW	7	lp	49	75	7	8	-	-	4-6	4-6	1500	991.7	+36	NW'W	6	bc	47	75	8	8	6	1	2-3	4-6	1500	1	4	p, q, b, c	bc	cp,c	co,d,
	Guernsey ...	982.4	+16	WS	7	ir,	47	75	7	5	-	-	10	10	2500	988.6	+36	WNW	5	c	45	85	7	8	-	-	9+	9+	2500	1	5	cpr,b	o,i,r,c	cpr	cbc
6	Pembroke ...	982.5	+20	NW	5	q	43	85	7	8	6	-	4-6	4-6	2500	987.2	+32	NW	5	q	46	75	8	7	6	-	4-6	9+	2500	1	4	c,b,c,q	b,c,q,c	b,c,b,q,	b,c,q,p,r,c
7	Holyhead ...	979.8	+30	WNW	3	pr,	41	85	8	9	4	-	9	9+	1500	984.5	+26	NW'W	4 5	pr	45	85	7	8	8	-	7-8	9+	2500	1	2	b,c,pr,c	pr,c	c	ci,c,
	Chester (Sealand)	980.0	+26	W	1	bc,f-	35	97	3	5	7	-	4-6	4-6	450	985.8	+36	W'N	1	r, r,	37	92	6	-	2	-	10	10	2500	1	*	b,a,n,f,o,f,x	b,c,f,m,c,m,	f,r,c,r,m,	cr,r,p,r,m,
8	Manchester ...	979.2	+22	NW	1	m	37	85	4	8	3	-	4-6	7-8	2500	985.1	+36	W	1	cf	34	97	3	5	3	-	7-8	9+	4000	1	*	cm,s,f,f,m	cm,b,c,f,c,f	c,o,ff.	ff,r,pr,b,c,f
10	Spurn Head ...	977.7	+2	N'E	3	c	40	92	7	5	9	5	4-6	9+	2500	982.4	+20	NW'N	3	bc	38	97	7	2	4	-	4-6	4-6	2500	1	2	Rm,c	cpr,c	prbcw	bcmb
	Catterick ...	979.2	+12	NW'N	1	c	38	85	7	5	7	-	7-8	9	1500	984.9	+34	NW'W	2	z,	37	85	6	5	7	-	9	9+	1500	1	*	c,f,s,m,c	c,c,m,	cm,bcx.	bc,x,c,x
	Tynemouth ...	979.6	+20	NW	1	cf-	36	85	3	8	-	-	7-8	7-8	1500	983.9	+24	W	2	o/r	38	85	5	6	-	-	10	10	800	3	1	bc,c,f,f	c,f,f,o,ir,	oc	c,bc,o.
11	St Abbs Head .	979.7	+24	-	0	bc	37	85	7	-	7	-	0	2-3	-	984.6	+20	NW	1	b	36	85	8	-	-	-	0	0	-	1	2	b	bcb	b	bbcc.
12	Leuchars ...	980.4	+28	SE	2	b	43	75	7	8	4	1	Tr	Tr	2500	985.0	+28	W	1	b	31	97	7	-	-	1	0	Tr	-	1	*	bm,c,b	bm,b,x	bxm,m,m,	bm,c,p,s,h,
	Montrose (Abbotsl.)	979.9	+28	NE	2	z,	36	92	5	5	-	-	9+	9+	800	985.8	+34	E	1	cf	35	92	3	5	-	-	10	10	1500	6	*	o,i,d,f,c	cm,m,f,f	f,f,b,o,f.	a,c,b,c,f,f
	Fakdalemuir ...	980.1	+20	-	0	c	33	92	6	5	-	-	9+	9+	1500	986.0	+30	NE'N	1	bc	25	92	5	5	-	-	2-3	2-3	4000	4	*	s,s,l,s,c	c,b,x	b,b,c,x,m,	s,s,x
	Point of Ayre...	979.1	+28	WSW	2	pr	37	97	6	8	1	-	4-6	10	800	984.6	+44	ESE	1	c	37	92	7	5	-	-	7-8	7-8	2500	1	1	c,p,r,s	p,r,c	c,p,r,c	bc
13A	Tiree	979.9	+22	NE'N	2	c	45	65	8	7	4	6	1	9	2500	984.0	+18	W'N	1	bc	40	85	8	5	5	-	4-6	4-6	2500	0	3	bcc	cbc	bc,c,ir	c,ir,
13B	Stornoway ...	981.0	+8	NE	3	c	42	75	8	8	4	9	4-6	9	4000	982.8	+8	WSW	2	c	38	92	7	8	7	-	7-8	7-8	4000	1	1	c	c	c	c,b,c
15	Dalwhinnie ...	980.5	+32	S	3	c	35	75	7	4	6	2	8 2	7-8	2500	985.9	+38	S	1	bc	28	85	8	4	6	-	2-3	4-6	4000	3	*	c,i,r,b,c	b,c,c	*	b,c,c,i,s,
	Aberdeen ...	980.7	+20	SSE	2	z,	43	75	6	1	-	-	Tr	Tr	2500	985.1	+24	NW	2	bc	34	92	6	4	-	-	2-3	2-3	2500	1	2	c,b,z,	b,c,b,x	b,x,m,	b,x,m,c
16	Wick ...	980.6	+20	SSE	4	bc	44	75	8	8	6	1	4-6	4-6	1500	983.9	+10	SSE	4	c	42	75	8	8	7	-	4-6	7-8	1500	1	3	c,b,c,	b,c,c	b,b,c,c	c
	Lerwick ...	985.7	+6	E	6	ir,	39	75	8	6	2	-	7-8	9	800	986.6	+2	E	6	rr	39	92	6	6	2	-	4-6	10	800	1	*	c,r,r,ir,	c,i,r,r,m,	c,r,r,m,	c,p,r,
17	Blacksod Point	985.1	+22	SSE	8	q	46	75	8	9	-	-	10	10	450	989.4	+36	NW	4	bc	44	75	8	9	-	-	2-3	2-3	1500	1	3	cq	prc	cq	prcq.
18	Malin Head ...	979.6	+18	N	2	c	45	97	7	8	-	-	9	9	2500	989.9	+38	NW'W	2	bc	42	97	7	4	-	1	4-6	4-6	1500	1	2	c	cbc	bc,p,r,c,p,	c
	Aldergrove ...	980.0	+20	SW'W	2	c	37	97	7	5	7	-	7-8	9	1500	985.3	+34	W'S	2	c/r	40	97	6	5	-	-	9+	9+	1500	1	*	cm,c,i,d,c	c,m,i,r,c,m,	c,m,i,r,b,c,b,	b,c,i,r,m,
19	Birr Castle ...	983.4	+28	WNW	2	pr	43	97	7	9	2	-	4-6	10	1500	988.4	+30	WNW	2	bc	42	85	8	5	-	-	2-3	2-3	1500	1	*	cpr	cbc	bc	bc,pr
20	Valentia Obsy. †	989.3	+26	NW	5	bc	47	65	8	8	-	-	4-6	4-6	2500	993.7	+22	NW	3	bc	44	75	8	2	-	-	2-3	2-3	2500	1	4	ph,r,p,bc	ph,r,bc	bc,c	cr,c
	Roches Point	985.2	+36	NW	6	bc	48	75	8	3	4	-	4-6	4-6	1500	992.3	+30	NW	5	bc	43	85	8	3	-	-	4-6	4-6	1500	1	3	cpr,bc	cpr,o,bc	cpr,bc.	cir,c

† Sea disturbance reported from Dungeness

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r,, slight rain.
rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ☽, lunar halo. ⸗ gale.
With present weather is combined, whenever possible, the general character of the weather.
A "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 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Caatellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Ce predominating, and a little cirrus.
(Ce may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

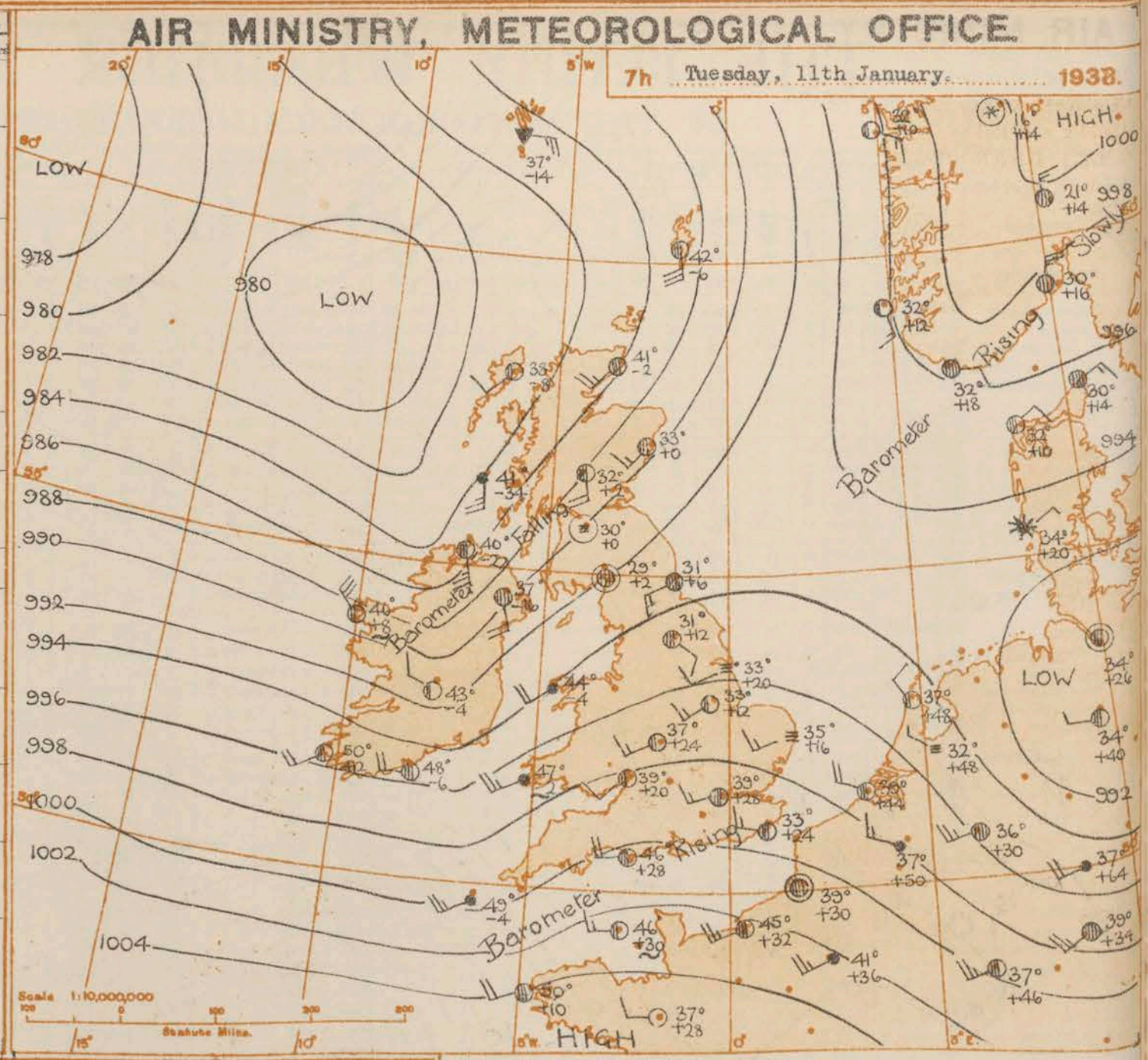
0 . . Ground dry.
1 . . ,, wet.
2 . . ,, flooded.
3 . . ,, frozen hard and dry.
4 . . ,, partly covered with snow or hail.
5 . . ,, covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 . . ,, covered with snow, less than 6 ins., but ground frozen.
9 . . ,, covered with snow greater than 6 ins. deep

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

REPORTS from HEALTH RESORTS for 10th January 1938.

Districts	Stations	Weather: Forenoon	Weather: Afternoon	Temperature (°F): Min. 9h. 9th to 9h. 10th	Temperature (°F): Max. 9h.—17h. 10th	Rainfall (mm.): Night. 17h. 9th to 9h. 10th	Rainfall (mm.): Day. 9h.—17h. 10th	Sunshine (hrs): Sunrise to Sunset 10th
1	Tunbridge W.	bbcor	oro	35	39	4	2	1·4
	Bournemouth	pcbc	cbcbc	36	44	1	1	1·8
	Ventnor ...	rcpo	cu	38	45	2	1	1·2
	Southsea ...	cdro	cbc	38	44	2	2	1·0
	Bognor Regis	ocpr	bcbc	37	44	2	3	0·9
	Littlehampton	cpc	cpc	37	45	2	3	1·7
	Worthing ...	bdcP	cbcrhc	37	44	2	3	1·4
	Brighton ...	bcrc	cbc	38	45	3	3	1·4
	Eastbourne† ...	bbcorr	ro	39	45	7	4	1·3
	Hastings† ...	bccor	roco	37	44	9	4	1·8
	Folkestone ..	ocbcb	cor	37	42	7	3	1·4
	Dover ...	bcc	cordr	38	43	10	3	1·3
	Deal	orcb	irir	37	42	10	1	1·3
	Ramsgate ...	cbc	or	38	42	9	3	1·4
	Margate ...	cbc	cr	36	42	5	3	1·3
2	Southend ...	co	orsm	37	40	2	6	0·9
	Clacton-on-Sea	orcbc	bccbc	36	39	4	1	1·0
	Dovercourt ...	roc	bc	36	41	4	-	1·1
	Lowestoft ...	crcdr	c	34	40	3	0·2	0·0
	Skegness ...	orcbc	bcoro	34	40	4	2	1·3
	Mablethorpe...	odor	oro	32	40	2	1	0·0
	Cleethorpes ...	cmbc	bccr	30	40	2	2	0·9
3	Leamington S.	co	o	34	39	0·2	-	0·0
4	Cheltenham†	rsoss	orcbc	31	38	2	4	0·0
5	Bath	scrbc	cbcb	35	41	4	2	0·3
	Weymouth ...	ecb*	c*	38	46	3	1	2·0
	Jersey ...	rrcpc	crq	40	48	9	2	0·2
	Torquay ...	cq Rpc	bcbqr	35	46	3	5	2·0
	Falmouth	rq orr	roqrr	38	48	3	5	0·0
	Penzance ...	pqypbc	bccqc	39	50	3	Trace	1·5
	St. Ives ...	pr	pr	37	*47	9	5	0·0
	Bude... ...	q	cpc	34	46	10	5	0·2
	Ilfracombe ...	orro	drcbc	39	46	7	0·3	0·5
6	Aberystwyth	prsbc	cpr	33	42	11	0·5	2·0
7	Llandudno ...	bcb	bccrc	33	44	Trace	2	4·0
	Colwyn Bay...	xbcbc	bcopo	30	44	1	0·5	3·9
	Rhyl	xbc	bccdd	30	44	0·4	1	2·4
8	Wallasey ...	fc	cor	34	39	Trace	Trace	0·0
	Southport ...	fcbcc	pbbcc	32	37	Trace	Trace	0·0
	Blackpool ...	cmc	cfoml	32	39	5	-	0·7
	Morecambe ...	xbcbc	c	31	38	3	-	1·1
9	Ilkley... ...	opo	oc	32	39	-	0·1	0·0
	Harrogate ...	oFo	c	32	36	0·3	-	0·0
10	Berwick-on-T.	b	fcmb	32	38	7	-	4·8
11	Dunbar ...	bcxrs	bcx	32	40	7	-	6·2
12	Troon... ...	oocoo	cooco	35	40	3	-	0·0
	Douglas ...	bcx	cprsh	30	39	-	2	0·0

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
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 January, 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Moderate to fresh westerly winds; cloudy with rain at first; showery and bright periods later; average temperature.
5 S.W. England 6 South Wales ... 7 North Wales ...	Moderate to strong westerly winds; bright periods; occasional rain; average temperature.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Moderate southwest winds, becoming strong westerly; cloudy with rain or sleet at first; showers and brighter periods later; average temperature.
13 A. W. Scotld.; B.N.W.Scotland 14 Mid Scotland 15 N. E. Scotland	Moderate southerly winds, veering and freshening; occasional rain; snow or sleet on high ground; average temperature.
16 Orkney and Shetland	Moderate to strong westerly winds; bright periods; occasional rain or sleet; rather cold.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate to strong westerly winds; bright periods; occasional rain; average temperature.

GENERAL INFERENCE.

A shallow trough of low pressure is moving eastwards across Ireland. A narrow belt of rain will move eastwards across the British Isles and be followed by showery weather.

FURTHER OUTLOOK.

Showery and bright periods.

TIMES OF ISSUE OF GALE WARNINGS.

South Cone hoisted at 1910 G.M.T. on 8th in parts of districts 5,6,19 and 20.

South Cone hoisted at 2000 G.M.T. on 10th in dist; 17 and part of districts 18 and 20.

South Cone hoisted at 0120 G.M.T. on 11th in part of district 5.

Forecasts issued at 1030 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S.
Director.

H.M. Stationery Office Press, Kingsway W.C.2
B 530/3338 W 8020 D 4513 (b 348 ES10)

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

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

TUESDAY, 11TH JANUARY.

1938.

Clarke's Projection Scale 1: 4 x 10⁷ along meridian at 55° N.

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 11th January, 1938.
No. 27809.

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

District	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force 0–12	Weather.	Temp. °F.	Humid. %	Visibility 0–9	Cloud. Form. Low	Cloud. Form. Med.	Cloud. Form. High	Cloud. Amount. Low 0–10	Cloud. Amount. Total 0–10	Height of Base. (feet)
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	993.0	+30	W	4	Zo	55	92	6	5	–	–	1	1	4000.
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	993.3	+46	WN	3	Zo	54	85	6	5	–	–	4-6	4-6	4000.
	Manston ...	142	991.8	+44	WN	4	m	57	85	4	5	–	–	10	10	800.
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	990.4	+30	W	3	c	56	85	7	8	3	–	4-6	7-8	2500.
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	995.0	+20	NW	4	c	45	85	8	4	–	–	10	10	2500.
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	998.4	+16	NNW	4	bc	46	75	8	8	7	–	4-6	4-6	2500.
	Scilly (St. Mary's)	163	998.6	+18	NNW	5	c	46	75	8	8	6	–	4-6	7-8	1500.
	Guernsey ..	175	998.0	+32	WNW	5	c	47	75	7	8	–	–	10	10	2500.
6	Pembroke ...	142	995.0	+24	WNW	4	q	45	75	8	–	7	–	0	Tr	–
7	Holyhead ...	26	991.6	+24	NNW	5	c	45	85	8	5	4	–	4-6	7-8	2500.
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	990.4	+24	WNW	3	bc	56	97	5	–	3	–	0	2-3	–
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	989.4	+20	W	2	c	55	85	6	5	–	–	9+	9+	1500.
11	St Abb's Head .	280	989.7	+20	WSW	2	bc	53	85	8	–	4	–	0	2-3	–
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots L.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	989.9	+12	SW.	1	c	58	92	7	8	–	–	9+	9+	800.
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	984.4	+4	SW	3	c	58	85	8	5	7	–	4-6	9+	2500.
15	Dalwhinnie ...	1178	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	986.0	+6	SSW	4	c	59	75	8	5	1	8	2-3	7-8	2500.
16	Lerwick ...	156	987.5	+8	SSW	4	rr	59	85	6	6	2	–	7-8	10	800.
17	Blacksod Point	18	989.3	-6	S	4	c	46	75	8	8	–	–	10	10	450.
18	Malin Head ...	84	987.9	+10	WN	3	c	48	92	7	8	–	–	9	9	1500.
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	994.5	-10	SSW	3	rr	48	97	7	9	–	–	7-8	7-8	1500.
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force 0–12	Weather.	Temp. °F.	Humid. %	Visibility 0–9	Cloud. Form. Low	Cloud. Form. Med.	Cloud. Form. High	Cloud. Amount. Low 0–10	Cloud. Amount. Total 0–10	Height of Base (feet)	State of Ground. 0–9	Sea. 0–9
(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
998.7	+26	SW	2	Zo	36	92	5	5	–	–	4-6	4-6	2500	1	*
999.2	+28	W'S	3	Zo	39	92	6	5	–	–	9	9	4000	1	*
999.5	+24	W'S	2	Zo	38	92	6	5	–	–	2-3	2-3	4000	1	*
1000.2	+30	W	3	b	37	92	7	5	–	–	1	1	2500	1	*
1000.6	+20	WSW	5	b	40	92	8	–	4	–	0	Tr	–	1	3
999.5	+24	WN	3	Zo	33	92	6	5	–	–	9	9	4000	1	$2
998.5	+28	W	3	Zo	34	92	5	5	–	–	4-6	4-6	2500	1	*
998.9	+24	WNW	3	Zo	35	97	5	5	–	–	10	10	1500	1	*
997.7	+20	WSW	3	m	34	92	4	–	–	–	0	0	–	1	2
996.3	+16	WSW	3	f	35	97	2	–	–	–	10	10	<150	1	2
997.6	+20	SSW	2	f	31	97	3	–	3	–	0	2-3	–	3	*
996.4	+17	SW'W	3	Zo	33	97	6	–	5	–	0	4-6	–	3	*
998.0	+24	WSW	3	bc	37	92	8	–	3	9	0	4-6	–	1	*
998.7	+22	SW	1	Zo	34	97	6	–	4	1	0	1	–	4	*
999.0	+20	SW'S	2	bc	39	85	8	5	–	1	1	2-3	2500	1	*
999.8	+22	W	2	bc	38	92	7	5	–	–	2-3	2-3	2500	1	*
1001.0	+28	W	4	c	46	85	8	4	4	–	4-6	9	2500.	1	3
1000.9	+10	W	2	c	44	85	8	8	–	–	9+	9+	1500	1	1
1000.9	+4	SW'W	4	pr	48	85	8	8	2	–	9	10	2500	1	3
999.8	-4	SW'W	5	id.	49	97	6	5	–	–	10	10	1500	1	3
1003.3	+30	W	3	bc	46	75	8	8	–	–	2-3	2-3	2500	1	4
996.6	-2	WSW	5	pr	47	85	7	5	2	–	7-8	10	2500	1	4
993.7	-4	SW	4	ir.	44	75	8	5	2	–	4-6	10	1500	1	3
995.6	+8	S	2	Zo	35	92	6	5	–	–	2-3	2-3	2500	1	*
995.4	+16	SSE	1	f	33	97	7	5	3	–	4-6	7-8	800	1	*
995.7	+20	WSW	2	m	33	97	4	–	–	–	0	0	–	3	2
994.2	+12	SE'E	2	c	31	92	7	5	–	–	7-8	7-8	2500	3	*
992.6	+6	WSW	3	o	31	85	6	5	–	–	10	10	800	3	2
989.8	-4	WSW	5	c	34	92	8	5	7	2	4-6	7-8	4000	3	3
990.1	0	–	0	m	30	97	4	5	–	–	10	10	1500	3	*
990.6	0	–	0	f	30	97	3	5	–	–	7-8	7-8	4000	7	*
992.3	+2	–	0	o	29	97	5	5	–	–	10	10	450.	8	*
992.6	+4	SW	3	bc	37	85	8	–	2	–	0	2-3	–	1	2
984.1	-34	S	5	iR	41	92	7	6	2	–	7-8	9+	1500	1	–
983.5	-8	SW	2	bc	38	85	8	5	7	–	2-3	4-6	2500	1	1
988.7	+2	S	4	c	32	92	5	4	4	–	4-6	7-8	1500	4	*
989.4	0	SSW	3	c	33	85	6	5	–	–	9+	9+	2500	3	2
985.8	-2	SSW	5	c	41	75	8	5	7	–	7-8	9	1500	1	3
986.9	-6	S	6	c/pr	42	85	8	8	2	–	7-8	9	1500	1	*
989.5	+8	NW	6	q	46	75	8	9	–	–	4-6	4-6	800	1	*4
984.6	-22	S	5	c/r	40	97	7	6	–	–	7-8	7-8	800	1	3
989.4	-16	S'E	4	o/r.	37	92	6	6	–	–	10	10	1500	1	*
991.5	-4	WNW.	2	bc/pr	43	92	8	3	–	–	2-3	2-3	1500	1	*
995.6	+12	SW'W	4	c	50	85	7	5	–	–	10	10	1500	1	3
995.1	-6	W	4	c	48	97	8	6	2	–	7-8	9+	1500	1	3

PAST 24 HOURS.

Temperature. Max. Day 7h–18h °F.	Min. Night 18h–7h °F.	Min. on Grass °F.	Rainfall. Day 7h–18h mm.	Rainfall. Night 18h–7h mm.	Sunshine 10 hrs. Hrs.
(31)	(32)	(33)	(34)	(35)	(36)
39	32	27	3	Tr	1.0
41	33	30	2	Tr	1.1
39	32	24	1	–	0.5
40	32	28	2	–	0.2
44	33	30	2	–	0.5
40	30	27	2	Tr	1.3
43	32	29	5	0.1	1.3
41	32	26	6	–	0.7
40	34	28	0.5	Tr.	0.8
40	34	33	0.3	Tr	0.0
39	29	24	Tr	0.1	0.0
36	30	26	1	–	0.2
37	34	30	–	0.1	0.0
35	32	23	5	*	*
37	35	30	2	0.2	0.0
39	33	28	6	Tr	0.3
46	41	*	1	–	*
46	42	37	11	1	0.3
49	45	*	0.2	0.1	0.8
49	45	*	0.1	0.1	5.5
48	45	38	3	0.3	0.1
46	43	*	–	0.1	3.5
45	42	39	0.5	Tr.	0.8
38	35	30	0.5	5	0.1
39	27	24	–	0.5	0.0
40	33	*	1	0.4	0.0
39	27	21	Tr	–	0.3
39	31	27	0.2	–	0.0
38	30	*	–	–	–
43	26	*6	–	Tr	5.8
37	28	25	Tr	–	0.0
34	28 18	21	2	1	0.1
39	32	*	5	1	0.1
45	35	30	–	3.	4.4
43	36	*	–	–	2.7
37	24	13	0.1	0.1	1.7
43	29	19	–	Tr.	1.7
45	38	*	0.1	–	*
40	38	*	3	5	0.0
46	33	*	0.6	4	*
46	38	*	–	1	0.1
40	33	31	0.3	1	0.1
44	32	*	0.5	0.6	0.0
48	42	34	2	2	3.2
48	35	*	0.5	1	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity. 15h. G.M.T % (To-day.)	Humidity. 9h. G.M.T % (To-day.)	Visibility 9h.
Kew	18	bcr.rs	or.fcm.	cm.bcx	39	32	27	3	Tr	1.0	•	•	
Croydon	217	rr.rs	rs.fd.r.	cmbxm.	41	33	30	2	Tr	1.1	•	•	6.
Greenwich (Royal Observatory)...	149	bcr.m	rsrcm	cbm	39	32	28	0.3	•	0.6	94	93	4.
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	40	32	29	4		0.2	93	96	•
Regents Pk. (Botanic Gardens)‡...	168	•	•	•	40	33	29	5	–	0.0	90	91.	•
Camden Square	110	c	cr	•	39	33	28	5	–	•	•	82.	•
Kensington	80	ob	bcz.x	•	39	33	24	4	Tr	0.4	85	95	•
Hampstead Observatory	450	bcors	bcxb	bc	37	33	27	4	Tr	0.4	•	97	•

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

South Kensington. Max.	Time.	Min.	Time.
1·0	15h 10th	0·3	3-5h 11th.

Kew Observatory. Max.	Time.	Min.	Time.
0·4	14h. 10½	0·1	2h 11h

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.
Paris	985·4	WSW	6	pr.	43	1002·3	WSW	5	pr.	41
Brussels	981.6	S	4	pr.	37	998·2	WNW	3	id.	37
Berlin	989·7	SSE	4	o	36	990·7	ESE	2	Zo	32
Zurich	997.4	W	3	c	43	1004.4	SW	3	ss	34
Rome	1001·3	NE'E	2	c	48	1004.3	WNW	4	o	52

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
45	37	3.	0.6.
43	34	3.	6.
37	28	3.	–
•	•	0.1.	10.
•	•	2.	2.

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

† hr. observations are from Valentia W/T Station.

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h.

§ Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 12th January, 1938.

No. 27810.

OBSERVATIONS at 13h. G.M.T. 11th 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)	1001·0	−10	S'W	3	ir$_o$	43	92	5	−	2	−	10	10	2500
	Croydon ...	1001·9	+2	SSW	3	ir$_o$	42	92	6	5	7	−	7-8	10	4000
	S. Farnborough	1000·8	−14	S	3	d$_o$d$_o$	43	97	5	6	2	−	9+	10	800
	Boscombe Down	1000·6	−14	SW	3	r$_o$r$_o$	45	97	6	6	2	−	9	10	450
	Calshot (Sthmtn.)	1002·4	−6	SSW	4	df	45	97	3	5	−	−	10	10	800
	Lympne ...	1003·7	+12	SW'S	2	c	42	85	7	5	7	7	2-3	10	7200
	Manston ...	1002·8	+8	SW	4	c	43	85	7	−	7	−	0	7-8	−
2	Shoeburyness ...	1001·8	+8	ESE	4	z$_o$	43	85	6	5	7	7	4-6	10	4000
	Felixstowe ...	1001·4	+8	SSW	3	m	41	85	4	5	3	3	4-6	10	1500
	Gorleston ...	1001·1	+8	SSW	3	c	40	85	6	5	−	−	9+	9+	2500
	Mildenhall ...	999·9	+2	SW'S	4	ir$_o$	42	85	6	5	2	−	7-8	10	2500
	Cranwell ...	998·3	−2	S'W	5	ir$_o$	40	92	6	5	7	−	4-6	9+	2500
3	Birmingham ...	998·2	−6	SSW	3	o	40	92	5	6	−	−	10	10	800
	Upper Heyford	999·8	−10	S	3	id$_o$	38	97	6	5	2	−	9+	10	1500
4	Ross-on-Wye	998·5	0	SSW	3	c	46	85	6	6	7	7	4-6	9+	1500
5	Bristol ...	999·3	−10	SW'S	3	c	48	85	7	5	1	−	7-8	10	1500
	Portland Bill ...	1006·0	−10	WSW	6	dd	49	92	6	5	−	−	10	10	1500
	Plymouth ...	1002·2	+12	W	2	z$_o$	51	97	6	5	7	9	4-6	9+	1500
	The Lizard ...	1002·6	+6	W'S	4	c	50	97	6	5	2	−	9	10	1500
	Scilly (St.Mary's)	1002·4	+10	WSW	5	c	52	92	6	5	7	5	4-6	9	1500
	Guernsey ...	1004·1	−4	SW	5	r$_o$c	49	97	4	5	−	−	10	10	800
6	Pembroke ...	998·4	+16	W'N	5	z$_o$	50	92	6	5	1	−	4-6	7-8	4000
7	Holyhead ...	995·1	+14	W	5	c	48	75	8	9	2	−	4-6	10	800
	Chester(Sealand)	995·6	−6	WSW	2	z$_o$	48	75	6	5	2	−	7-8	9+	2500
8	Manchester ...	995·3	−14	SSW	4	ir$_o$	41	92	6	6	2	−	4-6	10	800
10	Spurn Head ...	996·3	+2	SW'S	4	m	40	85	4	5	4	−	4-6	9+	2500
	Catterick ...	993·3	−14	S	3	r$_o$r$_o$	38	92	3	5	−	−	10	10	1500
	Tynemouth ...	991·5	−14	SSW	4	r$_o$r	39	85	4	6	−	−	10	10	800
11	St Abbs Head ...	989·4	−6	SSW	5	ir$_o$	34	97	7	3	6	−	7-8	9+	1500
12	Leuchars ...	987·5	−26	SSW	2	c/r	37	92	6	5	7	−	4-6	7-8	1500
	Renfrew (Abbotsl.)	985·4	−2	SW	4	pr	38	92	8	9	−	−	7-8	7-8	1500
	Eskdalemuir ...	990·2	−10	WSW	4	c	37	97	7	5	−	−	7-8	7-8	1500
	Point of Ayre...	992·4	+6	WNW	6	c	45	85	8	2	−	6	Tr	7-8	1500
13a	Tiree	985·8	+20	W	4	c/pr	45	75	8	3	−	3	9	9	1500
13b	Stornoway ...	981·8	−10	SSW	5	c/r	43	85	7	5	7	−	7-8	9+	2500
15	Dalwhinnie ...	986·9	−16	SSW	3	is	34	92	5	8	−	−	9	9	1500
	Aberdeen ...	988·0	−8	SSW	3	ir$_o$	37	85	6	5	7	−	Tr	10	1500
16	Wick ...	984·6	−6	S	4	c	41	85	8	5	1	−	7-8	9+	1500
	Lerwick ...	986·7	−6	S	6	c/phr	41	85	8	8	2	−	7-8	10	1500
17	Blacksod Point	994·2	+12	W	6	q	47	75	8	9	−	−	9+	9+	450
18	Malin Head ...	988·4	+20	W	5	c	46	85	7	2	−	5	7-8	7-8	800
	Aldergrove ...	992·4	+18	SW'S	4	c	42	75	8	5	3	6	4-6	9	2500
19	Birr Castle ...	996·5	+20	WSW	1	c	47	75	7	5	7	−	2-3	9+	2500
20	Valentia Obsy. †	1000·0	+14	W'S	3	c	49	75	8	5	7	−	1	9+	2500
	Roches Point	1000·0	+20	W	3	bc	49	75	8	−	1	5	0	4-6	−

OBSERVATIONS at 18h. G.M.T. 11th 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)	1001·8	+12	SW	3	z$_o$	46	92	6	5	−	−	10	10	4000	1	*
	Croydon ...	1002·3	+10	WSW	4	c	48	85	6	−	7	−	0	9+	−	1	*
	S. Farnborough	1002·7	+14	WSW	3	c	47	85	7	−	7	−	0	9+	−	1	*
	Boscombe Down	1003·1	+16	WSW	2	z$_o$	46	92	6	5	7	−	7-8	9	800	1	*
	Calshot (Sthmtn.)	1003·9	+18	SW'W	4	bc	46	97	7	−	7	−	0	2-3	−	1	2
	Lympne ...	1003·2	+6	SW'W	3	c/r	45	97	3	5	−	−	9+	9+	<150	1	§4
	Manston ...	1002·2	+2	SW	3	z$_o$	45	92	5	5	−	−	9	9	800	1	*
2	Shoeburyness ...	1002·5	+6	SW	2	c	44	92	5	6	1	−	4-6	10	1500	1	*
	Felixstowe ...	1001·5	+6	S'W	2	c/r	41	97	5	5	7	8	7-8	10	800	1	2
	Gorleston ...	1000·6	+4	S'W	3	o	41	92	6	6	−	−	10	10	2500	1	2
	Mildenhall ...	1000·3	+10	WSW	4	ir$_o$	45	97	7	5	2	−	7-8	10	1500	1	*
	Cranwell ...	1000·1	+22	SW	3	z$_o$	41	97	5	−	7	6	0	9	−	1	*
3	Birmingham ...	1000·3	+20	W	3	o	44	85	6	5	−	−	10	10	2500	1	*
4	Upper Heyford	1001·6	+16	W	3	z$_o$	44	92	6	5	7	8	4-6	9+	800	1	*
	Ross-on-Wye	1002·0	+24	W'S	1	c	45	75	7	−	−	7	0	9+	−	1	*
5	Bristol ...	1002·7	+14	WSW	3	c	47	97	7	5	−	−	9+	9+	1500	1	*
	Portland Bill ...	1003·1	+24	WSW	4	c	49	92	7	4	−	−	10	10	2500	1	4
	Plymouth ...	1004·1	+10	WSW	3	id$_o$	50	97	6	6	2	−	7-8	10	450	1	2
	The Lizard ...	1004·2	+2	W	3	rf	50	97	2	5	−	−	10	10	450	1	3
	Scilly (St.Mary's)	1003·3	+8	SW'W	3	o/f	50	97	6	5	−	−	10	10	1500	1	2
	Guernsey ...	1005·8	+6	SW	2	id$_o$	51	97	5	5	−	−	10	10	1500	1	3
6	Pembroke ...	1001·6	+12	WNW	3	c	48	85	7	5	7	−	7-8	9+	4000	1	2
7	Holyhead ...	999·2	+20	WSW	3	c	47	75	7	5	2	−	2-3	10	2500	1	2
	Chester(Sealand)	1000·1	+24	W'S	2	z$_o$	44	75	6	5	1	−	2-3	10	4000	1	*
8	Manchester ...	998·7	+22	WSW	4	z$_o$	41	85	6	−	7	6	0	10	−	1	*
10	Spurn Head ...	997·7	+6	WSW	3	bc	39	97	6	5	1	−	4-6	4-6	4000	1	2
	Catterick ...	996·2	+20	WSW	4	c	42	85	7	5	1	6	2-3	7-8	2500	1	*
	Tynemouth ...	993·8	+14	W	2	bc	41	85	6	5	−	−	4-6	4-6	1500	1	1
11	St Abbs Head .	991·7	+20	W	5	bc	39	85	8	−	4	−	0	2-3	−	1	3
12	Leuchars ...	990·7	+18	WSW	3	b	36	85	7	4	7	−	Tr	Tr	2500	3	*
	Renfrew (Abbotsl.)	993·1	+22	W'S	2	bc	39	85	8	5	3	−	2-3	4-6	2500	4	*
	Eskdalemuir ...	994·3	+24	WSW	4	c	38	85	7	5	−	−	7-8	7-8	1500	5	*
	Point of Ayre...	996·6	+16	W'N	4	c	44	85	8	2	1	−	Tr	7-8	2500	0	3
13a	Tiree	989·6	+20	WSW	6	PR	42	75	8	3	−	3	7-8	7-8	1500	1	4
13b	Stornoway ...	984·4	+8	SW	5	bc	41	75	8	8	−	3	4-6	4-6	1500	1	3
15	Dalwhinnie ...	990·7	+20	SSW	3	c	34	92	6	8	6	−	4-6	9	1500	6	*
	Aberdeen ...	985·3	+14	S	1	c	36	85	6	5	7	−	4-6	7-8	2500	1	2
16	Wick ...	985·3	+10	SW	4	c	40	92	8	5	1	−	4-6	7-8	1500	1	3
	Lerwick ...	986·4	−2	S	5	c/phr	40	92	7	8	7	−	4-6	9+	800	1	*
17	Blacksod Point	995·2	+10	W	3	c	47	75	7	5	−	−	10	10	800	1	3
18	Malin Head ...	991·9	+22	SW'W	4	c	45	92	7	6	−	4	4-6	7-8	800	1	4
	Aldergrove ...	995·8	+18	SSW	3	c	41	85	8	5	1	6	7-8	10	2500	1	*
19	Birr Castle ...	998·0	+16	W	1	c	45	85	7	5	−	−	10	10	2500	1	*
20	Valentia Obsy. †	998·9	−6	S'E	4	ir$_o$	47	85	8	5	1	−	2-3	10	1500	1	3
	Roches Point	1000·8	+4	WSW	3	ir$_o$	47	92	8	6	7	−	4-6	10	1500	1	3

PAST 24 HOURS.

Weather. 7h.—13h. 11th.. (37)	13h.—18h. 11th.. (38)	18h 11th to 1h. 12th (39)	1h.—7h. 12th. (40)
bcrsor	0$_8$cm$_o$	cm cr	crrmc
bm$_o$cm$_o$r$_o$	d$_o$r$_o$r$_o$	em rr	rrrrr
cir bird$_o$c	cd$_o$c	b crr	rride
b$_o$r$_o$r$_o$m$_o$	cr$_o$r$_o$m$_o$cm	crrrddF	cr$_o$irc
cir. odf	odf$_o$r$_o$bc	bcrrrdm	cdrmcrm
cbm$_o$c	cir$_o$mffd$_o$	fcmfr	Frrfr
bcbm$_o$c	cr$_o$r$_o$m$_o$	cm$_o$	crrfir
cbccm$_o$	irm$_o$c	cm$_o$	arrcm
bmcmcm	cir$_o$pr$_o$m$_o$	cmcpcpcm	cRRcrr
ffobc	coir$_o$	ocz	corr
bfbcmcm$_o$	cr$_o$m$_o$cr	cprbcmdm	ocrrr
bcmcmbr$_o$	cr$_o$d$_o$cm$_o$	cbccm	rrrfRR
bcorr	0	obcc	orr
bm$_o$cr$_o$m$_o$	cd$_o$m$_o$	cbcfcorrorm$_o$	
cd$_o$c	c w	cor	rodq
pr$_o$c	cbcc	crr	crrrr
oddz$_o$	odd	orrz$_o$	orr
cpc id$_o$m$_o$	cm id$_o$	cid DDm	oddirrrm
irrrm	crrfr	ffrrm	rrrfd
id$_o$m$_o$c	oir$_o$df	difdd$_o$	oid
cor$_o$	oir$_o$d	odrrr	orir
cqmc	cqm$_o$c	cqrrdm$_o$	oqiRmc
R r$_o$r$_o$c	c	r$_o$r cw	crrbc
bccr$_o$m$_o$z	cz$_o$	cz$_o$m$_o$	cmrrdbm
bcfr$_o$r$_o$m$_o$	cpr$_o$cm$_o$	cm$_o$	crrm
bm$_o$cm	mpr$_o$c	co	orr
cm$_o$r$_o$fo	rfm$_o$bc	bcc	corrm
ocmir$_o$	cr$_o$r$_o$bcm	bcc	co
prsc	bc	bbc	c
ox$_o$r$_o$s$_o$r$_o$c	cm$_o$bm$_o$x	bbcxm	bcxm$_o$
prhPR	prt PHqbc	PHrqpr	bcb
ffs$_o$r$_o$s$_o$	PRSbc	bbcm$_o$	oid
bcc	c	co	orrr
iRPqpr	cbcPRq	bcprl	bcc
bcrrr	cbcPRl	bccprrpl	cpr
cSS	ciS	*	cirbc
cxz$_o$r$_o$	r$_o$cz$_o$	czbx	bcxzc
c	id$_o$ir	cbc	bcq
cph	cphr	cpr	prPRq
prcq	c	ir	ir
cprc	cphrc	wc	crr
cm$_o$r$_o$pr$_o$c	cpr$_o$c	cor$_o$	arrcm
bcprc	c	cir	cir
cpr$_o$c	cir$_o$	irrrr	rrcircbc
circbc	bcciro	crr	crrbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 . . Ground dry.
1 . . ,, wet.
2 . . ,, flooded.
3 . . ,, frozen hard and dry.
4 . . ,, partly covered with snow or hail.
5 . . ,, covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 . . ,, covered with snow, less than 6 ins., but ground frozen.
9 . . ,, covered with snow greater than 6 ins. deep.

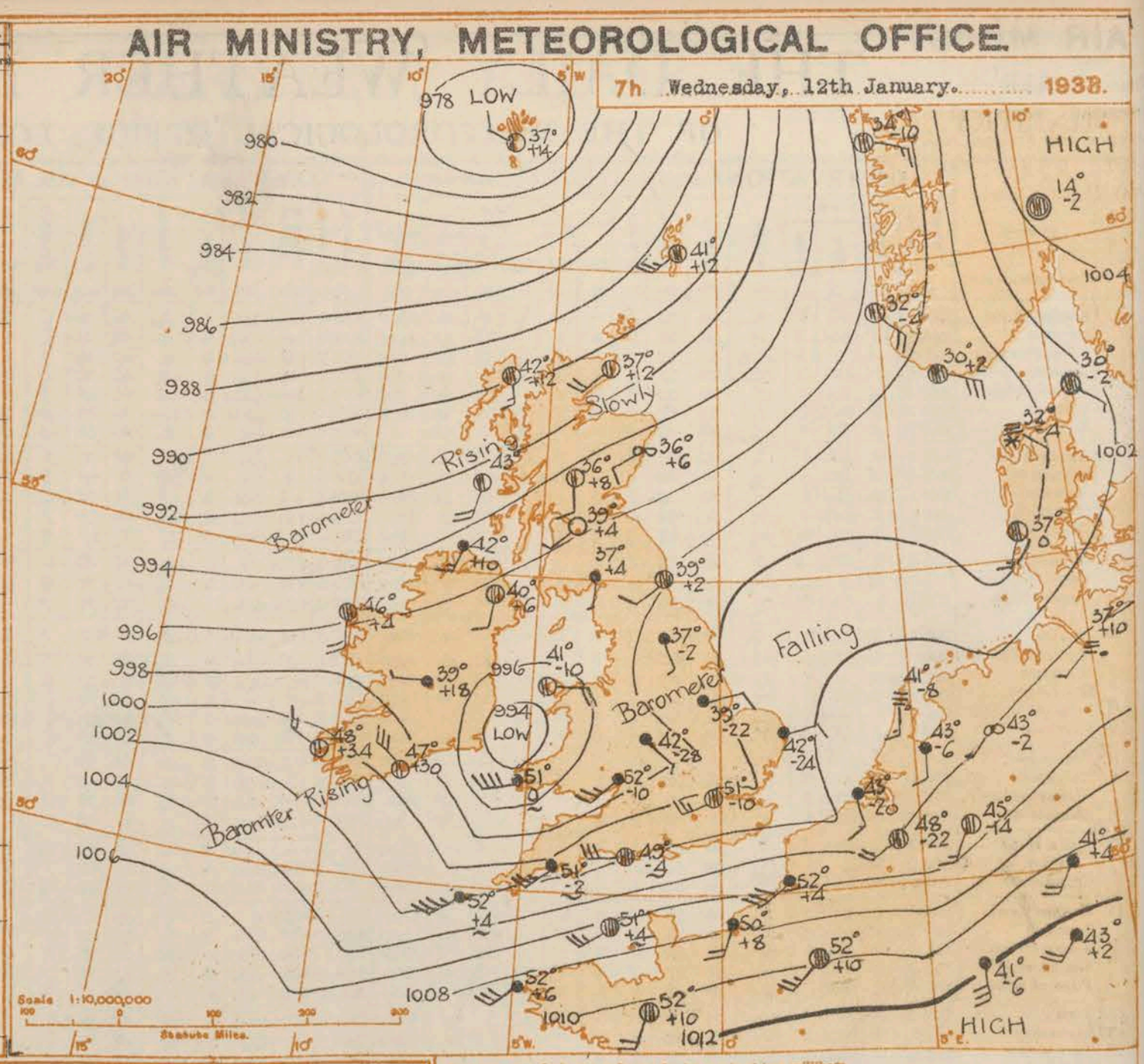
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

† See disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 11th December 1938.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature (°F.) Min. 9h. 10th to 9h. 11th	Temperature (°F.) Max. 9h.—17h. 11th	Rainfall (mm.) Night, 17h. 10th to 9h. 11th	Rainfall (mm.) Day. 9h.—17h. 11th	Sunshine (hrs) Sunrise to Sunset. 11th.
1	Tunbridge W.	bbcor	oro	30	47	–	0	1·0
	Bournemouth	odd	c	35	50	–	1	0·0
	Ventnor ...	copm	dmo	36	49	–	1	0·0
	Southsea ...	cor	croc	38	49	Trace	1	0·0
	Bognor Regis	cir	cir	33	48	–	2	0·0
	Littlehampton	bccor	ordc	33	48	–	2	0·0
	Worthing ...	cor	oid	34	47	–	2	0·0
	Brighton ...	bcdc	cdc	36	48	Trace	2	0·2
	Eastbourne† ...	bcor	rorro	35	49	–	3	1·0
	Hastings† ...	bbccp	opodo	33	48	0·3	3	1·4
	Folkestone ..	xmbbac	coro	33	46	1	1	1·5
	Dover ...	bcc	cor	34	47	1	3	2·3
	Deal	bcc	ipir	34	49	2	0·3	2·2
	Ramsgate ...	bcc	oro	35	46	1	1	2·6
	Margate ...	bc	cr	35	46	1	1	2·2
2	Southend ...	bmc	corc	32	49	Trace	1	0·2
	Clacton-on-Sea	xcbcc	cdc	31	41	–	0·2	1·2
	Dovercourt ...	xbcc	doc	32	40	–	0·3	0·0
	Lowestoft ...	bmbbc	cirdr	32	41	0·1	0·1	1·8
	Skegness ...	bcmc	cor.o	30	41	–	0·5	0·1
	Mablethorpe...	bcxc	oro	29	40	Trace	0·5	0·0
	Cleethorpes ...	c	cr	31	41	0·5	0·3	0·2
3	Leamington S.	cor	op	32	46	–	1	0·0
4	Cheltenham†	oirc	c	32	48	0·3	0·3	0·0
5	Bath	cr.	cr.	33	50	0·5	0·3	0·0
	Weymouth ...	cpc	pc	38	50	0·3	1	0·1
	Jersey ...	rc	cdc	44	50	2	Trace	0·1
	Torquay ...	odopc	bcc	35	52	1	1	0·3
	Falmouth	odmoc	modgr	40	53	7	1	0·7
	Penzance ...	odc	cddr	51	54	1	2	0·2
	St. Ives ...	d	d	48	53	3	5	0·0
	Bude... ...	o	o	44	51	2	1	0·0
	Ilfracombe ...	cordr	droco	42	51	2	1	0·0
6	Aberystwyth	brc	c	40	47	4	–	0·0
7	Llandudno ...	crc	chgc	33	50	3	2	0·0
	Colwyn Bay...	c	cpo	35	45	3	0·3	0·0
	Rhyl	cr.	cpre	30	48	7	0·6	0·0
8	Wallasey ...	air	ac	34	46	3	1	0·0
	Southport ...	bcocp	coc	31	45	0·5	0·2	0·0
	Blackpool ...	cpp	cpcm	31	44	0·3	0·5	0·0
	Morecambe ...	rhirc	cmc	28	44	Trace	4	0·0
9	Ilkley... ...	bcpc	cpc	28	44	–	0·3	0·0
	Harrogate ...	cr.	cirb	29	42	–	1	0·0
10	Berwick-on-T.	cro	rsbcb	26	40	Trace	1	1·3
11	Dunbar ...	bcx	bcpc	27	42	0·3	0·5	1·9
12	Troon... ...	rorcb	bcpbc	35	46	2	3	0·8
	Douglas ...	cid	bcid	33	46	3	1	0·5

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
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. 12th January, 1938.
1 S.E. England ▼ 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England ▼ 6 South Wales ..▼ 7 North Wales ...	Westerly winds, fresh to strong locally, moderating; rainy at first, fair periods later; very mild.
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.}	Light to moderate variable or southwesterly winds; occasional rain or drizzle; average temperature or rather mild.
14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland	Moderate southwesterly winds; mainly fair; average temperature.
18 N. E. Ireland	As 8 - 13A.
19 S. E. Ireland ▼ 20 S. W. Ireland ▼	Moderate westerly winds, backing and freshening; mainly fair at first, occasional rain later; rather mild.

GENERAL INFERENCE.

A secondary depression over Wales will move rapidly eastwards and will soon be followed by another from the Atlantic. In the extreme West and North it will be mainly fair while elsewhere it will be rainy at first but with some fair periods later. In the South it will be very mild for the time of year.

FURTHER OUTLOOK.

Continuing mild in the South.

Times of issue of Gale Warnings.

▼ South Cone hoisted at 1930 G.M.T. on 11.1.38 in districts 6, 19, 20 and 5(part of).
▼ South Cone hoisted at 0910 G.M.T. on 12.1.38 in district 1 and remainder of district 5.

Forecasts issued at 1030 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S.
Director.

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

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

WEDNESDAY, 12TH JANUARY.

1938.

Gnomonic Projection Scale 1: 4 x 10⁷ along meridian at 55° N.

Statute Miles. 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 12th January, 1938.

No. 27810.

OBSERVATIONS at 1 hr. G.M.T. 12th 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	1003·9	-6	SSW	3	c	45	92	6	-	2	-	0	10	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1005·8	+2·	W'S	1	c	45	97	3	6	-	-	10	10	<150
	Manston ...	142	1004·6	+2	WSW	2	c	45	92	6	5	-	-	10	10	7200
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1003·7	+6	SSW	2	c	39	92	6	8	-	-	10	10	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1002·1	-14	SW	3	rr	48	92	6	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1003·2	0	SW	6	c	51	97	6	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1001·3	-8	SW'W	7	d	51	97	6	5	-	-	10	10	1500
	Guernsey ..	175	1005·6	-2	SW	5	c	51	97	4	5	-	-	10	10	800
6	Pembroke ...	142	998·4	-20	SE	5	d	45	97	5	5	-	-	10	10	1500
7	Holyhead ...	26	998·6	-6	SW	3	ir	45	85	7	-	2	-	10	10	4000
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1000·7	+2	SW	3	o	40	92	6	5	-	-	10	10	1500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	998·2	+8	SW	2	c	39	85	6	5	-	-	9	9	800
11	St Abbs Head ..	280	994·5	+8	W	5	bc	39	85	8	-	4	2	0	4·6	-
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots L.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	997·6	0	W	2	o	44	92	7	-	2	-	10	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	998·4	+20	SW	5	c/pr	41	85	6	3	-	-	7·8	7·8	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	998·1	+20	SW	4	bc	38	85	8	7	7	-	2·3	4·6	1500
16	Lerwick ...	156	996·6	+2	SSW	5	c	43	85	8	8	7	-	4·6	7·8	1500
17	Blacksod Point	18	994·6	-12	S	3	rr	45	85	7	6	-	-	10	10	450
18	Malin Head ...	84	993·8	+4	S	2	c	41	97	7	4	-	7	4·6	10	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	993·7	-14	S	2	ir	46	97	7	9	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. 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)	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)
999·6	-22	SW	4	c	50	92	7	5	-	-	9+	9+	1500	1	*
1000·5	-10	SW'W	5	c/r	51	92	8	5	-	-	10	10	2500	1	*
999·8	-6	WSW	4	id°	51	92	6	5	-	-	10	10	1500	1	*
1000·2	-6	W'S	4	c	50	92	7	5	2	-	7·8	10	1500	1	*
1002·5	-2	SW	5	id°	49	97	7	5	2	-	7·8	10	800	1	4
1001·8	-4	SW	5	id°	49	97	5	6	-	-	10	10	220	1	§4
1000·4	-22	SW	5	c/r	50	92	7	6	-	-	10	10	800	1	*
999·9	-20	SSW	5	c	49	97	6	5	-	-	9+	9+	2500	2	*
998·7	-24	SE	3	c	49	97	5	6	2	-	9	10	800	1	2
1000·4	-24	E'N	2	c	42	97	6	6	-	-	10	10	1500	1	2
998·1	-36	ESE	3	c	42	97	4	-	2	-	10	10	450	1	*
999·2	-22	E'N	2	rf	39	97	3	6	2	-	9+	10	450	1	*
999·5	-28	SE	1	c	42	97	4	6	-	-	10	10	800	1	*
997·4	-26	SW	5	c	49	97	6	6	-	-	10	10	800	1	*
996·8	-10	SW'S	5	d	52	85	8	5	-	-	10	10	1500	1	*
998·9	-6	SSW	5	c	51	92	5	-	2	-	10	10	800	1	*
1000·4	-4	W	6	o	49	92	7	5	-	-	10	10	1500	1	4
1002·0	-2	SW	5	c	51	97	6	-	2	-	10	10	450	1	4
1003·2	0	S'W	7	id°	51	97	6	5	-	-	10	10	800	1	4
1001·8	+4	SW'W	7	d°	52	97	6	5	-	-	10	10	1500	1	4
1002·5	+4	S'W	5	o	51	97	6	5	-	-	10	10	1500	1	4
995·4	0	W'S	8	DD	51	97	6	5	-	-	10	10	1500	1	5
994·9	-10	E	4	bc	41	92	8	2	-	1	1	2·3	2500	1	2
997·0	-12	ESE	2	dd	39	97	4	-	2	-	10	10	450	1	*
997·6	-18	E	3	rr	40	92	5	-	2	-	10	10	800	1	*
999·3	-2	S'W	2	rr	40	97	6	5	-	-	10	10	1500	2	2
998·8	-2	SSE	1	c	37	97	4	-	2	-	10	10	800	1	*
997·8	+2	SW	2	o	39	92	6	5	-	-	10	10	800	1	1
995·8	0	WSW	3	c	38	92	8	8	3	-	7·8	9+	2500	1	2
995·7	+4	WSW	2	bc	33	97	6	-	7	1	0	2·3	-	3	*
996·1	+4	SW	1	b	39	92	7	-	4	-	0	Tr	-	4	*
996·9	+4	S'E	1	id°	37	97	5	5	-	-	10	10	450	1	*
996·7	-4	-	0	r°	42	97	7	6	2	-	4·6	10	1500	1	1
993·2	*	SSW	4	c	43	85	7	5	-	-	7·8	7·8	2500	2	-
990·6	+12	S	3	c	42	79	7	8	*3	-	4·6	7·8	2500	1	2
995·4	+8	S	2	bc	36	85	6	4	6	-	2·3	4·6	1500	4	*
994·5	+6	SW'W	2	c	36	85	6	-	6	-	0	7·8	-	3	1
991·3	+12	SW	4	bc	37	85	8	7	1	-	2·3	2·3	1500	1	2
988·5	+12	SW	5	c/pr	41	85	8	8	-	-	7·8	7·8	1500	1	*
995·9	+4	S	4	c	46	92	7	5	-	-	7·8	7·8	450	1	3
995·5	+10	S'W	3	rr	42	97	6	6	2	-	4·6	10	800	1	3
996·5	+6	SSW	2	c/r	40	97	6	6	-	-	9+	9+	800	1	*
996·9	+10	W	1	ir	39	97	7	5	-	-	10	10	1500	1	*
1000·1	+34	WNW	3	bc	48	85	8	8	-	-	4·6	4·6	2500	1	2
998·1	+30	NW	6	bc	47	92	8	3	-	-	4·6	4·6	1500	1	3

PAST 24 HOURS.

State of Ground. 0-9 (29)	Sea. 0-9 (30)	Temperature. Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine Hrs. (36)
1	*	46	43	38	2	4	0·1
1	*	48	44	42	1	4	0·1
1	*	47	43	38	0·6	4	0·2
1	*	48	43	39	1	4	0·0
1	4	48	43	42	2	4	0·0
1	§4	45	42	40	1	6	1·5
1	*	46	43	41	1	5	2·3
2	*	44	42	39	1	5	0·4
1	2	42	39	36	0·2	6	1·9
1	2	42	39	38	0·1	3	2·3
1	*	45	39	35	1	6	1·8
1	*	43	36	31	0·6	7	0·6
1	*	46	40	37	1	12	0·0
1	*	44	37	29	1	8	*
1	*	50	42	33	Tr	4	0·0
1	*	49	44	43	0·5	5	0·0
1	4	50	46	*	0·6	3	*
1	4	52	47	47	0·5	4	0·0
1	4	51	48	*	3	5	0·0
1	4	52	50	*	2	2	0·7
1	4	51	50	48	1	5	0·0
1	5	51	43	*	-	11	0·0
1	2	48	40	37	3	4	0·0
1	*	49	39	32	0·3	5	0·0
1	*	45	38	34	1	4	0·0
2	2	40	38	*	0·1	1	0·5
1	*	43	37	30	1	1	0·0
1	1	42	39	36	1	-	0·0
2	2	39	36	*	3	-	*
1	1	38	33	27	1	-	0·2
1	*	38	33	24	Tr	-	*
1	*	44	39	*	3	6	0·0
1	*	42	39	36	0·4	5	0·4
1	*	48	39	*	0·2	5	0·5
1	2	51	45	43	0·5	7	0·3
1	3	50	45	*	0·5	14	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset hrs.	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	bc rs	or cm	cm cm rr	46	43	38	2	4	0·1	•	•	6
Croydon	217	bn cm r	dr c	cm rr c	48	44	42	1	4	0·1	•	•	7
Greenwich (Royal Observatory)...	149	c	cr c	cl nd	47	43	39	1	5	0·0	94	87	5
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	•	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	53	37	38	7		0·0	93	87	•
Regents Pk. (Botanic Gardens)[...	168	•	•	•	52	37	35	2	6	0·0	94	93	•
Camden Square	110	bc c	cr c	•	45	38	34	2	5	•	•	88	•
Kensington	80	c o	c o	•	52	38	38	2	5	0·0	At 18h. 94	87	•
Hampstead Observatory	450	bc	or	or	45	36	29	1	5	0·0	•	99	•

FOREIGN OBSERVATIONS.

Stations.	18h G.M.T. 11th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 12th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1003·1	SSW	4	o	46	1010·0	SW	5	c	52
Brussels	1005·4	SW	4	rr	43	1003·7	SW	4	o	48
Berlin	1002·6	WNW	5	z	36	1006·7	S	3	rr	34
Zürich	1006·8	WNW	3	Dr	37					
Rome	1005·5	ENE	6	b	46					

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
1·0	13-18h 11th	0·0	4-6h 12th

Kew Observatory. Max.	Time.	Min.	Time.
0·3	9h 11th	0·1	2-7h 12th

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
48	46	0·4	0
43	41	0·5	5
36	30	4	0·2
43		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 ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

† hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Thursday 15th January, 1938.
No. 27811

NOTE.–On Report for 8th. January, pp. 1 & 4 are reversed.

OBSERVATIONS at 13h. G.M.T. 12th December / 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)	1003.9	+34	WSW	4	c	54	75	7	5	-	-	10	10	800
	Croydon ...	1003.8	+26	W	4	c/d	54	85	6	5	-	-	9+	9+	1500
	S. Farnborough	1004.5	+28	W	4	c	53	85	7	6	2	-	9	10	1500
	Boscombe Down	1004.6	+22	W	5	c	51	92	7	6	2	-	7-8	10	800
	Calshot (Sthmtn.)	1005.2	+14	SWW	4	c	55	92	7	5	7	-	7-8	9+	800
	Lympne ...	1004.0	+10	SWW	5	id.	50	97	7	-	-	-	10	10	450
	Manston ...	1002.7	+14	SW	5	c/r	53	85	7	5	-	-	9	9+	800
2	Shoeburyness ...	1002.6	+16	SWW	4	c	52	85	7	6	2	-	9+	10	800
	Felixstowe ...	1000.9	+16	SW	5	c/d	53	85	5	6	2	-	9	10	800
	Gorleston ...	1000.2	+14	WNW	2	rf	44	97	3	6	-	-	10	10	1500
	Mildenhall ...	1001.2	+38	WNW	4	c/r	48	92	6	5	7	-	7-8	9+	2500
	Cranwell ...	1002.9	+40	NW	3	id.	40	97	4	5	2	-	9+	10	450
3	Birmingham ...	1003.3	+40	WNW	3	c	45	85	5	-	7	-	0	7-8	1500
4	Upper Heyford	1003.1	+42	W	4	c	52	85	8	8	-	8	9	9+	800
	Ross-on-Wye	1004.7	+48	WN	3	c	50	75	9	8	-	7	2-3	9+	2500
5	Bristol ...	1005.2	+38	W's	4	c	49	92	7	5	7	-	2-3	7-8	1500
	Portland Bill ...	1006.0	+18	W	5	c	50	92	7	4	7	-	4-6	10	2500
	Plymouth ...	1007.8	+28	W	4	2_o	52	85	6	5	1	-	4-6	10	1500
	The Lizard ...	1008.6	+20	W's	4	c	50	97	6	8	2	-	9	10	1500
	Scilly (St. Mary's)	1007.7	+36	SW	3	c	51	97	6	4	7	-	2-3	10	1500
	Guernsey ...	1009.8	+16	SWW	6	rr	52	97	4	5	-	-	10	10	800
6	Pembroke ...	1008.8	+36	W's	2	c	48	97	8	5	7	-	4-6	9	2500
7	Holyhead ...	1002.9	+28	S	2	c	45	85	9	5	-	-	9+	9+	1500
8	Chester (Sealand)	1003.8	+48	NW	1	m/f	41	92	4	-	2	-	10	10	800
	Manchester ...	1003.0	+42	SW	1	cf	40	97	2	-	2	-	10	10	800
10	Spurn Head ...	1002.2	+16	-	0	0	40	97	6	5	-	-	10	10	800
	Catterick ...	1001.5	+22	SW	2	bc	44	75	7	-	7	6	0	4-6	-
	Tynemouth ...	1001.0	+20	WSW	2	bc	44	85	5	2	-	-	4-6	4-6	1500
11	St Abbs Head	999.0	+32	SW	4	c	40	92	8	8	7	-	4-6	9+	2500
12	Leuchars ...	999.1	+12	SW	3	2_o	39	85	6	5	5	-	7-8	9+	800
	Renfrew (Abbotsl.)	1000.0	+14	SW	3	$r_o r_o$	43	9½	7	6	1	-	7-8	10	1500
	Eskdalemuir ...	1000.5	+8	SSW	4	o	39	92	7	5	-	-	10	10	800
	Point of Ayre ...	1002.0	+20	SW	2	c	45	85	7	8	2	-	2-3	9	800
13a	Tiree ...	995.7	+10	SWW	5	c	47	85	7	5	1	7	1	10	2500
13b	Stornoway ...	990.7	-2	SSW	6	c/pr	44	85	8	8	-	-	9	9	1500
15	Dalwhinnie ...	997.6	+10	SW	3	ir	37	92	6	5	1	8	4-6	10	1500
	Aberdeen ...	996.6	-2	SSW	3	c	40	75	6	5	2	-	2-3	10	2500
	Wick ...	993.5	+2	SW	5	c	42	85	8	5	2	-	7-8	10	1500
16	Lerwick ...	991.8	+12	WSW	5	c/phr	43	85	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	998.2	0	SW	3	c	49	85	8	8	-	-	7-8	7-8	800
18	Malin Head ...	997.4	+2	S	3	c	45	97	7	5	-	4	4-6	7-8	800
	Aldergrove ...	1000.5	+6	SSW	3	c	42	85	7	5	-	-	9+	9+	1500
19	Birr Castle ...	1002.5	+14	WSW	1	c	46	97	8	5	-	-	9+	9+	1500
20	Valentia Obsy. †	1001.4	-14	S	4	c	50	92	8	5	8	-	9	9+	800
	Roches Point	1003.8	-4	SW	2	dr	32	85	8	2	-	5	2-3	4-6	1500

OBSERVATIONS at 18h. G.M.T. 12th December / 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)	1009.8	+32	WSW	3	2_o	47	85	5	-	-	7	0	10	-	1	*
	Croydon ...	1009.9	+38	WSW	3	c	47	85	6	-	7	-	0	9	-	1	*
	S. Farnborough	1010.2	+26	WSW	2	c	42	92	7	5	7	8	1	9+	4000	1	*
	Boscombe Down	1009.9	+28	SWS	2	2_o	43	97	6	-	3	-	0	9	-	1	*
	Calshot (Sthmtn.)	1010.6	+28	SWS	3	bc	47	97	7	-	5	-	0	4-6	-	1	2
	Lympne ...	1011.0	+46	WSW	3	2_o	47	97	7	5	-	-	7-8	7-8	450	1	3
	Manston ...	1010.0	+40	W	2	c	48	85	7	5	1	-	7-8	10	1500	1	*
2	Shoeburyness ...	1009.8	+44	NWN	3	c	47	85	6	5	-	-	9+	9+	1500	1	*
	Felixstowe ...	1009.7	+48	WNW	3	2_o	43	85	5	-	1	6	0	7-8	-	1	2
	Gorleston ...	1009.0	+50	SW'S	1	o	43	92	5	6	-	-	10	10	1500	1	2
	Mildenhall ...	1009.1	+26	-	0	2_o	39	92	6	-	1	-	0	1	-	1	*
	Cranwell ...	1008.2	+34	S'E	2	m	38	97	4	5	1	-	9	10	800	1	*
3	Birmingham ...	1007.8	+16	W	1	c	44	85	6	-	3	8	9	7-8	-	1	*
4	Upper Heyford	1008.9	+30	-	0	2_o	42	97	6	5	4	2	ir	4-6	2500	1	*
	Ross-on-Wye	1008.0	+12	S'W	2	2_o	44	85	6	5	3	8	1	9+	4000	1	*
5	Bristol ...	1009.2	+20	-	0	2_o	44	97	6	-	7	6	0	9	-	1	*
	Portland Bill ...	1009.1	+20	WSW	3	d/d	48	92	6	5	7	-	10	10	1500	1	4
	Plymouth ...	1008.5	+2	SWS	4	c/f	51	97	6	-	2	-	10	10	220	1	2
	The Lizard ...	1008.4	+2	SW'S	5	m	51	97	4	5	-	-	10	10	800	1	3
	Scilly (St. Mary's)	1006.3	0	SW'S	5	$d_o d_o$	52	97	4	5	-	-	10	10	450	1	4
	Guernsey ...	1011.8	+8	SSW	4	$r_o r_o$	52	97	5	5	-	-	10	10	800	1	4
6	Pembroke ...	1004.8	+2	S	5	id.	48	97	7	5	2	-	7-8	10	2500	1	3
7	Holyhead ...	1003.3	-10	S'E	4	c	44	92	8	5	4	8	2-3	7-8	2500	1	2
8	Chester (Sealand)	1006.6	+12	SSE	2	m/f	40	92	4	5	-	-	7-8	7-8	2500	1	*
	Manchester ...	1007.1	+22	SE'S	1	m	40	97	4	5	-	-	10	10	1500	1	*
10	Spurn Head ...	1007.0	+24	SSW	2	c	40	97	7	5	-	-	10	10	1500	1	1
	Catterick ...	1005.4	+14	SSE	2	f-	35	92	3	-	5	-	0	7-8	-	1	*
	Tynemouth ...	1003.6	+6	SW	2	m	41	85	4	5	-	-	4-6	4-6	1500	1	1
11	St Abbs Head	1000.9	+10	SW	4	c	40	85	7	4	1	8	4-6	7-8	2500	1	2
12	Leuchars ...	1000.9	+12	WSW	1	c	40	92	6	5	1	-	9+	10	1500	1	*
	Renfrew (Abbotsl.)	1000.8	+6	S'W	2	2_o	44	92	6	5	-	-	9+	9+	2500	1	*
	Eskdalemuir ...	1003.1	+6	S'W	4	c	38	97	6	5	-	-	10	10	450	1	*
	Point of Ayre ...	1003.1	+6	SW'S	3	c	43	92	7	8	6	-	7-8	9	800	1	2
13a	Tiree ...	994.9	-12	S	5	c	44	92	7	3	3	-	2-3	9	2500	1	4
13b	Stornoway ...	992.8	+6	SSW	4	c	45	85	8	5	2	-	4-6	10	2500	1	3
15	Dalwhinnie ...	*	+16	S	5	c	38	85	7	4	6	-	4-6	10	2500	4	*
	Aberdeen ...	999.0	+10	SW	3	bc	39	85	6	5	7	8	1	4-6	2500	1	1
	Wick ...	994.8	+12	SSW	3	c	40	92	8	5	7	8	4-6	7-8	1500	1	2
16	Lerwick ...	991.9	-2	SW	6	c/r	41	85	7	6	2	-	7-8	10	800	1	*
17	Blacksod Point	990.5	-60	SE	6	w	48	92	7	9	-	-	10	10	450	1	4
18	Malin Head ...	993.9	-38	S	4	c	44	97	7	4	1	-	4-6	9	1500	1	4
	Aldergrove ...	998.2	-32	ESE	3	c	42	92	8	5	-	-	9+	9+	4000	1	*
19	Birr Castle ...	996.8	-28	S	3	c	46	85	8	5	7	-	4-6	9+	1500	1	*
20	Valentia Obsy. †	993.6	-46	SSW	6	$r_o r_o$	53	97	5	5	-	-	10	10	450	1	3
	Roches Point	998.0	-42	SSE	6	dr	50	97	4	5	-	-	10	10	220	1	4

PAST 24 HOURS.

Stations.	Weather. 7h.–13h. 12th. (37)	Weather. 13h.–18h. 12th. (38)	Weather. 18h. 12th to 1h. 13th. (39)	Weather. 1h.–7h. 13th. (40)
London (Kew)	cm$_o$c	cm$_o$	cm$_o$r$_o$	Rc$_o$c
Croydon ...	cld$_o$m$_o$	cm$_o$	cm$_o$d$_o$r$_o$	cr$_o$bq
S. Farnborough	ld$_o$d$_o$r$_o$c	c	cld$_o$rr	crRld$_o$
Boscombe Down	cd$_o$d$_o$r$_o$m$_o$c	cm$_o$	cod$_o$fRR	cRRc$_o$c
Calshot (Sthmtn.)	old$_o$cm	cbc	d$_o$r$_o$	cRRpr
Lympne ...	or$_o$d$_o$m$_o$	cld$_o$cm$_o$	bcfd$_o$r	fcfrd
Manston ...	oir$_o$c	c	cm$_o$m$_o$d$_o$r$_o$	cm$_o$r$_o$d$_o$q
Shoeburyness ...	m$_o$d$_o$cm$_o$q	cm$_o$	cb, cm$_o$	c$_o$rm$_o$c
Felixstowe ...	cr$_o$r$_o$ld$_o$cm$_o$	cm$_o$	c$_o$r$_o$c$_o$r$_o$	c$_o$rc$_o$rm$_o$
Gorleston ...	or$_o$r$_o$f	r$_o$fom$_o$	o c2$_o$q	Or$_o$Oq
Mildenhall ...	rrm r$_o$d$_o$c$_o$q	cm$_o$	cm$_o$bc$_o$r	crrr$_o$r$_o$c
Cranwell ...	rrr$_o$r$_o$f$_o$d$_o$	cmid$_o$cm$_o$m$_o$cm$_o$r$_o$r	rrprc	
Birmingham ...	or$_o$fc	cbcc	~~c~~forr	~~cpr~~bc
Upper Heyford	cr$_o$r$_o$c	cbcm$_o$	bccr$_o$rm$_o$	c r$_o$q m$_o$
Ross-on-Wye	cbcc	bcc	d$_o$q rr	rq$_o$r$_o$c
Bristol ...	c$_o$d$_o$d$_o$d$_o$	c	c$_o$m$_o$r$_o$r$_o$	crrRR
Portland Bill ...	cprc	o d$_o$d$_o$z$_o$	odrr	oR
Plymouth ...	or$_o$r$_o$d$_o$d$_o$m$_o$c	~~c~~m$_o$m$_o$	o$_o$r$_o$r$_o$R	orrd$_o$d$_o$q
The Lizard ...	r$_o$r$_o$m$_o$	o$_o$f$_o$r$_o$m	mirrr	irrm$_o$
Scilly (St. Mary's)	o i d$_o$c	f$_o$f$_o$d$_o$c d$_o$	r$_o$r$_o$r d$_o$	o i d$_o$c
Guernsey ...	pr$_o$rr	oirr$_o$	oir$_o$	·ir$_o$rr
Pembroke ...	cq c	id$_o$q c	o$_o$d$_o$r$_o$m$_o$c	cq
Holyhead ...	b,c	c ⊕	r$_o$r$_o$d$_o$d$_o$c	cd$_o$rm$_o$b
Chester (Sealand)	o d d d$_o$m$_o$	b c f m	cir$_o$m$_o$	cpr$_o$m$_o$
Manchester ...	p r r m$_o$d d f f	o f f o c c m	c m r r$_o$r$_o$	c r$_o$r$_o$b c p$_o$r$_o$
Spurn Head ...	r r d d m	o f c	c o q r	r q c
Catterick ...	r$_o$f c b c	b c m b c f	~~p m q r~~	p r$_o$r bc
Tynemouth ...	o m b c	b c m	b c m o r	o i r$_o$b c
St Abbs Head	pr$_o$c	c	r r c q	r r c b
Leuchars ...	b c m x l r c	c o c m$_o$	c m$_o$a r m ⊕	o r r b c q b
Renfrew (Abbotsl.)	m$_o$r$_o$r$_o$c d$_o$	r$_o$c c m$_o$	c m$_o$r$_o$ RR	~~r f r q p o b~~
Eskdalemuir ...	o i d$_o$	o c m$_o$	o R	o RR bc
Point of Ayre ...	r$_o$r c	c	c d r r$_o$	c q
Tiree ...	c i d o r	c	c R R	p r o c l
Stornoway ...	c p r$_o$	c p r	c p r$_o$ r r	c R r i s
Aberdeen ...	c i r	c	*	
Wick ...	c z$_o$	c b c z$_o$	c z$_o$r$_o$	R R b
Lerwick ...	c p h r	c p r c	c	n b c l
Blacksod Point	b c	r r q	p r e q	P R q
Malin Head ...	c b c c	c	c r r c l R q	c p h r b c
Aldergrove ...	c r$_o$q d o d	c m$_o$c	b o r r R	c b
Birr Castle ...	c i r c	c	corr	o r r b c
Valentia Obsy. †	b c c	i d$_o$r$_o$r$_o$	r o$_o$r r c	c p r c
Roches Point	b c	c o d r d r	d r d r c	c p r b c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.

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

† Sea disturbance reported from Dungeness.

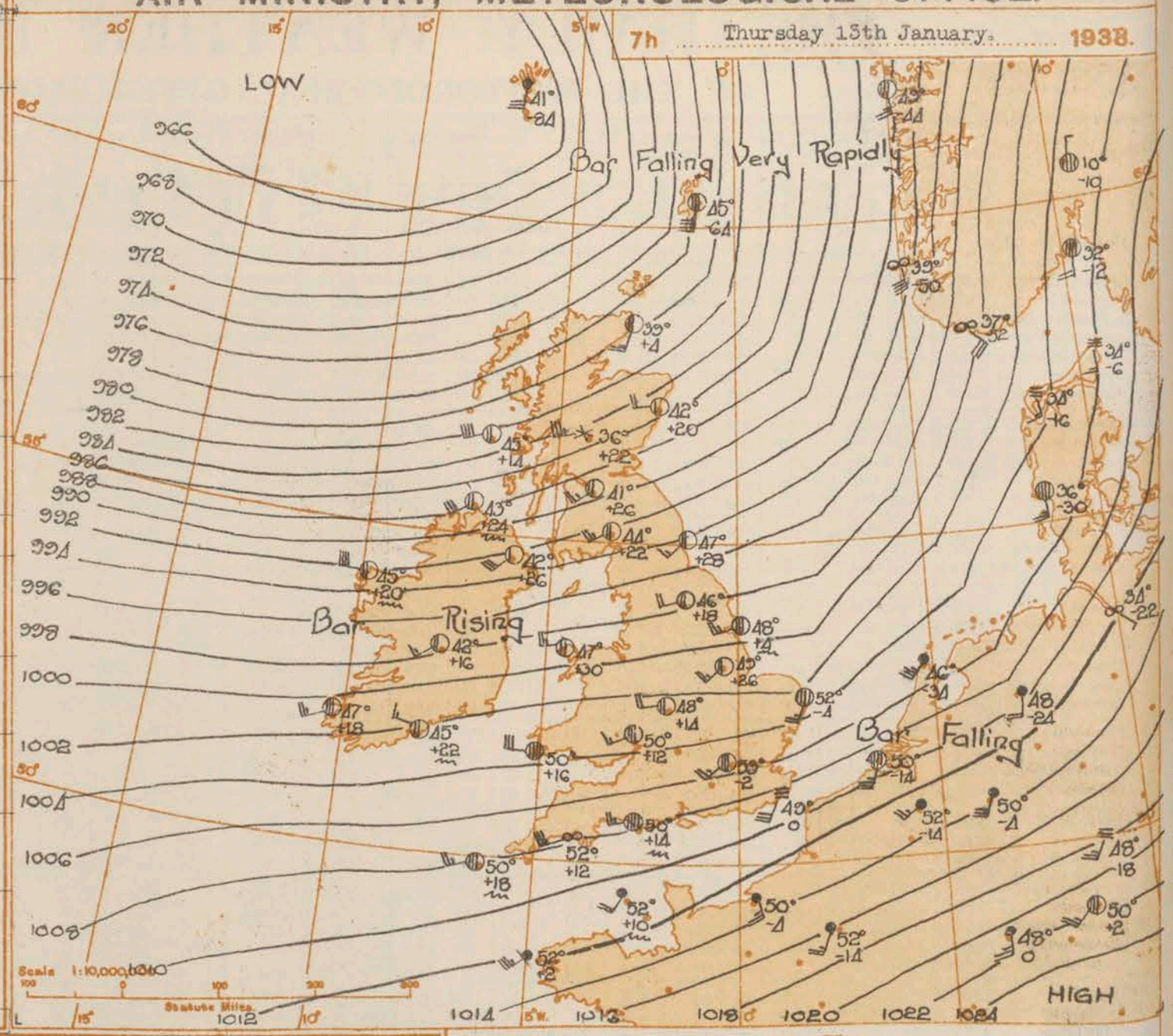
REPORTS from HEALTH RESORTS for 12th January 1938

District	Stations	Weather. Fore-noon.	Weather. After-noon.	Temperature (°F.). Min. 9h. 11th to 9h. 12th	Temperature (°F.). Max. 9h.—17h. 12th	Rainfall (mm.). Night. 17h. 11th to 9h. 12th	Rainfall (mm.). Day. 9h.—17h. 12th	Sunshine (hrs.). Sunrise to Sunset. 12th
1	Tunbridge W.	odo	obccb	36	54	4	0·3	0·4
	Bournemouth	cabc	c	40	54	3	-	0·4
	Ventnor ...	rmo	oc	43	51	8	Trace	0·2
	Southsea ...	c	co	41	52	4	-	0·1
	Bognor Regis	oorc	ccoo	39	52	5	Trace	0·1
	Littlehampton	oc	cbc	38	51	6	-	0·0
	Worthing ...	oid°c	c	39	50	7	Trace	0·0
	Brighton ...	cdc	c	40	49	9	Trace	0·0
	Eastbourne† ...	do	ocbc	47	51	12	0·2	0·0
	Hastings† ...	oddo	oc	45	51	7	0·5	0·0
	Folkestone ..	om id	od°c	35	52	6	0·3	0·1
	Dover ...	od	docbc	41	53	6	Trace	0·0
	Deal	o	oco	37	54	4	-	0·1
	Ramsgate ...	c	c	44	54	5	-	0·0
	Margate ...	c	c	41	55	6	-	0·0
2	Southend ...	o	o	36	53	4	-	0·0
	Clacton-on-Sea	ep°c	coc	32	52	7	Trace	0·0
	Dovercourt ...	rocd	bcc	35	54	6	Trace	0·0
	Lowestoft ...	cmf ir	cir	32	50	7	2	0·0
	Skegness ...	rb	ocm	33	41	7	-	0·0
	Mablethorpe...	or	om°	37	41	4	0·5	0·0
	Cleethorpes ...	or	or	37	41	3	0·5	0·0
3	Leamington S.	orc	co	36	52	11	-	0·0
4	Cheltenham†	c	cbc	40	51	4	-	0·2
5	Bath	r°c	c	40	53	6	0·3	0·0
	Weymouth ...	c	c	45	52	3	-	0·1
	Jersey ...	rcdc	dcr	46	51	3	1	0·0
	Torquay ...	bg.cbc	oodm	43	54	3	Trace	0·2
	Falmouth	cd.rdo	od.dg	51	52	10	Trace	0·0
	Penzance ...	rdcd°	oid°	45	53	6	Trace	0·0
	St. Ives ...	o	d	39	48	2	1	0·0
	Bude... ...	prod	od	46	51	1	0·6	0·0
	Ilfracombe ...	brdr	drocc	47	51	5	Trace	0·0
6	Aberystwyth	cro	c	41	45	9	-	0·0
7	Llandudno ...	c	cbc	39	46	3	-	0·2
	Colwyn Bay...	coocc	bccbc	39	46	4	-	0·3
	Rhyl	om°c	c	38	46	5	-	0·3
8	Wallasey ...	fd ac	cbcom	39	43	4	-	0·6
	Southport ...	d°om	omcom	37	41	3	0·1	0·0
	Blackpool ...	om°	ofmof	38	41	2	-	0·0
	Morecambe ...	cmc	rhcd	36	42	2	Trace	0·0
9	Ilkley... ...	rddo	ocbc	37	42	3	0·3	0·3
	Harrogate ...	ur°bc	bcc	35	41	4	0·2	0·9
10	Berwick-on-T.	cor°c	bcc	34	43	-	0·2	0·3
11	Dunbar ...	bc	bcpr°	30	44	Trace	0·5	0·1
12	Troon... ...	rorac	coc	38	45	0·5	0·3	0·0
	Douglas ...	bcid	bcid°	40	44	5	Trace	0·2

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Thursday 13th January. 1938.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
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 January, 1938.
1 S.E. England, 2 E. England, 3 E. Midlands	Moderate to strong westerly winds, stronger locally in squalls; bright periods with scattered showers of rain or hail at first, cloudy later with rain or drizzle at times; rather mild.
4 W. Midlands, 5 S.W. England	Moderate to strong westerly winds, backing temporarily towards south; bright periods and squally showers at first, occasional rain or drizzle later; rather mild.
6 South Wales, 7 North Wales, 8 N.W. England, 9 N. Midlands, 10 N.E. England	Moderate to strong westerly winds, stronger at first locally in squalls, backing temporarily; bright periods with rain or hail showers today, cloudy with rain at times tomorrow; average temperature.
11 S.E. Scotland, 12 S.W. Scotland & Isle of Man, 13 A. W. Scotls. B.N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland, 16 Orkney and Shetland	Moderate to strong westerly winds, a gale at times locally at first, backing; bright periods with showers of rain or hail today, occasional rain with sleet or snow on high ground tomorrow; becoming colder.
17 N.W. Ireland, 18 N.E. Ireland	As 6 - 10.
19 S.E. Ireland, 20 S.W. Ireland	As 4 - 5.

GENERAL INFERENCE.

A depression centred near the Faeroes is moving northeastwards and another forming to the north of the Azores will move towards Ireland. Mainly bright weather with squally showers of rain or hail will be general today but cloudier conditions will soon spread in over southwestern districts and extend eastwards across the country.

FURTHER OUTLOOK.

Unsettled; continuing rather mild in the South, becoming colder in the North.

Times of issue of Gale Warnings.

South Cone hoisted 1930 11/1 in districts 5 & 6.
South Cone hoisted 0910 12/1 in district 1.
South Cone hoisted 1500 12/1 in districts 17 & 20.
South Cone hoisted 1940 12/1 in districts 7,12,13,18,19.
South Cone hoisted 0200 13/1 in districts 2, 8. 10, 11, 15, 16.

Forecasts issued at 1030 G.M.T.

GEORGE C. SIMPSON, K.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.

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

THURSDAY 13TH JANUARY.

1938.

Gnomonic Projection Scale 1: 4 x 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— Clear sky. Sky less than 2/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Thursday 13th January, 1938.
No. 27811.

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)	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	1008·0	-22	SW	5	r.r.	51	92	7	6	2	-	9	10	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1010·6	-20	SW'S	5	rf	49	97	2	-	-	-	10	10	150
	Manston ...	142	1009·5	-18	SSW	4	r.r.	50	97	6	6	2	-	7-8	10	450
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1006·2	-34	SSE	5	c	41	92	6	5	-	-	10	10	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1005·6	-28	SW	6	r r	49	92	6	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1004·7	-10	SW'S	8	r.r.	52	97	6	5	-	-	10	10	800
	Scilly (St. Mary's)	163	1003·0	-2	SW	7	d.d.	53	97	6	5	-	-	10	10	1500
	Guernsey ..	175	1011·2	-20	SSW	4	ir.	52	92	6	5	-	-	10	10	1500
6	Pembroke ...	142	999·9	-20	SW'W	8	dr.	50	97	5	5	-	-	10	10	2500
7	Holyhead ...	26	999·0	-42	SW'S	6	d.d.	51	97	6	6	2	-	2-3	10	450
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1000·6	-36	SSE	6	q	42	97	6	5	-	-	10	10	800
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	999·7	-64	S	5	rr	43	92	6	6	-	-	10	10	800
11	St Abb's Head ..	280	998·8	-80	SSW	6	rr	39	97	6	9	2	-	7-8	10	800
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	998·1	-70	SW	6	ir.	50	97	7	6	-	-	9+	9+	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	976·9	-80	SSE	8	rr	45	92	6	6	2	-	4-6	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	985·5	-70	SSW	6	c	43	85	8	5	2	-	7-8	10	1500
16	Lerwick ...	156	990·0	-32	SSW	6	c	45	85	8	5	2	-	4-6	10	1500
17	Blacksod Point	18	987·0	-2	SW	8	q	47	75	7	9	-	-	10	10	450
18	Malin Head ...	84	981·9	-20	SSW	6	c	47	92	6	9	-	4	4-6	7-8	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	995·1	+10	S	6	o	48	97	7	9	-	-	10	10	1500
	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)	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	+4	SW	4	c	52	92	7	5	-	-	10	10	1500	1	*
	Croydon ...	1006·1	-2	SW	5	c/r	53	92	7	6	2	-	9+	10	1500	1	*
	S. Farnborough	1006·4	+4	SW	5	r/d	52	92	5	5	-	-	10	10	1500	1	*
	Boscombe Down	1006·5	+18	SW'S	4	c	52	92	7	5	2	-	2-3	10	1500	1	*
	Calshot (Sthmtn.)	1008·0	+12	SW'W	5	c/r	50	97	8	5	7	-	7-8	10	800	1	3
	Lympne ...	1008·8	0	SSW	6	df	49	97	2	-	-	-	10	10	150	1	3
	Manston ...	1006·9	-6	SW	6	d.d.	50	92	6	6	2	-	9+	10	450	1	*
2	Shoeburyness ...	1006·2	+2	SW	6	ir.	51	92	7	5	-	-	10	10	800	1	*
	Felixstowe ...	1005·0	-4	SSW	4	z.	48	92	6	5	-	-	10	10	1500	1	2
	Gorleston ...	1002·9	-4	SW	5	0	52	85	6	6	-	-	10	10	1500	1	3
	Mildenhall ...	1002·8	+12	SW'S	5	c	53	92	8	5	3	-	2-3	9	1500	1	*
	Cranwell ...	1000·7	+26	SW	5	bc	49	75	8	5	-	-	4-6	4-6	4000	1	*
3	Birmingham ...	1002·5	+14	WSW	4	bc	48	75	6	5	-	-	4-6	4-6	1500	1	*
	Upper Heyford	1004·0	+14	SW	4	q	48	92	6	5	2	-	9+	10	2500	1	*
4	Ross-on-Wye	1003·7	+12	SW'W	3	c	50	85	6	6	7	-	2-3	7-8	2500	1	*
5	Bristol ...	1005·3	+18	SW	4	c	51	85	7	5	-	-	10	10	1500	1	*
	Portland Bill ...	1007·0	+14	WSW	5	0	50	92	6	5	-	-	10	10	1500	1	4
	Plymouth ...	1007·6	+12	SW'W	6	z.	52	92	6	6	2	-	7-8	10	450	1	3
	The Lizard ...	1008·3	+10	SW'S	5	0	51	97	7	6	-	-	10	10	1500	1	3
	Scilly (St. Mary's)	1007·1	+18	WSW	5	c	50	92	6	5	-	-	10	10	1500	1	4
	Guernsey ..	1011·3	+10	SW	4	rr	52	97	4	5	-	-	10	10	800	1	4
6	Pembroke ...	1002·4	+16	W	6	q	50	85	7	8	-	-	9+	9+	1500	1	5
7	Holyhead ...	999·0	+30	WSW	5	b	47	75	8	5	-	-	1	1	4000	1	3
	Chester (Sealand)	1000·3	+16	WSW	4	bc/pr	49	75	7	5	-	-	2-3	2-3	2500	1	*
8	Manchester ...	999·0	+26	SW'W	4	bc/pr	48	75	7	8	4	-	2-3	2-3	2500	1	*
10	Spurn Head ...	998·4	+4	SW'W	5	c	48	85	7	5	-	3	4-6	9	4000	1	4
	Catterick ...	996·4	+18	SW'W	4	bc	46	75	7	8	-	-	4-6	4-6	1500	1	*
	Tynemouth ...	993·4	+28	SW	3	bc/r	47	65	6	5	-	-	4-6	4-6	1500	1	2
11	St Abb's Head ..	989·1	+20	WSW	5	bc	44	65	7	-	3	-	0	2-3	-	1	3
	Leuchars ...	987·8	+20	SW	6	bc	43	75	7	5	-	-	2-3	2-3	2500	1	*
12	Renfrew (Abbotsl.)	989·7	+22	SW	5	bc/pr	44	85	7	5	-	-	2-3	2-3	4000	1	*
	Eskdalemuir ...	992·5	+26	SW	5	bc	41	85	7	5	-	-	2-3	2-3	2500	1	*
	Point of Ayre ...	995·0	+28	W	6	bc	45	75	8	-	4	-	0	2-3	-	1	4
13A	Tiree	982·7	+14	WSW	8	bc/pr	45	65	7	8	6	-	4-6	4-6	1500	1	*
13B	Stornoway ...	974·6	-6	SW	9	c/pr	43	65	7	8	-	-	8	8	1500	1	5
15	Dalwhinnie ...	985·6	+22	WSW	7	is	36	85	6	8	6	-	4-6	7-8	1500	4	*
	Aberdeen ...	985·3	+20	WSW	4	b	42	75	7	5	-	-	Tr	Tr	2500	1	1
	Wick ...	979·2	+4	SSW	5	bc	39	85	8	5	7	-	2-3	4-6	1500	1	3
16	Lerwick ...	976·2	-64	S	8	c/r	45	85	6	8	2	-	7-8	10	800	1	*
17	Blacksod Point	992·7	+20	W	8	q	45	75	8	9	-	-	4-6	4-6	800	1	7
18	Malin Head ...	987·5	+24	SW	6	bc/ph	43	92	7	9	-	-	4-6	4-6	800	1	4
	Aldergrove ...	989·2	+26	SW	6	b	42	65	8	-	-	-	0	0	-	1	*
19	Birr Castle ...	997·9	+16	SW	3	bc	42	85	8	-	4	-	0	2-3	-	1	*
20	Valentia Obsy. †	1001·2	+18	SW'W	5	c	47	65	8	8	-	-	7-8	7-8	2500	1	3
	Roches Point	1002·8	+22	WNW	3	bc	45	85	8	3	-	-	4-6	4-6	1500	1	4

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 1Z... Hrs. (36)
1	London (Kew)	54	44	38	-	5	0·0
	Croydon ...	54	45	41	0·1	5	0·0
	S. Farnborough	53	42	34	Tr	6	0·0
	Boscombe Down	53	42	39	0·2	9	0·0
	Calshot (Sthmtn.)	55	45	43	0·1	13	0·1
	Lympne ...	51	43	35	0·2	5	0·0
	Manston ...	54	41	35	0·1	2	0·0
2	Shoeburyness ...	55	42	38	0·1	3	0·0
	Felixstowe ...	53	36	31	0·2	2	0·0
	Gorleston ...	45	40	37	5	2	0·0
	Mildenhall ...	54	36	30	4	2	0·3
	Cranwell ...	40	35	31	2	2	0·0
3	Birmingham ...	48	41	36	1	5	0·0
	Upper Heyford	53	40	29	1	5	*
4	Ross-on-Wye	54	44	41	0·1	6	1·5
5	Bristol ...	53	43	40	3	14	0·0
	Portland Bill ...	51	46	*	0·4	11	*
	Plymouth ...	52	50	49	1	8	0·0
	The Lizard ...	51	49	*	1	4	*
	Scilly (St. Mary's)	52	50	*	0·6	Tr	0·0
	Guernsey ..	52	51	45	3	11	0·0
6	Pembroke ...	51	47	*	0·1	8	0·6
7	Holyhead ...	46	44	41	-	4	0·4
	Chester (Sealand)	41	40	36	1	1	0·0
8	Manchester ...	42	39	37	1	10	0·0
10	Spurn Head ...	41	39	*	3	1	0·0
	Catterick ...	44	34	32	2	5	1·8
	Tynemouth ...	45	38	34	-	2	0·4
11	St Abb's Head ..	42	38	*	0·6	3	*
	Leuchars ...	42	35	31	0·1	8	0·0
12	Renfrew (Abbotsl.)	44	42	40	1	9	0·1
	Eskdalemuir ...	40	36	36	0·3	12	0·0
	Point of Ayre ...	48	43	*	1	5	2·6
13A	Tiree	47	45	39	1	6	0·0
13B	Stornoway ...	46	41	*	3	7	0·0
15	Dalwhinnie ...	38	33	31	0·5	33	0·4
	Aberdeen ...	42	38	34	-	8	0·1
	Wick ...	43	39	*	0·3	4	*
16	Lerwick ...	45	39	*	2	4	0·6
17	Blacksod Point	49	39	*	5	13	*
18	Malin Head ...	46	42	*	2	7	0·1
	Aldergrove ...	42	41	37	0·1	4	0·5
19	Birr Castle ...	49	40	*	Tr	4	0·4
20	Valentia Obsy. †	53	44	39	3	7	0·8
	Roches Point	53	45	*	2	6	*

LONDON OBSERVATIONS

(a) 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cm.c	cm.	cm.r.Rc	54	44	38	-	5	0·0	*	*	6
Croydon	217	c.d.m.	cm.	cm.d.Rc	54	45	41	0·1	5	0·0	*	*	6
Greenwich (Royal Observatory)...	149	dc	c	d/drcd	54	44	37	Tr	6	0·0	79	84	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St James' Park) ..	27	*	*	*	54	47	38	5		0·0	79	89	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	54	46	42	Tr	6	0·0	86	87	*
Camden Square	110	c	c	*	53	47	40	-	6	*	*	88	*
Kensington	80										At 18h.		
Hampstead Observatory	450	cop	co	*	54	46	37	Tr.	6	0·0	*	90	*
		o/	c	c.r	62	45	38	Tr	6	0·0		94	

FOREIGN OBSERVATIONS.

Stations	18h G.M.T. 12th 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.
Paris	1015·3	SW	6	c	54	1016·3	SSW	5	rr	52
Brussels	1010·0	W	5	c	50	1011·8	SW	5	r.r.	52
Berlin	1004·3	SE	1	rf	36	1017·9	SSW	3	f	36
Zürich	1022·7	SW	5	ir.	48	1027·0	SSE	2	c	43
Rome	1023·7	ESE	1	c	46	1025·9	ESE	1	z.	45

Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
52	52	-	3
54	46	4	5
37	34	1	1
48	41	5	0·6
*	*	-	-

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·6	15–21h 12th	<0·3	2–4h 13th

Kew Observatory. Max.	Time.	Min.	Time.
0·3	19h 12th	<0·1	0–7h 13th

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2¼	,,
6	Moderate ,,	6½	,,
7	Good ,,	12½	,,
8	Very good ,,	31	,,
9	Excellent ,,	beyond 31m.	

COLUMN 30 — Code for State of Sea.

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

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

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

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. ‖ Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 14th January, 1938.

No. 27812.

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)	1008·9	+1·0	SW	3	z_o	52	75	6	5	2	-	2-3	10	1500
	Croydon ...	1009·2	+6	WSW	4	z_o	52	75	6	6	2	-	4-6	10	1500
	S. Farnborough	1009·0	+2	SW	3	c	51	85	7	-	2	-	10	10	4000
	Boscombe Down	1009·5	+6	SW	3	c	49	85	7	5	-	-	10	10	1500
	Calshot (Sthmtn.)	1010·4	+1·0	SW	4	r_o	49	92	6	6	2	-	10	10	800
	Lympne ...	1010·5	+2	SW	4	c/r	50	97	6	5	2	-	9	10	450
	Manston ...	1009·7	+6	SW	5	c	52	85	7	5	2	-	4-6	10	800
2	Shoeburyness ...	1009·0	+4	SW'S	4	c	52	85	6	5	2	-	4-6	10	1500
	Felixstowe ...	1008·2	+6	WSW	2	c/r	51	85	5	5	2	-	9	10	1500
	Gorleston ...	1007·9	+1·0	SW	3	o	52	75	6	6	-	-	10	10	2500
	Mildenhall ...	1007·0	+6	SWW	5	c	51	75	7	5	2	-	7-8	10	4000
	Cranwell ...	1005·6	+1·6	SW'S	4	c	49	75	7	5	7	-	9+	10	2500
3	Birmingham ...	1006·5	+1·0	SW	3	c	47	75	7	5	2	-	7-8	10	2500
4	Upper Heyford	1008·0	+1·0	W'S	4	z_o	49	85	6	5	7	-	7-8	10	2500
	Ross-on-Wye	1006·9	+4	SW	3	c	49	75	7	6	2	-	Tr	10	1500
5	Bristol ...	1008·6	+8	WSW	3	c	49	85	7	5	2	-	4-6	10	1500
	Portland Bill ...	1009·2	+4	WSW	5	RR	50	92	6	5	-	-	10	10	1500
	Plymouth ...	1010·3	+8	SWW	4	rr	48	85	6	6	-	-	10	10	800
	The Lizard ...	1010·2	0	WSW	5	rr	46	92	6	5	-	-	10	10	1500
	Scilly (St. Mary's)	1009·1	0	SW	4	ir	46	92	7	5	-	-	10	10	1500
	Guernsey ...	1011·3	-6	SW	3	rr	51	97	6	5	-	-	10	10	1500
6	Pembroke ...	1006·0	+8	WSW	5	q	49	92	7	5	-	-	10	10	2500
7	Holyhead ...	1002·8	+1·4	SWW	4	c	48	75	8	1	8	7	Tr	10	2500
	Chester (Sealand)	1004·1	+1·0	SWW	4	c	49	65	7	5	7	-	2-3	10	4000
8	Manchester ...	1003·8	+1·8	SW	3	z_o	48	65	6	5	1	-	4-6	10	4000
10	Spurn Head ...	1003·9	+1·6	SW	4	c	47	85	7	-	-	7	0	10	-
	Catterick ...	1001·1	+1·0	SWW	4	pr_o	46	65	8	2	7	2	2-3	9	1500
	Tynemouth ...	998·4	+8	W	4	bc	47	75	6	2	-	1	4-6	4-6	1500
11	St Abbs Head ...	994·0	+6	SW	5	c	44	75	8	8	1	1	4-6	7-8	2500
	Leuchars ...	991·6	+1·0	SW	6	q	43	65	8	9	-	3	4-6	4-6	2500
12	Renfrew (Abbotsl.)	993·0	+1·0	SW	6	c/pr	44	85	8	8	-	6	4-6	7-8	2500
	Eskdalemuir ...	996·7	+8	SW	5	c	41	75	7	5	-	2	9+	9+	1500
	Point of Ayre ...	998·8	+1·8	W'S	6	c	47	75	8	5	-	7	Tr	10	2500
13a	Tiree	987·2	+2·6	WSW	8	c	45	75	7	3	-	-	9	9	1500
13b	Stornoway ...	976·6	+2·0	SW	9	c/phr	44	65	7	9	7	-	7-8	7-8	1500
15	Dalwhinnie ...	988·4	+2	SW	7	c	37	85	7	8	6	-	7-8	10	2500
	Aberdeen ...	988·8	+8	SWW	5	b	43	75	7	3	-	-	1	1	2500
	Wick ...	980·8	+6	SSW	8	pr_o	42	85	8	5	7	-	2-3	4-6	1500
16	Lerwick ...	975·6	-6	WSW	8	c/phr	40	85	8	8	9	-	4-6	7-8	800
17	Blacksod Point	995·6	+1·2	WSW	8	q	47	75	8	9	-	-	9+	9+	450
18	Malin Head ...	991·8	+1·8	SWW	5	jp	46	92	6	6	-	-	7-8	7-8	800
	Aldergrove ...	997·0	+1·0	SW'S	5	c	44	75	8	5	-	6	Tr	7-8	2500
19	Birr Castle ...	1001·2	+6	SW	2	c	46	75	8	5	1	-	4-6	10	2500
20	Valentia Obsy. †	1002·7	-4	SW	6	c	50	75	8	5	7	-	4-6	9+	2500
	Roches Point	1004·8	+4	WSW	4	c	49	85	8	5	2	-	2-3	10	800

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind: Direc. (17)	Wind: Force 0–12 (18)	Weather. (19)	°Temp. F. (20)	%Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1009·3	-2	S'W	3	c/r	45	92	6	5	-	-	10	10	800	1	*
	Croydon ...	1010·2	+1·0	SW'S	3	$r_o r_o$	44	92	6	6	2	-	2-3	10	2500	1	*
	S. Farnborough	1009·6	0	SSW	3	$r_o r_o$	43	92	6	-	2	-	10	10	2500	1	*
	Boscombe Down	1009·1	-6	SSW	3	c/r	42	97	6	-	2	-	10	10	800	1	*
	Calshot (Sthmtn.)	1010·9	+6	SW'S	3	$r_o r_o$	44	97	6	5	-	-	10	10	800	1	3
	Lympne ...	1011·1	-2	WNW	3	rr	44	92	6	6	2	-	9	10	800	+	5 | 1
	Manston ...	1010·4	+2	WSW	2	r_o	45	92	6	-	2	-	10	10	800	1	*
2	Shoeburyness ...	1010·1	+4	W	3	rr	44	97	5	-	2	-	10	10	800	1	*
	Felixstowe ...	1009·8	+8	SSW	3	rr	44	92	6	6	2	-	4-6	10	800	1	3
	Gorleston ...	1008·5	0	S'W	4	o	43	65	6	5	-	-	10	10	2500	1	2
	Mildenhall ...	1007·4	+2	SSW	4	c	47	75	8	5	2	-	4-6	10	2500	1	-
	Cranwell ...	1006·0	+6	SW'S	3	z_o	45	85	6	-	2	-	0	10	-	1	*
3	Birmingham ...	1007·2	+4	SSE	1	c	45	85	6	-	1	-	0	10	-	1	*
4	Upper Heyford	1008·5	+1·2	SW'S	4	z_o	44	85	6	5	2	-	4-6	10	1500	1	*
	Ross-on-Wye	1007·4	+6	WSW	4	q	47	85	7	6	2	-	1	10	1500	1	*
5	Bristol ...	1008·6	+8	SSW	3	c	45	85	7	5	2	-	2-3	10	2500	1	*
	Portland Bill ...	1009·3	+4	W	3	rr	45	92	7	5	-	-	10	10	1500	2	4
	Plymouth ...	1010·1	-2	S	4	c	46	92	7	-	2	-	9+	9+	5700	1	2
	The Lizard ...	1010·6	+4	SW	3	c	46	85	8	5	-	-	9	9	1500	1	3
	Scilly (St. Mary's)	1009·5	+1·4	SW'W	5	c	47	85	8	8	6	-	4-6	7-8	2500	1	3
	Guernsey ...	1011·6	+2	NW'N	1	rr	46	92	5	5	-	-	10	10	800	2	4
6	Pembroke ...	1006·6	+2	W'S	5	q	49	97	7	5	7	-	4-6	9+	2500	1	4
7	Holyhead ...	1002·9	+4	SW	5	c	47	85	7	5	9	-	7-8	9+	4000	1	3
	Chester (Sealand)	1004·6	+8	SSW	3	z_o	47	65	6	-	7	8	0	4-6	-	1	*
8	Manchester ...	1004·5	+4	SSW	3	z_o	44	75	6	5	1	2	1	7-8	2500	1	*
10	Spurn Head ...	1004·9	+6	SW'S	3	c	44	85	7	-	-	7	0	10	-	0	2
	Catterick ...	1002·2	+6	SW'S	4	c	43	75	7	-	3	3	0	7-8	-	1	*
	Tynemouth ...	1000·2	+1·2	SW	3	bc	44	75	6	5	3	1	2-3	4-6	1500	1	2
11	St Abbs Head ...	994·6	+4	SSW	4	bc	42	85	8	-	3	2	0	4-6	-	0	3
	Leuchars ...	993·3	+1·0	SW	5	c	43	75	7	4	-	3	7-8	7-8	2500	1	*
12	Renfrew (Abbotsl.)	994·9	+1·4	SW	6	tlr$_o$	44	85	8	3	-	-	9	9	2500	1	*
	Eskdalemuir ...	997·6	+2	SW'S	6	ir$_o$	41	85	6	6	2	-	9+	10	800	1	*
	Point of Ayre ...	999·5	+1·0	W'S	6	pr_o	45	75	7	8	7	8	4-6	9+	1500	1	4
13a	Tiree	991·0	+2·6	W'N	7	bc/pr	43	85	7	3	-	3	4-6	4-6	1500	1	6
13b	Stornoway ...	981·4	+2·4	WSW	9	c/pr	42	65	6	3	-	-	7-8	7-8	1500	1	5
15	Dalwhinnie ...	991·0	+8	WSW	7	ir	38	75	7	8	6	-	7-8	10	2500	1	*
	Aberdeen ...	992·3	+3·0	SW	4	pr_o	40	85	7	3	-	-	7-8	7-8	2500	1	2
	Wick ...	983·5	+1·6	SSW	8	bc	39	85	8	9	1	-	4-6	4-6	1500	1	4
16	Lerwick ...	974·9	-6	SSW	8	c	43	85	7	5	2	-	7-8	10	800	1	*
17	Blacksod Point	997·8	+1·0	W	6	q	47	85	8	9	-	-	4-6	4-6	800	1	5
18	Malin Head ...	994·3	+2·2	SSW	5	bc	41	97	7	4	-	1	2-3	4-6	1500	0	4
	Aldergrove ...	998·8	+1·6	SSW	3	c/pr	38	92	8	8	-	-	9+	9+	1500	1	*
19	Birr Castle ...	1001·8	+8	SW	2	c/pr	42	97	8	8	-	-	7-8	7-8	1500	1	*
20	Valentia Obsy. †	1004·7	+1·8	WSW	5	phr	49	75	8	9	-	-	9	9	1500	1	3
	Roches Point	1005·9	+1·6	W	4	bc	48	85	8	3	-	3	2-3	4-6	1500	1	4

PAST 24 HOURS.

Weather 7h.–13h. (37)	Weather 13h.–18h. (38)	Weather 18h. 13th to 1h. 14th (39)	Weather 1h.–7h. 14th (40)
cm$_o$cz$_o$	crrr$_o$c	cr$_o$cm$_o$	cm$_o$
cm$_o$z$_o$	r$_o$r$_o$rr	r$_o$r$_o$rc	bc
cm$_o$	ir$_o$rro	ir$_o$rc	cbcc
c	cqrrm$_o$q	cm$_o$cb	b
om$_o$rq	cRRm$_o$	cr$_o$$_o$bc	bbc
fdfrair	or$_o$qrrm$_o$	frrbc	bcbbc
cd$_o$c	cor$_o$m$_o$	or$_o$m$_o$cm$_o$	cbbc
cir$_o$m$_o$c	ir$_o$rrm$_o$	rrr$_o$m$_o$	cm$_o$b
cddir$_o$m$_o$	rrgcrrm$_o$	crrrm$_o$m$_o$	bc
p_oq$_o$co	oq	oqzbc	bc
ccm$_o$c	c	cbcb	bw
bcc	ccm$_o$	bc	bc
bcc	c	cbc	bc
cm$_o$	cm$_o$r$_o$	cbc	bccpr
c	cq$_o$p$_o$c	bcc	bc
c	cr$_o$c	cbc	bccpr$_o$
oR	oR	c	c
cm$_o$r$_o$	crrm$_o$q$_o$	c$_o$bccbc	bcc
orr	rrc	cbc	bccpr
cp$_o$ir	circ	bcp$_o$bc	bcc
orrr	orrc	orrc	cbc
cqm$_o$c	cq	bccq	cpr$_o$
b$_l$c ⊕	c r ⊕	cpr$_o$b$_l$c	cbw
bcz$_o$c ⊕	cbcz$_o$ ⊕	bcpr$_o$	bcRbbc
bccmz$_o$	cbcz$_o$	bcz$_o$p$_o$b$_l$c	br$_o$bbc
c	c	cbm$_o$w	bbcw
cpr$_o$	cpr$_o$bc	m$_o$r$_o$r b	b
bc	bc	bcpbc	bbc
bbcc	bc	b	b
bqcpr$_o$bcq	cqprPR	cb$_l$cPRq	bcqbc
bcpr$_o$	bcc	tlr$_o$qbc	cprqb
bcc	ccir$_o$		cir$_o$
c	cq	prcbb	bc
bcpro	pRhqbc	bcphrl	bc
cprphrl	cphrPHRbc	bcPHL	bcphr
csrs	csrsir	o	csrsir
bpr$_o$	bcqpr	cPRbc	bcb
bcpr$_o$	bcprs	bcprl	pr$_o$q
cprbc	cphrl	cphrlqm$_o$	cphrl$_o$
cq	prcq	prcq	prcq
c PHRy	c	bc	bc
bcpr$_o$b$_l$c	cpRqc	cb$_l$cir$_o$cb	b
bcc	cpr	cprbc	bc
cbcc	prcphr	phrcprc	cbc
bcc	cpr$_o$bc	bcc W	cpr$_o$

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.

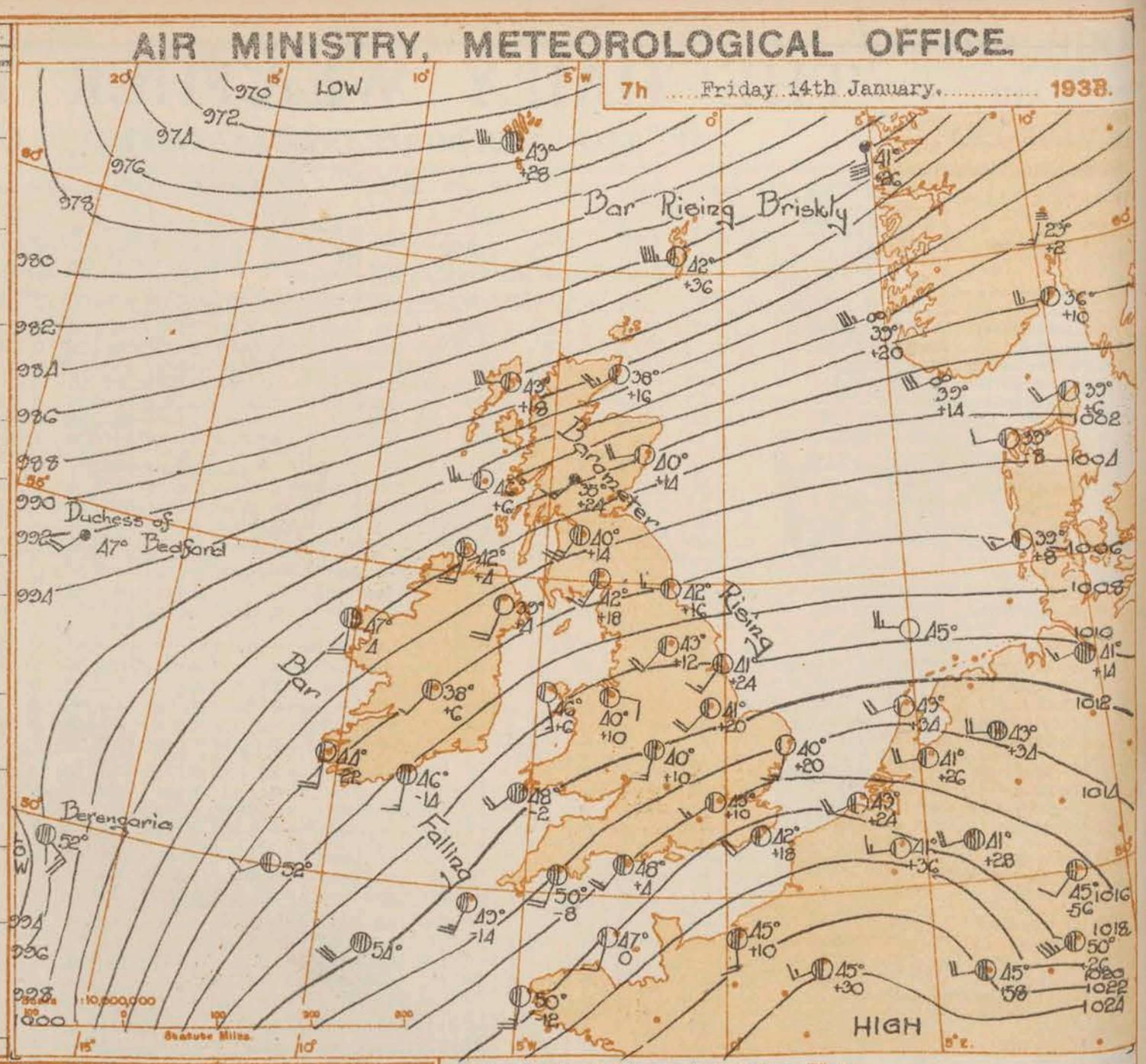
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

† See disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 13th January 1938.

Districts	Stations	Weather. Fore-noon.	Weather. After-noon.	Temperature (°F.) Min. 9h. 12th to 9h. 13th	Temperature (°F.) Max. 9h.—17h. 13th	Rainfall (mm.) Night. 17h. 12th to 9h. 13th	Rainfall (mm.) Day. 9h.—17h. 13th	Sunshine (Gen Sunrise to Sunset. 13th
1	Tunbridge W.	oor	orr	44	51	10	4	0·0
	Bournemouth	o	r	47	51	12	7	0·0
	Ventnor ...	romo	or	48	50	13	9	0·0
	Southsea ...	oor	orr	44	51	11	8	0·0
	Bognor Regis	oir	rrr	46	50	10	7	0·0
	Littlehampton	o	orr	46	51	9	7	0·0
	Worthing ...	or	orr	45	50	10	5	0·0
	Brighton ...	cr	rr	45	50	8	6	0·0
	Eastbourne† ...	or°	rrr	49	52	9	6	0·0
	Hastings† ...	o	odrr	47	50	9	5	0·0
	Folkestone ..	om°	oorr	44	50	4	5	0·0
	Dover ...	doid	or	44	50	5	5	0·0
	Deal	oor	rrR	45	54	3	2	0·0
	Ramsgate ...	co	r	45	53	2	4	0·0
	Margate ...	c	cr	44	55	1	3	0·0
2	Southend ...	co	or	42	49	3	4	0·3
	Clacton-on-Sea	oco	orr	40	48	3	2	0·0
	Dovercourt ...	doc	roc	39	52	3	3	0·0
	Lowestoft ...	c	ccr°	39	52	2	Trace	0·0
	Skegness ...	oc	oc	39	49	3	-	0·0
	Mablethorpe...	bcc	co	38	49	3	-	0·3
	Cleethorpes ...	cbc	c	38	50	1	-	0·2
3	Leamington S.	o	o	40	49	3	-	0·0
4	Cheltenham†	oco	op°o	42	49	4	Trace	0·0
5	Bath	c	cr	* 44	51	8	0·5	0·0
	Weymouth ...	rc	rrc	48	51	11	9	0·0
	Jersey ...	r	r	49	50	7	17	0·0
	Torquay ...	corr	oro	50	53	14	8	0·0
	Falmouth	orror	o	50	50	11	6	0·0
	Penzance ...	ccrr	rc	50	51	6	5	0·0
	St. Ives ...	r	d	41	48	12	0·5	0·0
	Bude... ...	o	o	47	54	7	-	0·0
	Ilfracombe ...	orro	opo	49	51	11	0·4	0·0
6	Aberystwyth	o	oc	42	47	-	-	0·0
7	Llandudno ...	c	c	40	49	1	-	0·0
	Colwyn Bay...	co	cbc	40	49	4	-	0·0
	Rhyl	c	c	39	49	2	-	0·0
8	Wallasey ...	c	cbc	39	48	0·5	-	0·0
	Southport ...	cq	cqbc	38	47	3	-	0·0
	Blackpool ...	bcom°	cbcm°	39	46	6	-	0·0
	Morecambe ...	c	c	39	46	12	-	0·0
9	Ilkley... ...	rsoc	c	38	47	7	-	0·0
	Harrogate ..	bcc	bcb	38	46	5	-	0·0
10	Berwick-on-T.	b	bc	37	45	1	-	3·2
11	Dunbar ...	bcpr	bc	36	46	2	-	2·5
12	Troon... ...	bcbqb	cbqb	40	47	4	-	*
	Douglas ...	bcr	bq	42	43	6	-	0·0

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
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 January, 1938.
1 S.E. England † 2 E. England ... † 3 E. Midlands ...	Moderate westerly winds, backing and freshening, reaching gale at times on coasts; mainly fair at first, rain at times later; rather mild.
4 W. Midlands ... 5 S.W. England † 6 South Wales ... †	Moderate to fresh southerly wind, increasing to gale at times, veering; mainly fair at first, rain later; rather mild.
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.	Moderate westerly winds, backing and increasing to gale; mainly fair at first, rain at times later; average temperature.
13 A. W. Scotld. † B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland † 16 Orkney and Shetland †	Fresh to strong southwesterly winds, moderating temporarily, backing and increasing to gale later; mainly fair at first, rain at times later; average temperature.
17 N. W. Ireland † 18 N. E. Ireland †	Moderate to fresh southerly winds, increasing to gale at times, veering and moderating later; occasional rain; average temperature.
19 S. E. Ireland † 20 S. W. Ireland †	Moderate southerly winds, increasing to gale, veering and moderating later; rain at times; rather mild.

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

GENERAL INFERENCE.

A deepening depression is approaching Ireland from the Southwest. Weather, after a brief generally fair interval, will become stormy and rather unsettled with rain at times in most places.

FURTHER OUTLOOK.

Unsettled, continuing rather mild in South.

Times of Issue of Gale Warnings.

† South Cone hoisted 1940 12/1/38 in district 13.
† " " " 0200 13/1/38 in dists. 15 and 16.
† " " " 0800 14/1/38 in dists. 1, 2, 5, 6, 7, 8, 10, 11, 12, 17, 18, 19 and 20.

Forecasts issued at 1030 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

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

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

FRIDAY 14TH JANUARY.

1938.

Clarke's Projection Scale 1: 4X10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—○

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. ▲Sleet. △Hail. ≡Fog. ∞Mist. ϟ(W)Thunder. ⚡Thunderstorm. ○Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 14th January, 1938.
No. 27812.

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)	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	1013·0	+24	WSW	4	bc	43	85	7	-	4	-	0	2-3	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1013·7	+18	WSW	3	z₀	41	92	6	5	7	-	1	7-8	1500
	Manston ...	142	1012·2	+18	WSW	3	c	43	92	7	-	7	-	0	7-8	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1009·7	+10	SW's	2	bc	42	92	6	-	7	-	0	4-6	-
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1013·6	+18	W	4	c	46	92	8	4	4	-	4-6	7-8	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1014·5	+8	SW	5	bc	48	92	8	5	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	1013·5	+16	SW'W	5	bc	49	92	8	4	-	-	2-3	2-3	2500
	Guernsey ..	175	1017·3	+30	WSW	3	c	46	85	7	8	-	-	7-8	7-8	2500
6	Pembroke ...	142	1010·3	+12	WSW	6	q	49	92	7	8	7	-	4-6	7-8	2500
7	Holyhead ...	26	1006·9	+22	SW	4	c	47	85	8	5	7	8	2-3	9	4000
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1005·7	+2	SW'W	4	b	41	92	5	-	-	-	0	0	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1002·2	+18	SW	3	bc	42	75	6	2	-	-	2-3	2-3	1500
11	St Abb's Head ..	28	998·5	+20	WSW	5	b	41	75	8	-	-	1	0	1	-
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1003·7	+18	W	5	c	43	85	7	1	-	-	Tr	Tr	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	989·4	+30	WSW	-	bc	41	65	8	3	-	-	2-3	2-3	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	989·5	+24	SSW	8	q	38	92	8	8	7	-	2-3	4-6	1500
16	Lerwick ...	156	978·8	+26	WSW	9	phr	43	75	6	6	2	-	9	10	800
17	Blacksod Point	18	1002·2	+12	W	6	q	47	75	8	9	-	-	4-6	4-6	800
18	Malin Head ...	84	998·7	+20	SW	5	c/phr	41	97	6	9	6	-	4-6	7-8	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1007·0	+10	W'N	4	PR	46	97	7	6	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 14th 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)	1015·3	+10	SSW	3	z₀	44	92	6	5	-	-	9+	9+	1500	1	*
	Croydon ...	1016·8	+10	SW'S	3	bc	45	92	7	5	3	2	2-3	4-6	4000	1	*
	S. Farnborough	1016·4	+6	SW	3	z₀	45	92	6	5	4	2	1	7-8	2500	1	*
	Boscombe Down	1015·9	+2	SSW	3	b₀	43	97	8	5	4	-	1	1	2500	1	*
	Calshot (Sthmtn.)	1016·9	+6	SW'S	4	bc	46	92	8	8	-	-	4-6	4-6	1500	1	3
	Lympne ...	1018·5	+18	SW'W	4	bc	42	92	8	5	4	5	1	4-6	4000	1	§3
	Manston ...	1017·3	+16	SW	4	bc	43	92	7	5	7	-	1	2-3	1500	1	*
2	Shoeburyness ...	1016·6	+14	SSW	4	bc	43	92	7	5	-	-	4-6	4-6	4000	1	*
	Felixstowe ...	1015·8	+24	SSW	3	bc	41	92	7	-	3	-	0	4-6	-	1	2
	Gorleston ...	1014·3	+20	SSW	3	b	40	92	6	4	-	-	1	1	2500	1	2
	Mildenhall ...	1014·0	+10	SW'W	4	bc	42	92	8	-	3	1	0	2-3	-	1	*
	Cranwell ...	1011·6	+20	SW	4	bc	41	92	7	-	5	-	0	2-3	-	1	*
3	Birmingham ...	1012·7	+10	SSW	3	m	40	97	4	5	-	-	9	9	2500	1	*
	Upper Heyford	1015·1	+10	SW	3	bc	41	97	7	5	-	-	4-6	4-6	2500	1	*
4	Ross-on-Wye	1013·0	+6	S'W	3	bc	45	85	6	5	-	-	4-6	4-6	1500	1	*
5	Bristol ...	1014·5	+4	SSW	3	bc	45	92	8	5	7	-	2-3	4-6	2500	1	*
	Portland Bill ...	1015·8	+4	SW	4	c	48	92	8	5	7	-	7-8	10	2500	1	4
	Plymouth ...	1014·8	-8	SSW	4	c	50	92	7	5	2	-	7-8	9	1500	1	3
	The Lizard ...	1013·6	-16	SSW	5	r/pr	49	92	8	5	-	-	10	10	1500	1	3
	Scilly (St. Mary's)	1012·7	-14	SSW	5	c	49	97	8	-	1	7	0	10	-	1	3
	Guernsey ..	1018·7	0	S'W	2	bc	47	92	9	-	2	-	0	4-6	-	1	3
6	Pembroke ...	1011·0	-2	SW	4	q	48	92	7	8	2	-	7-8	9+	2500	1	4
7	Holyhead ...	1009·1	+6	S'E	3	b	46	92	8	-	3	5	0	4-6	-	1	2
	Chester(Sealand)	1011·0	+10	E'S	2	bc	40	85	7	5	7	-	2-3	4-6	4000	1	*
8	Manchester ...	1011·0	+18	S'E	2	bc	39	92	7	5	4	-	2-3	4-6	4000	1	*
10	Spurn Head ...	1010·5	+24	SW	3	bc	41	92	6	-	4	-	0	2-3	-	1	2
	Catterick ...	1008·1	+12	SW'S	4	bc	43	85	7	8	-	-	2-3	2-3	1500	1	*
	Tynemouth ...	1005·6	+16	W	3	bc	42	85	6	5	-	-	2-3	2-3	800	1	1
11	St Abb's Head ..	1002·3	+14	W	5	bc	40	85	8	-	3	-	0	2-3	-	0	4
	Leuchars ...	1002·1	+10	SW	4	bc	40	85	7	5	-	-	2-3	2-3	2500	1	*
12	Renfrew (Abbots I.)	1003·5	+18	SW'S	3	bc	42	92	7	5	-	-	2-3	2-3	2500	1	*
	Eskdalemuir ...	1004·9	+14	SW'S	5	c	40	85	6	5	-	-	9+	9+	800	1	*
	Point of Ayre...	1006·8	+8	W	4	bc	42	85	8	-	4	-	0	2-3	-	1	3
13A	Tiree	997·8	+6	WSW	5	bc	46	65	8	8	-	-	2-3	2-3	2500	0	-
13B	Stornoway ...	999·3	+18	WSW	6	bc	43	75	8	5	-	-	4-6	4-6	2500	1	3
15	Dalwhinnie ...	1001·5	+24	SW	3	r	35	92	7	3	6	-	2-3	4-6	2500	1	*
	Aberdeen ...	999·1	+14	WSW	4	b	40	85	7	5	-	-	Tr	Tr	2500	1	2
	Wick ...	993·6	+16	SW	5	bc/pr	38	85	8	8	1	-	4-6	4-6	1500	1	3
16	Lerwick ...	986·8	+36	WSW	9	bc	42	92	7	8	-	-	4-6	4-6	800	1	*
17	Blacksod Point	1002·2	-4	S	4	q	47	85	8	9	-	-	7-8	7-8	800	1	4
18	Malin Head ...	1001·0	+4	S'W	4	bc	42	97	7	4	-	-	2-3	2-3	800	1	4
	Aldergrove ...	1005·2	+4	SSW	4	b	39	92	8	-	-	-	0	0	-	1	*
19	Birr Castle ...	1005·2	+6	SW	1	bc	38	97	8	5	-	-	2-3	2-3	2500	1	*
20	Valentia Obsy. †	1006·0	-22	S	4	bc	44	92	8	8	2	-	1	4-6	2500	1	2
	Roches Point	1008·2	-14	SSW	3	c	46	97	8	5	-	-	7-8	7-8	1800	1	4

PAST 24 HOURS.

District	Stations	Temperatures. Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 13th. Hrs. (36)
1	London (Kew)	53	41	36	6	0·2	0·0
	Croydon ...	53	42	39	6	1	0·0
	S. Farnborough	52	40	33	5	0·3	0·0
	Boscombe Down	52	37	35	3	-	0·0
	Calshot (Sthmtn.)	50	43	40	11	1	0·0
	Lympne ...	50	35	36	7	6	0·0
	Manston ...	53	41	37	6	4	0·0
2	Shoeburyness ...	53	39	31	6	2	0·0
	Felixstowe ...	52	40	37	3	1	0·0
	Gorleston ...	53	40	36	-	-	0·0
	Mildenhall ...	53	41	37	-	Tr	0·0
	Cranwell ...	49	40	37	-	-	0·0
3	Birmingham ...	49	39	35	-	-	0·0
	Upper Heyford	49	38	32	Tr	Tr	*
4	Ross-on-Wye	51	44	39	0·1	-	0·0
5	Bristol ...	51	42	39	0·1	1	0·0
	Portland Bill ...	51	44	*	15	1	*
	Plymouth ...	52	46	44	6	-	0·0
	The Lizard ...	51	45	*	7	0·1	*
	Scilly (St. Mary's)	61	47	*	4	Tr	0·0
	Guernsey ..	52	45	41	19	3	0·0
6	Pembroke ...	50	45	*	-	2	0·0
7	Holyhead ...	48	44	40	-	0·2	0·0
	Chester(Sealand)	49	40	36	-	1	0·0
8	Manchester ...	48	36	30	-	0·4	0·0
10	Spurn Head ...	48	40	*	-	Tr	0·2
	Catterick ...	46	41	37	0·1	1	0·0
	Tynemouth ...	48	41	31	-	0·6	0·0
11	St Abb's Head ..	45	39	*	-	1	*
	Leuchars ...	44	37	33	2	1	2·1
12	Renfrew (Abbots I.)	46	40	38	Tr	2	1·0
	Eskdalemuir ...	43	39	39	Tr	0·2	0·2
	Point of Ayre...	47	42	*	-	1	0·3
13A	Tiree	47	40	36	3	2·5	0·6
13B	Stornoway ...	45	38	*	5	2	0·0
15	Dalwhinnie ...	39	35	31	6·5	6	0·1
	Aberdeen ...	43	39	34	0·#	3	3·8
	Wick ...	42	37	*	1	0·6	*
16	Lerwick ...	47	39	*	0·5	3	1·0
17	Blacksod Point	50	40	*	2	0·6	*
18	Malin Head ...	47	39	*	1	1	1·3
	Aldergrove ...	45	38	34	2	Tr	1·8
19	Birr Castle ...	47	37	*	2	0·5	0·2
20	Valentia Obsy. †	50	44	39	1	3	0·9
	Roches Point	49	43	*	Tr	0·2	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
KEW	18	cm c z₀	c r r c	c r c m₀	53	41	36	6	0·2	0·0	*	*	6
CROYDON	217	cm z₀	r₀ r r	r₀ r i r c b	53	42	39	6	1	0·0	*	*	6
GREENWICH (Royal Observatory)...	149	c	o r R	r c b c	53	41	35	7	0·5	0·0	88	87	6
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	54	43	37	6		0·0	85	89	*
REGENTS PK (Botanic Gardens)[1]...	158	*	*	*	54	42	39	5	0·2	0·0	-	-	*
CAMDEN SQUARE	110	c	c c r	*	53	42	37	6	Tr	*	*	87	*
KENSINGTON	80	c o r	c o c o r	*	54	42	34	6	0·6	0·0	At 18h. 81	89	*
HAMPSTEAD OBSERVATORY	450	o r	o	b c	51	40	33	4	-	0·0	81	94	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·4	19-21h 13th	<0·3	2-4 hrs 14th

Kew Observatory. Max.	Time.	Min.	Time.
0·2	21h 13th	<0·1	2-4 hrs 14th

FOREIGN OBSERVATIONS.

Stations.	18h G.M.T. 13th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 14th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS	1015·4	WSW	3	c	54	*	WSW	3	c	*
BRUSSELS	1010·7	SW	4	r s r₀	52	1019·7	WSW	2	b	41
BERLIN	1012·0	SW	4	r s r₀	41					
ZÜRICH	1025·2	S	2	c	43	1027·0	SW	3	c/r	48
ROME	1027·3	SE	1	bc	52	1027·0	ENE	2	c	41

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
55	43	-	2
54	41	5	26
43		5	
54	34	-	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 ,,	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. GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

† hr. observations are from Valentia W/T Station. : Maximum and Minimum Temperatures are for the 24 hours ending 8 h ‡ Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 15th January, 1938.

No 27813.

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)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1013·2	-20	S	4	Z.	48	85	6	5	2	-	7-8	10	1500.
	Croydon ...	1015·2	-16	SW-S	4	C	48	85	6	6	2	-	7-8	10	800
	S. Farnborough	1014.6	-24	SSW	3	c	47	92	6	5	2	-	9+	10	800.
	Boscombe Down	1012·8	-34	S'W	5	c	47	92	7	5	2	-	9	10	800.
	Calshot (Sthmtn.)	1015·3	-22	S'W	4	c	47	92	7	5	7	-	2-3	9+	1500.
	Lympne ...	1017.4	-18	S'W	4	c	45	92	7	5	-	-	10	10	800.
	Manston ...	1016·4	-20	SSW	5	c	47	85	7	5	-	-	9+	9+	4000.
2	Shoeburyness ...	1016.0	-18	S'W	5	c	47	85	8X	4	1	-	9+	10	1500.
	Felixstowe ...	1015·7	-14	S'E	3	Z.	44	92	6	5	7	-	7-8	10	1500.
	Gorleston ...	1014.7	-10	SE	4	c	46	85	6	-	2	-	0	10	-
	Mildenhall ...	1013·3	-18	S'W	4	Z.	48	92	6	5	2	-	9+	10	1500.
	Cranwell ...	1011·3	-14	S'E	3	c	46	85	7	5	7	-	Tr	10	4000.
3	Birmingham ...	1010.5	-24	S	3	o	46	92	6	6	-	-	10	10	800.
	Upper Heyford	1012.7	-26	S'W	4	r.	47	92	6	5	2	-	9+	10	800.
4	Ross-on-Wye	1009·4	-30	SW	3	c	50	85	8	6	2	-	9+	10	1500.
5	Bristol ...	1010.9	-42	S	5	c	48	85	8	5	2	-	7-8	10	2500.
	Portland Bill ...	1010.7	-32	S	5	o	47	92	7	5	-	-	10	10	1500.
	Plymouth ...	1008·4	-62	SE	6	RR.	48	97	5	6	-	-	10	10	450.
	The Lizard ...	1006.1	-60	SSW	7	rr	51	97	5	5	-	-	10	10	1500.
	Scilly (St.Mary's)	1002.6	-30	S-W	6	rr.	52	97	6	6	2	-	4-6	10	1500.
	Guernsey ...	1014.7	-32	SE-S	4	rr	46	97	5	5	-	-	10	10	800.
6	Pembroke ...	1003·5	-44	S'E	6	D	48	97	5	5	2	-	7-8	10	2500.
7	Holyhead ...	1004.2	-46	SE-E	5	c	47	85	7	5	7	-	4-6	10	800.
	Chester(Sealand)	1007·5	-40	SE	3	c	46	85	7	5	2	-	4-6	10	4000.
8	Manchester ...	1008.6	-26	SSE	2	Z.	46	85	6	-	2	-	0	9+	-
10	Spurn Head ...	1010·9	-4	S	3	c	44	92	6	5	5	-	4-6	9+	4000.
	Catterick ...	1007·6	-22	SSW	3	c	45	85	5	5	7	9	4-6	9+	1500.
	Tynemouth ...	1006.7	-6	SW	3	c	46	75	8	8	5	1	2-3	7-8	1500.
11	St Abbs Head ...	1002·5	-10	SW	5	c	44	85	8	8	1	9	4-6	7-8	2500.
12	Leuchars ...	1002·5	-18	SW	4	c	44	75	8	5	-	6	Tr	9+	1500.
	Renfrew (Abbots I.)	1002.9	-22	SW	3	Z.	45	85	6	8	-	6	1	9	1500.
	Eskdalemuir ...	1004·2	-22	SSW	4	c	48-9	85	8	5	-	-	7-8	7-8	1500.
	Point of Ayre...	1004.0	-30	S'W	3	c	47	92	8	8	1	-	4-6	7-8	1500.
13A	Tiree	997·6	-18	SSW	5	c	45	85	7	5	1	6	4-6	9+	1500.
13B	Stornoway ...	994.2	-10	SSW	5	c/pr	45	85	8	8	7	-	7-8	9+	2500.
15	Dalwhinnie ...	1002.0	-6	SW	3	c	39	85	7	8	1	8	4-6	10	2500.
	Aberdeen ...	1000·9	-4	SW	4	c	43	75	7	6	-	9	Tr	9	1500.
	Wick ...	997.0	+2	SW	5	c	41	85	8	5	7	1	4-6	7-8	1500.
16	Lerwick ...	992.0	+18	SW	8	c/pir	43	97	8	8	7	-	7-8	9	1500.
17	Blacksod Point	993·8	-76	ESE	5	c	45	85	8	9	-	-	10	10	800.
18	Malin Head ...	995·2	-36	S	5	c	43	97	7	4	2	-	4-6	9	800.
	Aldergrove ...	1000.5	-46	S'E	4	C	44	85	8	5	7	-	Tr	10	2500.
19	Birr Castle ...	997.2	-72	SSE	2	r.	46	92	7	5	-	-	10	10	2500.
20	Valentia Obsy. †	988.0	-118	SE-E	6	rr	50	85	7	6	2	-	7-8	10	1500.
	Roches Point	994·4	-94	SE	7	rr	48	97	8	6	-	-	10	10	800.

OBSERVATIONS at 18h. G.M.T. 14th 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)	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)
1006.3	-52	S'E	4	r.	48	92	6	6	2	-	9+	10	800	1	*
1007.4	-50	S'W	5	r.	47	97	6	6	-	-	10	10	800	1	*
1006.2	-42	S'W	5	r.	48	92	6	6	2	-	7-8	10	800	1	*
1004.4	-34	S'W	6	c/r	48	97	7	6	2	-	7-8	10	800	1	*
1007.9	-34	S'E	6	r	49	92	6	5	2	-	7-8	10	800	1	4
1011.0	-42	S'E	4	r.	45	97	5	6	-	-	10	10	220.	1	§ 4
1010.6	-40	S	5	r.	45	92	6	6	-	-	10	10	800	1	*
1009.3	-52	S'E	5	r.	45	92	6	6	2	-	9+	10	800	1	*
1010.2	-28	SSE	4	r.	43	97	6	5	2	-	7-8	10	1500	1	2
1009.2	-30	SSE	6	rr	44	85	7	6	-	-	10	10	1500	1	4
1005.5	-62	SSE	5	r.	45	97	7	6	2	-	4-6	10	1500	1	*
1003.1	-60	SE-S	6	rr	44	97	5	6	2	-	9+	10	800	1	*
1000.8	-54	S	4	r.	45	92	6	6	-	-	10	10	450	1	*
1003.6	-58	SSE	5	r	46	97	4-5	6	2	-	9+	10	220	1	*
998.6	-54	S	6	r.	51	92	8	6	-	-	10	10	1500	1	*
1001.9	-50	S	5	r.	51	97	7	6	-	-	10	10	800	1	*
1003.0	-46	SSW	6	o	49	92	7	5	-	-	10	10	1500	2	5
1000.6	-38	S	8	Z.	51	97	6	5	7	-	9	9+	1500	1	5
996.7	-48	SW-S	8	PR.	52	85	6	5	-	-	10	10	800	1	5
993.8	-42	S	8	rr	51	97	6	6	-	-	10	10	1500	1	5
1006.7	-42	SSE	5	o	51	92	7	5	-	-	10	10	2500	2	4
992.1	-40	SSW	8	rr	51	97	6	5	-	-	10	10	1500	1	5
990.5	-66	SSE	5	rr	48	92	7	6	2	-	4-6	10	450	1	3
996.1	-70	SSE	5	rr	46	92	5	6	2	-	9	10	800.	1	*
997.4	-66	SSE	5	r.	47	85	6	6	2	-	7-8	10	1500.	1	*
1002.4	-34	SE-S	6	rr	44	92	6	5	-	-	10	10	1500	1	3
998.2	-70	SE	4	rr	44	97	5	-	2	-	10	10	800	1	*
1000.3	-48	S	4	c	44	92	6	6	2	-	4-6	10	800	1	2
996.5	-36	SSE	5	c	43	85	7	5	2	-	7-8	10	1500	0	3
995.9	-44	ESE	3	c	44	85	6	5	2	-	7-8	10	2500	1	*
993.3	-66	SE	4	rr	44	92	5	-	2	-	10	10	800	1	*
995.0	-56	SSE	4	rr	41	92	6	-	2	-	10	10	450	1	*
990.4	-74	S'W	7	rr	45	97	6	6	2	-	4-6	10	800	1	4
984.8	-72	SSE	5	rr	45	92	6	-	2	-	9	10	1500	1	4
990.9	-22	S	5	c	44	85	7	8	1	-	4-6	10	1500	1	3
993.6	-48	S	6	c	38	85	7	8	1	-	4-6	10	2500	0	*
997.1	-30	SSE	3	Z.	44	85	6	5	7	-	1	10	1500	1	1
993.9	-16	SSW	5	c	41	85	8	5	1	-	7-8	9	1500	1	3
992.7	+2	SW	7	c	44	85	8	8	3	-	4-6	7-8	1500	1	*
975.0	-80	SE	7	u.	50	92	7	9	-	-	10	10	450	1	6
981.3	-50	SE	5	rr	45	97	6	6	2	-	4-6	10	800	1	4
984.6	-106	SEE	6	rr	45	97	6	6	2	-	9	10	800	1	*
981.5	-80	S	5	ir	53	85	7	6	2	-	7-8	10	1500	1	*
977.0	-38	SSW	7	c	51	65	8	5	-	-	9+	9+	1500	1	5
983.8	-44	S'W	7	c/r	52	85	7	6	2	-	7-8	10	1500	1	5

PAST 24 HOURS.

Weather. 7h.—13h. 14th (37)	Weather. 13h.—18h. 14th (38)	Weather. 18h. 14th—1h. 15th (39)	Weather. 1h.—7h. 15th (40)
cm.	crr.	cr.	cr.
bc,cm@r.	cm.rrr.	cr.rcqrr	grrcir.
cm.ir.o	crrr.r.	or.crr	bm.pr.c
b,cddc.	crrm.	crrcir.	cir,hrrcirq
c	crrr.m.	rrm.	cr.c
bcdc	corrm.	fr.om.	orrm.r.
bcdc	cor.r.m.	ord.mqc	cirq.m.
bcm.c	cm.rrc.	r.ri.d.m.	cid.m.bc
bcm.cm.	cm.cir.	ir.r.r.cbc	bccprbc
bcc.	cqrr.	orrir.q	or.cq
b,ccm.	cm.crr.	cirr.c	cir.bbc
bccl	cm.r.rrr.	rr.r.ir.	irr.q PRbc
bco	orr.	oir.	or
bcpr.cr.	cr.RR.	cir.rm.	cr.r.m
c	rqr.q.	pq.rq	cqrq
bccd.	cr.r.r.	cr.r.r	cRRrq
co	oR.	c	oR
corRRm.	oRRirrm	oir.PRqbc	abccirm
crrom.	orrpr	prbcq	bcpra
orrm.	rrpcrr	orrcp	cp.
bcorr.	orro	oircq	cq PR
cq.d.m.c	cqprr	cqpr	
bcpr.c.	r.r.rrc.	rir.c	rRRc
bccm.	cr.r.m.	crrm.	orrm.
bccm.	cm.r.rr.	cir.m.cr	corrm.
bcc	corr.	rrcq	PRq
bbccm.	cmr.orr.	rrr.r.ir.	rorr.cm.
cbcmc.	co.	oir.	oir.bcp.
c	c.	cm.pr	c
bcc @ bcc	ccm.	RRrq.m.	cm.c
bbccm.	cm.r.r.	RRr.cm.	cm.ir.
cid.	corr.	orRRr	crr.r.
bcc.	crr.	rrbcq	cirq
bcpr.c.	crr.	oRR	orr
bccpr.	crr.	cRR	crr.o1.c
cir	c.	*	cRr
bxc	ccz.	cz.oR	cbc
bcc.	c.	rr Rr	oRrc
cpnr	cpr.	c	crrm.
c	iRq.	PRqc	prcq
c	crr.	circbc	c
bbcc	srrm.c.	crrm.b	b,cpbcm
bccir.	cir.	cir	cirpr
bcn.r.rr	rrr.r.c.	cr.r.	r.r.ir
corr	orrc	crr	cir

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain.
rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ☽ lunar halo. ⁄ gale.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—be/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 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

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 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen.
9 .. „ covered with snow greater than 6 ins. deep.

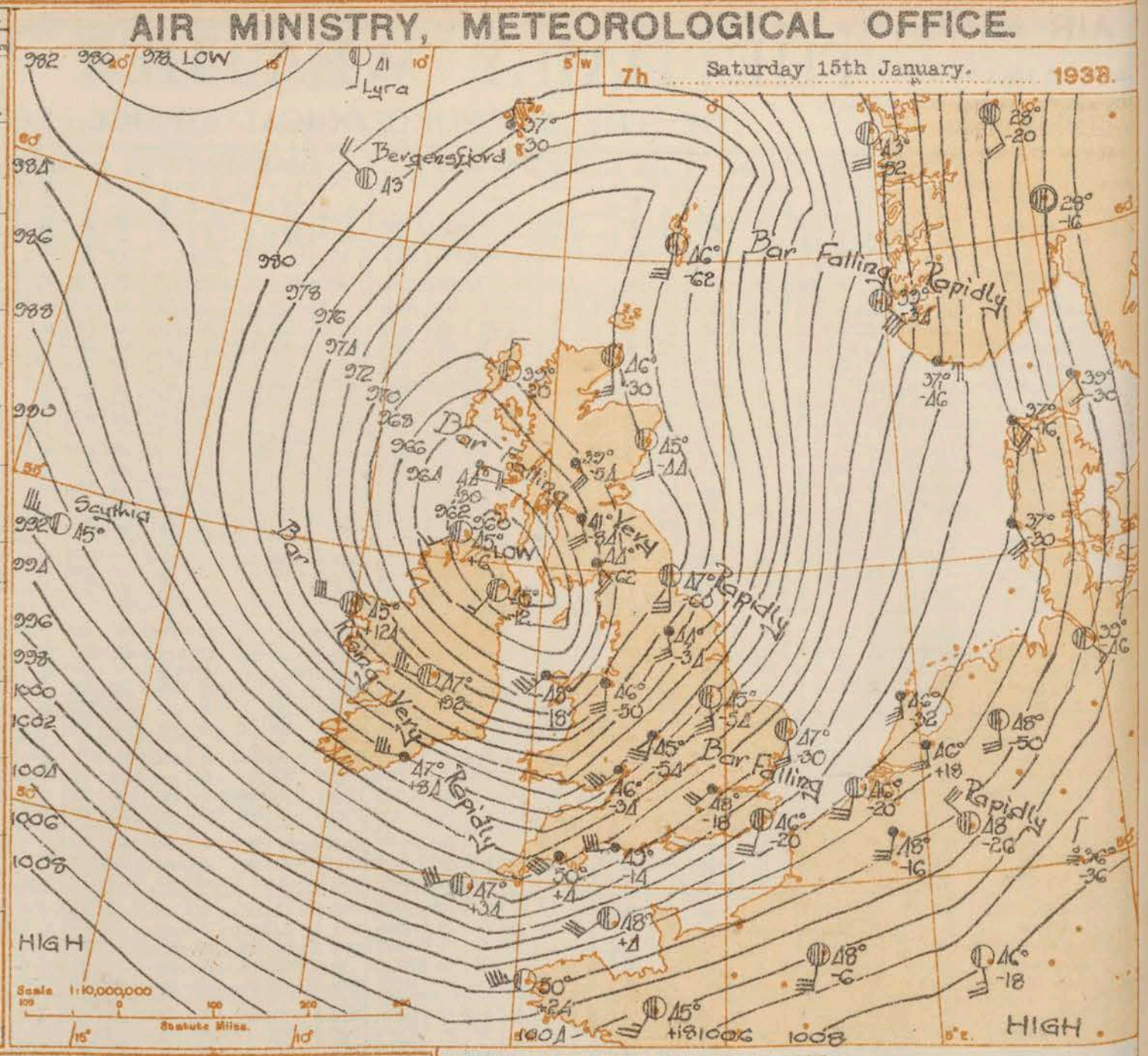
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

† See disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 14th January 1938.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 13th to 9h. 14th	Temperature. (°F.) Max. 9h.—17h. 14th	Rainfall. (mm.) Night. 17h. 13th to 9h. 14th	Rainfall. (mm.) Day. 9h.—17h. 14th	Sunshine (hrs.) Sunrise to Sunset. 14th.
1	Tunbridge W.	o	oor	40	47	5	2	0.0.
	Bournemouth	o	orro	43	48	2	7	0.0.
	Ventnor ...	rmou	rou	42	48	3	6	0.0.
	Southsea ...	o	orr	43	49	3	6	0.0.
	Bognor Regis	oc	orr	43	47	5	5	0.0
	Littlehampton	co	orr	43	47	4	5	0.0.
	Worthing ...	co	or	43	47	6	4	0.0
	Brighton ...	c	cr	43	48	6	5	0.0.
	Eastbourne† ...	co	orr.	43	48	6	4	0.0.
	Hastings† ...	oc	corr	42	47	7	3	0.0.
	Folkestone ...	co	oor	41	47	8	Trace	0.0
	Dover ...	o	or	44	49	6	Trace	0.0.
	Deal	o	or.	42	48	10	Trace	0.0.
	Ramsgate ...	c	oc	43	50	8	-	0.0.
	Margate ...	c	c	42	48	4	-	0.0.
2	Southend ...	co	cor	40	46	3	0.5	0.0.
	Clacton-on-Sea	bcc	co	40	44	5	-	0.0.
	Dovercourt ...	bcc	doc	40	47	3	Trace	0.0.
	Lowestoft ...	c	c	40	47	-	-	0.0
	Skegness ...	coco	or.	39	45	-	Trace	0.0.
	Mablethorpe...	bcco	co	36	47	Trace	-	0.0.
	Cleethorpes ...	cbc	c	40	47	Trace	-	0.1
3	Leamington S.	o	or	40	49	-	2	0.0.
4	Cheltenham†	oco	poorr	42	43	0.5	5	0.0.
5	Bath	cd.	crrq	43	52	Trace	4	0.0.
	Weymouth ...	c	rrc	44	50	0.5	8	0.0.
	Jersey ...	crr	rc	45	50	7	4	0.0.
	Torquay ...	o	orrqp	44	53	0.6	15	0.0.
	Falmouth	qrqo	oqrrq	44	53	-	16	0.0
	Penzance ...	corrq	rirq	45	53	Trace	10	0.0.
	St. Ives ...	p	r	40	46	3	25	0.0
	Bude... ...	opq	qpor	45	54	6	5	0.0.
	Ilfracombe ...	oro	prroc	40	54	1	9	0.0
6	Aberystwyth	prc	cpr	43	51	3	1	0.0.
7	Llandudno ...	c	crr	44	51	1	1	0.1.
	Colwyn Bay...	cocco	oopor	43	49	2	2	0.0.
	Rhyl	c	cor	43	50	1	1	0.0
8	Wallasey ...	c	cor	42	47	1	1	0.0.
	Southport ...	cz	corq	41	46	1	2	0.0.
	Blackpool ...	cm.	cmor	42	46	1	1	0.7
	Morecambe ...	bcebc	ccmor	38	47	0.5	1	0.4
9	Ilkley... ...	bcc	cor	40	47	0.6	1	1.0
	Harrogate ...	bcc	bccor	39	45	0.1	0.8	0.0.
10	Berwick-on-T.	bcc	c	40	46	0.4	-	0.4
11	Dunbar ...	bc	bcmo	40	47	1	-	1.1
12	Troon... ...	bccoc	cococ	41	45	1	-	0.0
	Douglas ...	bcpr	bcrq	42	47	1	4	0.2

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



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 15th January 1938.
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.	Southwesterly to westerly winds, veering, gale at times, moderating slowly; squally; showers of rain or hail, heavy in places; perhaps local thunder; average temperature.
13 {A. W. Scotland. B.N.W. Scotland.} 14 Mid Scotland	Northerly to northwesterly winds, strong to gale at times locally at first, moderating; squally showers of rain or hail with perhaps local thunder; average temperature.
15 N.E. Scotland 16 Orkney and Shetland	Southerly winds becoming later northerly, strong at times; squally; occasional rain or hail; average temperature.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	West to northwest winds, gale at times at first, moderating slowly; squally; showers of rain or hail with perhaps thunder locally; average temperature.

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

Barometer. Isobars are drawn for intervals of two millibars.
Wind, Weather Symbols. For explanation see opposite page.
Sea Disturbance. Rough. High.
Barometric Change from 6h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A deep depression is moving eastwards across the British Isles. Rather stormy unsettled weather will be general with rather widespread gales at first in the southern half of the British Isles. There will be bright periods and also squally showers of rain or hail in most areas.

FURTHER OUTLOOK.

Showery; cooler than of late.

Times of Issue of Gale Warnings.

South Cone hoisted 1940 12/1/38 in district 13.
" " " 0200 13/1/38 in dists. 15 and 16.
" " " 0800 14/1/38 in dists. 1,2,5,6, 7,8, 10, 11,12, 17, 18, 19 and 20.

Forecasts issued at 10.15 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S.
Director.

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

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

SATURDAY 15TH JANUARY

1938.

Clarke's Projection Scale 1: 4 x 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 600

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—○

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. ⌇ Thunder. ↯ Thunderstorm. ⊂ Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 15th January, 1938
No 27813.

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	995·4	-50	SW	6	rr	50	92	6	6	-	-	10	10	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	998·3	-58	S	6	c	48	92	7	5	2	-	9+	10	800
	Manston ...	142	997·6	-58	S'W	6	q	51	85	7	5	3	-	7-8	9+	800
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	995·7	-60	SS'S	7	ir.	45	92	6	6	-	-	10	10	1500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	991·9	-40	SW	6	c	50	92	7	4	7	-	10	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	990·4	-20	SW	8	pr.	49	75	7	9	-	-	9	9	800
	Scilly (St.Mary's)	163	986·8	-26	SW	8	pr.	48	75	7	9	6	-	4-6	9+	1500
	Guernsey ..	175	996·3	-40	S	5	c	48	85	7	8	1	-	7-8	10	2500
6	Pembroke ...	142	980·5	-48	SW	10	pr	49	75	7	8	-	-	9+	9+	2500
7	Holyhead ...	26	977·9	-60	S'E	6	c/pr	48	83	8	9	-	-	9+	9+	1500
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	987·2	-64	S'E	7	q	47	97	7	5	-	-	10	10	1500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	982·0	-50	S	5	ir.	50	85	6	6	-	-	10	10	800
11	St.Abbs Head...	280	980·6	-40	SSE	4	c/pr	45	97	6	9	2	-	7-8	10	800
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots L.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	978·6	-32	SSW	6	bc	47	85	7	4	4	-	4-6	4-6	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	973·5	-80	ESE	6	rr	43	92	6	8	2	-	7-8	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	978·7	-90	SE	8	RR	44	97	6	5	-	-	10	10	800
16	Lerwick ...	156	986·3	-94	SSE	5	c	45	85	7	5	2	-	7-8	9	1500
17	Blacksod Point	18	958·1	-100	S	7	q	45	85	7	9	-	-	10	10	450
18	Malin Head ...	84	967·6	-60	S'E	6	bc	47	92	7	4	4	1	2-3	4-6	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30														
	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)	988·4	-28	SW	6	c	48	75	7	5	-	-	9	9	1500	1	*
	Croydon ...	990·3	-18	SW'S	6	ir.	48	75	7	6	-	-	9	9	2500	1	*
	S. Farnborough	989·2	-16	SW'S	6	c/pr	47	75	7	8	-	-	9+	9+	2500	1	*
	Boscombe Down	988·2	-16	SSW	7	ir.	45	85	6	6	2	-	10	10	800	1	*
	Calshot (Sthmtn.)	991·5	-10	SW	7	c	49	75	7	8	7	-	4-6	9+	1500	1	4
	Lympne ...	993·1	-20	SSW	6	c/r	46	85	7	5	3	-	7-8	7-8	1500	1	5
	Manston ...	991·7	-22	S'W	6	q	48	85	6	5	-	-	9	9	1500	1	*
2	Shoeburyness...	991·0	-16	S'W	7	bc	48	75	7	8	-	-	4-6	4-6	1500	1	*
	Felixstowe ...	990·3	-36	S	6	bc	46	85	7	5	3	-	4-6	4-6	2500	1	8
	Gorleston ...	988·5	-30	S'E	6	c	47	85	7	9	-	-	7-8	7-8	2500	1	4
	Mildenhall ...	985·9	-36	S W	6	bc	47	75	8	5	-	4	2-3	2-3	2500	1	*
	Cranwell ...	980·9	-54	S'E	7	c	45	85	7	5	-	-	9	9	2500	1	*
3	Birmingham ...	978·4	-54	SSW	6	rr	46	85	6	6	-	-	10	10	800	1	*
	Upper Heyford	984·3	-38	SSW	5	z.	46	75	6	5	-	-	10	10	800	1	*
4	Ross-on-Wye	979·9	-34	SW'S	7	rr	46	85	6	6	-	-	10	10	1500	1	*
5	Bristol ...	985·3	-32	SSW	7	ir.	47	75	8	6	-	-	10	10	800	1	*
	Portland Bill ...	988·5	-14	WSW	8	rr	49	92	7	5	-	-	10	10	1500	2	6
	Plymouth ...	988·8	+4	SW	8	ir.	50	75	6	5	-	-	10	10	1500	1	5
	The Lizard ...	990·8	+20	WSW	9	q	49	75	6	9	-	-	7-8	7-8	1500	1	5
	Scilly (St.Mary's)	989·5	+34	W'S	8	c/pr	47	85	7	9	6	-	7-8	9+	1500	1	5
	Guernsey ..	996·2	+4	SW	6	c/pr	48	75	7	8	-	-	7-8	7-8	2500	1	4
6	Pembroke ...	9753	+4	W	10	rr	48	85	5	5	-	-	10	10	2500	1	7
7	Holyhead ...	996·2	-18	SW	7	ir.	48	92	7	6	2	-	7-8	10	800	1	4
	Chester(Sealand)	970·8	-50	S	6	rr	46	85	6	-	2	-	10	10	800	1	*
8	Manchester ...	971·9	-68	S	7	rr	45	85	6	6	2	-	7-8	10	1500	1	*
10	Spurn Head ...	978·1	-60	S	7	q	45	85	7	5	4	-	2-3	9+	4000	1	5
	Catterick ...	971·2	-34	SSE	5	rr	44	97	6	6	-	-	9+	9+	1500	1	*
	Tynemouth ...	969·2	-60	S	6	bc/pr	47	75	7	2	6	-	4-6	4-6	1500	1	3
11	St.Abbs Head...	967·8	-80	SSE	6	c	43	92	8	9	2	-	7-8	10	800	0	4
	Leuchars ...	968·0	-60	E	4	c	44	85	7	5	-	-	10	10	2500	1	*
12	Renfrew (Abbots L.)	965·1	-62	SE	4	ir.	44	85	6	5	2	-	7-8	10	1500	1	*
	Eskdalemuir ...	964·9	-84	SSE	6	rr.	41	85	5	6	-	-	10	10	450	1	*
	Point of Ayre...	960·7	-76	SW	6	ir.	46	97	7	6	2	-	4-6	10	800	1	4
13A	Tiree	963·1	-30	ESE	4	rr	44	92	7	6	2	-	4-6	10	1500	1	*
13B	Stornoway ...	968·5	-20	N	3	bc	39	92	8	5	7	-	4-6	4-6	2500	1	2
15	Dalwhinnie ...	967·2	-54	SE	6	RR	39	85	5	6	-	-	10	10	1500	1	*
	Aberdeen ...	970·9	-44	S'E	4	bc	45	92	7	5	-	-	4-6	4-6	4000	1	2
	Wick ...	969·5	-30	S	5	c	46	92	7	5	1	-	7-8	9	1500	1	3
16	Lerwick ...	972·0	-62	SSW	6	c/r	46	97	6	6	2	-	4-6	10	800	1	*
17	Blacksod Point	972·5	+124	W	8	q	45	92	7	9	-	-	10	10	450	1	6
18	Malin Head ...	961·9	+6	SW'W	3	c	45	97	7	8	-	-	9+	9+	800	1	8
	Aldergrove ...	960·3	-12	SW	3	c/pr	45	92	6	9	-	-	10	10	1500	1	*
19	Birr Castle ...	970·1	+92	W'N	7	c/pr	47	85	8	8	8	-	7-8	7-8	1500	1	*
20	Valentia Obsy. †	986·8	+118	WNW	7	[illegible]	48	75	6	5	-	-	9+	9+	1500	1	5
	Roches Point	981·2	+84	WNW	7	ir.	47	85	7	6	-	-	7-8	7-8	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 18h Hrs. (36)
1	London (Kew)	48	47	45	2.	3	0·0
	Croydon ...	48	47	44	4.	5	0·0
	S. Farnborough	48	46	42	3.	3	0·6
	Boscombe Down	48	41	40	8.	8	0·0
	Calshot (Sthmtn.)	49	48	45	6.	2	0·0
	Lympne ...	48	44	43	3.	2	0·1
	Manston ...	48	45	44	0·4.	1	0·0
2	Shoeburyness...	47	45	43	1.	1	0·0
	Felixstowe ...	46	43	42	Tr.	1	0·0
	Gorleston ...	47	43	42	0·1.	1	0·0
	Mildenhall ...	49	45	40	1	0·4	0·0
	Cranwell ...	47	43	41	1	4	0·1
3	Birmingham ...	47	45	42	2.	2	0·0
	Upper Heyford	48	44	40	8.	2	*
4	Ross-on-Wye	52.	45	42	7.	4	0·0
5	Bristol ...	51	44	40	3.	8	0·0
	Portland Bill ...	50	46	*	6	7	*
	Plymouth ...	52	47	45	13	3	0·0
	The Lizard ...	53	46	*	12	3	0·0
	Scilly (St.Mary's)	53	45	*	9.	7	0·0
	Guernsey ..	52	41	41	6.	3	0·0
6	Pembroke ...	51	47	*	9	18	0·0
7	Holyhead ...	48	45	43	4.	7	0·0
	Chester(Sealand)	47	45	43	2.	6	0·0
8	Manchester ...	48	45	42	1.	3.	0·0
10	Spurn Head ...	45	43	*	0·5.	3	0·0
	Catterick ...	45	44	41	2.	4	0·0
	Tynemouth ...	46	44	41	-	2	0·0
11	St.Abbs Head...	45	41	*	-	6	*
	Leuchars ...	46	42	36	-	10	1·8
12	Renfrew (Abbots L.)	46	43	40	1	11	0·0
	Eskdalemuir ...	43	40	39	1	17	0·0
	Point of Ayre...	49	43	*	6.	12	0·2
13A	Tiree	46	42	42	1	18	0·0
13B	Stornoway ...	45	39	*	9.	9	0·3
15	Dalwhinnie ...	39	35	33	1	18	0·3
	Aberdeen ...	44	43	41	-	11	1·0
	Wick ...	44	42	*	-	5	*
16	Lerwick ...	45	41	*	1	6	0·1
17	Blacksod Point	53	40	*	6	3	*
18	Malin Head ...	46	42	*	5.	2	0·0
	Aldergrove ...	46	44	42	6.	2	0·2
19	Birr Castle ...	53	43	*	3.	3	0·0
20	Valentia Obsy. †	50	45	43	12.	5	0·0
	Roches Point	52	45	*	11.	7	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cm.	crr.r.	cr.r.c	48	47	45	2	3	0·0	.	.	7
Croydon	217	bc,cm.ir.	cm.r.r.	cr.r.c.rr	48	47	44	4	5	0·0	.	.	7
Greenwich (Royal Observatory)...	149	c	cr.r	rr.r.c.q	52	45	42	1	2	0·0	84	65	7
City (Bunhill Row)	—	.	.	.	.	.	.	.	.	0·0	.	.	.
Westminster (St. James' Park) ...	27	.	.	.	54	47	44	3		0·0	83	66	.
Regents Pk. (Botanic Gardens)‡...	168	.	.	.	53	46	44	2	2	0·0	85	70	.
Camden Square	110	c	ccr	.	53	46	43	2	2	.	.	65	.
Kensington	80	co	bcco	.	49	47	43	2	2	0·0	At 18h. 91	69	.
Hampstead Observatory	450	bcor	or	o	49	44	39	3	3	0·0	.	77	.

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·3	18-19hr 14th	<0·3	3-5h 15th

Kew Observatory. Max.	Time.	Min.	Time.
0·1	8hrs 14th	<0·1	22hrs 14th - 7h 15th

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.
Paris						1002·3	SSE	6	q	48
Brussels	1015·9	SW	4	o	46	998·0	SSW	6	r.r.	48
Berlin						1010·0	SE	4	c	36
Zurich	1025·0	SSE	1	bc	41	1013·6	WSW	2	c	41
Rome	1026·9	-	o	bc	50					

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
46	45	-	1
	34		-
54	36	-	-
*	*	-	

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	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.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

* 1 hr. observations are from Valentia W/T Station.

† Maximum and Minimum Temperatures are for the 24 hours ending 8 h.

‡ Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 16th January, 1938.
No. 27814.

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. 0–12 Force (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)	991·8	+32	SWW	6	c/r	50	65	7	5	-	-	9+	9+	1500
	Croydon ...	993·0	+30	WSW	7	c/pr	49	75	7	8	-	-	9+	9+	2500
	S. Farnborough	993·4	+34	WSW	7	c/pr	48	75	7	5	3	-	7-8	9+	1500
	Boscombe Down	994·1	+42	W	7		47	75	7	9	-	-	9+	9+	800
	Calshot (Sthmtn.)	993·7	+34	WSW	6	c/r	50	65	6	8	7	-	7-8	9+	1500
	Lympne ...	994·1	+10	SWW	7	c	48	75	7	5	-	8	4-6	9	450
	Manston ...	992·5	+10	SW	7	q	50	65	7	5	-	-	9+	9+	800
2	Shoeburyness ...	991·0	+12	WSW	7	ir.	51	75	6	9	-	-	9+	9+	1500
	Felixstowe ...	989·2	+ 2	SSW	6	pr.	48	75	7	5	2	-	9	10	1500
	Gorleston ...	986·8	- 4	SSW	7	o	49	65	6	6	-	-	10	10	2500
	Mildenhall ...	985·4	+14	SWW	7	c	50	75	8	8	-	-	7-8	9	2500
	Cranwell ...	981·7	+24	SW	7	pr.	48	75	8	8	-	-	7-8	9+	800
3	Birmingham ...	986·3	+66	WSW	6	c/r	45	75	8	5	-	-	9+	9+	1500
	Upper Heyford	989·1	+44	WSW	7	ir.	47	75	6	9	-	-	10	10	1500
4	Ross-on-Wye	991·3	+60	W'S	6	id.	47	65	8	9	-	-	9+	9+	2500
5	Bristol ...	994·2	+66	W	7	c	47	75	7	5	-	-	9+	9+	800
	Portland Bill ...	998·7	+60	WSW	7	c	49	85	7	4	4	-	7-8	9	2500
	Plymouth ...	1001·0	+62	WNW	9	q	50	55	8	8	5	-	9	9+	2500
	The Lizard ...	1003·4	+90	W'N	8	bc/ph	47	75	7	9	-	-	4-6	4-6	1500
	Scilly (St.Mary's)	1003·4	+54	W	8	bc/pr	49	65	7	8	-	-	2-3	2-3	1500
	Guernsey ...	1003·9	+44	W'S	7	q	50	65	7	8	3	-	2-3	4-6	2500
6	Pembroke ...	993·5	+52	WNW	9	q	48	97	7	8	-	-	7-8	7-8	2500
7	Holyhead ...	983·0	+90	W	9	c	48	75	7	6	-	-	10	10	1500
	Chester(Sealand)	983·7	+88	W'S	6	pr.	48	65	6	6	2	-	9	10	1500
8	Manchester ...	979·8	+70	WSW	7	pr.	46	85	7	8	-	-	10	10	800
10	Spurn Head ...	977·1	+20	SWW	8	q	48	75	8	5	-	-	9+	9+	1500
	Catterick ...	972·7	+50	WSW	6	pr.	46	85	7	9	7	3	9	9+	800
	Tynemouth ...	969·1	+36	W	6	c/pr	48	85	6	9	-	-	7-8	7-8	800
11	St Abbs Head	966·0	+10	WSW	4	c	45	92	7	8	2	2	4-6	7-8	1500
12	Leuchars ...	966·8	+26	WNW	4	c	44	92	7	8	-	2	7-8	9+	4000
	Renfrew (Abbots I.)	971·8	+70	W	4	ir.	44	85	8	5	7	3	9	9+	1500
	Eskdalemuir ...	969·7	+66	WNW	5	rr	42	97	7	-	2	-	10	10	450
	Point of Ayre...	976·1	+90	WNW	8	bc	47	75	7	8	-	-	4-6	4-6	800
13a	Tiree	974·7	+68	NW'N	5	ir	44	92	7	-	2	-	9	9+	1500
13b	Stornoway ...	970·8	+20	WSW	3	c	44	85	7	8	7	9	4-6	9+	1500
15	Dalwhinnie ...	970·9	+32	NW	3	ir	40	85	7	8	2	-	7-8	10	2500
	Aberdeen ...	966·5	- 6	WN	1	c	45	85	5	9	2	-	2-3	10	1500
	Wick ...	968·7	- 4	ESE	4	pr.	45	97	8	5	7	1	4-6	9	1500
16	Lerwick ...	971·0	+ 4	SSW	4	c/pr	45	85	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	992·7	+80	WNW	8	Q	37	75	8	9	-	-	9	9	450
18	Malin Head ...	977·5	+96	NW	7	jp	45	97	6	6	-	-	9+	9+	800
	Aldergrove ...	980·2	+102	W	6	ir.	44	85	7	6	-	-	10	10	1500
19	Birr Castle ...	992·5	+80	NW	6	pr	45	75	8	8	8	-	7-8	7-8	1500
20	Valentia Obsy. †	1002·3	+66	W'N	6	jp	47	65	8	8	-	-	4-6	4-6	1500
	Roches Point	999·5	+74	WNW	6	bc	47	75	8	3	-	3	2-3	4-6	1500

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. 0–12 Force (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)	1001·5	+54	WSW	5	bc	47	65	8	5	-	-	2-3	2-3	2500	1	*
	Croydon ...	1002·6	+58	W	6	b	46	65	7	1	-	-	1	1	2500	1	*
	S. Farnborough	1002·6	+42	W'S	6	bc	45	65	6	5	-	-	2-3	2-3	1500	1	*
	Boscombe Down	1004·5	+58	W	6	bc	44	65	7	5	-	-	2-3	2-3	1500	1	*
	Calshot (Sthmtn.)	1005·5	+56	W'S	4	bc	47	65	8	8	3	-	2-3	4-6	2500	1	3
	Lympne ...	1002·6	+52	W'S	5	bc	46	55	8	5	-	-	4-6	4-6	4000	1	§ 4
	Manston ...	1000·9	+54	WSW	6	q	47	55	7	5	-	-	2-3	2-3	1500	1	*
2	Shoeburyness ...	1000·2	+46	WSW	6	bc	47	65	7	5	-	-	2-3	2-3	4000	1	*
	Felixstowe ...	997·5	+44	WSW	6	bc	48	65	8	5	-	-	4-6	4-6	1500	1	4
	Gorleston ...	998·9	+36	SW	6	c	48	75	6	8	-	-	9+	9+	2500	1	4
	Mildenhall ...	995·7	+64	WSW	7	bc	46	65	8	5	3	-	2-3	4-6	2500	1	*
	Cranwell ...	992·7	+70	WSW	8	bc	45	65	8	8	-	-	4-6	4-6	800	1	*
3	Birmingham ...	1000·2	+68	W	5	b	44	55	8	1	-	-	1	1	1500	1	*
	Upper Heyford	1000·9	+70	W	7	bc	44	65	7	5	-	-	2-3	2-3	1500	1	*
4	Ross-on-Wye	1002·2	+52	W	6	q	45	55	8	8	-	-	1	1	4000	1	*
5	Bristol ...	1004·1	+56	W	5	b	44	75	8	5	-	-	Tr	Tr	2500	1	*
	Portland Bill ...	1005·9	+40	W	7	bc	48	85	7	2	-	-	4-6	4-6	2500	2	6
	Plymouth ...	1009·2	+42	W'S	6	q	48	65	7	9	4	1	2-3	2-3	1500	1	3
	The Lizard ...	1011·1	+20	W	7	bc	47	75	7	8	7	-	4-6	4-6	1500	1	5
	Scilly (St.Mary's)	1009·7	+28	W	6	c	48	75	7	8	6	3	4-6	7-8	1500	1	4
	Guernsey ...	1011·0	+36	WSW	7	q	48	65	7	-	7	-	0	4-6	-	1	5
6	Pembroke ...	1003·9	+44	WNW	8	q	47	97	7	8	6	-	4-6	4-6	4000	1	5
7	Holyhead ...	997·2	+82	W	8	bc	45	65	7	1	-	1	Tr	Tr	1500	1	5
	Chester(Sealand)	997·0	+82	W	6	bc	46	55	7	5	-	-	4-6	4-6	2500	1	*
8	Manchester ...	994·4	+82	W	7	c	45	75	7	8	-	-	9	9	1500	1	*
10	Spurn Head ...	983·4	+54	W'S	9	q	45	75	6	8	-	-	9	9	1500	0	5
	Catterick ...	986·6	+82	W	7	bc/pr	45	65	8	1	4	-	1	2-3	2500	1	*
	Tynemouth ...	981·5	+80	W	6	c/pr	46	85	6	9	-	-	7-8	7-8	800	1	2
11	St Abbs Head	978·1	+60	WNW	7	bc	45	75	8	-	4	1	0	2-3	5700	0	4
12	Leuchars ...	978·9	+62	W	6	c	45	75	9	8	-	-	7-8	7-8	2500	1	*
	Renfrew (Abbots I.)	980·0	+80	WNW	7	pr.	43	85	7	8	-	3	2-3	2-3	7200 1500	1	*
	Eskdalemuir ...	984·8	+82	WNW	8	c	41	85	8	5	-	-	9	9	1500	1	*
	Point of Ayre...	992·4	+100	WNW	8	bc	44	75	7	8	-	-	2-3	2-3	800	1	5
13a	Tiree	988·6	+68	NW'N	6	c	45	75	8	8	9	3	7-8	7-8	1500	1	4
13b	Stornoway ...	980·5	+70	WNW	8	r.	41	92	6	8	2	-	9	10	1500	1	5
15	Dalwhinnie ...	982·2	+66	W	6	iR	38	85	6	8	1	-	7-8	10	1500	1	*
	Aberdeen ...	976·2	+62	WNW	4	bc	44	75	7	5	7	-	1	4-6	4000	1	2
	Wick ...	973·5	+24	NW	3	bc	38	92	8	5	1	1	4-6	4-6	1500	1	2
16	Lerwick ...	972·5	+ 6	SW	1	rr	43	92	6	6	2	-	9	10	800	1	*
17	Blacksod Point	997·7	+28	W	6	q	46	65	8	9	-	-	4-6	4-6	800	1	5
18	Malin Head ...	991·5	+28	W	6	c	45	85	7	8	-	-	7-8	7-8	800	1	4
	Aldergrove ...	994·6	+72	WSW	5	bc	40	75	8	8	-	-	2-3	2-3	2500	1	*
19	Birr Castle ...	1001·3	+34	NW	2	bc	41	75	8	5	-	-	2-3	2-3	1500	1	*
20	Valentia Obsy. †	1005·1	+14	WSW	5	c	48	65	8	4	1	-	4-6	9+	2500	1	5
	Roches Point	1005·8	+26	W	5	bc	44	75	8	3	-	3	2-3	4-6	1500	1	5

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 15th (37)	Weather. 13h.—18h. 15th (38)	Weather. 18h. 15th to 1h. 16th (39)	Weather. 1h.—7h. 16th (40)
1	London (Kew)	cr.c	cr.bc	bc	c
	Croydon ...	cir.pr.	pr.q z.b	bbc ≡	c d. d.
	S. Farnborough	cr.pr.c	cpr.bcb	bbcm.	bcc ir.c
	Boscombe Down	cirqcpr.	cr.c.b	b,c	cr.r.rr
	Calshot (Sthmtn.)	c,r.cpr.q	cbcpq.	bcb	bccr.r.
	Lympne ...	cpr.c.m.	cpr.pr.bq	bcybccw	bccir.
	Manston ...	cq	cpr.bcq	bjybccw	bccr.m.
2	Shoeburyness ...	bccm.ir.	cm.ir.b	b	b, cir.
	Felixstowe ...	bccir.cpr.	pr.ir.cbc	bcb	bbccir.
	Gorleston ...	coqpr.	opr.cq	bcbq	bcc
	Mildenhall ...	bccpr.c	cpr.cbc	bcb	bccir.
	Cranwell ...	cir.pr.	cpr.q ir.	bcb	c
3	Birmingham ...	orcir.	cbc	b	bo
	Upper Heyford	cr.r.Rcr.	cpr.cb	bbc	bccr.
4	Ross-on-Wye	d.q.cq	bcq.y	bcc	r.oq id.
5	Bristol ...	cr.r.pr.c	cbcc	bbc pr.c	cr.r.m.
	Portland Bill ...	orrc	cbc	bcc	cir
	Plymouth ...	cir.m.pra	cyqprbc	bcq b	b,od.rrm.
	The Lizard ...	qprhc	bcprhc	bcc	crrc
	Scilly (St.Mary's)	cp.	bcc	bccp.	orrdd
	Guernsey ...	cprq	bcqpr	bcpr.c	corr
6	Pembroke ...	cqirm.	cbcq	bcqc	eqrrm.
7	Holyhead ...	r.pr.c	cpr.b	bc ≡	c'rrRc
	Chester(Sealand)	orrm.pr.z	cqprb	bcb	bbccr.rm.
8	Manchester ...	crrRPR	cpr PR	cpr.b	b,cr.r.
10	Spurn Head ...	cq	cq	q b.	bcq co
	Catterick ...	rrm.pr	prpr.b	bcpr.b	boir.m.
	Tynemouth ...	bccpq	cp.q	cbcq	bcc
11	St Abbs Head	pr.c	bc	b	prc
12	Leuchars ...	cRRrc	cbccq	cqpr.b	b,cr.ir
	Renfrew (Abbots I.)	ir.cRir.	r.cpr.bc	prbqr	cm.ir.
	Eskdalemuir ...	orrcrr	crrpr	b	bccr.r.
	Point of Ayre...	prbcq	bccbc	bcc	corr
13a	Tiree	rrcir	iRr.c	cbcph	bcphr
13b	Stornoway ...	bccph.	crr.pr	cr.r.prbc	bcprc
15	Dalwhinnie ...	cRrir	ciR	*	circ
	Aberdeen ...	orrc	cirbc	bcq	bcqb
	Wick ...	cpr.	pr.bc	ir.pr	bc
16	Lerwick ...	rrr.r.pr	cprrrm	crrpr	cphrq
17	Blacksod Point	PHRq	PHRq	prcq	iRq
18	Malin Head ...	cir	cpr.yr	cpr.bccpr	cRR
	Aldergrove ...	cm.cirr.	cir.pr.bc	b,crrr.r.r.	em.r.r.
19	Birr Castle ...	cpr	cprbc	bc	bccpr
20	Valentia Obsy. †	irqphrbc	bcphrq	cir.rrRR	RR ir.
	Roches Point	cprqbc	cprbc ≡	bcrr	dr dr

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 18, 37, 38, 39, 40.—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 . . Ground dry.
1 . . ,, wet.
2 . . ,, flooded.
3 . . ,, frozen hard and dry.
4 . . ,, partly covered with snow or hail.
5 . . ,, covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 . . ,, covered with snow, less than 6 ins., but ground frozen.
9 . . ,, covered with snow greater than 6 ins. deep.

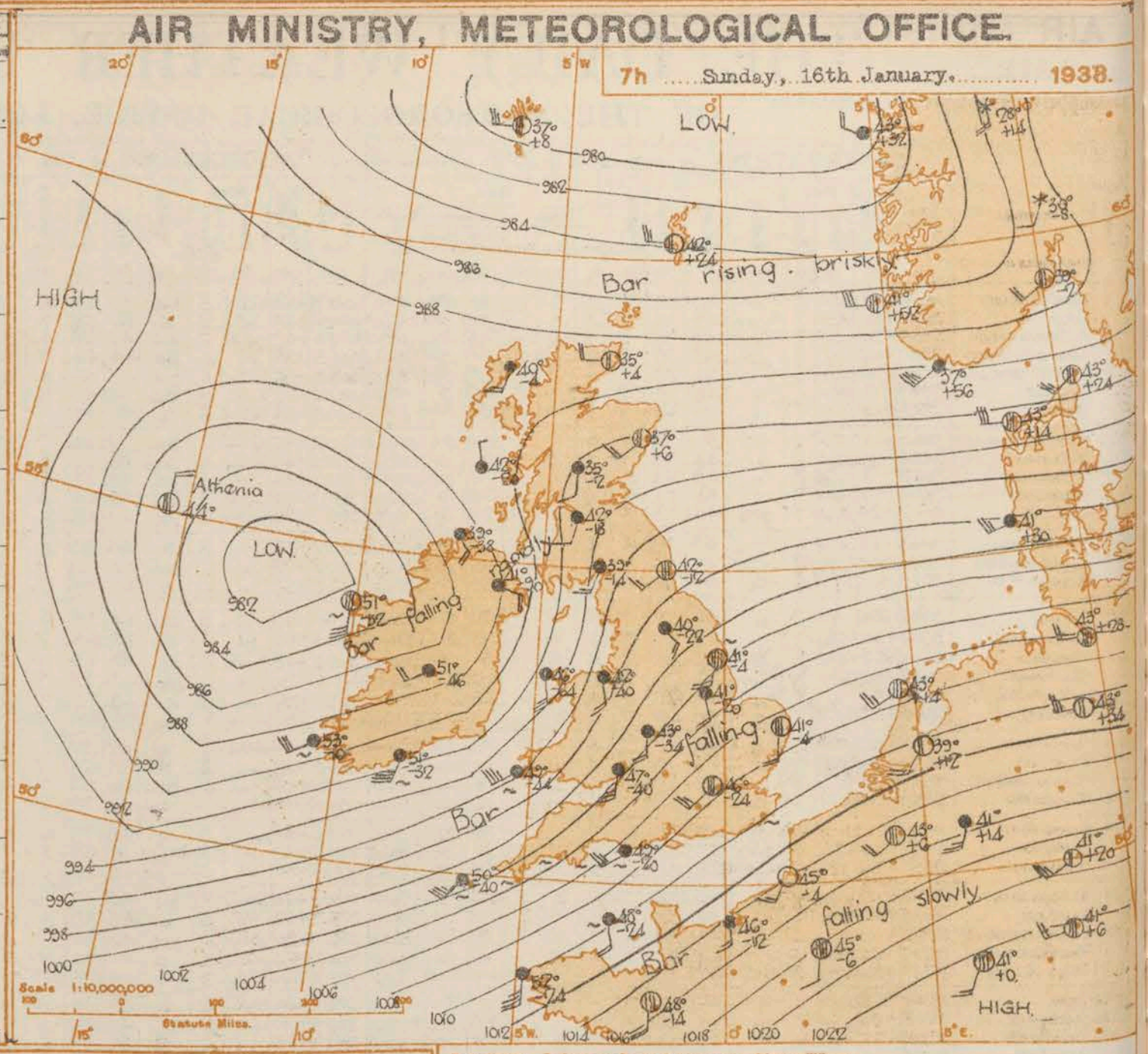
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

† See disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 15th January 1933.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature (°F.) Min. 9h. 14th to 9h. 15th	Temperature (°F.) Max. 9h.—17h. 15th	Rainfall (mm.) Night. 17h. 14th to 9h. 15th	Rainfall (mm.) Day. 9h.—17h. 15th	Sunshine (hrs.) Sunrise to Sunset. 15th.
1	Tunbridge W.	cp	ocpc	44	50	5	0·3	0·7
	Bournemouth	cpbc	bc	45	50	3	0·3	1·8
	Ventnor ...	r.c	c	42	50	2	-	0·9
	Southsea ...	ccpb	cbc	45	50	4	1	1·7
	Bognor Regis	cr.bc	bc	46	50	3	Trace	0·5
	Littlehampton	cpc	cpbc	47	51	2	0·3	0·7
	Worthing ...	cr.	bccbc	46	50	2	Trace	0·5
	Brighton ...	cbc	cdc	45	50	2	Trace	0·4
	Eastbourne† ...	ocbc	bcb	48	51	2	-	0·4
	Hastings† ...	ocbc	bcc	47	50	4	-	0·0
	Folkestone ..	oco	ocpo	45	50	3	Trace	0·0
	Dover ...	odc	cpbc	45	51	3	0·3	0·0
	Deal	o	oc	45	51	2	-	0·2
	Ramsgate ...	c	ocbc	46	50	2	-	0·6
	Margate ...	c	cbc	45	50	1	-	0·8
2	Southend ...	oc	cpc	43	50	2	Trace	0·8
	Clacton-on-Sea	cqc	cbc	41	50	2	Trace	0·1
	Dovercourt ...	doc	oc	43	50	0·5	Trace	0·0
	Lowestoft ...	c	cir	41	49	1	0·3	0·0
	Skegness ...	co	oco	40	49	2	-	0·0
	Mablethorpe...	co	od.	42	50	4	Trace	0·0
	Cleethorpes ...	cq	cbcq	40	51	4	-	0·2
3	Leamington S.	orcp	c	44	49	6	0·2	0·0
4	Cheltenham†	oirc	coc	44	53	5	1	0·0
5	Bath	rqc	qcocb	46	50	3	0·3	1·0
	Weymouth ...	rqc	c	45	50	4	-	0·0
	Jersey ...	rqc	pcbc	45	50	5	0·1	2·3
	Torquay ...	bcqp	bcbq	47	50	5	1	3·1
	Falmouth	crqbc	bcpc	47	49	7	Trace	4·0
	Penzance ...	qchbc	qbc	44	53	8	1	4·8
	St. Ives ...	p	c	39	46	20	Trace	2·4
	Bude... ...	cqbc	bcq	44	50	4	-	1·3
	Ilfracombe ...	orro	ocbc	49	50	5	-	0·5
6	Aberystwyth	rrc	c	42	47	10	-	0·1
7	Llandudno ...	r.cq	cq	44	49	12	Trace	0·0
	Colwyn Bay...	pop	cbc	45	48	21	0·5	0·0
	Rhyl	cqpr	cqr.	44	50	13	1	0·0
8	Wallasey ...	cP	irc	42	48	6	2	0·0
	Southport ...	oqo	oqpbc	44	47	9	0·5	0·0
	Blackpool ...	opcP	cpoc	41	47	11	2	0·1
	Morecambe ...	rrcir	ccro	39	47	12	4	0·0
9	Ilkley... ...	rqrpr	rpqpr	41	47	8	7	0·0
	Harrogate ...	cQrr	cQrr	39	46	6	9	0·1
10	Berwick-on-T.	c	rcbc	41	46	1	Trace	0·1
11	Dunbar ...	cr.	bcmpr	41	46	1	0·3	0·4
12	Troon... ...	ococ	orqro	42	48	8	2	0·0
	Douglas ...	bcirq	bprq	44	48	11	0·5	0·5

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 16th January, 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England	Fresh to strong southwest winds, gale at times on coasts; cloudy or dull, occasional rain or drizzle; rather mild.
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.	Fresh to strong southwest winds, a gale at times on coasts, veering west or northwest later and moderating; cloudy or dull with occasional rain or drizzle at first, showers and bright periods later; rather mild becoming cooler later.
13 A. W. Scotld. B.N.W. Scotland. 14 Mid Scotland	Light variable winds becoming strong northeast, backing northwest; cloudy, intermittent rain at first with sleet on high ground, showers and bright periods later; average temperature.
15 N. E. Scotland 16 Orkney and Shetland	Winds becoming strong northwest to northeast; fair at first, rain later; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 6 - 12.

GENERAL INFERENCE.

A deep depression just off northwest Ireland is moving quickly eastnortheast. Rain will spread to all districts and be followed by showers and bright periods in the west and North.

FURTHER OUTLOOK.

A temporary fair period followed by further rain from the West.

TIMES OF ISSUE OF GALE WARNINGS.

South Cone hoisted 1940 12/1/38 in district 13.
" " " 0200 13/1/38 in dists. 15 and 16.
" " " 0800 14/1/38 in dists. 1, 2, 5, 6, 7, 8, 10, 11, 12, 17, 18. 19 and 20.

Forecasts issued at 1200 G. M. T.

GEORGE C. SIMPSON, K.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.

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

SUNDAY, 16TH JANUARY.

1938.

LOW

HIGH

LOW

HIGH.

LOW

HIGH

LOW.

LOW

HIGH.

LOW

LOW

LOW

LOW

HIGH.

LOW

LOW

HIGH

HIGH.

Clarke's Projection Scale 1: 4 x 10⁷ along meridian at 55° N.

Statute Miles. 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—◯

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— ◯ Clear sky. ◔ Sky less than 3/10 clouded. ◑ Sky 4/10 to 8/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky. • Rain falling. ✱ Snow. ▲ Sleet. , △ Hail. ≡ Fog. 〓 Mist. ϒ (b) Thunder. ⅋ Thunderstorm. ∞ Slight haze.

The hour of observation is not uniform throughout the Hemisphere ; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 16th January, 1938.

No. 27814.

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)	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	1010·2	+18	W'S	4	c	43	75	8	-	3	-	0	7-8	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1012·0	+26	WSW	4	c	40	85	7	-	-	6	0	7-8	-
	Manston ...	142	1010·5	+30	SW	3	bc	41	75	7	-	-	6	0	4-6	-
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1005·9	+44	SW	5	b	41	75	7	-	-	-	0	0	-
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1011·2	+4	W	4	c	48	85	7	2	-	-	7-8	7-8	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1010·0	-14	SW'S	5	c	49	85	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1008·6	-22	SW	5	r. r.	49	92	7	5	2	-	7-8	10	1500
	Guernsey ..	175	1013·7	-4	SSW	3	c	47	85	7	-	7	8	0	9	-
6	Pembroke ...	142	1006·1	0	WSW	5	q	48	92	8	5	-	-	10	10	4000
7	Holyhead ...	26	1002·6	+2	SW	4	c	45	75	8	-	2	-	0	10	-
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1002·2	+60	WSW	5	q	40	85	7	-	-	8	0	2-3	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	997·8	+52	W	5	bc	42	75	7	2	6	-	2-3	4-6	1500
11	St Abb's Head . .	280	993·9	+80	WNW	6	b	41	75	8	-	3	-	0	1	-
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	999·4	+14	WN	6	c	43	75	8	2	-	6	Tr	7-8	1500
13a	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13b	Stornoway ...	80	988·2	+8	SW	4	bc	38	85	8	3	4	-	4-6	4-6	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	986·8	+48	W	4	c/pr	39	85	8	8	7	-	4-6	7-8	1500
16	Lerwick ...	156	979·0	+48	W	5	c/pr	42	85	8	8	7	-	4-6	7-8	800
17	Blackpool Point	18	996·7	-10	-	0	rr	43	92	8	9	-	-	10	10	800
18	Malin Head ...	84	994·0	+6	W	5	c	44	97	7	9	-	-	4-6	7-8	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	995·3	-20	S	5	rr	46	97	6	6	-	-	10	10	800
	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)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1007·2	-24	SSW	4	c	47	85	7	5	-	-	9+	9+	2500	1	*
	Croydon ...	1008·1	-24	SW'S	5	dd.	46	92	7	5	-	-	9	9	1500	1	*
	S. Farnborough	1007·2	-22	SSW	4	ir.	47	92	6	5	-	-	10	10	1500	1	*
	Boscombe Down	1006·2	-30	SSW	6	rr	46	92	7	6	2	-	9	10	800	1	*
	Calshot (Sthmtn.)	1009·0	-30	SSW	6	r. r.	48	92	7	8	7	-	4-6	10	1500	1	4
	Lympne ...	1011·1	-14	SW'S	5	S/r	45	92	6	5	2	-	7-8	10	800	1	$4
	Manston ...	1009·8	-14	SW'S	4	S/r	46	85	6	5	2	-	9	10	1500	1	*
2	Shoeburyness...	1008·9	-18	SSW	4	ir.	45	92	7	6	-	-	9+	9+	1500	1	*
	Felixstowe ...	1008·9	-16	SW	4	ir.	43	92	7	6	2	-	7-8	10	1500	1	2
	Gorleston ...	1007·6	-4	S	4	c	41	85	7	5	-	-	10	10	2500	1	3
	Mildenhall ...	1006·1	-20	S	4	ir.	45	85	7	5	-	-	10	10	1500	1	*
	Cranwell ...	1003·9	-20	SSE	4	r. r.	41	92	7	-	2	-	10	10	800	1	*
3	Birmingham ...	1001·9	-24	S	4	ir.	43	92	8	6	2	-	9	10	800	1	*
	Upper Heyford	1005·0	-30	S	5	ir.	44	97	6	6	2	-	9	10	1500	1	*
4	Ross-on-Wye	1001·9	-40	SW	5	d. d.	47	85	6	6	1	-	4-6	10	1500	1	*
5	Bristol ...	1004·4	-40	SSW	4	r. r.	47	92	6	5	2	-	4-6	10	1500	1	*
	Portland Bill ...	1005·8	-20	SW	5	ir	49	92	7	5	-	-	10	10	1500	1	4
	Plymouth ...	1003·8	-34	S'W	7	rr	49	97	5	-	2	-	10	10	450	1	4
	The Lizard ...	1002·6	-24	SW'S	7	c	49	92	6	5	-	-	10	10	1500	1	4
	Scilly (St. Mary's)	1000·4	-40	SW'S	7	dd	50	97	6	5	-	-	10	10	1500	1	4
	Guernsey ..	1010·6	-24	SE	4	rr	48	97	6	5	-	-	10	10	1500	1	4
6	Pembroke ...	995·6	-44	SW	7	rr	49	97	6	5	-	-	10	10	2500	1	5
7	Holyhead ...	992·9	-64	S'E	5	r. r.	46	92	7	6	2	-	4-6	10	450	1	3
	Chester(Sealand)	998·0	-40	SSE	3	rr	42	92	6	6	2	-	9	10	1500	1	*
8	Manchester ...	999·2	-36	SSE	3	r. r.	42	92	7	-	2	-	10	10	800	1	*
10	Spurn Head ...	1002·6	-4	SSW	4	0	41	92	7	5	-	-	10	10	2500	0	4
	Catterick ...	998·4	-22	SE	3	ir.	40	85	6	6	2	-	7-8	10	1500	1	*
	Tynemouth ...	997·9	-12	SW	3	c	42	85	7	5	-	-	9+	9+	1500	1	2
11	St Abb's Head . .	994·8	0	SW	2	c	40	85	8	4	2	-	7-8	9+	2500	0	2
	Leuchars ...	993·7	-8	SW	1	c	39	92	7	5	1	-	4-6	10	1500	1	*
12	Renfrew (Abbots I.)	993·9	-18	SSW	2	ir	42	92	6	-	2	-	10	10	1500	1	*
	Eskdalemuir ...	994·8	-14	SSW	3	r. r.	39	92	6	6	2	-	9+	10	800	1	*
	Point of Ayre...	992·4	-54	SSW	4	rr	44	97	7	-	2	-	10	10	1500	1	3
13a	Tiree	989·8	-20	NNW	1	dr	42	85	7	-	2	-	9+	9+	1500	1	*
13b	Stornoway ...	988·2	-4	SSW	3	c	40	85	8	3	1	3	2-3	10	2500	1	2
15	Dalwhinnie ...	992·6	-2	S	2	c	35	85	7	5	-	-	10	10	2500	3	*
	Aberdeen ...	992·6	+6	SW	3	bc	37	85	7	5	7	8	1	4-6	5700	1	2
	Wick ...	988·6	+4	W	4	bc	35	97	8	8	7	1	2-3	2-3	2500	1	3
16	Lerwick ...	984·2	+24	W	5	bc	42	75	8	8	-	-	4-6	4-6	800	1	*
17	Blackpool Point	982·7	-52	S	6	q	51	97	7	9	-	-	10	10	450	1	5
18	Malin Head ...	987·7	-38	SEE	4	rr	39	97	6	3	-	-	9+	9+	800	1	3
	Aldergrove ...	987·5	-30	ESE	4	r. r.	41	92	5	6	-	-	10	10	800	1	*
19	Birr Castle ...	987·2	-46	SW	4	pr	51	97	8	9	-	-	7-8	7-8	1500	1	*
20	Valentia Obsy. †	989·1	-10	SWS	6	ir.	53	92	6	5	-	-	10	10	800	1	4
	Roches Point	991·3	-32	SSW	7	dr	51	97	5	5	-	-	10	10	450	1	5

PAST 24 HOURS.

District	Stations	Temperatures. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 1.5th Hrs. (36)
1	London (Kew)	50	42	39	0·1	-	0·2
	Croydon ...	50	43	40	0·1	Tr	0·2
	S. Farnborough	49	40	35	0·1	0·2	0·1
	Boscombe Down	48	39	37	0·2	1	0·6
	Calshot (Sthmtn.)	50	43	40	0·4	1	1·4
	Lympne ...	49	39	35	0·2	Tr	0·5
	Manston ...	50	40	36	Tr	Tr	0·6
2	Shoeburyness...	51	42	36	0·1	Tr	0·2
	Felixstowe ...	50	40	37	Tr	0·1	0·2
	Gorleston ...	50	40	38	0·1	-	0·0
	Mildenhall ...	50	39	34	Tr	Tr	0·3
	Cranwell ...	49	38	33	0·1	0·1	0·2
3	Birmingham ...	47	39	36	3	Tr	0·0
	Upper Heyford	47	38	32	2	Tr	*
4	Ross-on-Wye	49	42	38	2	0·5	0·2
5	Bristol ...	48	41	38	2	2	0·2
	Portland Bill ...	50	47	*	1	1	*
	Plymouth ...	50	47	43	0·5	4	1·3
	The Lizard ...	49	46	*	0·3	3	3·0
	Scilly (St. Mary's)	50	47	*	0·6	3	4·4
	Guernsey ..	50	47	41	3	1	2·6
6	Pembroke ...	50	46	*	4	7	0·0
7	Holyhead ...	49	44	42	0·3	6	0·1
	Chester(Sealand)	49	42	35	4	1	0·0
8	Manchester ...	47	38	33	6	1	0·0
10	Spurn Head ...	48	39	*	-	-	0·4
	Catterick ...	47	40	37	4	0·2	1·0
	Tynemouth ...	48	39	35	1	-	0·3
11	St Abb's Head . .	46	36	*	0·1	Tr	*
	Leuchars ...	45	36	32	4	1	0·2
12	Renfrew (Abbots I.)	46	39	35	2	4	0·0
	Eskdalemuir ...	45	36	33	9	0·3	0·0
	Point of Ayre...	48	42	*	2	5	0·2
13a	Tiree	45	39	37	4	1	0·2
13b	Stornoway ...	45	36	*	2	2	0·2
15	Dalwhinnie ...	41	33	27	5·4	1	0·0
	Aberdeen ...	46	37	33	3	-	0·0
	Wick ...	46	34	*	0·2	2	*
16	Lerwick ...	47	38	*	5	3	0·0
17	Blackpool Point	52	38	*	1	7	*
18	Malin Head ...	48	38	*	0·4	4	0·1
	Aldergrove ...	46	36	32	1	5	0·5
19	Birr Castle ...	47	38	*	0·4	7	4·1
20	Valentia Obsy. †	48	44	41	0·5	22	3·2
	Roches Point	48	43	*	1	11	*

IDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity. 15h. G.M.T % (Yesterday.)	Humidity. 9h. G.M.T % (To-day.)	Visibility 9h.
Kew	18	cr. c	cr. bc	bc c	50	42	39	0·1	-	0·2	*	*	6
Croydon	217	cir. pf.	pr. cyz. b	bc wcdd	50	43	40	0·1	Tr	0·2	*	*	6
Greenwich (Royal Observatory)...	149	cq r.	cq	dbcr. ω	50	42	36	Tr	0·3	0·3	54	86	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·1	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	51	43	37	0·5		0·2	59	74	*
Regents Pk. (Botanic Gardens)‡...	166	*	*	*	50	43	39	Tr	1	0·0	68	92	*
Camden Square	110	cp	c	*	50	43	38	-	0·5	*	*	89	*
Kensington	80	cp bc	bc	*	50	43	37	0·1	0·5	0·3	At 12h. 58	87	*
Hampstead Observatory	430	bc	bc	or	48	40	33	-	1	0·1	*	96	*

FOREIGN OBSERVATIONS.

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

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1012·6	W	4	bc/pr	43
Brussels	1003·4	WSW	5	c	46
Berlin	1002·4	SSW	4	c	43
Zurich	1018·2	W	6	c	43
Rome					

7h. G.M.T. 16th January

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
1018·2	S	2	0	45
1014·4	SW	4	c	43
1009·9	WSW	5	0	43
1025·4	W	3	bc	39

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
50	43	2	-
52	41	2	-
45	41	0·2	Tr
48	37	0·2	0·5

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·3	Whole period.		

Kew Observatory. Max.	Time.	Min.	Time.
0·1	12h. 15th.	0·1	9h. 15th.

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. George C. Simpson, K.C.B., D.Sc., F.R.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 17th January, 1938.
No. 27815.

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)	°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)	1001·0	−34	S/W	4	rr	49	92	6	5	2	–	9+	10	1500
	Croydon ...	1002·2	−28	SW	6	rr	49	92	5	6	–	–	10	10	800
	S. Farnborough	1000·9	−34	SW'S	6	ir	49	92	6	6	2	–	9	10	450
	Boscombe Down	1000·1	−30	SSW	6	dr	50	97	6	6	2	–	9	10	450
	Calshot (Sthmtn.)	1003·2	−36	SSW	7	rr	49	97	5	6	–	–	10	10	450
	Lympne ...	1004·8	−40	SSW	7	r$_o$	47	92	4	6	–	–	10	10	<150
	Manston ...	1003·8	−46	S/W	6	r$_o$	47	92	6	6	–	–	10	10	450
2	Shoeburyness ...	1002·5	−34	S/W	6	r$_o$	47	92	6	6	2	–	9	10	800
	Felixstowe ...	1002·4	−42	S	6	r$_o$	45	97	6	5	2	–	7-8	10	800
	Gorleston ...	1000·1	−50	S/E	7	rr	46	92	6	6	–	–	10	10	1500
	Mildenhall ...	998·2	−46	S/W	6	ir$_o$	49	92	6	6	2	–	7-8	10	1500
	Cranwell ...	995·1	−46	S	6	c	49	97	7	5	–	–	10	10	450
3	Birmingham ...	995·8	−28	SSW	4	ir$_o$	49	97	6	6	–	–	10	10	800
	Upper Heyford	996·1	−38	S/W	6	ir$_o$	49	97	7	6	2	–	9+	10	450
4	Ross-on-Wye	996·1	−10	SW/W	4	id$_o$	52	92	6	6	–	–	10	10	800
5	Bristol ...	998·3	−26	SSW	5	ir$_o$	52	97	7	–	2	–	10	10	800
	Portland Bill ...	1000·6	−16	S	6	rr	49	92	6	5	–	–	10	10	1500
	Plymouth ...	999·8	−18	SW	6	id	51	97	5	–	2	–	10	10	450
	The Lizard ...	999·0	−30	SW	7	rr	52	97	5	5	–	–	10	10	800
	Scilly (St.Mary's)	998·1	−14	SW'S	6	o/d	53	97	6	5	–	–	10	10	1500
	Guernsey ...	1005·5	−30	S/W	5	rr	50	97	4	5	–	–	10	10	1500
6	Pembroke ...	998·9	−8	SW/W	7	q	51	97	6	5	–	–	9+	9+	2500
7	Holyhead ...	999·3	−6	SW'S	5	o	51	97	6	5	–	–	10	10	450
	Chester(Sealand)	999·9	−26	WSW	5	c	57	75	8	8	–	–	7-8	7-8	2500
8	Manchester ...	999·9	−26	SSW	4	c/r	50	92	6	8	–	–	9+	9+	800
10	Spurn Head ...	992·1	−40	SSW	7	q	47	92	7	8	–	–	10	10	1500
	Catterick ...	996·6	−48	S	3	ir$_o$	49	85	6	6	–	–	9+	9+	800
	Tynemouth ...	995·4	−52	SW	4	bc/r	46	97	5	9	–	–	4-6	4-6	800
11	St. Abbs Head ...	993·6	−74	SSE	5	r$_o$	41	97	6	3	2	–	7-8	10	1500
	Leuchars ...	995·8	−48	ENE	3	r$_o$	37	92	8	5	–	–	10	10	800
12	Renfrew (Abbotsl.)	996·1	−30	NE	3	r$_o$	37	92	7	5	–	–	10	10	800
	Eskdalemuir ...	993·5	−48	SSW	5	rr	46	97	4	–	2	–	10	10	<150
	Point of Ayre...	994·2	−4	W'S	7	c/pr	56	85	7	8	6	9	4-6	7-8	1500
13A	Tiree	997·9	0	NE	1	c	41	85	9	5	3	–	4-6	9	2500
13B	Stornoway ...	997·8	−4	SW	1	bc	42	85	7	7	5	–	4-6	4-6	2500
15	Dalwhinnie ...	*	−22	N	2	c	33	97	5	5	–	–	10	10	1500
	Aberdeen ...	998·2	−28	–	0	rs	34	97	4	–	2	–	10	10	1500
	Wick ...	997·5	−10	W	3	c	39	92	8	8	7	–	4-6	9	1500
16	Lerwick ...	995·5	0	WSW	5	c/pr	40	85	8	8	7	–	4-6	7-8	1500
17	Blacksod Point	993·3	+20	N	6	q	43	92	8	9	–	–	9	9	800
18	Malin Head ...	996·6	+10	NE/E	3	c/d	40	97	7	8	–	–	9+	9+	800
	Aldergrove ...	994·7	+14	WNW	3	r$_o$r$_o$	41	97	5	–	2	–	10	10	450
19	Birr Castle ...	997·4	+4	S/W	2	c/pr	54	92	7	6	2	–	7-8	10	1500
20	Valentia Obsy. †	993·5	−2	SW	5	ir	54	97	6	6	2	–	9	10	800
	Roches Point	991·3	−4	WSW	5	dr	52	97	5	5	–	–	10	10	450

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

District	Stations. (For heights see p. 4.)	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)	997·8	−16	SSW	4	d$_o$d$_o$	51	92	6	6	2	–	10	10	1500	1	*
	Croydon ...	999·0	−18	SW'S	5	d$_o$d$_o$	51	97	6	6	–	–	10	10	1500	1	*
	S. Farnborough	998·8	−18	SW's	4	d$_o$d$_o$	51	97	6	6	2	–	9	10	800	1	*
	Boscombe Down	997·5	−14	SW	4	id$_o$	52	97	6	6	2	–	9	10	450	1	*
	Calshot (Sthmtn.)	999·8	−12	SSW	6	d$_o$d$_o$	50	97	6	6	2	–	9	10	450	1	*
	Lympne ...	1000·3	−16	SSW	6	df$_o$	47	97	3	–	2	–	10	10	<150	1	4
	Manston ...	1000·0	−20	S/W	6	r$_o$r$_o$	49	92	6	6	2	–	9	10	450	1	*
2	Shoeburyness ...	999·0	−16	SSW	6	r$_o$r$_o$	50	92	6	6	2	–	9	10	800	1	*
	Felixstowe ...	998·1	−14	S/W	6	o/r	47	92	6	5	–	–	10	10	1500	1	4
	Gorleston ...	995·7	−20	S/E	5	o	51	92	6	6	–	–	10	10	1500	1	3
	Mildenhall ...	996·0	−14	SSW	6	c	53	85	8	5	–	–	7-8	7-8	4000	1	*
	Cranwell ...	992·4	−14	SSW	5	c	53	85	8	5	–	–	7-8	9+	450	1	*
3	Birmingham ...	993·3	−6	SSW	4	ir	52	92	7	6	–	–	10	10	800	1	*
	Upper Heyford	995·4	−14	SSW	5	d$_o$d$_o$	51	97	7	6	2	–	9+	10	450	1	*
4	Ross-on-Wye	993·9	−10	SW	4	id$_o$	53	92	7	6	–	–	10	10	1500	1	*
5	Bristol ...	996·0	−10	S	4	pr	53	97	6	6	–	–	7-8	7-8	800	1	*
	Portland Bill ...	996·1	−12	WSW	7	rr	51	92	6	5	–	–	10	10	800	2	5
	Plymouth ...	998·1	−2	SW	6	id	52	97	6	–	2	–	10	10	450	1	4
	The Lizard ...	997·9	+4	SW	6	ir$_o$	52	97	6	5	–	–	10	10	800	1	4
	Scilly (St.Mary's)	997·1	+2	SW	6	c/d	52	97	6	5	–	–	9+	9+	1500	1	4
	Guernsey ...	1003·1	−10	SW	5	ir	53	97	6	5	–	–	10	10	1500	2	4
6	Pembroke ...	991·9	−4	SW'W	6	dr	51	97	6	5	–	–	10	10	2500	1	4
7	Holyhead ...	988·4	−4	SW'S	4	r$_o$r$_o$	50	97	6	5	–	–	10	10	<150	1	3
	Chester(Sealand)	989·5	−4	SSW	3	bc/pr	55	75	7	5	–	–	4-6	4-6	2500	1	*
8	Manchester ...	989·5	−8	SW'S	4	r$_o$r$_o$	53	85	7	6	2	–	4-6	10	800	1	*
10	Spurn Head ...	989·6	−6	SW'S	5	q	50	97	7	8	–	–	9+	9+	1500	1	4
	Catterick ...	986·5	+6	SSW	3	dr	52	85	8	5	–	–	10	10	1500	1	*
	Tynemouth ...	984·0	0	SW	3	c	53	85	6	5	–	–	7-8	7-8	1500	1	2
11	St. Abbs Head ...	985·6	+20	NW	6	c	40	92	7	5	2	–	9	10	800	1	4
	Leuchars ...	987·5	+26	WNW	2	c	37	92	8	5	2	–	4-6	9	5700	1	*
12	Renfrew (Abbotsl.)	989·5	+30	WSW	2	z$_o$	36	92	5	5	3	–	4-6	7-8	2500	1	*
	Eskdalemuir ...	986·9	+32	N'E	4	ir$_o$	37	85	6	6	2	–	1	10	800	2	*
	Point of Ayre...	987·9	+36	N'N	4	c/pr	43	92	7	8	2	–	4-6	10	1500	1	3
13A	Tiree	990·3	+18	N	4	bc/pr	42	85	9	3	4	–	2-3	4-6	2500	1	3
13B	Stornoway ...	988·2	+10	WSW	3	bc	37	92	8	8	7	–	4-6	4-6	2500	1	1
15	Dalwhinnie ...	*	+8	–	0	c	30	97	8	4	6	–	4-6	9+	2500	8	*
	Aberdeen ...	987·5	+6	NW	3	c	34	97	7	–	7	–	0	7-8	–	1	2
	Wick ...	986·8	+2	N	3	bc	35	92	8	5	7	–	2-3	4-6	1500	1	1
16	Lerwick ...	985·0	−6	SSW	5	bc	40	85	8	8	–	–	4-6	4-6	1500	Ø1	*
17	Blacksod Point	994·1	+30	N	5	c	42	92	8	9	–	–	10	10	800	1	4
18	Malin Head ...	990·2	+38	NNW	4	c	43	97	7	8	2	–	7-8	9	800	1	3
	Aldergrove ...	990·2	+38	N'W	3	c	40	85	6	5	–	–	10	10	1500	1	*
19	Birr Castle ...	990·6	+30	NW	2	rr	42	97	7	6	2	–	7-8	10	1500	1	*
20	Valentia Obsy. †	991·8	+28	N	6	ir$_o$	45	85	7	6	2	–	7-8	10	1500	2	4
	Roches Point	990·1	−2	WSW	5	dr	52	97	5	5	–	–	10	10	450	1	5

PAST 24 HOURS.

Weather. 7h.—13h. ...16th. (37)	13h.—18h. ..16th... (38)	18h.16th to 1h...17th (39)	1h.—7h. 17th. (40)
cr$_o$crrm$_o$	cr$_o$r$_o$cd$_o$	cid$_o$	crrcm$_o$
d$_o$rrr	rrd$_o$fm$_o$	crddc	cmrrrq
rrrd$_o$r$_o$	ird$_o$d$_o$	odirbcc	cirkir$_o$
crrcdrm$_o$	cirid$_o$m$_o$	cidmc	cprcb
cr$_o$rrrm$_o$	crrr$_o$r$_o$m$_o$	oddridc	c
cor$_o$r$_o$m$_o$	or$_o$rddm	fddirid$_o$	amddq
cor$_o$r$_o$m$_o$	or$_o$r$_o$m$_o$	crr$_o$m$_o$	rqkr$_o$r$_o$m$_o$
ir$_o$r$_o$c	ir$_o$r$_o$c	cir$_o$c	ccirm$_o$
cprr$_o$r$_o$m$_o$	cr$_o$r$_o$m$_o$	cbcc	cprirc
cor$_o$rq	or$_o$q	cbccq	cprrq
ir$_o$r$_o$ir$_o$	cm$_o$c	cbc	ccir
cr$_o$r$_o$rrR	c	cr$_o$ir$_o$	rrRrr
orir$_o$	or$_o$co	oir	orb
cr$_o$irr$_o$	or$_o$d$_o$d$_o$	~~eprRrr~~	~~cdcrrc~~
rqid$_o$	cid$_o$	cqc	rcb
crrddm$_o$	crprbc	bcprrrb	bcrrrb
oRz$_o$	Orrz$_o$	o	ocbc
orridm	oDDmid	oidid$_o$m$_o$	omcprb
prrrm	rrmir	irepr$_o$	cbc
ddmid	cid$_o$	coid$_o$	d$_o$rcbc
ororr	orrir	iror$_o$	corrc
cqir$_o$m$_o$	cqdrdrm$_o$	cqirid$_o$	idrbcq
rrddo	r$_o$r$_o$m$_o$o	orRRc	cb
crrm$_o$Rr$_o$	cpr$_o$bcpr	bccrr$_o$	cr$_o$bm$_o$
orrRr$_o$r$_o$	cpr$_o$r$_o$r$_o$	cr$_o$r$_o$	cbcm$_o$
rrqpr	cq	prc	prcbc
rrir$_o$m$_o$	rr$_o$cd$_o$r$_o$	ir$_o$rrbc	bcb
coir$_o$bc	bcc	corro	obc
rr$_o$rm$_o$c	rrm$_o$c	c	bcb
m$_o$r$_o$rrr	cr$_o$r$_o$c	cbcbx	bx
orrRrsr	r$_o$ccm$_o$bc	bccbcx	bcbx
rsrrqr$_o$rr	orrqcr$_o$r$_o$ir$_o$ir$_o$cbc		bcbx
cprq	cpr	prc	prcbc
cbc	bc	bccphrq	cbcpr$_o$
css	cir	*	cisbc
corrrsrsm	rsr$_o$c	cbxbc	bcbq
c	cbc	cr$_o$r	cprs
cpr$_o$	cphr	cirphr	cphr
cq	pr	prcq	bc
cir$_o$id$_o$c	c	ccphrbc	cphr
crrirr$_o$r$_o$	orm$_o$rrirc	cbc	bcbx
cpr	cprrr	crrbc	bcb
ir$_o$rrir	irRRir$_o$	ir$_o$rrccb	bcpr$_o$bc
odrdr	oidr	drprbc	bcb

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 . . Ground dry.
1 . . ,, wet.
2 . . ,, flooded.
3 . . ,, frozen hard and dry.
4 . . ,, partly covered with snow or hail
5 . . ,, covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 . . ,, covered with snow, less than 6 ins., but ground frozen.
9 . . ,, covered with snow greater than 6 ins. deep.

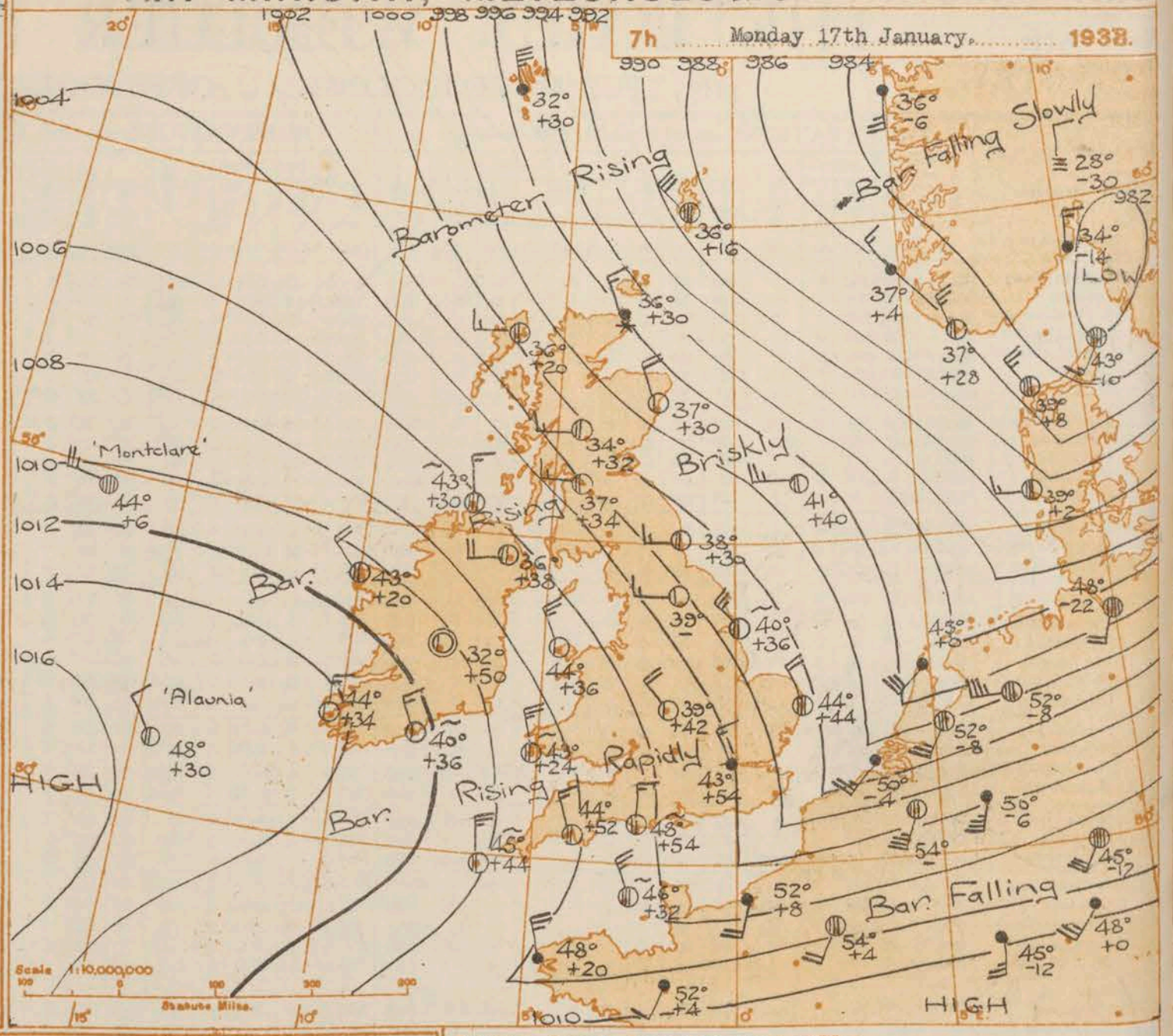
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

1 Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 16th January 1938.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 15th to 9h. 16th	Max. 9h.—17h. 16th.	Rainfall. (mm.) Night. 17h. 15th to 9h. 16th	Rainfall. (mm.) Day. 9h.—17h. 16th.	Sunshine (hrs.) Sunrise to Sunset. 16th.
1	Tunbridge W.	orr	or	41	49	1	9	0.0
	Bournemouth	r	r	43	52	6	7	0.0
	Ventnor ...	or	orm	45	49	1	2	0.0
	Southsea ...	orr	orr	44	51	2	6	0.0
	Bognor Regis	rr	rr	45	49	1	5	0.0
	Littlehampton	oir	oir	44	49	1	5	0.0
	Worthing ...	oirq	oirq	44	49	1	3	0.0
	Brighton ...	rc	cr	44	50	0.5	5	0.0
	Eastbourne† ...	rr$_0$r$_0$	r$_0$prr	45	50	1	5	0.0
	Hastings† ...	oorr	or$_0$or	44	49	0.3	5	0.0
	Folkestone ..	orq	orq	42	48	0.3	5	0.0
	Dover ...	oir	rro	43	49	0.3	5	0.0
	Deal	rrd	dd	42	49	Trace	4	0.0
	Ramsgate ...	cod	d	43	49	–	Trace	0.0
	Margate ...	c	cd	41	49	Trace	0.5	0.0
2	Southend ...	or	or	41	49	Trace	1	0.0
	Clacton-on-Sea	oir	oir	40	46	0.4	4	0.0
	Dovercourt ...	od	ord	40	50	1	3	0.0
	Lowestoft ...	c	r	40	50	0.6	2	0.0
	Skegness ...	or$_0$r$_0$	o	37	50	3	1	0.0
	Mablethorpe...	or	odo	37	52	4	1	0.0
	Cleethorpes ...	orcq	cq	38	53	3	3	0.0
3	Leamington S.	or	o	41	54	2	1	0.0
4	Cheltenham†	ocir	cir$_0$	40	51	2	2	0.0
5	Bath	rrq	rrc	43	55	6	4	0.0
	Weymouth ...	odrd	rd	40	52	3	7	0.0
	Jersey ...	cpc	rcq	46	50	1	3	0.0
	Torquay ...	ordqm	ordpq	44	54	6	7	0.0
	Falmouth							
	Penzance ...	rqrod	oqid	44	54	10	0.5	0.0
	St. Ives ...	dd	dd	39	47	6	5	0.0
	Bude... ...	rmd	omd	40	54	10	4	0.0
	Ilfracombe ...	orr	rodro	44	54	11	2	0.0
6	Aberystwyth	prc	cdd	43	51	4	5	0.0
7	Llandudno ...	cr$_0$	qcir	44	55	1	2	0.1
	Colwyn Bay...	cpcpc	ccppc	43	54	2	1	0.0
	Rhyl	cprq	cpr	43	54	2	0.6	0.3
8	Wallasey ...	c	p	42	55	2	0.3	0.0
	Southport ...	oro	orobc	42	52	5	1	0.0
	Blackpool ...	oir	oporo	41	50	5	1	0.0
	Morecambe ...	rror	irero	41	50	8	5	0.0
9	Ilkley... ...	rro	orr	40	52	1	5	0.0
	Harrogate ...	qrr	qrr	46	51	3	5	0.0
10	Berwick-on-T.	orr	ocirq	39	44	0.2	5	0.0
11	Dunbar ...	cr$_0$m$_0$	crr	38	42	0.3	11	0.0
12	Troon... ...	rrqrq	oroc	37	39	7	2	0.0
	Douglas ...	cirq	cir	41	50	13	6	0.0

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



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 17th January, 1937.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light northwest winds backing southwest tomorrow and freshening; fine today, rain at times tomorrow; rather mild.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Moderate or fresh north to northwest winds, becoming strong from southwest tomorrow; fair today; occasional rain tomorrow; rather mild.
7 North Wales ... 8 N.W. England 9 N. Midlands ...	Light northwest winds backing to south and freshening later; mainly fair today; rain tomorrow; average temperature.
10 N.E. England 11 S.E. Scotland	Light northwest wind backing south and freshening; fine today; rain tomorrow; average temperature.
12 S.W. Scotland & Isle of Man. 13 { A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Moderate west winds becoming strong from south later; mainly fair today; rain at times tomorrow; average temperature.
15 N. E. Scotland 16 Orkney and Shetland	Strong northwest winds, moderating, fair periods; local showers of rain or sleet; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light northwest to west winds becoming strong from southwest; fair at first; rain tonight; tomorrow rather mild.

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

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
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 moving east over the British Isles will be followed by a deepening depression from the Atlantic. Weather will be fair or fine today in most areas but further rain will spread from the west to all areas tomorrow.

FURTHER OUTLOOK.

Continuing unsettled with temperatures above average.

Forecasts issued at 1015 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

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

Hours of observation:—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

MONDAY, 17TH JANUARY

1938.

HIGH.

LOW

HIGH

LOW

HIGH

LOW

HIGH

1024.

Cloudless Projection Scale 1: 4X 10° along meridian at 55° N.

Statute Miles. 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol.

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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 17th January, 1938.
No. 27815.

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

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	998·3	+2	SW	5	c	53	85	7	5	-	-	9+	9+	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1000·2	+1	SW	5	id.	50	97	5	6	-	-	10	10	220
	Manston ...	142	998·6	+2	WSW	5	r.	53	92	6	5	-	-	10	10	500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	994·7	-2	SSW	7	c	50	92	6	8	-	-	9	9	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	999·1	+1	WSW	6	c	51	92	7	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1001·1	+10	W'S	5	c/pr	51	97	6	5	2	-	9	10	1500
	Scilly (St. Mary's)	163	1000·6	+22	WNW	6	id.	51	97	6	5	-	-	10	10	1500
	Guernsey ..	175	1003·0	+2	SW	4	c	52	97	7	5	-	-	10	10	2500
6	Pembroke ...	142	997·9	+28	N'E	5	id.	43	92	8	8	-	-	9+	9+	2500
7	Holyhead ...	26	997·2	+1	NWN	5	c	45	85	8	2	7	-	1	7·8	2500
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	991·1	0	W'N	4	r.	47	97	7	5	2	-	7-8	10	800
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	993·3	+16	W	2	c	40	85	7	6	2	-	3 6	3 10	800
11	St Abbs Head ..	280	993·2	+28	WNW	4	c	40	75	7	-	3	8	0	7-8	7200
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	996·2	+36	N	4	c	44	85	8	2	3	-	1	7-8	2500
13a	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13b	Stornoway ...	80	994·0	+30	NNW	3	c/pr	37	85	8	3	4	3	4-6	7-8	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	991·1	+20	NW	3	r.	37	85	7	5	7	-	4-6	7-8	1500
16	Lerwick ...	156	987·0	+10	NW	4	c/phr	38	85	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	18	1005·0	+10	N	5	c	44	65	8	9	-	-	4-6	4-6	800
18	Malin Head ...	84	998·3	+24	N'W	4	b/phr	44	92	7	2	-	1	4-6	4-6	800
	Aldergrove ..	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1006·8	+26	NW/N	4	bc	44	97	8	2	6	-	4-6	4-6	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 2 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)	1004·3	+24	NW'N	3	z.	43	85	6	5	-	-	9+	9+	2500	1	*
Croydon ...	1003·9	+24	NW'N	3	r.	43	92	6	6	-	-	10	10	1500	1	*
S. Farnborough	1004·6	+24	NW'N	3	bc/r	42	85	7	-	4	-	0	4-6	-	1	*
Boscombe Down	1005·6	+20	NNW	3	b	40	85	8	-	4	8	0	1	-	1	*
Calshot (Sthmtn.)	1004·8	+20	NW'W	4	c	44	85	7	5	7	-	4-6	9+	2500	1	2
Lympne ...	1001·3	+10	NW	4	dr	50	92	6	6	-	-	10	10	800	1	3
Manston ...	1001·3	+26	W	5	r.	45	92	6	6	2	-	9	10	450	1	*
Shoeburyness ...	1002·3	+12	NW'W	4	ir	44	92	6	6	2	-	9	10	800	1	*
Felixstowe ...	1000·9	+10	NW'N	4	c	44	92	7	5	2	-	7-8	9+	2500	1	2
Gorleston ...	1000·2	+11	NW'W	4	c/pr	44	92	6	8	-	-	10	10	1500	1	3
Mildenhall ...	1002·1	+5	NW	4	c/p	41	92	8	5	-	-	9+	9+	2500	1	*
Cranwell ...	1002·7	+11	W'N	4	bc	39	85	7	5	4	-	2-3	2-3	4000	1	*
Birmingham ...	1005·2	+12	WNW	4	b	39	85	6	-	-	-	0	0	-	1	*
Upper Heyford	1004·4	+11	NW	3	bc	40	85	8	-	4	-	0	2-3	-	1	*
Ross-on-Wye	1002·8	+16	W'N	2	b	40	85	8	5	-	-	Tr	Tr	4000	1	*
Bristol ...	1007·2	+12	NW'W	2	b	37	92	8	5	-	-	Tr	Tr	2500	1	*
Portland Bill ...	1002·4	+11	N	3	bc	43	85	8	4	-	-	4-6	4-6	2500	1	4
Plymouth ...	1003·8	+12	NW'N	3	bc	44	85	9	5	-	-	2-3	2-3	2500	1	2
The Lizard ...	1003·6	+10	N'W	4	bc	42	85	8	8	4	-	2-3	2-3	2500	1	3
Scilly (St. Mary's)	1010·8	+14	N'W	6	bc	45	75	8	8	6	-	2-3	2-3	1500	1	4
Guernsey ..	1007·6	+12	NW	5	c	46	85	7	8	1	-	7-8	10	2500	1	4
Pembroke ...	1003·4	+24	NNW	5	q	43	75	8	5	-	-	4-6	4-6	4000	1	4
Holyhead ...	1006·7	+16	NW'W	5	b	44	85	8	1	-	-	1	1	2500	1	3
Chester(Sealand)	1005·9	+12	WNW	4	z.	42	85	6	8	-	-	2-3	2-3	2500	1	*
Manchester ...	1005·0	+10	WNW	3	z.	36	92	6	8	-	-	2-3	2-3	2500	1	*
Spurn Head ...	1000·6	+16	WNW	5	bc	40	85	7	5	-	-	2-3	2-3	5000	1	4
Catterick ...	1002·4	*	W'S'N	3	b	39	75	8	-	4	-	0	Tr	-	1	*
Tynemouth ...	1001·0	+10	W	3	bc	39	85	7	2	-	-	2-3	2-3	1500	1	2
St Abbs Head ..	999·5	+14	W	5	b	40	75	8	-	4	-	0	1	-	1	3
Leuchars ...	999·8	+10	W	3	b	37	75	8	5	-	-	Tr	Tr	2500	3	*
Renfrew (Abbots I.)	1002·5	+11	W'N	3	bc	37	92	8	8	-	-	2-3	2-3	2500	1	*
Eskdalemuir ...	1001·7	+28	WNW	6	b	37	85	8	5	-	-	Tr	Tr	2500	3	*
Point of Ayre...	1004·6	+10	NNW	6	bc	42	85	8	8	-	-	2-3	2-3	1500	1	4
Tiree	1003·5	+12	NNW	6	bc	44	65	8	8	-	-	4-6	4-6	1500	0	-
Stornoway ...	999·6	+20	W	3	b/pr	36	92	8	3	-	3	4-6	4-6	2500	1	2
Dalwhinnie ...	*	+32	W	3	bc	34	75	8	4	6	-	8-3	4-6	4000	8	*
Aberdeen ...	998·1	+10	NW'W	4	b	37	85	8	1	-	-	Tr	Tr	4000	3	2
Wick ...	996·6	+10	NW	3	prs	36	97	8	5	7	-	4-6	9	1500	1	2
Lerwick ...	988·9	+16	WNW	6	c/phr	36	92	7	8	7	-	7-8	9	800	1	*
Blacksod Point	1010·9	+20	WNW	4	bc	43	75	8	9	-	-	4-6	4-6	800	1	3
Malin Head ...	1006·2	+10	N'W	3	c/p	43	92	7	9	-	-	9	9	800	1	4
Aldergrove ..	1006·8	+18	W	4	bc	36	85	8	7	-	-	2-3	2-3	2500	1	*
Birr Castle ...	1011·0	+5	-	0	b	32	92	8	-	-	-	0	0	-	1	*
Valentia Obsy. †	1014·3	+14	N	3	b	44	65	8	1	-	-	1	1	2500	1	2
Roches Point	1013·0	+16	NW	3	b	40	92	8	-	-	-	0	0	-	1	4

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h ins. (34)	Rainfall. Night 18h–7h ins. (35)	Sunshine Hrs. (36)
London (Kew)	51	43	40	6	1	0·0
Croydon ...	51	43	41	6	2	0·0
S. Farnborough	51	42	40	7	2	0·0
Boscombe Down	52	40	38	9	0·4	0·0
Calshot (Sthmtn.)	50	44	43	8	2	0·0
Lympne ...	47	51	47	6	2	0·0
Manston ...	50	45	44	1	1	0·0
Shoeburyness ...	50	44	43	2	2	0·0
Felixstowe ...	48	43	42	2	1	0·0
Gorleston ...	51	44	43	3	0·3	0·0
Mildenhall ...	53	41	40	2	2	0·0
Cranwell ...	53	39	35	3	5	0·1
Birmingham ...	52	39	35	4	5	0·0
Upper Heyford	52	39	34	6	3	*
Ross-on-Wye	53	40	34	5	5	0·0
Bristol ...	55	37	29	13	8	0·0
Portland Bill ...	52	48	*	8	1	*
Plymouth ...	52	44	40	5	2	0·0
The Lizard ...	52	41	*	3	1	0·0
Scilly (St. Mary's)	53	44	*	2	2	0·0
Guernsey ..	53	46	44	15	5	0·0
Pembroke ...	51	41	*	6	2	0·0
Holyhead ...	51	41	40	3	10	0·0
Chester(Sealand)	57	41	36	3	3	0·6
Manchester ...	54	35	29	5	2	0·0
Spurn Head ...	50	40	*	4	2	0·0
Catterick ...	52	37	32	4	4	0·0
Tynemouth ...	53	36	32	1	3	0·2
St Abbs Head ..	41	38	*	10	0·2	*
Leuchars ...	41	33	26	7	-	0·0
Renfrew (Abbots I.)	42	32	27	12	-	0·0
Eskdalemuir ...	49	34	31	27	0·1	0·0
Point of Ayre...	57	41	*	5	2	2·5
Tiree	43	38	36	3	0·5	0·0
Stornoway ...	43	35	*	-	1	3·2
Dalwhinnie ...	35	28	23	3	0·1	0·0
Aberdeen ...	39	33	31	5	-	0·10
Wick ...	39	33	*	-	1	*
Lerwick ...	44	38	*	1	5	0·4
Blacksod Point	51	39	*	2	Tr	*
Malin Head ...	44	39	*	3	1	0·0
Aldergrove ..	51	35	30	7	-	0·0
Birr Castle ...	54	33	*	8	4	0·0
Valentia Obsy. †	54	42	39	29	2	0·0
Roches Point	53	40	*	7	2	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility 9h. To-day.
Kew	18	cr cr r m	cr r r d	c i d r r m	51	43	40	6	1	0·0	*	*	6
Croydon	217	d r r r	r r d r m	c r d d r r	51	43	41	6	2	0·0	*	*	6
Greenwich (Royal Observatory)...	149	r	d d	d c r	52	41	37	4	1	0·0	93	78	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	55	42	38	7		0·0	89	83	*
Regents Pk. (Botanic Gardens)[...	156	*	*	*	52	41	38	6	2		93	83	*
Camden Square	110	cr	cr	*	54	41	37	7	2	*	*	81	*
Kensington	80	b	cor	*	51	42	36	6	2	0·0	97 (at 18h.)	73	*
Hampstead Observatory	450	or	or	bc	51	39	33	3	2	0·0	*	91	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington.

Max.	Time.	Min.	Time.
0·3	11h 16th	0·3	1-4h 17th

Kew Observatory.

Max.	Time.	Min.	Time.
0·1	14h 16th	0·1	0-7h 17th

FOREIGN OBSERVATIONS.

18h G.M.T. January 16.

Stations	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1010·3	S	5	c/r	50
Brussels	1006·2	SW	6	ir	46
Berlin	1021·1	W'S	4	c	41
Zurich	1021·6	S	1	c	41
Rome	1020·3	NE	1	c	48

7h. G.M.T. January 17.

Barom. mb.	Wind. Direc	Wind. Force.	Weather.	Temp. °F.
1007·7	SW	4	c	54
1017·5	SW	3	ir	45
1020·9	ENE	1	bc	39

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
56	48	Tr	3
46		0·6	
46		-	
46		-	
*	39	-	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 ,,	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.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

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

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h.

§ Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 18th January, 1938.
No. 27816.

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

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)	1012·5	+4o	NW'W	4	z_o	46	65	6	1	–	–	4-6	4-6	2500
	Croydon ...	1012·2	+38	NNW	4	bc	46	65	6	1	–	–	4-6	4-6	4000
	S. Farnborough	1012·9	+34	NW	3	bc	47	65	8	1	–	–	2-3	2-3	2500
	Boscombe Down	1014·1	+34	NW	4	b	45	65	8	1	–	–	1	1	2500
	Calshot (Sthmtn.)	1013·7	+34	NW'W	4	b	46	65	7	1	–	–	1	1	4000
	Lympne ...	1011·4	+34	NW'N	4	b	45	65	7	1	–	–	Tr	Tr	2500
	Manston ...	1010·7	+4o	NW	4	b	45	75	6	–	–	–	0	0	–
2	Shoeburyness ...	1010·3	+76	NW	4	b	46	75	7	1	–	1	Tr	Tr	1500
	Felixstowe ...	1010·1	+38	WNW	4	b	45	65	8	–	–	–	0	0	–
	Gorleston ...	1008·5	+28	W	4	b	44	65	6	–	–	–	0	0	–
	Mildenhall ...	1009·8	+34	WNW	5	z_o	45	75	6	–	–	–	0	0	–
	Cranwell ...	1009·3	+32	W	4	z_o	44	75	5	–	–	–	0	0	–
3	Birmingham ...	1011·7	+26	WNW	4	bc	44	65	6	3	–	–	4-6	4-6	1500
	Upper Heyford	1012·9	+32	NW	4	bc	44	65	7	1	–	–	4-6	4-6	2500
4	Ross-on-Wye	1013·6	+2o	W'N	4	bc	46	55	8	1	–	1	2-3	2-3	4000
5	Bristol ...	1014·5	+5o	NW'W	4	bc	46	65	8	4	–	–	2-3	2-3	2500
	Portland Bill ...	1014·0	+2o	NW	3	b	47	85	8	–	–	–	0	0	–
	Plymouth ...	1016·2	+3o	N	4	bc	47	65	8	8	4	5	2-3	2-3	2500
	The Lizard ...	1016·9	+24	NW	4	bc	48	65	8	8	6	–	2-3	4-6	2500
	Scilly (St.Mary's)	1017·1	+2o	N	4	bc	47	65	8	4	4	7	1	4-6	2500
	Guernsey ...	1015·7	+3o	NW'N	2	bc	48	75	8	1	3	–	2-3	4-6	2500
6	Pembroke ...	1014·6	+28	NW'N	3	bc	46	65	7	1	4	–	2-3	4-6	4000
7	Holyhead ...	1013·2	+22	WNW	5	bc	45	85	8	1	3	6	Tr	4-6	2500
	Chester(Sealand)	1012·5	+3o	NW'W	5	c	46	65	7	8	–	–	7-8	7-8	2500
8	Manchester ...	1011·3	+26	WNW	4	bc	44	75	7	8	4	–	4-6	4-6	2500
10	Spurn Head ...	1007·7	+16	NW'W	5	b	43	85	6	–	–	–	0	0	–
	Catterick ...	1008·1	+26	WNW	4	b	44	65	8	2	–	–	Tr	Tr	2500
	Tynemouth ...	1006·3	+24	W	3	bc	42	85	6	5	–	–	2-3	2-3	800
11	St Abbs Head	1004·3	+2o	WNW	5	b	41	75	6	–	3	–	0	1	–
12	Leuchars ...	1005·6	+22	W	4	b	41	65	8	4	–	1	Tr	Tr	4000
	Renfrew (Abbotsl.)	1008·6	+22	WNW	4	pr	42	85	8	5	–	–	7-8	7-8	1500
	Eskdalemuir ...	1006·4	+3o	WNW	5	b	40	65	8	1	–	9	1	1	2500
	Point of Ayre...	1011·4	+24	NW	5	bc	45	75	8	4	–	6	1	2-3	4000
13A	Tiree	1007·6	+18	NNW	4	c	44	75	9	8	1	6	4-6	9+	1500
13B	Stornoway ...	1006·1	+22	WSW	3	bc/pr	40	85	8	2	7	–	4-6	4-6	2500
15	Dalwhinnie ...	1007·9	+26	W	3	bc	36	75	7	4	6	–	2-3	4-6	2500
	Aberdeen ...	1004·2	+3o	NW'N	4	b	4o	75	8	3	–	–	Tr	Tr	2500
	Wick ...	1001·6	+18	NW	4	c/phr	39	75	8	5	7	–	7-8	9+	1500
16	Lerwick ...	996·0	+36	NW	6	phr	37	85	7	8	7	–	7-8	9+	800
17	Blacksod Point	1013·8	+6	WSW	4	c	46	65	8	8	–	–	10	10	800
18	Malin Head ...	1010·5	+4	NW	3	c	44	85	7	6	1	–	4-6	9	800
	Aldergrove ...	1012·5	+22	SW	3	c	41	75	8	8	7	8	1	9	2500
19	Birr Castle ...	1015·0	+1o	S	1	c	41	85	7	5	1	–	2-3	1o	2500
20	Valentia Obsy. †	1017·5	+6	S	2	c	47	75	8	1	3	6	Tr	9+	2500
	Roches Point	1017·7	+14	N	3	bc	45	75	8	–	4	5	0	4-6	–

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. F. (20)	%Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1017·4	+3o	WNW	3	z_o	43	65	5	–	–	–	0	0	–	2	*
	Croydon ...	1017·0	+3o	WNW	3	z_o	42	75	5	–	–	2	0	7-8	–	1	*
	S. Farnborough	1017·9	+24	W'S	3	bc	4o	75	7	–	7	–	0	4-6	–	1	*
	Boscombe Down	1016·6	+34	NW'W	2	bc	41	75	7	–	7	–	0	2-3	–	1	*
	Calshot (Sthmtn.)	1016·0	+3o	SW	2	bc	4o	85	7	–	7	6	0	4-6	–	1	2
	Lympne ...	1017·2	+34	WNW	2	z_o	39	75	5	–	–	6	0	2-3	–	1	1
	Manston ...	1016·2	+36	W	4	z_o	42[3]	75	6	–	–	6	0	4-6	–	1	*
2	Shoeburyness ...	1016·3	+36	W'S	3	c	42	85	6	–	–	6	0	7-8	–	1	*
	Felixstowe ...	1015·1	+32	W'N	3	bc	43	75	7	–	–	5	0	2-3	–	1	2
	Gorleston ...	1013·5	+24	W'S	3	b	41	75	6	–	–	–	0	0	–	1	2
	Mildenhall ...	1015·1	+34	WNW	4	z_o	4o	85	6	–	–	5	0	2-3	–	1	*
	Cranwell ...	1015·0	+34	WSW	3	z_o	38	85	6	–	4	–	0	4-6	–	1	*
3	Birmingham ...	1016·8	+32	WNW	3	b	4o	65	6	–	–	–	0	0	–	1	*
	Upper Heyford	1017·8	+34	NW'W	2	bc	39	75	7	5	7	5	1	4-6	4000	1	*
4	Ross-on-Wye	1017·9	+28	W'S	2	bc	41	75	8	4	1	1	Tr	2-3	2500	1	*
5	Bristol ...	1018·8	+2o	D	2	bc	37	92	7	–	7	8	0	4-6	–	1	*
	Portland Bill ...	1018·1	+24	NW	3	bc	45	85	8	4	–	–	2-3	2-3	2500	1	3
	Plymouth ...	1019·5	+26	NNW	2	z_o	45	75	6	5	7	–	4-6	9+	7200	1	1
	The Lizard ...	1019·8	+6	–	0	bc	42	85	8	4	6	–	2-3	4-6	2500	1	2
	Scilly (St.Mary's)	1020·4	+6	N	1	bc	41	75	8	4	4	–	2-3	2-3	2500	1	2
	Guernsey ...	1020·6	+3o	NW	1	bc	44	75	7	–	1	–	0	2-3	–	1	3
6	Pembroke ...	1018·6	+2o	NW	1	bc	45	75	8	–	7	–	0	4-6	–	1	2
7	Holyhead ...	1016·2	+1o	W	3	c	44	85	8	1	–	8	Tr	7-8	2500	1	3
	Chester(Sealand)	1016·5	+22	W'N	3	z_o	42	75	6	–	7	2	0	2-3	–	1	*
8	Manchester ...	1015·7	+26	WSW	2	z_o	37	92	6	–	–	8	0	2-3	–	1	*
10	Spurn Head ...	1011·7	+2o	WNW	5	bc	41	85	7	5	–	–	2-3	2-3	4000	0	3
	Catterick ...	1012·8	+24	WNW	3	bc	41	75	8	–	7	6	0	4-6	–	1	*
	Tynemouth ...	1011·6	+32	D	3	bc	4o	75	7	5	3	–	2-3	2-3	1500	1	2
11	St Abbs Head	1003·7	0	WNW	5	bc	41	65	6	–	3	3	0	4-6	7200	0	3
12	Leuchars ...	1010·2	+1o	WSW	4	bc	37	75	8	4	4	5	Tr	2-3	2500	1	*
	Renfrew (Abbotsl.)	1011·3	+18	SW'W	2	bc	36	92	8	6	–	6	2-3	4-6	2500	1	*
	Eskdalemuir ...	1012·4	+14	W'S	4	c	37	85	7	5	–	6	4-6	9	1500	1	*
	Point of Ayre...	1014·3	+2	WNW	4	bc	43	85	8	4	4	8	Tr	2-3	4000	1	3
13A	Tiree	1010·3	0	WNW	3	c/p	43	75	9	8	1	8	4-6	7-8	800	1	2
13B	Stornoway ...	1008·2	+6	SW	2	bc/pr	37	92	8	5	4	–	4-6	4-6	2500	1	1
15	Dalwhinnie ...	1011·1	+16	SW	3	bc	34	85	7	4	6	–	2-3	4-6	2500	8	*
	Aberdeen ...	1009·1	+32	W'N	2	b	37	85	7	8	–	–	1	1	2500	1	2
16	Lerwick ...	1006·3	+24	W	3	c	35	85	8	8	7	–	4-6	7-8	1500	1	1
17	Blacksod Point	1001·5	+2o	NW	5	c	36	75	7	8	2	–	7-8	10	800	1	*
18	Malin Head ...	1013·3	-1o	S'W	4	c	46	75	7	9	–	–	9	9	800	0	3
	Aldergrove ...	1011·9	+16	SW	3	c	43	97	7	8	–	–	9	9	800	1	3
19	Birr Castle ...	1014·3	+2	SSW	3	c	38	92	7	5	1	6	1	9+	2500	1	*
20	Valentia Obsy. †	1016·4	0	S	1	bc	38	92	8	5	–	–	4-6	4-6	2500	1	*
	Roches Point	1018·0	+4	S'W	2	c	43	85	8	5	1	–	4-6	1o	2500	1	2
		1019·2	-4	WSW	3	bc	42	85	8	–	7	5	0	4-6	–	1	4

PAST 24 HOURS.

District	Stations. (For heights see p. 4.)	Weather. 7h.–13h. 17th. (37)	Weather. 13h.–18h. 17th. (38)	Weather. 18h. 17th to 1h. 18th. (39)	Weather. 1h.–7h. 18th. (40)
1	London (Kew)	cbbc	bcbz$_o$	bbcm$_o$x	cm$_o$x
	Croydon ...	c$_c$m$_c$bcz$_o$	bccz$_o$	bcbz$_o$	bccm$_o$
	S. Farnborough	bbc	bccbc	bcbbcx	bcbxc
	Boscombe Down	b	bbcc$_c$b	bbcm$_c$cm$_c$	cm$_o$c
	Calshot (Sthmtn.)	cbcb	bbccbc	bcbwbcm$_c$	bcwm$_c$cm$_o$
	Lympne ...	cm$_c$bcz$_o$	bbcz$_o$	bc$_c$bm$_o$w	bccxm$_o$c
	Manston ...	cz$_o$dbcbz$_o$	bbcz$_o$	bcm$_o$	bccm$_o$
2	Shoeburyness ...	b$_c$cm$_c$b	bbccm$_o$	cm$_c$bm$_c$w	bm$_o$wcm$_o$
	Felixstowe ...	cl$_c$cbcb	b	bbcb	bbcm$_o$
	Gorleston ...	cpr$_o$bq	bbcbz$_o$	bcz$_o$	bccz$_o$x
	Mildenhall ...	cbcbm$_o$	bz$_o$	bbccm$_o$	bm$_c$bc
	Cranwell ...	bcbm$_c$m	bz$_c$bcz$_o$	bcm$_o$b$_c$c	c
3	Birmingham ...	bbc	bcb	bbc	bcc
	Upper Heyford	b	bcc	bcc	cm$_o$x
4	Ross-on-Wye	bbc	cbc	cbcc	c
5	Bristol ...	b	bbccbc	bccw	bcc
	Portland Bill ...	bcb	bc	bcc	c
	Plymouth ...	bbc	bccm$_o$	cbcwcm$_c$	cm$_o$
	The Lizard ...	bc	bc	bcc	c
	Scilly (St.Mary's)	bcc	cbc	bcc	c
	Guernsey ...	cbc	bc	bccw	cw
6	Pembroke ...	bcqbc	bc	cq	cq
7	Holyhead ...	bbc	bcc	c	c
	Chester(Sealand)				
8	Manchester ...	bbcm$_o$	bccz$_c$bc	bccz	c
10	Spurn Head ...	bcm$_o$mbc	bccbcm$_o$	bcm$_o$	bcm$_c$m$_o$
	Catterick ...	bcb	bbc	bcamw	cm$_o$o
	Tynemouth ...	b	bbc	bbcc	c
11	St Abbs Head	bc	bc	bcc	o
12	Leuchars ...	bm$_o$	bcm$_o$	bbc	cir$_o$
	Renfrew (Abbotsl.)	bxbq	bcqb	b@bcxc	c
	Eskdalemuir ...	bcbbc	bcpr$_o$	bcm$_o$xc	cpr$_c$m$_o$
	Point of Ayre...	bxb	bcpr$_o$c	cbcx	cpr$_o$c
13A	Tiree	phrbc	bc	c	oc
13B	Stornoway ...	bcpr$_o$c	cpr$_o$	bcc	crr
15	Dalwhinnie ...	bcpr$_c$pc	bccpr$_c$pc	bcbcc	cprrr
	Aberdeen ...	clsbc	bcc	*	cir
	Wick ...	b	b	bcz$_o$c	cz$_o$or$_o$
16	Lerwick ...	cphrs	c	c@	cr$_o$r
17	Blacksod Point	cphrq	cphs	cps$_o$	bcc
18	Malin Head ...	cbc	prcq	rRq	rrq
	Aldergrove ...	cprc	cprc	cpr$_o$c	c
19	Birr Castle ...	bxbcc	c	c	c
20	Valentia Obsy. †	bbcc	cbc	bc	bcc
	Roches Point	bbcc	c	c	cid$_o$
		bbc	bc	bcc	c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 8, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.

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

[3] Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE

7h Tuesday, 18th January 1938.

REPORTS from HEALTH RESORTS for January 17th 1938.

Districts	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature (°F). Min. 9h. 16th to 9h. 17th.	Temperature (°F). Max. 9h.—17h. 17th.	Rainfall (ins.). Night. 17h. 16th to 9h. 17th.	Rainfall (ins.). Day. 9h.—17h. 17th.	Sunshine (hrs.). Sunrise to Sunset. 17th.
1	Tunbridge W.	bcb	bc	42	46	6	—	5·7
	Bournemouth	b	b	40	48	2	—	5·8
	Ventnor ...	b	bbcz	41	45	3	—	6·1
	Southsea ...	b	b	42	47	3	—	6·0
	Bognor Regis	b	b	42	48	2	—	6·3
	Littlehampton	b	bbc	42	49	1	—	6·4
	Worthing ...	b	b	42	48	4	—	6·1
	Brighton ...	b	bbc	43	48	2	—	6·4
	Eastbourne† ...	b	bbc	43	52	3	—	6·1
	Hastings† ...	b	bbc	43	51	3	—	6·1
	Folkestone ...	cbcb	bbc	43	47	2	—	5·2
	Dover ...	cb	bbcm	43	47	3	—	5·6
	Deal	c₀ob	b	43	46	5	—	5·4
	Ramsgate ...	bc	bc	43	47	3	—	5·4
	Margate ...	bc	bc	42	45	3	—	5·3
2	Southend ...	b	b	42	49	2	—	6·4
	Clacton-on-Sea	cbc	bc	42	46	3	—	5·8
	Dovercourt ...	docb	bc	40	46	2	—	5·9
	Lowestoft ...	bzb	b	40	45	1	—	6·0
	Skegness ...	b	bbc	37	46	4	—	6·7
	Mablethorpe...	bcb	bc	36	45	5	—	6·1
	Cleethorpes ...	bc	bc	37	45	3	—	6·4
3	Leamington S.	bbc	bc	40	47	5	—	5·0
4	Cheltenham†	m₀bbc	bc	38	51	6	—	5·2
5	Bath	b	bbc	40	48	5	—	5·2
	Weymouth ...	b	b	41	49	1	—	6·9
	Jersey ...	rcbc	bc	46	49	3	—	5·6
	Torquay ...	wb	bcb	41	48	1	—	6·0
	Falmouth	b	c	42	49	3	—	5·2
	Penzance ...	b	bbcb	43	49	3	—	5·6
	St. Ives ...	b	c	38	45	—	—	4·2
	Bude... ...	bc	bccbc	44	48	5	—	4·5
	Ilfracombe ...	brcbc	bc	44	46	2	—	4·1
6	Aberystwyth	brbc	c	42	47	3	—	4·0
7	Llandudno ...	cbc	bcc	41	45	13	—	2·6
	Colwyn Bay...	bcc	bcb	41	45	5	—	2·3
	Rhyl	bc	bcc	41	45	7	—	2·8
8	Wallasey ...	bcb	bbc	41	45	3	—	4·0
	Southport ...	bbcp	bccbc	39	44	3	0·2	4·8
	Blackpool ...	bcom₀	bcobm₀	42	44	6	—	4·6
	Morecambe ...	bcchc	bbcc	36	44	6	—	4·1
9	Ilkley... ...	bcb	bbc	34	45	3	—	5·9
	Harrogate ...	b	b	35	44	3	—	5·8
10	Berwick-on-T.	b	b	34	43	2	—	5·9
11	Dunbar ...	bcxm₀	bcm₀	35	42	0·5	—	5·6
12	Troon... ...	bcpbc	cbpbc	36	46	1	0·3	3·1
	Douglas ...	bcir	bc	38	44	2	—	2·7

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

Barometer. Isobars are drawn for intervals of two millibars.
Wind, Weather Symbols. For explanation see opposite page.
Sea Disturbance. ~ Rough ≈ High.
Barometric Changes from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Scale 1:10,000,000 — Statute Miles.

Districts	Forecasts for the 24 hours commencing 12 noon, G.M.T. 18th January, 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate or fresh southwest wind; fair at first, occasional rain later; rather mild.
4 W. Midlands ... 5 S.W. England 6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands ...	South to southwest winds, gale at times; cloudy, occasional rain; rather mild.
10 N.E. England 11 S.E. Scotland	South to southwest winds, fresh at times; occasional rain later; rather mild.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	South to southwest winds, strong to gale, veering later; occasional rain; rather mild.

GENERAL INFERENCE.

A deep depression between Scotland and Iceland is moving northeast. Weather will be fair at first in the southeast but rain will extend eastwards to all districts later. Temperatures will be rather above average.

FURTHER OUTLOOK.

Unsettled and rather mild.

Times of issue of Gale Warnings.

South Cone hoisted 1515 17/1/38 in districts 17 & 20.
South Cone hoisted 1900 17/1/38 in districts 6, 7, 12, 13, 16 & 18.
South Cone hoisted 0840 18/1/38 in districts 5, 11, & 15.

Forecasts issued at 1015 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

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

Hours of observation:—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

TUESDAY, 18TH JANUARY,

1938.

Clarke's Projection. Scale 1·4 x 10⁷ along meridian at 55° N.

Statute Miles. 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather cock.

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS:— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 8/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The time of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 18th January, 1938.

No. 27816.

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

DISTRICT	STATIONS	Height above M.S.L. in feet. (1)	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	1020·3	+1·0	SW	2	b	37	85	6	-	-	1	0	Tr	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1020·5	+1·4	NW'N	2	b	34	85	6	-	-	1	0	1	-
	Manston ...	142	1019·9	+1·4	W	2	2_o	37	85	5	-	-	8	0	4-6	-
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1017·9	+1·4	SW'W	3	bc	35	92	6	-	-	8	0	2-3	-
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1020·3	+4	NW	2	c	43	92	7	4	7	-	7-8	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1019·8	-4	SSW	3	c	45	75	8	5	2	-	3	10	1500
	Scilly (St. Mary's)	163	1019·2	-1·6	S	4	c	44	75	8	5	3	-	4-6	9+	2500
	Guernsey ..	175	1021·0	0	-	0	c	38	92	7	-	3	-	0	9	-
6	Pembroke ...	142	1017·9	-4	SSW	5	q	46	65	8	5	2	-	7-8	9+	2500
7	Holyhead ...	26	1016·0	-8	SW'S	4	c	45	86	8	5	2	-	2-3	10	2500
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1016·8	+1·0	W	3	m	38	92	4	-	-	7	0	10	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1014·2	+·8	W	3	0	39	92	6	-	2	-	10	10	800
11	St Abbs Head ..	280	1012·0	+1·0	SW	4	bc	38	85	7	-	1	4	0	4-6	-
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1014·8	+·2	SW'W	2	c	42	92	8	-	7	-	0	10	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1005·7	-2·0	S	6	c	44	85	7	5	1	-	4-6	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1008·3	0	SW	2	c	34	97	8	5	1	8	2-3	7-8	2500
16	Lerwick ...	156	1007·3	+1·4	WNW	2	bc	35	75	8	5	-	-	4-6	4-6	1500
17	Blacksod Point	18	1006·3	-3·0	SW	7	ir	48	92	7	9	-	-	10	10	450
18	Malin Head ...	84	1008·7	-2·4	S	4	c	43	97	7	8	2	-	4-6	9	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1011·3	-1·4	S'E	4	0	48	85	8	5	-	-	10	10	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

DISTRICT	STATIONS	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1017·9	-1·4	SSE	2	Z_o	35	92	6	5	-	-	9+	9+	2500	2	*
	Croydon ...	1018·7	-1·4	SSW	4	Z_o	37	85	6	-	7	2	0	9+	-	1	*
	S. Farnborough	1018·0	-1·4	S'W	3	C	36	92	6	5	3	-	2-3	9	5700	1	*
	Boscombe Down	1017·8	-1·4	S'E	3	C	35	97	7	5	4	-	4-6	7-8	4000	1	*
	Calshot (Sthmtn.)	1018·5	*	SE	2	Z_o	42	92	6	5	3	-	2-3	9+	2500	1	1
	Lympne ...	1020·2	-·8	SW'S	2	C	36	85	7	-	3	-	0	9	-	1	§2
	Manston ...	1019·2	-1·0	SW	2	C	36	85	6	5	3	-	3	9	5700	1	*
2	Shoeburyness...	1018·7	-1·0	SW	1	C	38	92	6	1	3	-	1	9	4000	1	*
	Felixstowe ...	1018·7	-·8	SW	1	Z_o	37	92	5	-	3	8	0	4-6	-	1	2
	Gorleston ...	1017·7	-·4	S'W	3	C	36	85	6	-	1	-	0	9	-	1	2
	Mildenhall ...	1017·4	-1·0	SSW	2	C	35	92	7	-	7	6	0	9+	-	1	*
	Cranwell ...	1015·9	-1·8	SW	3	C	37	85	7	-	7	-	0	9+	-	1	*
3	Birmingham: ...	1015·8	-1·0	S	3	C	37	97	7	-	7	-	0	9+	-	1	*
	Upper Heyford	1017·7	-1·8	SSE	3	C	33	97	6	5	7	-	4-6	9	4000	3	*
4	Ross-on-Wye	1015·5	-2·4	SE	2	C	39	85	7	-	7	-	0	9+	-	1	*
5	Bristol ...	1016·6	-2·2	S	4	C	40	92	8	5	7	-	2-3	7-8	5700	1	*
	Portland Bill ...	1016·7	-1·2	SW	3	C	47	85	7	4	-	-	1·0	1·0	2500	1	3
	Plymouth ...	1016·2	-2·8	S	5	C	47	75	8	5	9	-	9	9+	2500	1	2
	The Lizard ...	1015·2	-2·4	SSW	5	C	47	75	8	8	2	-	7-8	9+	1500	1	3
	Scilly (St. Mary's)	1013·5	-3·4	S'W	5	C	48	75	8	5	-	-	1·0	1·0	1500	1	3
	Guernsey ..	1019·3	-1·2	SSE	2	C	44	85	8	1	3	-	2-3	9	2500	1	3
6	Pembroke ...	1012·3	-3·2	SSW	6	q	47	85	8	8	6	-	7-8	9+	2500	1	4
7	Holyhead ...	1009·6	-3·6	S	5	C	45	86	8	5	3	8	1	10	2500	1	3
	Chester(Sealand)	1013·2	-3·2	SSE	4	C	40	85	7	5	3	-	7-8	9+	2500	1	*
8	Manchester ...	1013·9	-3·0	S'E	3	Z_o	39	85	6	5	7	6	4-6	7-8	5700	1	*
10	Spurn Head ...	1015·1	-·6	SW	3	0	38	97	6	5	-	-	1·0	1·0	2500	0	2
	Catterick ...	1012·3	-1·8	SSE	3	C	40	85	7	5	7	-	2-3	9+	4000	1	*
	Tynemouth ...	1010·9	-1·4	S	2	0	42	85	6	5	-	-	1·0	1·0	800	1	2
11	St Abbs Head ..	1008·3	-2·0	SW	4	C	40	92	8	5	2	-	7-8	1·0	2500	0	3
	Leuchars ...	1007·0	-3·4	S	2	C	40	85	8	5	3	-	9	9+	4000	1	*
12	Renfrew (Abbotsl.)	1006·6	-4·0	SSE	2	Z_o	42	85	6	5	2	-	4-6	1·0	2500	1	*
	Eskdalemuir ...	1008·6	-3·2	S'E	4	Gpx	39	92	6	5	2	-	9+	1·0	800	1	*
	Point of Ayre...	1008·9	-3·2	SW	4	C	44	75	7	5	7	-	2-3	1·0	1500	0	3
13A	Tiree	998·0	-4·6	SSW	7	rr	43	97	7	-	2	-	1·0	1·0	1500	1	*
13B	Stornoway ...	997·1	-5·0	S	8	pc	45	85	6	5	2	-	7-8	1·0	2500	1	4
15	Dalwhinnie ...	1004·6	-4·0	S	4	C	36	85	6	5	-	-	1·0	1·0	2500	4	*
	Aberdeen ...	1006·7	-2·2	SW	3	ir	39	85	7	-	2	-	0	1·0	-	3	1
	Wick ...	1003·0	-3·0	SSW	5	r.r.	42	97	8	5	2	-	7-8	1·0	800	1	2
16	Lerwick ...	1005·3	-1·6	S	3	C	37	85	8	5	2	-	7-8	1·0	800	1	*
17	Blacksod Point	997·5	-5·0	SW	7	rr	48	92	7	6	-	-	1·0	1·0	450	1	5
18	Malin Head ...	999·2	-5·0	S'E	6	C	44	97	7	8	2	-	4-6	9+	800	1	3
	Aldergrove ...	1005·0	-4·4	S'E	5	C	43	75	8	5	-	-	1·0	1·0	2500	1	*
19	Birr Castle ...	1005·4	-3·2	WSW	4	C	46	75	8	8	-	-	9	9	1500	1	*
20	Valentia Obsy. †	1004·2	-3·0	SSW	6	id.	49	85	7	5	-	-	1·0	1·0	1500	1	4
	Roches Point	1008·5	-2·4	SSW	6	C	48	85	8	6	2	-	4-6	9+	1500	1	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 Hrs. (36)
1	London (Kew)	46	34	22	-	Tr	5·6
	Croydon ...	47	34	28	Tr	-	5·3
	S. Farnborough	47	30	23	-	Tr	6·2
	Boscombe Down	45	32	28	-	-	5·9
	Calshot (Sthmtn.)	46	34	32	-	-	6·3
	Lympne ...	50	33	26	0·6	-	5·5
	Manston ...	46	33	29	1	-	5·4
2	Shoeburyness...	47	36	28	0·2	-	6·1
	Felixstowe ...	45	36	31	0·3	-	6·0
	Gorleston ...	45	35	32	0·2	-	5·7
	Mildenhall ...	45	33	28	-	-	6·8
	Cranwell ...	45	35	31	-	-	6·0
3	Birmingham: ...	44	37	33	-	-	3·9
	Upper Heyford	45	31	23	-	-	*
4	Ross-on-Wye	47	37	27	-	-	5·4
5	Bristol ...	46	35	26	-	-	5·1
	Portland Bill ...	49	40	*	-	-	*
	Plymouth ...	47	36	31	-	-	5·5
	The Lizard ...	49	40	*	-	-	5·6
	Scilly (St. Mary's)	47	40	*	-	-	4·7
	Guernsey ..	49	38	32	-	-	6·4
6	Pembroke ...	46	42	*	-	-	3·9
7	Holyhead ...	46	43	39	-	-	3·8
	Chester(Sealand)	46	38	31	-	-	3·6
8	Manchester ...	45	34	29	-	-	2·5
10	Spurn Head ...	43	37	*	-	-	6·5
	Catterick ...	44	38	31	-	-	6·2
	Tynemouth ...	44	38	33	-	-	6·1
11	St Abbs Head ..	42	35	*	-	Tr	*
	Leuchars ...	43	32	27	-	-	6·0
12	Renfrew (Abbotsl.)	44	32	25	Tr	1	3·9
	Eskdalemuir ...	41	34	31	0·2	Tr	4·9
	Point of Ayre...	45	40	*	1	-	3·3
13A	Tiree	44	36	34	0·2	3	1·8
13B	Stornoway ...	42	36	*	1	3	3·6
15	Dalwhinnie ...	37	31	27	0·4	1	3·4
	Aberdeen ...	40	34	27	-	Tr	5·1
	Wick ...	42	32	25	Tr	1	3·9
16	Lerwick ...	41	34	31	0·2	Tr	4·9
17	Blacksod Point	46	40	*	Tr	3	*
18	Malin Head ...	45	40	*	2	0·5	1·2
	Aldergrove ...	42	37	34	-	-	2·4
19	Birr Castle ...	43	37	*	-	-	1·2
20	Valentia Obsy. †	49	43	40	-	Tr	1·2
	Roches Point	46	42	*	-	-	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
KEW	18	cbbc	bcbc$_o$	bbcm$_x$	46	34	22	-	Tr	5·6	•	•	4
CROYDON	217	cr$_m$bc$_z$	bccz$_o$	bccm$_D$	47	34	28	Tr	-	5·3	•	•	5
GREENWICH (Royal Observatory)...	149	bbcm$_o$	bcbm$_o$	bxcm$_o$	45	34	27	-	Tr	4·2	66	89	5
CITY (Bunhill Row)	—	•	•	•	•	•	•	•	•	4·3	•	•	•
WESTMINSTER (St. James' Park) ...	27	•	•	•	48	34	29	-	-	4·2	69	88	•
REGENTS PK. (Botanic Gardens)‡...	168	•	•	•	46	35	26	-	-	4·6	69	91	•
CAMDEN SQUARE	110	b	b	•	47	36	29	-	-	•	•	85	•
KENSINGTON	80	b	bc	•	47	35	25	-	-	3·3	At 18h. 68	87	•
HAMPSTEAD OBSERVATORY	450	bcx	bc	bc	45	34	25	-	-	6·3	•	91	•

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	20-21h. 17th.	<0·3	3-4hr 18th

KEW OBSERVATORY.	Max.	Time.	Min.	Time.
	0·4	21h. 17th.	<0·1	7h 17th

FOREIGN OBSERVATIONS.

STATIONS	18h. G.M.T. January 17th. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. January 18th. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS	1017·7	WNW	2	b	41	1022·1	E	1	bcf	34
BRUSSELS	1015·0	W	3	b	39	1020·1	SW	3	m	36
BERLIN	999·6	WNW	4	c	41	1010·2	W	5	c	39
ZURICH	1016·7	SW	4	rr	45	1023·6	N	1	c	39
ROME	1018·7	E	2	bc	50	1016·3	E	2	c	48

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
55	34	2	-
54	34	5	-
50	39	3	Tr
46	37	18	6
*	*	-	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 ,,	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.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S. Director.

‡ 1 hr. observations are from Valentia W/T Station.

† Maximum and Minimum Temperatures are for the 24 hours ending 8 h.

§ Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 19th January, 1938.
No. 27817.

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

District	Stations. (For sights 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. (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)	1013·2	-32	S'W	4	2o	45	75	6	5	7	7	7-8	9+	2500
	Croydon ...	1014·4	-38	SSW	4	c	44	75	6	5	7	-	1	9+	2500
	S. Farnborough	1013·3	-32	SSW	4	c	44	85	6	5	7	-	4-6	9+	1500
	Boscombe Down	1012·4	-36	S'W	6	c	45	85	7	5	7	-	4-6	9+	1500
	Calshot (Sthmtn.)	1014·4	-32	S	5	c	46	85	7	5	7	-	7-8	9+	1500
	Lympne ...	1015·6	-30	SSW	4	bc	43	75	7	5	7	6	2-3	2-3	2500
	Manston ...	1015·5	-26	S	5	c	44	75	7	5	7	-	4-6	9	1500
2	Shoeburyness ...	1014·5	-26	S'W	4	c	44	85	6	-	7	-	0	9+	-
	Felixstowe ...	1014·8	-30	S	4	2o	43	85	6	5	7	-	7-8	9+	4000
	Gorleston ...	1014·0	-26	S'E	4	c	41	75	6	-	1	-	0	10	-
	Mildenhall ...	1012·4	-36	S	4	2o	42	85	5	-	7	-	0	9+	-
	Cranwell ...	1010·3	-36	SSE	4	c	41	85	7	5	7	1	4-6	9+	2500
3	Birmingham ...	1008·6	-42	SSW	5	c	43	75	6	5	7	-	4-6	10	1500
	Upper Heyford	1011·8	-38	S	4	c	44	85	7	5	7	8	7-8	9	800
4	Ross-on-Wye	1003·3	-40	SW'S	4	c	45	75	7	5	1	-	9+	10	2500
5	Bristol ...	1011·5	-26	S	3	c	46	85	8	5	-	-	10	10	1500
	Portland Bill ...	1011·7	-26	SSW	4	o	46	92	7	5	-	-	10	10	1500
	Plymouth ...	1010·6	-36	S	4	d,d,	46	97	5	6	2	-	9+	10	450
	The Lizard ...	1008·1	-30	SW'S	6	ir,	50	92	5	5	-	-	10	10	800
	Scilly (St. Mary's)	1007·6	-38	SSW	6	ir,	50	97	6	9	2	-	7-8	10	800
	Guernsey ...	1014·9	-34	S'E	4	c	46	92	7	5	2	-	4-6	10	2500
6	Pembroke ...	1005·9	-28	SW'S	6	dr	48	97	6	5	-	-	10	10	1500
7	Holyhead ...	1002·4	-40	S'W	5	c/r	47	92	7	6	2	-	7-8	10	1500
	Chester (Sealand)	1006·2	-42	SE'S	3	c	45	75	7	5	2	-	7-8	10	2500
8	Manchester ...	1007·2	-42	SSE	3	c	43	75	7	5	-	-	10	10	2500
10	Spurn Head ...	1008·9	-34	S'W	5	c	40	92	6	5	1	-	4-6	9+	4000
	Catterick ...	1005·6	-42	S	4	2o	43	65	6	5	7	6	7-8	9+	2500
	Tynemouth ...	1005·0	-36	SSE	3	m	40	85	4	5	2	-	7-8	9+	800
11	St Abbs Head ...	1000·8	-40	SSE	3	c	41	85	7	9	2	-	7-8	10	1500
	Leuchars ...	999·8	-46	S	4	ir,	42	85	6	5	2	-	9	10	1500
12	Renfrew (Abbotsl.)	998·3	-46	S'E	3	id,	46	85	6	5	-	-	10	10	1500
	Eskdalemuir ...	1000·5	-40	SSW	7	r,r,	40	92	7	-	2	-	10	10	450
	Point of Ayre ...	1001·6	-52	SW	6	c	48	75	7	8	2	-	7-8	10	800
13A	Tiree	983·5	-48	SSW	7	ir	45	97	6	-	2	-	10	10	800
13B	Stornoway ...	986·9	-50	S	9	rr	45	92	6	5	2	-	7-8	10	1500
15	Dalwhinnie ...	995·8	-50	S	6	RR	38	92	7	6	-	-	10	10	2500
	Aberdeen ...	999·1	-46	S	4	c/r	40	75	6	6	2	-	9	10	800
	Wick ...	995·5	-40	SE	8	ir	42	92	8	5	2	-	7-8	10	1500
16	Lerwick ...	998·1	-46	S	5	ir	42	85	8	6	2	-	7-8	10	800
17	Blacksod Point	992·3	-22	S	6	c	49	97	7	9	-	-	10	10	450
18	Malin Head ...	990·6	-38	S	6	rr	45	97	6	6	2	-	4-6	10	800
	Aldergrove ...	996·6	-48	S	5	c/r	46	85	7	5	2	-	7-8	10	1500
19	Pirr Castle ...	998·0	-22	S'W	4	ir,	48	85	8	6	2	-	4-6	10	1500
20	Valentia Obsy. †	997·2	-30	SSW	7	q/r	51	92	7	6	-	-	10	10	800
	Roches Point	1000·8	-34	SW	6	dd	48	97	5	5	-	-	10	10	220

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. (20)	%Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1007·5	-36	S	3	2o	44	92	6	5	-	-	10	10	1500	1	*
	Croydon ...	1008·3	-38	SSW	4	id,	43	97	6	5	-	-	10	10	450	1	*
	S. Farnborough	1007·5	-24	S'W	4	d,d,	44	97	5	6	2	-	7-8	10	450	1	*
	Boscombe Down	1006·5	-30	S	4	df	45	97	3	-	2	-	10	10	<150	1	*
	Calshot (Sthmtn.)	1003·0	-28	S	5	id,	47	97	6	6	-	-	10	10	450	1	2
	Lympne ...	1010·4	-34	S'W	5	c	43	85	7	5	2	-	9	10	800	1	5
	Manston ...	1009·9	-30	SSW	5	c	44	85	7	5	-	-	10	10	1500	1	*
2	Shoeburyness ...	1008·5	-40	S	6	c	44	85	7	5	7	-	7-8	10	4000	1	*
	Felixstowe ...	1008·5	-44	S	6	c	43	85	7	5	-	-	10	10	2500	1	4
	Gorleston ...	1007·6	-28	S'E	5	c	43	75	6	8	-	-	10	10	2500	1	3
	Mildenhall ...	1006·4	-34	S	4	2o	44	75	6	5	-	-	10	10	2500	1	*
	Cranwell ...	1004·4	-28	SSE	3	id,	43	85	7	5	-	-	10	10	2500	1	*
3	Birmingham ...	1005·3	-26	SSW	4	c	45	92	6	-	7	-	0	10	-	1	*
	Upper Heyford	1005·8	-30	S	4	r,r,	43	97	5	6	2	-	9+	10	450	1	*
4	Ross-on-Wye	1003·6	-30	SSW	3	o	49	85	6	5	-	-	10	10	1500	1	*
5	Bristol ...	1004·9	-36	S	3	c/d	49	97	7	-	2	-	9+	9+	800	1	*
	Portland Bill ...	1006·3	-32	SW	5	dd	49	92	6	5	-	-	10	10	1500	1	4
	Plymouth ...	1006·1	-10	SW	5	c/d	50	92	6	6	2	-	9	10	450	1	3
	The Lizard ...	1005·0	-12	S'W	6	ir,	49	92	5	5	-	-	10	10	800	1	4
	Scilly (St. Mary's)	1004·4	-18	SW	6	c/r	50	97	6	5	-	-	10	10	1500	1	4
	Guernsey ...	1010·4	-32	SSW	3	o	50	92	6	5	-	-	10	10	2500	1	3
6	Pembroke ...	1000·5	-26	SW'W	6	rr	48	97	6	5	2	-	9	10	1500	1	5
7	Holyhead ...	997·1	-22	S'W	5	rr	47	97	6	6	2	-	7-8	10	450	1	3
	Chester (Sealand)	1000·0	-32	SE	2	2o	45	85	6	5	-	-	10	10	2500	1	*
8	Manchester ...	1000·2	-42	S'E	4	c	46	85	7	5	7	-	2-3	10	2500	1	*
10	Spurn Head ...	1003·2	-26	S	4	o	43	85	7	5	-	-	10	10	2500	0	3
	Catterick ...	999·1	-38	SSE	2	2o	42	85	6	5	-	-	10	10	1500	1	*
	Tynemouth ...	997·8	-40	SSW	4	c	43	85	6	8	-	-	9	9	1500	1	2
11	St Abbs Head ...	999·9	-4	SSW	5	ir,	41	97	6	5	2	-	7-8	10	1500	1	4
	Leuchars ...	997·7	-38	S	2	id,	44	92	6	5	2	-	7-8	10	1500	1	*
12	Renfrew (Abbotsl.)	997·0	-42	SSW	5	rr	47	97	6	6	2	-	4-6	10	800	1	*
	Eskdalemuir ...	994·1	-34	SSW	7	rr	43	97	6	-	2	-	10	10	220	1	*
	Point of Ayre ...	994·4	-38	SW'W	5	rr	47	92	6	6	1	-	7-8	10	800	1	4
13A	Tiree	986·4	-14	SW'S	4	c	48	97	7	-	2	-	9+	10	1500	1	5
13B	Stornoway ...	983·2	-8	S	7	r,r,	48	92	7	5	2	-	7-8	10	1500	1	4
15	Dalwhinnie ...	989·9	-18	S	3	rr	40	92	6	6	-	-	10	10	1500	1	*
	Aberdeen ...	990·9	-48	SSW	5	ir,	43	92	6	6	2	-	9	10	800	1	5
	Wick ...	987·9	-30	S	7	c/r	43	97	7	5	2	-	7-8	9+	1500	1	4
16	Lerwick ...	990·3	-30	SSE	8	rr	42	97	6	6	2	-	4-6	10	800	1	*
17	Blacksod Point	989·1	-20	SW	7	q	49	85	7	9	-	-	10	10	450	1	6
18	Malin Head ...	987·3	-22	S'W	4	bc	47	97	7	4	-	1	2-3	4-6	800	1	3
	Aldergrove ...	991·5	-22	S'W	4	bc	47	92	7	5	-	-	4-6	4-6	1500	1	*
19	Pirr Castle ...	994·7	-6	S'W	2	pr	49	85	8	9	-	-	7-8	7-8	1500	1	*
20	Valentia Obsy. †	997·3	+12	SW'W	5	pr	49	85	8	9	-	-	9	9	1500	1	4
	Roches Point	998·9	-4	W	4	bc	51	85	8	5	-	-	2-3	2-3	1500	1	4

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 18th (37)	Weather. 13h.—18h. 18th (38)	Weather. 18h. 18th to 1h. 19th (39)	Weather. 1h.—7h. 19th (40)
1	London (Kew)	cmcz,	cz,cm,	cid,cr	cm,
	Croydon ...	cm,	cd,d,	ccd,d,m,	cd,d,cbc
	S. Farnborough	cm,mrmc	cm,d,d,o	od,d,r,bc	bccpr,
	Boscombe Down	ccm,c	cd,ddf	cdfd,r,bc	bbcpr
	Calshot (Sthmtn.)	cm,c	d,d,c	cr,r,m,	cir,pr
	Lympne ...	cm,c	c	offdd,d,	fd, bmw
	Manston ...	cm,c	c	cod,d,m,	cd,m,b
2	Shoeburyness ...	m,c	ir,m,c	cd,d,m,	cidmbm
	Felixstowe ...	bcm,cm,	cm,c	cir,c	ir,cbcb
	Gorleston ...	cz,z,	cz,9	coid,	or,bcb
	Mildenhall ...	cm,	cm,r,cm,	cd,d,cmir,	ibbc
	Cranwell ...	c	c	cid,d,d,	cpr,bc
3	Birmingham ...	cbcc	c	or,bc	bcb
	Upper Heyford	cm,	cd,r,r,	cr,r,r	cbccm,
4	Ross-on-Wye	cm,c	oco	p,c	cbc
5	Bristol ...	c	cd,d,	crir,rrq	cqr,bc
	Portland Bill ...	co	odd	rrbc	oPR
	Plymouth ...	cd,d,m,	od,d,did,c	rrDDbc	bcb,cPRb
	The Lizard ...	cmir,	omir,	ircbc	bcprq
	Scilly (St. Mary's)	cd,r,	or,dr,	op,bc	bcp,q
	Guernsey ...	c	co	or,rr	cirq
6	Pembroke ...	cqidrm,c	qm,idrrc	bqbc	bcq
7	Holyhead ...	ir,c	dd,rrc	d,r,m,b	bc,b
	Chester (Sealand)	cm,z,	cr,m,	cr,d,m,bcpr,	bcpr,
8	Manchester ...	cm,z,c	ccz,m,	cr,r,	cprpr,bc
10	Spurn Head ...	oc	co	opr,	bcpc
	Catterick ...	ccm,	cm,	coRbc	bc
	Tynemouth ...	m	cmc	coid	bc
11	St Abbs Head ...	c	ir,c	cpr	cq
	Leuchars ...	ccir,m,	cr,d,d,m,	cd,r,qc	ccq
12	Renfrew (Abbotsl.)	cm,ir,d,d,	cm,id,rr	cm,r,r,bc	bcq,pr
	Eskdalemuir ...	cor,r,	or,r,rr	orrrm,	circ
	Point of Ayre ...	c	cid,r	rrbcc	bc
13A	Tiree	prrirr	oirr,	crrpr	bcpr
13B	Stornoway ...	cprRR	crrr,r,	r,r,rrc	cpr,r,
15	Dalwhinnie ...	crr	cRr *	cRrir	
	Aberdeen ...	oirz,	cir,	cir,rz,	cz,cq
	Wick ...	crrir	cir	c	crrc
16	Lerwick ...	cprir	crrm,	crrm,	crrir
17	Blacksod Point	Drq	PRcq	PRcq	prcq
18	Malin Head ...	cir,	cir,cbc	cprbccphrq	bccpr
	Aldergrove ...	c,fc.	rrm,ir,bc	bccr,bc	bcb
19	Pirr Castle ...	clr	clrpr	cpr	cprbc
20	Valentia Obsy. †	rrrrrc	cbcprpr,	cpr,qc	cpr,qc
	Roches Point	codd	ddd,bc	pr,bc	bcb

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.

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

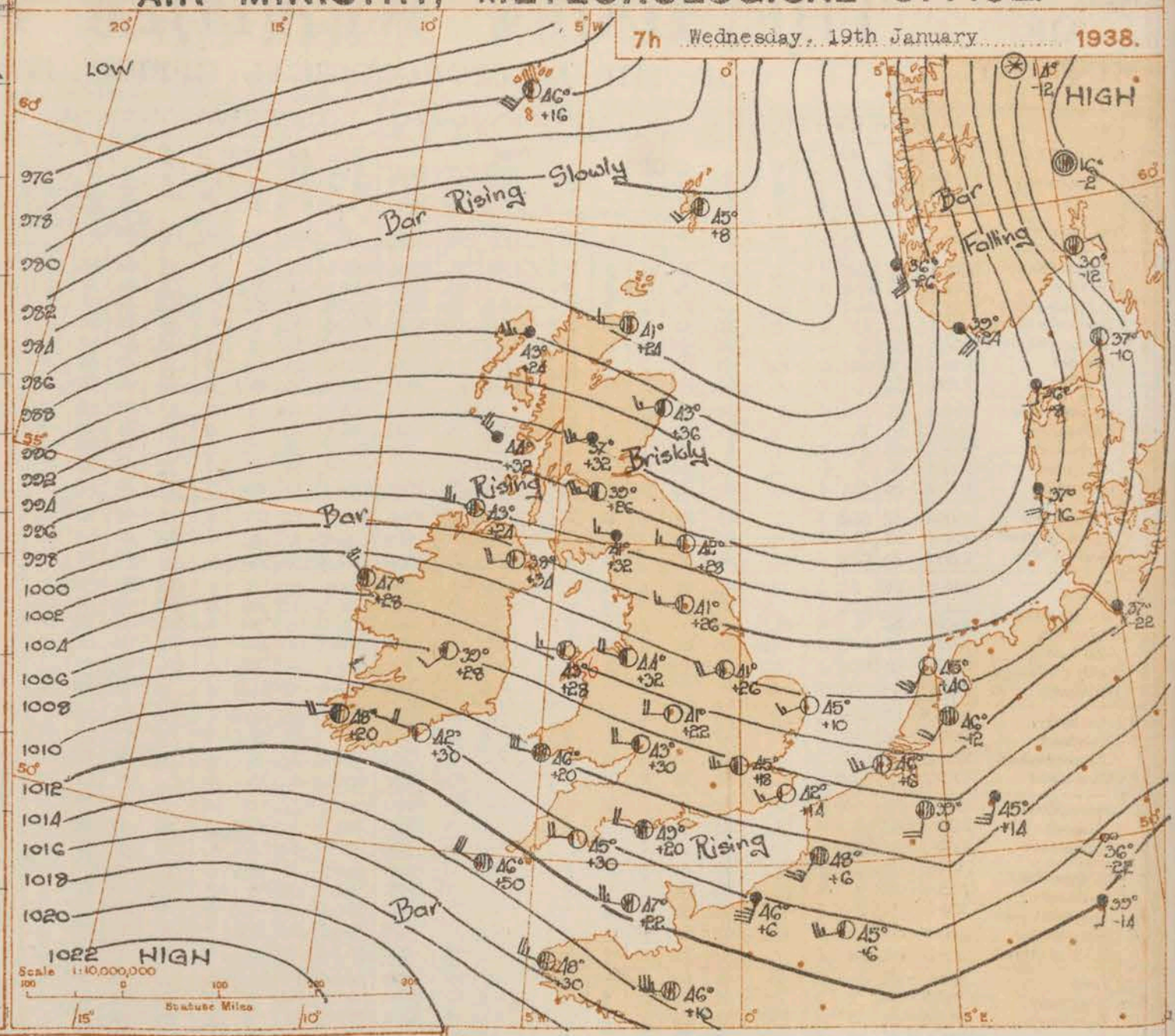
† See disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 18th January 1938.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature (°F.) Min. 9h. 17th to 9h. 18th	Temperature (°F.) Max. 9h.—17h. 18th	Rainfall (mm.) Night. 17h. 17th to 9h. 18th	Rainfall (mm.) Day. 9h.—17h. 18th	Sunshine (hrs.) Sunrise to Sunset. 18th
1	Tunbridge W.	oc	co	29	45	–	–	0.0
	Bournemouth	co	odo	36	47	–	Trace	0.0
	Ventnor ...	oc	coum	38	46	–	–	0.1
	Southsea ...	c	cod.o	36	46	–	Trace	0.0
	Bognor Regis	c	bccd.	35	45	–	Trace	0.2
	Littlehampton	c	co	32	45	–	–	0.4
	Worthing ...	c	bcco	34	47	–	–	0.4
	Brighton ...	bc	c	35	47	–	–	0.3
	Eastbourne† ...	o	oco	36	47	–	–	0.2
	Hastings† ...	c	bcco	35	46	–	–	0.3
	Folkestone ..	co	oco	35	46	–	–	0.0
	Dover ...	c	co	36	47	–	–	0.0
	Deal	oco	o	36	46	–	–	0.1
	Ramsgate ...	bcc	c	38	45	–	–	0.2
	Margate ...	c	c	36	45	–	–	0.0
2	Southend ...	co	co	36	45	–	–	0.1
	Clacton-on-Sea	c	co	35	43	–	–	0.1
	Dovercourt ...	bc	bce	37	44	–	–	0.2
	Lowestoft ...	bcc	c	34	44	–	–	0.0
	Skegness ...	cp	coc	34	43	–	–	0.0
	Mablethorpe...	cbcc	bcc	33	45	Trace	–	0.0
	Cleethorpes ...	c	bcc	36	43	–	–	0.1
3	Leamington S.	c	o	34	46	–	–	0.2
4	Cheltenham†	c	co	33	46	–	–	0.1
5	Bath	c	cd	35	48	–	0.3	0.0
	Weymouth ...	c	cd.m	35	49	–	Trace	0.0
	Jersey ...	cbcc	cdc	43	48	–	Trace	0.3
	Torquay ...	wco	oddo	36	51	–	0.5	0.0
	Falmouth	ogddq	oqrro	36	50	–	2	0.0
	Penzance ...	ccd.	od.	37	51	–	1	0.0
	St. Ives ...	d	d	39	48	–	2	0.0
	Bude... ...	c	omr	34	49	–	Trace	0.0
	Ilfracombe ...	coc	codr	39	51	–	Trace	0.0
6	Aberystwyth	c	cdd	41	49	–	1	0.0
7	Llandudno ...	c	c	42	50	–	–	0.2
	Colwyn Bay...	c	cpo	41	48	–	Trace	0.0
	Rhyl	c	cr.	38	50	–	Trace	0.0
8	Wallasey ...	c	c	39	50	–	–	0.0
	Southport ...	co	coc	39	48	–	–	0.2
	Blackpool ...	cm.o	omcom	39	47	Trace	–	0.0
	Morecambe ...	c	co	38	45	–	–	0.0
9	Ilkley... ...	ocbc	c	36	45	–	–	0.2
	Harrogate ...	cbc	bbcc	36	44	–	–	0.3
10	Berwick-on-T.	o	oc	35	44	Trace	–	0.0
11	Dunbar ...	cm.	cp.m	35	45	–	Trace	0.0
12	Troon... ...	coco	rorro	39	44	–	1	0.0
	Douglas ...	clc	cirq	39	47	Trace	1	0.0

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 19th January, 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate or fresh west to southwest winds; fair today, occasional rain tomorrow; rather mild.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Fresh or strong west to southwest winds, gale at times later; fair at first, occasional rain later; rather mild.
7 North Wales ... 8 N.W. England 9 N. Midlands ...	Fresh or strong west to southwest winds, increasing to gale later; fair at first, occasional rain later; rather mild.
10 N.E. England 11 S.E. Scotland	Fresh or strong west to southwest winds; fair today, occasional rain tomorrow; rather mild.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind southwest to south, increasing to gale later, severe at times; fair at first, rain later; rather mild.

GENERAL INFERENCE.

A deepening depression in Mid Atlantic is moving rather quickly northeast. Weather will be fair at first in most areas but rain will spread from the west later with renewed gales, severe locally in the western and northern areas.

FURTHER OUTLOOK.

Weather continuing unsettled.

Forecasts issued at 1020 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway W.C.2. 9.330/3398. m.8020. 6.4613. Gp.648. 25/11/37

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

Hours of observation:—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

WEDNESDAY, 19TH JANUARY

1938.

Clarke's Projection Scale 1 : 4 x 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—◯

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. ✱Sleet. △Hail. ≡Fog. ≡Mist. ⓣThunder. ⓣThunderstorm. ∞Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 19th January, 1938.
No. 27817.

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)	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	1003·6	-12	WSW	4	dr	49	92	7	6	2	-	7-8	10	1500
	S. Farnborough	228	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1004·8	-18	SW'S	5	dF	47	97	1	-	-	-	10	10	<150
	Manston ...	142	1003·6	-24	SSW	5	d.d.	48	97	6	6	-	-	10	10	450
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1001·5	-26	S	4	id.	45	92	6	6	-	-	10	10	1500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Rose-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1005·0	+6	W	4	b	49	97	7	-	-	-	0	0	-
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1007·4	+14	W	5	bc	49	92	7	4	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	1006·4	+6	W	6	bc	49	92	8	4	4	-	2-3	4-6	2500
	Guernsey ..	175	1009·0	0	WSW	4	C	50	97	6	8	-	-	7-8	10	2500
6	Pembroke ...	142	1001·6	+12	W'N	6	q	49	75	8	5	-	-	2-3	2-3	4000
7	Holyhead ...	26	997·8	+22	WNW	4	bc	46	85	8	1	3	-	4-6	4-6	2500
	Chester(Sealand)	16	*	*	W'S	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	997·6	-10	SW'S	4	bc	45	97	7	-	-	5	0	4-6	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	992·4	-6	SW	3	bc/d	47	92	6	2	-	-	4-6	4-6	1500
11	St Abbs Head .	280	989·5	-8	SW	5	c/pr	46	92	8	8	6	9	4-6	7-8	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	994·4	+16	W'N	5	C	47	85	8	4	7	-	4-6	9	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	983·7	+12	WSW	4	c/r	43	85	7	5	7	-	4-6	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	984·2	-10	SW	4	C	45	92	8	5	9	-	4-6	7-8	1500
16	Lerwick ...	156	984·7	-12	S	6	ir	45	97	6	6	2	-	7-8	10	800
17	Blacksod Point	18	997·4	+28	NW	6	q	44	75	8	9	-	-	4-6	4-6	1500
18	Malin Head ...	84	991·2	+56	W	5	C	44	92	7	3	-	4	4-6	7-8	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1003·4	+14	NW	C	bc/pr	46	85	7	9	-	-	4-6	4-6	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 19th 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)	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)
1005·9	+16	SW'W	3	z_o	45	85	6	5	7	8	2-3	9	1500	1	*
1005·8	+18	W'S	5	c	45	85	7	-	4	2	0	7-8	-	1	*
1006·1	+14	WSW	4	c/pr	44	85	7	-	7	-	0	7-8	-	1	*
1006·3	+14	W'N	4	bc	42	85	7	-	3	-	0	4-6	-	1	*
1007·0	+10	WSW	3	c/pr	45	92	8	8	7	-	2-3	7-8	1500	1	2
1006·5	+14	WSW	3	b	42	97	6	-	-	-	0	0	-	1	§3
1004·9	+14	WSW	3	b	44	83	7	-	3	-	0	Tr	-	1	*
1005·5	+16	WSW	2	b	44	92	6	1	-	3	Tr	1	2500	1	*
1003·6	+20	SW'W	3	b	45	86	7	-	-	-	0	0	-	1	2
1001·8	+10	SW'W	3	b	45	85	7	-	-	-	0	0	-	1	3
1002·9	+18	WSW	5	bc	43	85	7	5	-	-	4-6	4-6	4000	1	*
1002·0	+26	WSW	4	bc	41	85	7	5	4	-	4-6	4-6	2500	1	*
1004·8	+22	W	4	b	41	75	8	5	-	-	1	1	2500	1	*
1004·7	+20	W'S	3	z_o	41	85	6	-	4	2	0	7-8	-	1	*
1006·1	+30	W	4	bc	43	75	8	7	-	-	2-3	2-3	2500	1	*
1007·1	+28	W	3	bc	41	92	7	5	-	-	2-3	2-3	2500	1	*
1008·7	+20	WNW	4	c	49	75	8	5	2	-	7-8	10	2500	1	4
1010·3	+30	W	4	b	45	85	8	3	-	3	1	1	1500	1	2
1012·2	+34	NW'W	6	q	47	75	8	8	-	-	4-6	4-6	2500	1	3
1013·0	+50	NW'W	6	q	46	75	8	2	-	-	2-3	2-3	2500	1	4
1010·9	+22	W'N	5	C	47	85	7	8	-	-	7-8	7-8	2500	1	4
1007·6	+20	WNW	6	q	46	75	8	8	-	-	4-6	4-6	2500	1	4
1004·0	+28	W	6§	bc	46	75	8	1	8	-	1	4-6	2500	1	3
1003·2	+32	W'N	4	bc	44	65	7	-	3	-	0	2-3	-	1	*
1002·4	+22	W'S	5	bc	43	85	7	8	3	-	4-6	4-6	2500	1	*
999·4	+14	W	5	bc	43	85	6	-	4	3	0	4-6	-	0	4
998·5	+26	WSW	3	bc	41	75	8	5	4	9	1	4-6	2500	1	*
996·5	+28	W	3	bc	42	85	7	8	-	-	4-6	4-6	1500	1	2
992·2	+14	W	5	c	41	85	8	8	7	-	4-6	7-8	2500	0	3
992·6	+26	WSW	4	c	40	85	9	5	7	1	2-3	7-8	4000	1	*
996·2	+32	W	3	pr.	41	85	6	3	6	-	4-6	7-8	2500	1	*
996·8	+26	W'S	5	c/r	39	92	7	5	1	-	9+	10	1500	2	*
1000·2	+28	WNW	6	bc	43	75	8	2	4	-	Tr	2-3	2500	0	4
995·0	+32	NW	5	pr.	44	75	8	8	-	-	7-8	7-8	1500	1	*
990·0	+24	WSW	5	r.r.	43	92	7	8	2	-	7-8	10	2500	1	3
993·1	+32	WSW	5	ir	37	85	6	8	6	-	7-8	9+	1500	1	*
990·2	+36	W'S	3	c	43	75	7	-	7	-	0	10	-	1	2
987·3	+24	W	3	c	41	97	8	5	1	-	4-6	7-8	1500	1	2
985·3	+8	SW	4	c/r	45	97	7	8	2	-	7-8	10	800	1	*
1003·4	+28	NW	5	c	47	65	7	9	-	-	10	10	800	1	5
997·3	+24	W	5	bc/pr	43	97	7	9	-	-	4-6	4-6	800	1	4
1000·7	+34	WSW	4	bc	38	85	7	5	4	-	1	2-3	4000	1	*
1006·2	+28	SW	2	bc	39	85	8	5	-	-	2-3	2-3	2500	1	*
1010·9	+20	WSW	4	c/pr	48	75	7	5	-	-	9	9	2500	1	3
1010·5	+30	WNW	4	b	42	85	8	-	4	-	0	1	-	1	4

PAST 24 HOURS.

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 18th Hrs. (36)
45	44	41	-	0·3	0·0
45	43	42	Tr	1	0·0
44	42	36	Tr	1	0·0
45	41	39	0·6	3	0·1
47	45	42	0·1	2	0·1
44	42	39	-	2	0·1
45	43	40	-	0·3	0·1
45	43	38	Tr	0·2	0·2
44	43	39	-	0·5	0·1
44	42	40	-	0·6	0·0
44	43	38	Tr	0·2	0·0
44	41	38	Tr	0·2	0·2
45	41	38	-	1	0·2
44	39	33	0·2	1	*
49	43	36	-	1	0·1
49	41	36	Tr	3	0·0
50	44	*	0·3	2	*
50	44	*	2	2	0·1
50	44	41	-	4	0·2
49	45	*	5	1	0·0
48	44	41	5	1	0·0
50	44	37	Tr	0·2	0·2
46	42	39	-	1	0·0
43	41	*	-	0·1	0·0
43	41	35	-	1	0·0
44	42	39	-	Tr	0·0
43	42	38	-	Tr	0·0
42	40	*	Tr	2	*
44	39	36	1	0·3	0·0
47	40	37	5	3	0·0
43	37	36	4	11	0·0
48	42	*	1	1	0·0
48	40	39	3	5	0·0
48	42	*	7	4	0·0
40	33	32	9	10	0·0
43	42	39	2	0·2	0·0
44	41	*	3	6	*
43	42	*	4	9	0·0
50	38	*	12	1	*
48	41	*	1	3	0·0
47	38	34	3	0·1	0·0
50	38	*	4	2	0·0
53	42	38	10	2	0·1
52	41	*	3	0·4	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	cmcz$_o$	cz$_o$cm$_o$	cid$_o$cm$_o$	45	44	41	-	0·3	0·0	*	*	5
Croydon	217	cm$_o$	cd$_o$d$_o$	ocdd$_o$b	45	43	42	Tr	1	0·0	*	*	6
Greenwich (Royal Observatory)...	149	c	c	cd$_o$rbcbm	48	43	38	-	1	0·0	67	84	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	51	41	37	0·6		0·1	70	88	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	50	40	37	-	0·2	0·0	69	84	*
Camden Square	110	c	c	*	49	41	38	-	1	*	*	85	*
Kensington	80	c	bc	*	50	44	36	1	-	0·0	At 18h. 84	84	*
Hampstead Observatory	450	bcad	bc	bc	47	41	39	1	-	0·1	*	93	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·6	9-10h 18th	0·3	2-4h. 19th.

Kew Observatory. Max.	Time.	Min.	Time.
0·3	9h. 18h.	0·1	4-7h 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.
Paris	1016·7	S	2	z_o	39	1010·3	WSW	5	bc/r	48
Brussels	1014·9	SSW	4	c	27	1006·4	SSW	4	o	39
Berlin	1013·6	W	4	bc	39	1009·0	SSE	4	c	34
Zürich	1021·5	SE	1	z_o	37	1018·8	S	1	z_o	*
Rome	1015·9	S	2	bc	52					

Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
43	39	-	1
45	*	-	0·4
41	32	Tr	-
45	32	-	0·1
*	*	-	

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 15.
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. GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

† hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 20th January, 1938.

No. 27818.

OBSERVATIONS at 13h. G.M.T. 19th January

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. 0-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)	1012.4	+32	W	3	z₀	47	65	6	1	-	-	7-8	7-8	2500
	Croydon ...	1012.4	+26	WNW	5	bc	48	65	7	1	-	1	4-6	4-6	4000
	S. Farnborough	1013.0	+30	W'N	4	bc	47	65	8	1	-	-	4-6	4-6	2500
	Boscombe Down	1014.1	+30	W'N	5	bc	46	65	7	1	-	-	2-3	2-3	2500
	Calshot (Sthmtn.)	1014.6	+32	W	5	bc	48	65	8	7	-	1	4-6	4-6	2500
	Lympne ...	1012.4	+34	WNW	5	bc	46	65	7	1	-	1	1	2-3	2500
	Manston ...	1010.8	+30	WSW	4	bc	46?	65	6	-	-	8	0	2-3	-
2	Shoeburyness ...	1011.3	+28	W'N	5	bc	49	65	7	2	-	2	Tr	4-6	2500
	Felixstowe ...	1009.7	+30	W	4	c	47	65	8	5	-	1	7-8	7-8	5700
	Gorleston ...	1007.8	+28	WSW	5	bc	47	65	6	1	-	-	4-6	4-6	4000
	Mildenhall ...	1009.3	+30	W'N	5	z₀	46	75	6	1	-	2	2-3	7-8	2200
	Cranwell ...	1008.3	+26	W'S	5	c	45	75	7	8	-	-	9+	9+	2500
3	Birmingham ...	1011.0	+34	WNW	4	bc	45	65	6	1	-	-	4-6	4-6	2500
	Upper Heyford	1012.1	+30	W'N	5	bc	45	65	8	7	7	1	2-3	2-3	2500
4	Ross-on-Wye	1013.2	+24	W	4	bc	47	55	8	1	-	5	2-3	4-6	4000
5	Bristol ...	1014.2	+28	W	4	bc	47	75	7	8	-	9	2-3	4-6	2500
	Portland Bill ...	1015.8	+30	NW	4	c	48	85	8	4	4	1	4-6	9	2500
	Plymouth ...	1017.0	+22	WNW	5	c	50	65	8	8	-	-	9	9	2500
	The Lizard ...	1018.6	+10	W'N	5	bc	51	75	8	4	7	-	4-6	4-6	2500
	Scilly (St.Mary's)	1018.3	+14	WSW	5	bc	50	85	7	1	5	1	1	4-6	2500
	Guernsey ...	1018.1	+30	W'N	4	c	49	75	7	8	53	-	4-6	7-8	2500
6	Pembroke ...	1014.7	+20	W	5	c/pr	48	85	7	5	7	-	7-8	9+	2500
7	Holyhead ...	1010.7	+28	NW	4	c	46	85	8	5	5	6	2-3	7-8	5700
	Chester(Sealand)	1010.2	+34	W'N	5	bc	49	55	8	-	7	-	0	2-3	-
8	Manchester ...	1009.4	+36	W'N	4	bc	46	75	7	1	3	-	2-3	4-6	2500
10	Spurn Head ...	1005.6	+20	W'N	6	bc	45	75	6	-	8	8	0	4-6	-
	Catterick ...	1006.3	+30	W	4	bc	47	65	8	1	-	-	4-6	4-6	2500
	Tynemouth ...	1002.9	+32	W	6	q	44	75	6	2	-	-	2-3	2-3	1500
11	St. Abbs Head .	1001.0	+50	W	6	b	45	65	7	-	1	-	0	Tr	7200
	Leuchars ...	1001.5	+46	W	5	q	46	65	8	8	7	-	Tr	1	4000
12	Renfrew (Abbots I.)	1003.7	+34	W'S	4	c/br	46	85	8	8	4	4	2-3	7-8	2500
	Eskdalemuir ...	1004.8	+32	W	5	jp	42	75	7	8	-	-	4-6	4-6	1500
	Point of Ayre...	1008.0	+42	WNW	5	c	47	75	8	4	4	6	Tr	7-8	2500
13A	Tiree	1002.5	+24	W'N	5	c	45	75	8	8	4	1	4-6	7-8	2500
13B	Stornoway ...	997.9	+38	SW	4	c/pr	45	75	8	8	7	5	4-6	7-8	4000
15	Dalwhinnie ...	1001.7	+32	SW	5	bc	40	75	8	8	6	1	2-3	4-6	2500
	Aberdeen ...	998.7	+38	WNW	4	b	47	65	7	5	-	3	Tr	Tr	5700
	Wick ...	996.2	+42	W	3	bc	45	85	8	5	7	-	2-3	2-3	1500
16	Lerwick ...	991.3	+30	W	4	c/pr	47	85	7	8	7	-	4-6	7-8	1500
17	Blacksod Point	1007.8	+12	WSW	4	c	49	85	7	9	-	-	7-8	7-8	800
18	Malin Head ...	1004.8	+28	W'S	4	bc	46	97	6	4	8	-	2-3	4-6	800
	Aldergrove ...	1007.4	+24	SWW	4	bc	44	75	7	5	7	5	Tr	2-3	4000
19	Birr Castle ...	1010.9	+18	SW	2	c	48	85	8	5	7	-	4-6	9+	1500
20	Valentia Obsy. †	1014.3	+18	WSW	4	c	51	85	8	5	5	1	7-8	9	1500
	Roches Point	1014.9	+14	W'N	3	bc	50	85	8	3	4	9	4-6	4-6	1500

OBSERVATIONS at 18h. G.M.T. 19th January

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. 0-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)	1017.4	+26	SW	2	z₀	43	75	6	-	-	8	0	4-6	-	1	*
	Croydon ...	1017.7	+30	W'S	3	z₀	43	75	6	-	-	2	0	4-6	-	1	*
	S. Farnborough	1017.9	+16	WSW	3	c	43	85	6	5	-	-	7-8	7-8	2500	1	*
	Boscombe Down	1018.9	+26	SWS	2	r₀r₀	44	97	6	6	2	-	9	10	800	1	*
	Calshot (Sthmtn.)	1018.7	+22	SW	3	c	46	85	7	5	2	-	9+	10	2500	1	2
	Lympne ...	1018.4	+36	W	4	b	42	65	7	-	2	-	0	1	-	1	§ 0
	Manston ...	1016.8	+34	WSW	4	z₀	43	75	6	-	-	1	0	1	-	1	*
2	Shoeburyness ...	1017.1	+30	W	3	b	42	75	6	-	-	1	0	1	-	1	*
	Felixstowe ...	1016.2	+28	WSW	3	bc	43	75	7	-	3	-	0	2-3	-	1	2
	Gorleston ...	1013.9	+36	WSW	3	bc	43	75	6	-	1	-	0	2-3	-	1	2
	Mildenhall ...	1015.2	+22	SW'W	3	bc	47	85	7	-	-	5	0	2-3	-	1	*
	Cranwell ...	1014.0	+32	WSW	3	bc	41	85	6	5	4	-	2-3	4-6	4000	1	*
3	Birmingham ...	1015.0	+16	WSW	3	bc	43	75	6	-	5	-	0	4-6	-	1	*
	Upper Heyford	1016.5	+16	SW	4	c	42	75	6	5	7	8	2-3	7-8	1500	1	*
4	Ross-on-Wye	1016.7	+16	W'S	3	c	47	75	8	5	-	2	2-3	7-8	2500	1	*
5	Bristol ...	1018.0	+18	W	4	c/d	45	97	7	5	4	9	2-3	7-8	1500	1	*
	Portland Bill ...	1019.5	+20	NW	4	bc	49	85	8	4	-	-	2-3	2-3	2500	1	3
	Plymouth ...	1020.8	+22	W'S	3	c	50	85	7	8	4	6	9	9+	1500	1	1
	The Lizard ...	1021.4	+24	WSW	5	bc	49	92	8	4	7	-	4-6	4-6	2500	1	3
	Scilly (St.Mary's)	1020.5	+12	WSW	4	c	48	92	7	4	4	-	4-6	7-8	2500	1	3
	Guernsey ...	1022.2	+24	W	3	bc	48	85	7	-	1	-	0	2-3	-	1	3
6	Pembroke ...	1016.5	+10	W	5	q	48	92	8	8	6	-	4-6	7-8	2500	1	4
7	Holyhead ...	1013.6	+16	SW	4	c	47	85	8	8	-	-	10	10	4000	1	3
	Chester(Sealand)	1014.5	+26	S	1	z₀	45	75	6	5	4	-	4-6	4-6	4000	1	*
8	Manchester ...	1013.6	+22	WSW	3	z₀	44	85	6	-	5	-	0	9	-	1	*
10	Spurn Head ...	1012.0	+24	W	4	bc	42	92	6	-	-	8	0	2-3	-	0	3
	Catterick ...	1011.3	+32	WSW	3	c	43	75	7	4	7	2	Tr	9	4000	1	*
	Tynemouth ...	1010.5	+30	W	2	bc	44	75	6	5	-	-	4-6	4-6	1500	1	1
11	St. Abbs Head .	1006.9	+30	W	4	c	44	75	8	4	6	-	4-6	7-8	2500	0	2
	Leuchars ...	1006.4	+18	SW	3	c	42	75	7	5	3	-	4-6	9+	4000	1	*
12	Renfrew (Abbots I.)	1007.6	+22	S	2	z₀	45	85	6	8	-	-	9+	9+	2500	1	*
	Eskdalemuir ...	1009.7	+22	S'W	3	pr₀	40	85	7	6	-	6	9	9+	800	1	*
	Point of Ayre...	1011.3	+20	W'S	4	c	46	85	8	-	7	-	0	10	-	0	3
13A	Tiree	1004.1	+12	WSW	4	c	47	85	7	5	2	-	7-8	10	2500	0	3
13B	Stornoway ...	1000.1	+6	SSW	5	pr₀	45	85	7	5	2	-	7-8	10	2500	1	3
15	Dalwhinnie ...	1005.7	+16	SW	3	bc	39	85	7	4	6	-	4-6	4-6	2500	0	*
	Aberdeen ...	1006.2	+32	SW	1	b	41	75	6	-	7	-	0	1	-	1	2
	Wick ...	1001.3	+16	W	3	bc	39	92	8	5	5	2	2-3	4-6	1500	1	1
16	Lerwick ...	997.8	+30	W	4	bc/pr	44	85	8	8	7	-	4-6	4-6	1500	1	*
17	Blacksod Point	1007.8	0	SW	7	q	50	85	7	9	-	-	10	10	450	1	5
18	Malin Head ...	1005.8	+20	S'W	3	c/r	47	97	6	5	-	-	10	10	1500	1	4
	Aldergrove ...	1003.7	+12	SSW	4	c	44	85	7	5	7	-	1	10	4000	1	*
19	Birr Castle ...	1012.4	+14	SW	3	c	47	85	8	8	7	-	7-8	9+	1500	1	*
20	Valentia Obsy. †	1015.2	+6	SW'S	5	c	50	85	8	5	-	-	9+	9+	1500	1	4
	Roches Point	1016.6	+14	W	3	bc	49	85	8	3	-	3	2-3	4-6	1500	1	4

PAST 24 HOURS.

District	Stations. (For heights see p. 4.)	Weather. 7h.—13h. 19th (37)	Weather. 13h.—18h. 19th (38)	Weather. 18h. 19th to 1h. 20th (39)	Weather. 1h.—7h. 20th (40)
1	London (Kew)	cm₀bcz₀	bbcz₀	bccm₀	cm₀
	Croydon ...	bc	bcbcz₀	bczam₀	cmcbc
	S. Farnborough	bcbbc	bcc	c	cdc
	Boscombe Down	bcbbc	bccr₀r₀m	prrmabc	bcc
	Calshot (Sthmtn.)	bbc	bccr₀c	crc	cbcc
	Lympne ...	bccm₀b	b	bwcm₀	cm₀
	Manston ...	bbcm₀	bcbbcz	bcbm₀	cbcm₀
2	Shoeburyness ...	bcmbm₀bc	bccbm	bm₀bcc	cdcm₀
	Felixstowe ...	bbm₀bc	bccbcb	bbcc	cbc
	Gorleston ...	bbcq	bcz₀	bcc	bcc
	Mildenhall ...	bc	bcz₀b	bbc	bcbwc
	Cranwell ...	bccm₀c	cbcbbc	bcc	c
3	Birmingham ...	bbc	bc	bc	bcc
	Upper Heyford	cbc	bcc	cm₀	cm₀
4	Ross-on-Wye	bc	cbc	c	c
5	Bristol ...	bc	bccr₀r₀	cbc	bcc
	Portland Bill ...	c	cbc	c	c
	Plymouth ...	bbcc	c	cm₀pr₀	cm₀
	The Lizard ...	bcpr₀	bc	bc	bcc
	Scilly (St.Mary's)	bbcc	cbc	o₈bw	bcwbc
	Guernsey ...	cpre	cbc	bcw	bcw
6	Pembroke ...	bccqpr₀	cqprc	cq	cqc
7	Holyhead ...	bc,b	pr₀bcc	com₀c	c
	Chester(Sealand)	bcy	bcyz₀	bczc	cbczbc
8	Manchester ...	bcbcm₀	bcbcz₀m	cm₀	am₀c
10	Spurn Head ...	cqzbc	bc	c	c
	Catterick ...	bcbbc	ybbcc	cbc	bcc
	Tynemouth ...	bccbcq	bcq	bcoc	co
11	St. Abbs Head .	b	bc	cpr₀	c
	Leuchars ...	cqbcbq	bqbcc	cm₀idq	cm₀w
12	Renfrew (Abbots I.)	bcpr₀	cbccm₀	prbccr₀	rrcrr
	Eskdalemuir ...	phrbc	cpr₀c	pr₀r₀	rrdd₀
	Point of Ayre...	bcc	c	cpr₀c	c
13A	Tiree	pr₀bc	bcc	cir	odrrr
13B	Stornoway ...	bccrr₀pr	cpr₀	crr₀pr₀	crr₀
15	Dalwhinnie ...	cirbc	cir	cir	cir
	Aberdeen ...	cb	bbz₀	bzc	crc
	Wick ...	pr₀bc	bc	bcc	pr₀c
16	Lerwick ...	irpr₀	prbcc	bcpr₀c	crrprirr
17	Blacksod Point	prc	cq	prcq	cq
18	Malin Head ...	bccprpc	bcc	cirairc	cidc
	Aldergrove ...	bbcb	b,cpr₀c	circ	cm₀
19	Birr Castle ...	bcc	c	c	c
20	Valentia Obsy. †	pr₀bcc	pr₀bcc	c	cbcc
	Roches Point	pr₀bc	cpr₀bc	pr₀bc	bcc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus
R, heavy rain. r₀, slight rain.
rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ⊖ lunar halo. ⸗ gale.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus. (Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.

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

† Sea disturbance reported from Dungeness.

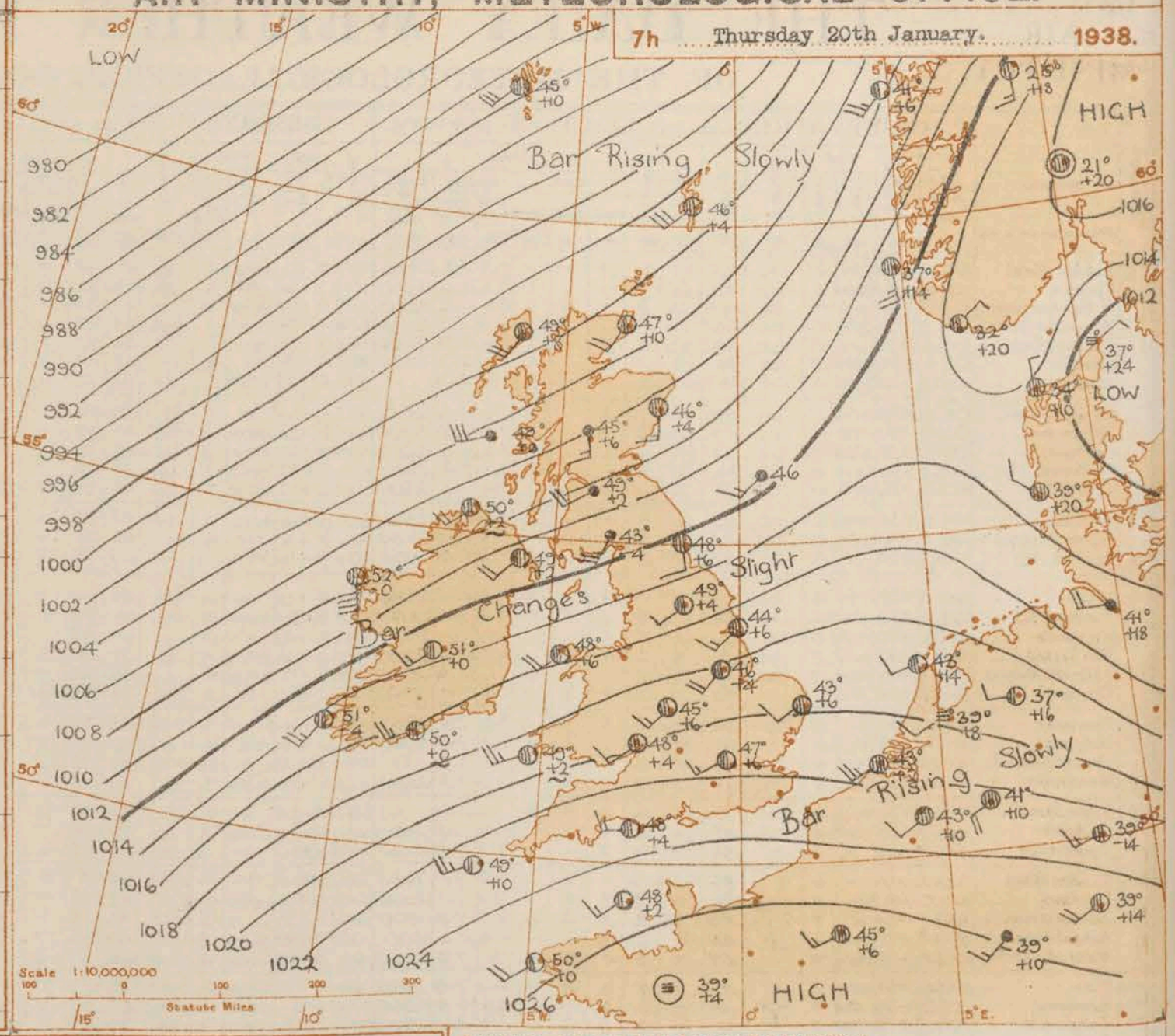
REPORTS from HEALTH RESORTS for 19th January 1938.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature (°F.) Min. 18h. to 9h.	Temperature (°F.) Max. 9h.—17h.	Rainfall (mm.) Night. 17h. to 9h.	Rainfall (mm.) Day. 9h.—17h.	Sunshine (hrs.) Sunrise to Sunset.
				19th	19th	19th	19th	19th
1	Tunbridge W.	bbc	bcb	40	47	2	-	6·2
	Bournemouth	b	b	41	56	3	-	5·6
	Ventnor ...	rmb	bpc	43	50	4	Trace	5·9
	Southsea ...	b	bbc	43	49	3	-	5·9
	Bognor Regis	bcbb	bbbc	43	49	3	-	5·4
	Littlehampton	bc	bc	42	50	3	-	5·9
	Worthing ...	b	b	42	49	3	-	5·7
	Brighton ...	cb	bc	44	49	3	-	6·0
	Eastbourne† ...	bcb	b	43	50	3	-	5·8
	Hastings† ...	bbcb	b	44	49	2	-	5·6
	Folkestone ..	bc	bc	43	48	1	-	5·2
	Dover ...	bcb	b	40	50	1	-	5·8
	Deal	cbcb	b	40	48	2	-	5·3
	Ramsgate ...	bc	bc	42	48	Trace	-	5·3
	Margate ...	bc	bc	42	46	0·3	-	5·0
2	Southend ...	b	b	39	50	0·5	-	5·6
	Clacton-on-Sea	bc	bcb	39	48	-	-	4·9
	Dovercourt ...	bc	bc	39	47	Trace	-	6·1
	Lowestoft ...	b	b	37	47	1	-	6·5
	Skegness ...	bc	bc	38	46	0·3	-	3·1
	Mablethorpe...	bc	bc	38	46	0·3	-	4·2
	Cleethorpes ...	bc	bc	38	46	0·3	-	3·7
3	Leamington S.	bc	c	38	48	0·6	-	5·4
4	Cheltenham†	bbc	bcc	41	49	1	-	4·9
5	Bath	b	bbccr	42	49	2	1	5·1
	Weymouth ...	b	bbc	43	51	3	-	5·0
	Jersey ...	rcbc	bc	43	50	6	-	5·7
	Torquay ...	b	bbcb	42	52	7	-	6·3
	Falmouth	b	bccpc	43	52	7	Trace	5·6
	Penzance ...	bcbb	bccpb	44	52	5	Trace	4·6
	St. Ives ...	b	c	39	47	5	-	3·4
	Bude... ...	bc	bc	44	51	8	-	4·7
	Ilfracombe ...	prcbc	bcc	44	50	5	-	3·5
6	Aberystwyth	cbcc	c	43	48	-	-	3·4
7	Llandudno ...	b	bcc	43	47	Trace	-	4·3
	Colwyn Bay...	bcbbc	bcbcb	43	48	-	-	4·7
	Rhyl	bbc	bcb	43	48	0·1	-	4·4
8	Wallasey ...	bbc	bcb	39	48	Trace	-	5·0
	Southport ...	bcqbq	bcc	35	47	1	-	4·8
	Blackpool ...	bcm$_o$b	bbccm	39	46	2	-	4·5
	Morecambe ...	ccbbc	bccbc	38	45	4	-	3·3
9	Ilkley... ...	cpcbc	pcbcc	40	45	2	-	4·0
	Harrogate ...	cb	bbcc	37	46	0·4	-	4·0
10	Berwick-on-T	cbcb	bbc	40	47	0·1	-	4·5
11	Dunbar ...	bcm$_o$	bcm$_o$	40	46	0·5	-	3·8
12	Troon... ...	bcbcp	cpcoc	38	48	7	2	1·7
	Douglas ...	bcir	bc	41	46	!	-	5·0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Thursday 20th January. 1938.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 20th January, 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate or fresh southwest winds; mainly cloudy; rather mild.
4 W. Midlands ... 5 S.W. England 6 South Wales ...	Fresh southwest winds; cloudy, local rain; rather mild.
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 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland	Strong southwest winds; cloudy, rain at times; rather mild.
19 S. E. Ireland 20 S. W. Ireland	As 4 - 6.

Barometer. Isobars are drawn for intervals of two millibars.
Wind, Weather Symbols. For explanation see opposite page.
Sea Disturbance. ~~ Rough. ≈≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A deep depression over Iceland is moving northeast and a further depression is moving northeast over the Atlantic. Weather will be cloudy generally with occasional rain in the West and North. Temperatures will be rather high.

FURTHER OUTLOOK.

Continuing mild.

Forecasts issued at 1030 G.M.T.

GEORGE C. SIMPSON, K.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.

Hours of observation:—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

THURSDAY 20TH JANUARY.

1938.

Clarke's Projection Scale 1: 4 × 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol:—

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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 20th January, 1938.

No. 27818.

OBSERVATIONS at 1 hr. G.M.T. 20th 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)	Cloud. Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1020·7	+6	SW'W	4	c	46	85	6	-	7	-	0	10	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1021·6	+8	W'S	3	z_o	43	92	6	-	7	-	0	9+	-
	Manston ...	142	1020·1	+8	SW	3	c	45	85	6	-	2	-	0	10	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1017·9	+8	SW	3	bc	40	85	6	5	4	-	4·6	4·6	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1021·9	+10	W	4	c	48	92	7	4	-	-	10	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1022·7	+10	WSW	4	bc	49	92	7	8	-	-	2·3	2·3	2500
	Scilly (St. Mary's)	163	1022·1	+4	SW'W	5	b	49	92	7	-	-	3	0	Tr	-
	Guernsey ..	175	1024·2	+6	WSW	3	bc	48	92	6	-	-	2	0	4·6	-
6	Pembroke ...	142	1018·7	+4	WSW	5	q	49	97	7	5	-	-	9+	9+	2500
7	Holyhead ...	26	1016·3	+4	SW'S	4	c	48	92	5	5	-	-	9+	9+	4000
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1015·7	+10	SW	3	c	42	92	6	-	2	6	0	7·8	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1012·4	+6	S	2	c	45	85	7	5	-	-	9	9	800
11	St Abbs Head ..	280	1009·1	+4	WSW	4	c/pr	44	97	8	4	6	-	4·6	7·8	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1013·0	+4	W'S	4	c	47	92	7	8	2	-	7·8	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	999·1	+4	SW	7	c/pr	51	92	7	5	2	-	7·8	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ..	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1002·6	-2	S	4	c	45	92	8	5	2	-	7·8	9	1500
16	Lerwick ...	156	1000·7	0	SW	5	c	45	95	7	9	2	-	7·8	10	800
17	Blacksod Point	18	1008·0	0	S	8	q	52	85	7	9	-	-	10	10	450
18	Malin Head ...	84	1006·3	+4	SW	4	Dr	49	97	5	3	-	-	9+	9+	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1013·7	-½	SW	5	o	51	97	7	6	-	-	10	10	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 20th 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)	Cloud. Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1021·4	+10	SW	2	z_o	46	85	6	5	-	-	9+	9+	2500	1	*
	Croydon ...	1021·8	+6	WSW	3	c	47	85	7	5	4	-	7·8	9+	5700	1	*
	S. Farnborough	1022·3	+4	SSW	2	c	46	85	7	5	-	-	9+	9+	2500	1	*
	Boscombe Down	1022·3	+4	SW'S	3	c	45	92	7	5	-	-	9	9	2500	2	*
	Calshot (Sthmtn.)	1022·7	+4	SW	3	c	47	97	8	5	-	-	7·8	7·8	2500	1	2
	Lympne ...	1022·5	+6	W'S	3	c	44	92	7	5	-	-	9+	9+	5700	1	§1
	Manston ...	1021·3	+2	SW	3	c	44	85	6	-	7	-	0	7·8	-	1	*
2	Shoeburyness ...	1021·5	+6	WSW	3	c	45	92	6	5	3	-	2·3	9+	2500	1	*
	Felixstowe ...	1020·6	+8	SW	3	bc	45	92	7	5	3	-	2·3	4·6	4000	1	2
	Gorleston ...	1019·5	+6	SW	2	c	43	85	6	5	-	-	9	9	2500	0	2
	Mildenhall ...	1019·6	+10	SW	4	c	45	97	7	5	5	-	7·8	9+	4000	1	*
	Cranwell ...	1018·0	+4	SW'S	4	c	46	85	7	5	3	-	7·8	9+	4000	1	*
3	Birmingham ...	1018·9	+6	SW	3	c	45	92	8	-	7	-	0	9	-	1	*
	Upper Heyford	1020·5	+6	SW	3	z_o	45	97	6	5	3	-	9	10	4000	1	*
4	Ross-on-Wye	1019·9	+4	SW	2	c	48	85	7	5	1	-	9+	10	1500	1	*
5	Bristol ...	1021·4	+2	W'S	3	c	48	85	7	5	3	-	2·3	7·8	2500	1	*
	Portland Bill ...	1022·1	+4	W	3	c	46	85	7	4	4	-	4·6	7·8	2500	1	3
	Plymouth ...	1023·3	+2	SW	3	z_o	50	92	6	5	-	-	9+	9+	800	1	2
	The Lizard ...	1023·1	+2	WSW	5	c	49	92	7	8	8	-	7·8	9	2500	1	3
	Scilly (St. Mary's)	1023·1	+10	SW'W	5	bc	49	97	7	8	4	-	2·3	4·6	2500	1	3
	Guernsey ..	1024·9	+2	SW	3	bc	48	97	7	-	3	-	4·6	4·6	-	1	3
6	Pembroke ...	1019·2	+2	WSW	5	q	49	92	7	5	2	-	7·8	10	2500	1	4
7	Holyhead ...	1016·0	+6	SW	4	c	48	97	7	5	1	-	4·6	10	800	1	3
	Chester(Sealand)	1018·0	+6	SW'W	4	c	50	85	7	5	7	-	7·8	9	2500	1	*
8	Manchester ...	1017·3	+8	SW'S	3	c	49	85	7	5	-	-	10	10	2500	1	*
10	Spurn Head ...	1016·7	+6	SW'S	3	c	44	92	6	5	-	-	9+	9+	2500	0	2
	Catterick ...	1014·5	+4	SW	1	c	49	75	8	5	1	-	7·8	9	2500	1	*
	Tynemouth ...	1012·9	+6	S	2	c	48	85	7	6	2	-	4·6	10	800	1	1
11	St Abbs Head ..	1009·5	+8	WSW	5	c	46	97	8	4	5	-	4·6	7·8	2500	1	3
	Leuchars ...	1009·0	0	SSW	3	c	49	85	6	5	-	-	10	10	800	1	*
12	Renfrew (Abbots I.)	1009·0	+2	SW	4	rr	49	97	6	5	-	-	10	10	800	1	*
	Eskdalemuir ...	1011·7	-4	SSW	5	d_o	43	97	4	-	2	-	10	10	4150	1	*
	Point of Ayre...	1012·6	+2	W'S	5	c	50	85	7	5	6	-	7·8	9	1500	0	3
13A	Tiree	1004·0	0	WSW	6	rr	49	92	6	-	2	-	10	10	1500	1	*
13B	Stornoway ...	1000·7	+8	SSW	4	c	49	85	7	5	1	-	7·8	10	1500	1	2
15	Dalwhinnie ...	1006·6	+6	S	3	ir	45	97	6	8	-	-	10	10	1500	1	*
	Aberdeen ..	1007·1	+4	S'W	3	c	46	92	7	5	7	-	Tr	9+	2500	1	2
	Wick ...	1003·1	+10	SSW	4	c	47	97	8	5	2	-	7·8	10	1500	1	2
16	Lerwick ...	1000·7	+4	SW	6	c/r	46	97	6	6	2	-	9	10	450	1	*
17	Blacksod Point	1007·7	0	S	8	q	52	85	7	9	-	-	10	10	450	1	6
18	Malin Head ...	1006·6	+2	SW	4	c	50	97	6	9	2	-	7·8	10	800	1	4
	Aldergrove ...	1010·9	+2	SW'S	4	z_o	49	85	6	5	-	-	10	10	800	1	*
19	Birr Castle ...	1013·2	0	SW	3	c	51	95	8	5	-	-	9+	9+	1500	1	*
20	Valentia Obsy. †	1014·8	-4	SSW	5	c	51	85	7	5	-	-	9+	9+	1500	1	3
	Roches Point	1016·1	0	WSW	5	c	50	92	8	5	7	-	4·6	7·8	1500	1	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 19th Hrs. (36)
1	London (Kew)	48	43	39	-	-	6·4
	Croydon ...	49	43	40	-	-	6·3
	S. Farnborough	48	42	37	-	Tr	6·3
	Boscombe Down	47	43	41	2	0·2	5·3
	Calshot (Sthmtn.)	48	45	43	Tr	0·1	6·1
	Lympne ...	47	37	31	-	-	5·9
	Manston ...	48	40	35	-	-	5·0
2	Shoeburyness ...	49	41	39	-	Tr	5·3
	Felixstowe ...	47	41	36	-	-	6·0
	Gorleston ...	47	40	38	-	-	6·0
	Mildenhall ...	47	38	32	-	Tr	6·3
	Cranwell ...	47	39	36	-	-	1·6
3	Birmingham ...	46	42	40	-	-	5·2
	Upper Heyford	47	41	35	-	-	*
4	Ross-on-Wye	49	44	39	-	-	4·8
5	Bristol ...	48	45	41	1	-	4·1
	Portland Bill ...	50	46	*	-	-	*
	Plymouth ...	51	48	46	-	Tr	5·8
	The Lizard ...	51	48	*	0·1	-	4·8
	Scilly (St. Mary's)	52	47	*	Tr	Tr	4·2
	Guernsey ..	50	47	42	1	-	5·6
6	Pembroke ...	49	47	*	1	-	1·9
7	Holyhead ...	49	47	45	Tr	-	2·7
	Chester(Sealand)	50	44	40	-	-	5·2
8	Manchester ...	47	42	38	-	-	3·7
10	Spurn Head ...	45	41	*	-	-	3·5
	Catterick ...	47	43	41	-	-	5·6
	Tynemouth ...	45	44	38	-	-	3·5
11	St Abbs Head ..	46	42	*	-	Tr	*
	Leuchars ...	47	42	39	-	Tr	5·3
12	Renfrew (Abbots I.)	47	45	43	1	2	2·3
	Eskdalemuir ...	43	39	37	3	5	2·1
	Point of Ayre...	48	45	*	-	Tr	4·2
13A	Tiree	47	45	45	Tr	7	2·9
13B	Stornoway ...	46	45	*	1	2	1·7
15	Dalwhinnie ...	41	38	33	1	3	2·0
	Aberdeen ..	47	41	35	-	0·1	3·5
	Wick ...	45	39	*	0·1	Tr	*
16	Lerwick ...	47	43	*	1	1	1·6
17	Blacksod Point	53	40	*	0·3	0·3	*
18	Malin Head ...	48	46	*	Tr	1	2·2
	Aldergrove ...	45	44	42	Tr	Tr	3·5
19	Birr Castle ...	50	46	*	-	-	2·3
20	Valentia Obsy. †	52	50	48	0·5	-	0·5
	Roches Point	51	48	*	0·3	0·1	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset hrs.	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cm bcz$_o$	bbcz$_o$	bccm$_o$	49	43	39	-	-	6·4	*	*	5
Croydon	217	bc	bcbcz$_o$	bczcm$_o$	49	43	40	-	-	6·9	*	*	6
Greenwich (Royal Observatory)...	149	b	by	c	48	44	35	-	-	5·2	56	86	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	5·1	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	50	44	36	-	-	5·7	59	91	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	49	44	40	-	-	5·3	56	92	*
Camden Square	110	b	b	c	48	44	39	-	-	*	*	88	*
Kensington	80	c	bc	c	49	44	35	-	-	5·9	65 (At 18h.)	90	*
Hampstead Observatory	450	o	o	o	48	41	33	-	-	6·5	*	94	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·6	18·20h. 19th.	0·3	2·4h. 20th.

Kew Observatory. Max.	Time.	Min.	Time.
0·3	18h. 19th.	0·1	2·6h. 20th.

FOREIGN OBSERVATIONS.

Stations	13h G.M.T. 19th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 20th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1021·0	W	4	b	45	1022·2	WSW	3	o	45
Brussels	1016·5	W'N	3	c	43	1022·6	SW	2	z_o	43
Berlin	1006·0	WSW	3	ir$_o$	41					
Zürich	1020·3	WNW	5	ir	41	1022·8	SW	1	c	37
Rome	1017·1	SSE	3	bc	54	1012·7	NE'E	8	DD	50

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
50	37	2	-
50	36	0·1	0·2
43		3	
46	36	1	2
*	*	-	7

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

0 Calm.	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.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

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

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h.

§ Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 21st January, 1938.

No. 27819.

District	Stations. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 20th January: Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. 0–12 Force (4)	Weather. (5)	°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)	1023·1	0	SW'W	3	₂	51	75	6	5	–	–	10	10	4000
	Croydon ...	1023·7	–2	W'S	3	₂c	51	65	6	5	–	–	3+	3+	5700
	S. Farnborough	1023·2	–10	SW	4	c	51	75	7	5	–	–	10	10	4000
	Boscombe Down	1023·3	–4	SW	4	c	50	85	7	5	–	–	3+	3+	2500
	Calshot (Stn.)	1024·0	–6	SW	3	₂	51	97	6	5	–	–	3+	3+	1500
	Lympne ...	1024·1	–2	WSW	4	cc	49	85	7	5	4	6	4-6	9	1500
	Manston ...	1023·1	~~+2~~	SW	4	c	50	85	6	5	7	–	4-6	9	5700
2	Shoeburyness ...	1022·9	–2	SW	4	₂	51	85	5	1	3	2	1	7-8	2500
	Felixstowe ...	1022·2	0	WSW	3	₂	50	85	5	5	–	–	10	10	4000
	Gorleston ...	1020·7	–4	SSW	3	cc	46	92	6	5	7	–	4-6	9	2500
	Mildenhall ...	1020·7	–2	WSW	5	cc	51	85	7	5	7	–	9	9+	4000
	Cranwell ...	1013·4	+4	SSW	4	₂	50	85	6	5	2	–	9	10	2500
3	Birmingham ...	1019·8	+2	SW	3	c	49	85	6	–	7	–	0	10	–
	Upper Heyford	1021·8	–2	SW'S	3	₂	48	85	6	5	7	–	3+	10	800
4	Ross-on-Wye	1020·9	+6	WSW	4	c	51	75	7	5	–	–	10	10	2500
5	Bristol ...	1022·8	–2	SW	3	c/d	50	85	8	5	–	–	9+	9+	1500
	Portland Bill ...	1023·4	+4	WSW	4	cc	49	85	7	5	2	–	7-8	10	2500
	Plymouth ...	1023·9	+2	SW	4	cd.	50	92	6	5	–	–	10	10	2500
	The Lizard ...	1023·6	0	SW	4	c	50	92	7	6	6	–	7-8	9	2500
	Scilly (St. Mary's)	1022·5	–6	SW'S	5	bc	55	85	7	5	–	3	2-3	4-6	2500
	Guernsey ...	1025·7	–8	SW	3	bc	51	85	7	1	3	–	Tr	2-3	2500
6	Pembroke ...	1021·1	+10	SW'W	5	q	50	92	6	5	2	–	7-8	10	1500
7	Holyhead ...	1016·2	–6	SSW	5	cc	50	92	7	5	–	–	9+	9+	1500
	Chester (Sealand)	1018·5	–4	WSW	3	cc	53	75	8	5	2	–	9	10	2500
8	Manchester ...	1017·6	–6	SW	4	c	52	75	7	8	3	–	9	9+	4000
10	Spurn Head ...	1017·6	–2	SW	3	c	48	92	6	5	–	1	4-6	7-8	2500
	Catterick ...	1015·8	+2	SSW	5	cc	50	85	7	8	7	6	7-8	9	1500
	Tynemouth ...	1015·6	+2	SW	2	c	51	85	6	8	–	–	7-8	7-8	800
11	St. Abbs Head	1010·2	0	W	5	c	50	75	7	4	6	2	7-8	9+	2500
	Leuchars ...	1009·0	–10	SSW	4	q/d	50	85	7	5	–	–	10	10	1500
12	Renfrew (Abbotsl.)	1009·4	–6	SW'S	4	q/d	50	85	6	5	–	–	10	10	800
	Eskdalemuir ...	1012·3	–6	SSW	5	q/d	45	97	5	5	–	–	10	10	<150
	Point of Ayre ...	1013·2	0	SW'W	6	c	53	75	8	2	9	9	Tr	9+	1500
13A	Tiree	1003·2	–10	SW	6	rr	48	97	6	–	2	–	10	10	800
13B	Stornoway ...	998·4	–16	SSW	7	r,r,	49	97	5	5	2	–	7-8	10	1500
15	Dalwhinnie ...	1006·9	–12	SW	5	ir	46	92	6	6	–	–	10	10	1500
	Aberdeen ...	1007·0	–6	SW'S	4	id.	50	85	6	6	2	–	9	9+	1500
	Wick ...	1002·5	–8	SSW	4	c	49	92	8	5	7	–	4-6	9	1500
16	Lerwick ...	1001·3	–6	SSW	5	c/r	47	97	7	8	7	–	7-8	9	450
17	Blacksod Point	1005·4	–8	S	8	DD	50	97	6	6	–	–	10	10	450
18	Malin Head ...	1005·7	–8	S	4	c	51	97	7	8	–	–	9	9	800
	Aldergrove ...	1010·5	–14	SSW	5	c	51	86	8	5	7	–	7-8	9+	1500
19	Birr Castle ...	1013·1	–6	SW	3	c	53	75	8	8	8	–	7-8	9	1500
20	Valentia Obsy. †	1015·5	–14	SSW	6	id	52	85	6	5	–	–	10	10	800
	Roches Point	1016·2	–4	SW	5	c	51	92	7	5	–	–	9	9	1500

District	Stations.	OBSERVATIONS at 18h. G.M.T. 20th January: Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. 0–12 Force (18)	Weather. (19)	°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)	1022·6	0	SSW	3	₂	50	85	6	5	–	–	3+	3+	4000	1	*
	Croydon ...	1023·2	+2	SW'S	5	₂	49	85	6	5	–	–	9+	9+	4000	1	*
	S. Farnborough	1023·3	+6	SW'S	4	₂c	49	85	7	5	–	–	9	9	4000	1	*
	Boscombe Down	1023·0	+4	SW'S	3	cc	48	85	7	5	–	–	9	9	2500	1	*
	Calshot (Stn.)	1024·2	+6	SW'S	3	cc	48	97	7	5	–	–	9	9	2500	1	2
	Lympne ...	1024·5	+4	SW	3	ccc	47	92	6	5	–	–	10	10	4000	1	§ 2
	Manston ...	1023·5	+2	SW'W	3	cc	48	85	6	5	–	–	9+	9+	4000	1	*
2	Shoeburyness ...	1023·0	+2	SW	3	c	49	85	6	5	–	–	10	10	2500	1	*
	Felixstowe ...	1022·2	+2	SW'S	3	₂	47	85	5	5	2	–	7-8	7-8	4000	1	2
	Gorleston ...	1021·1	+2	SSW	2	₂cc	49	85	6	5	–	–	7-8	7-8	2500	0	2
	Mildenhall ...	1020·8	–2	SW	4	₂	49	85	6	5	–	–	4-6	4-6	4000	1	*
	Cranwell ...	1018·9	–2	SSW	4	c	49	85	7	5	–	–	9+	9+	2500	1	*
3	Birmingham ...	1019·4	0	SW	3	c	48	75	6	5	–	–	10	10	2500	1	*
	Upper Heyford	1022·1	+6	SSW	3	cc	47	85	7	5	–	–	10	10	2500	1	*
4	Ross-on-Wye	1020·6	0	SW'W	3	c	50	75	6	5	–	–	10	10	2500	1	*
5	Bristol ...	1022·2	–2	WSW	3	c	49	85	7	5	–	–	9+	9+	2500	1	*
	Portland Bill ...	1022·3	+2	WSW	4	c	49	92	7	4	–	–	10	10	2500	1	3
	Plymouth ...	1023·4	0	SW'W	4	₂	50	85	6	5	–	–	9+	9+	2500	1	2
	The Lizard ...	1023·7	+4	SW	5	cc	49	85	7	6	6	–	9+	10	2500	1	3
	Scilly (St. Mary's)	1021·7	–4	SSW	5	cc	50	92	7	5	–	–	9+	9+	2500	1	3
	Guernsey ...	1026·2	+4	SW	2	o	49	85	7	5	–	–	10	10	2500	1	3
6	Pembroke ...	1019·0	0	SW	5	q	49	92	7	5	2	–	7-8	9+	1500	1	4
7	Holyhead ...	1014·7	–4	SSW	6	q/c	49	85	7	5	2	–	4-6	9+	1500	1	3
	Chester (Sealand)	1017·6	0	S	2	c/c	51	75	7	5	–	–	9+	9+	1500	1	*
8	Manchester ...	1017·0	–2	SW	4	c	51	75	7	5	–	–	9+	9+	4000	1	*
10	Spurn Head ...	1017·7	+4	SSW	4	c	47	85	6	5	–	–	10	10	2500	0	2
	Catterick ...	1014·2	–6	SSW	4	cc	50	75	6	5	9	–	7-8	9+	1500	1	*
	Tynemouth ...	1013·7	+6	S	3	c	49	85	6	8	–	–	9	9	1500	1	1
11	St. Abbs Head	1007·8	–8	SW	6	bc	49	75	7	4	4	1	4-6	4-6	2500	1	3
	Leuchars ...	1008·0	0	SW	5	o	50	75	7	5	–	–	10	10	1500	1	*
12	Renfrew (Abbotsl.)	1007·6	–2	SSW	4	₂	51	85	6	5	–	–	10	10	2500	1	*
	Eskdalemuir ...	1011·0	–2	S'W	7	d,d,	45	97	5	5	–	–	10	10	<150	1	*
	Point of Ayre ...	1011·3	–8	SW'W	5	c	50	85	7	2	7	5	Tr	9	1500	0	3
13A	Tiree	1000·1	–22	SW'S	6	o	49	97	6	5	–	–	10	10	1500	1	4
13B	Stornoway ...	994·7	–16	SSW	8	r,r,	50	92	6	5	2	–	9	10	1500	1	4
15	Dalwhinnie ...	1004·3	–20	SW	6	ir	48	92	6	6	–	–	10	10	1500	1	*
	Aberdeen ...	1005·7	–6	SSW	5	id.	50	85	6	6	2	–	9+	10	800	1	2
	Wick ...	999·7	–18	SSW	6	c	50	85	8	5	7	–	4-6	9	1500	1	3
16	Lerwick ...	998·1	–12	SSW	7	rr	48	92	6	6	2	–	7-8	10	800	1	*
17	Blacksod Point	1001·8	–24	SSW	8	q	50	97	6	6	–	–	10	10	450	1	7
18	Malin Head ...	1001·9	–36	S	5	c	51	97	6	8	–	–	9	9	800	0	4
	Aldergrove ...	1007·7	–18	SW	5	c	51	85	8	5	–	–	10	10	1500	1	*
19	Birr Castle ...	1010·0	–6	SW	5	c	52	85	8	5	7	–	4-6	9+	1500	1	*
20	Valentia Obsy. †	1010·6	–14	SSW	6	d,d,	52	97	5	5	–	–	10	10	450	1	3
	Roches Point	1015·4	–6	SW	5	id	50	97	6	5	–	–	10	10	450	1	4

PAST 24 HOURS.

District	Stations.	Weather. 7h.–13h. 20th. (37)	Weather. 13h.–18h. 20th. (38)	Weather. 18h. 20th. to 1h. 21st. (39)	Weather. 1h.–7h. 21st. (40)
1	London (Kew)	cm,cz,	cz,cm,	cm,	cm,
	Croydon ...	cm,	cz,	cz,	cz,
	S. Farnborough	id,c	c	cm,	cm,
	Boscombe Down	c	c	c	c
	Calshot (Stn.)	cm,	cm,	cbcc	c,crr,
	Lympne ...	cm,	cm,com,	ocm,c	oo
	Manston ...	bccm,	cm,	cm,c	cbcc
2	Shoeburyness ...	cm,	m,c	cm,	cm,
	Felixstowe ...	bccm,	cm,	cm,c	cbc
	Gorleston ...	cz,z,	cz,c	cz,z,	cz,c
	Mildenhall ...	ccm,c	cm,	cbc	bcwc
	Cranwell ...	ccm,	cm,c	cbc	c
3	Birmingham ...	c	c	cbc	bcc
	Upper Heyford	ccd,cm,	cm,d,c	c	c
4	Ross-on-Wye	c	c	cq	ccid,
5	Bristol ...	cd,	cid,	cbcc	cd,d,m,
	Portland Bill ...	c	c	c	c
	Plymouth ...	cr,d,m,	cid,m,c	cm,id,c	cm,id,
	The Lizard ...	c	cbcc	c	cpr,
	Scilly (St. Mary's)	bccbc	bcc	c	cpod,
	Guernsey ...	bcc	bcco	occ	oc
6	Pembroke ...	cqm,c	cm,q	cqmid,	cqmir,
7	Holyhead ...	cm,d,c	d,c	om,c	~~m,c~~
	Chester (Sealand)	cmd,d,idc	cr,	cbcc	cm,ir
8	Manchester ...	cm,c	cpr,c	cbcc	cpnRm,
10	Spurn Head ...	c	c	c	cq
	Catterick ...	cqvc	c	cbcc	cir,
	Tynemouth ...	c	c	cq	cq
11	St. Abbs Head	c	c	cd,cq	cq,bc
	Leuchars ...	cwid,m,	cm,id,c	od,rcq	cpr,bcq
12	Renfrew (Abbotsl.)	ncm,id	d,cm,	cr,rR	r,rcom,
	Eskdalemuir ...	bddd,d,	od,d,o	od,d,	or,nqpr
	Point of Ayre ...	c	c	cpnq	cq
13A	Tiree	drrr,	rr,	pdR	cprbc,
13B	Stornoway ...	cbrm,	cRrrm,	cRRrr	crrpbr,
15	Dalwhinnie ...	cir	cir	ciR	
	Aberdeen ...	cr,z,	cr,q	cir,	cq,bc
	Wick ...	c	c	cq	cpr,c
16	Lerwick ...	cir	cirm,	crrir	cirpq
17	Blacksod Point	Dq	iDq	iRq	iRq
18	Malin Head ...	c	c	ccprrrc	bc
	Aldergrove ...	cm,c	c	c,id,c	cir,b
19	Birr Castle ...	c	c	cir	circ
20	Valentia Obsy. †	cid,id	id,d,d,	d,drr	r,rc
	Roches Point	oidc	coid	dddr	drbcb

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.

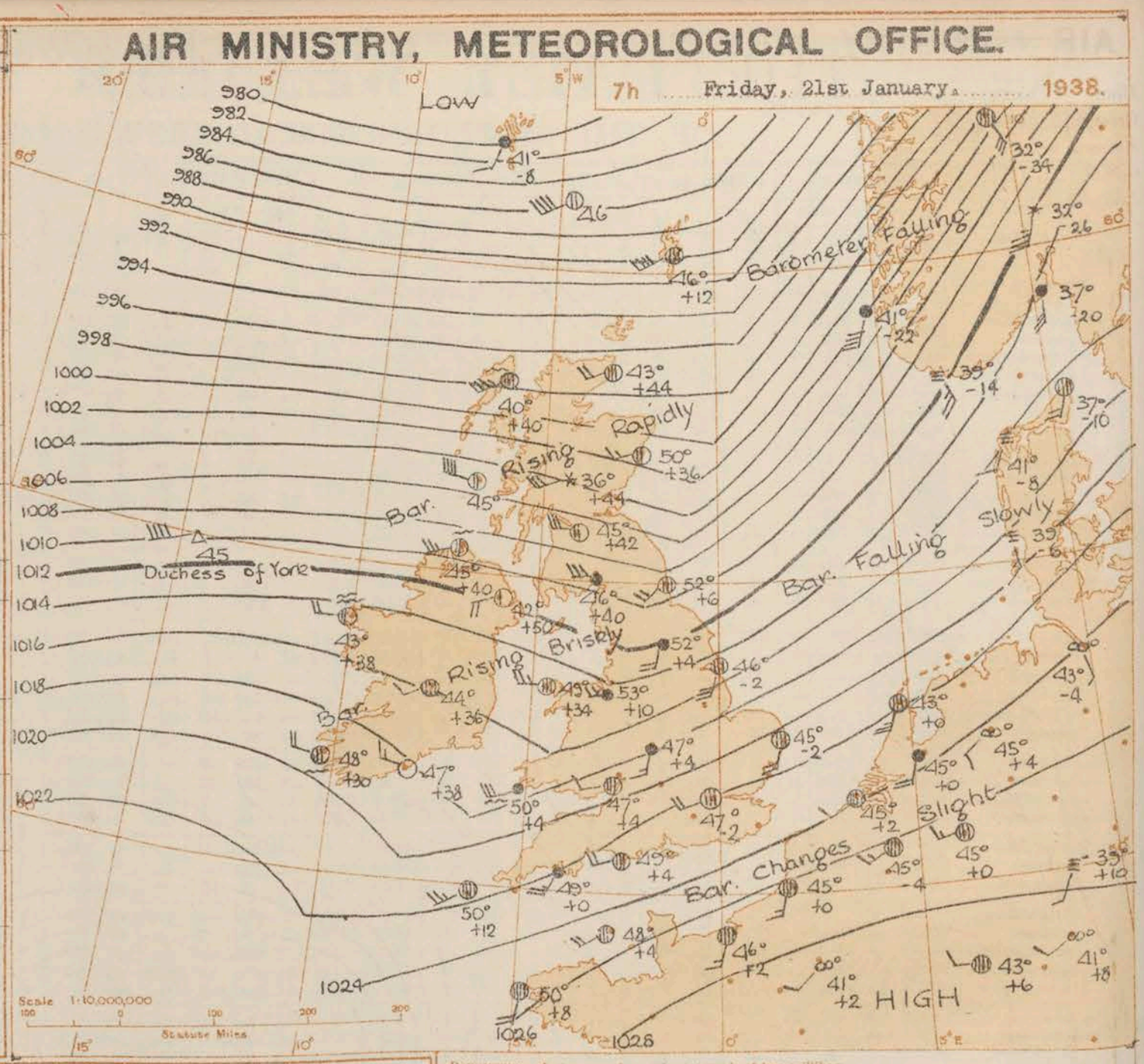
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

† Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 20th January 1935

District No.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature (°F.) Min. 9h. 19th to 9h. 20th.	Temperature (°F.) Max. 9h.—17h. 20th.	Rainfall (mm.) Night. 17h. 19th to 9h. 20th.	Rainfall (mm.) Day. 9h.—17h. 20th.	Sunshine (hrs.) Sunrise to Sunset. 20th.
1	Tunbridge W.	c	co	38	51	Trace	–	0·3
	Bournemouth	c	c	42	51	Trace	–	0·1
	Ventnor ...	ocp	oz	44	51	–	–	0·4
	Southsea ...	ocbc	c	44	51	Trace	–	0·7
	Bognor Regis	ocbc	co	43	50	0·5	–	0·8
	Littlehampton	c	c	42	51	0·5	–	0·5
	Worthing ...	cbc	c	43	50	0·5	–	0·4
	Brighton ...	cbc	c	44	49	1	–	0·3
	Eastbourne† ...	co	o	46	50	1	–	0·0
	Hastings† ...	coc	co	43	51	Trace	–	0·3
	Folkestone ...	omc	co	39	51	–	–	0·1
	Dover ...	oc	co	40	52	0·3	–	0·0
	Deal	o	oco	40	52	–	–	0·1
	Ramsgate ...	c	c	42	50	–	–	0·0
	Margate ...	c	c	41	51	–	–	0·0
2	Southend ...	coc	co	40	51	Trace	–	0·4
	Clacton-on-Sea	oc	c	40	51	–	–	0·1
	Dovercourt ...	oc	bccm	40	51	Trace	–	0·0
	Lowestoft ...	c	c	38	49	–	–	0·0
	Skegness ...	c	c	38	50	–	–	0·2
	Mablethorpe...	bcc	bcc	38	50	–	–	0·2
	Cleethorpes ...	cbc	c	40	50	–	–	0·2
3	Leamington S.	co	o	41	51	–	–	0·0
4	Cheltenham†	c	c	43	51	Trace	–	0·0
5	Bath	c	pc	43	52	Trace	Trace	0·0
	Weymouth ...	c	c	45	52	Trace	–	0·3
	Jersey ...	cbc	bcc	46	50	0·1	–	6·6
	Torquay ...	oc	oc	43	52	Trace	–	0·2
	Falmouth	c	c	44	52	1	–	0·2
	Penzance ...	cbc	c	47	54	0·5	–	1·0
	St. Ives ...	c	o	41	47	2	–	1·6
	Buds... ...	mdc	mdc	46	52	Trace	0·3	0·3
	Ilfracombe ...	oco	oc	46	52	–	–	0·0
6	Aberystwyth	pbc	c	45	49	0·5	–	0·0
7	Llandudno ...	c	cbcc	44	54	–	–	0·8
	Colwyn Bay...	c	cbcc	45	52	–	–	0·4
	Rhyl	c	c	43	52	–	–	0·0
8	Wallasey ...	c	c	43	52	–	–	0·0
	Southport ...	cobc	coc	43	52	Trace	Trace	0·0
	Blackpool ...	odbp	pdom	43	49	0·5	0·3	0·0
	Morecambe ...	cidc	cbcco	42	50	0·3	Trace	0·1
9	Ilkley... ...	cpc	c	42	51	0·3	–	0·0
	Harrogate ...	c	c	40	50	–	–	0·0
10	Berwick-on-T.	odc	c	42	51	–	Trace	0·0
11	Dunbar ...	c6m6	cm6	40	52	Trace	–	0·0
12	Troon... ...	ococ	oco	40	51	0·5	–	0·0
	Douglas ...	bc	c	41	49	–	–	0·0

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. ~~~ Rough. ≈≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 21st January, 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate or fresh westerly winds, backing south later; rain at times then fair; further rain later; rather mild.
4 W. Midlands ... 5 S.W. England	Fresh southwest to south winds; occasional rain; rather mild.
6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Strong westerly winds, moderating and backing south; mainly fair at first, rain later; rather mild.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. / B.N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Strong westerly winds, a gale at times, moderating and backing south; local showers, fair periods; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate or fresh westerly winds, backing south and increasing; fair at first, rain later; rather mild.

GENERAL INFERENCE.

A depression north of Shetland, is moving northeast and is being followed by further depressions from the Azores. Weather will be mainly fair in the North apart from local showers but cloudy with rain at times in the South and Southeast.

FURTHER OUTLOOK.

Unsettled with rain at times; rather mild in the South.

Times of issue of Gale Warnings.

South Cone hoisted at 1455 on 20/1/38 in districts 13A., 13B., 15, 16, 18, and at 1850 on 20/1/38 in districts 10, 11 and 14.

Forecasts issued at 1030 G.M.T.

GEORGE C. SIMPSON, K.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.

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

FRIDAY, 21ST JANUARY.

1938.

Clarke's Projection Scale 1·4 × 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—◎

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. ✱Sleet. △Hail. ≡Fog. ≡Mist. (R)Thunder. ⅋Thunderstorm. ∞Slight haze.

The hour of observation is not uniform throughout the Hemisphere, a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 21st January, 1938.
No. 27319.

OBSERVATIONS at 1 hr. G.M.T. 21st 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	1022·8	-6	WSW	3	c	48	75	6	5	-	-	10	10	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	348	1024·2	-2	SW	3	c	45	92	7	5	-	-	9+	9+	2500
	Manston ...	142	1023·3	-6	SW	4	c	47	85	8	5	-	-	10	10	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1023·9	-6	S	3	c	46	92	6	5	-	-	10	10	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1021·9	-6	WSW	4	c	49	86	8	4	-	-	10	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1022·1	-6	SW	6	c	49	85	8	5	2	-	9	10	2500
	Scilly (St. Mary's)	163	1021·0	-4	SWS	6	c	50	85	7	5	-	-	9+	9+	2500
	Guernsey ...	175	1020·0	-4	SW	4	o	48	75	6	5	-	-	10	10	2500
6	Pembroke ...	142	1016·9	-8	SW	8	id	49	92	6	5	-	-	10	10	1500
7	Holyhead ...	26	1011·7	-20	SSW	6	c/r	48	92	7	6	2	-	4-6	10	800
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1014·8	-12	SWS	4	c	46	86	7	-	1	-	0	9	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1008·0	-20	SW	6	q	51	75	7	3	-	-	7-8	7-8	800
11	St. Abbs Head ...	280	1003·2	-10	SW	8	id	48	85	7	8	4	-	4-6	9+	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots L.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1008·4	-28	SWW	6	pr	50	92	7	8	1	-	4-6	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	999·2	-22	S	8	rr	50	97	5	5	-	-	10	10	1500
14	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	992·9	-4	SSW	5	c	49	85	8	5	7	-	4-6	8+	1500
16	Lerwick ...	156	991·2	-10	SW	8	ir	48	92	7	8	2	-	4-6	10	800
17	Blacksod Point	18	1003·9	+2	W	8	RR	49	86	6	6	-	-	10	10	450
18	Malin Head ...	89	997·7	-10	SW	6	rr	52	97	6	6	2	-	7-8	10	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1010·4	+10	SW	6	rr	48	97	6	6	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 21st 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)	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)
1021·4	+2	SSW	4	z	48	85	6	5	-	-	9+	9+	1500	1	*
1022·1	-2	SW'W	4	c	47	85	6	5	7	-	7-8	9+	1500	1	*
1021·8	0	SWS	4	c	47	85	6	5	-	-	9+	9+	2500	1	*
1021·6	+2	SWS	4	c	47	92	7	8	1	-	7-8	9	1500	1	*
1022·2	0	SSW	6	c	48	92	7	-	2	-	10	10	1500	1	3
1023·9	+6	SWS	4	c	46	85	8	5	-	-	10	10	1500	1	3
1022·4	-2	SW	4	c	47	75	8	5	-	-	9+	9+	1500	1	*
1021·6	-2	SSW	4	c	47	85	6	8	9	-	7-8	9+	2500	1	*
1021·2	-4	SSW	3	c	45	85	7	-	4	6	0	7-8	-	1	2
1019·4	-2	S'W	4	c	45	85	6	5	-	-	9	9	2500	0	2
1018·8	+2	SW	4	c	46	86	7	5	7	-	7-8	9+	1500	1	*
1016·3	0	SW'S	5	c	47	85	7	5	7	-	7-8	10	1500	1	*
1017·8	+4	SSW	3	ir	47	92	8	6	1	-	7-8	10	800	1	*
1020·1	+4	SSW	3	c	46	85	7	5	-	-	10	10	800	1	*
1018·2	+4	WSW	2	c/d	47	92	7	5	3	-	9+	10	1500	1	*
1020·6	+4	SW	3	d	49	97	6	5	-	-	10	10	800	1	*
1022·3	+4	WSW	4	c	49	85	7	4	-	-	10	10	2500	1	3
1021·9	0	SWS	5	id	49	97	6	6	-	-	10	10	450	1	3
1022·5	+2	SW'W	5	c	50	92	7	5	-	-	10	10	1500	1	4
1021·4	+12	SW	5	c/d	50	97	6	5	-	-	10	10	1500	1	3
1025·4	+4	SW	4	c	48	85	7	5	3	-	4-6	9	2500	1	3
1017·4	+4	WSW	6	r	50	97	6	5	-	-	10	10	1500	1	4
1015·0	+34	W	5	c/r	49	85	8	6	2	-	2-3	10	1500	1	3
1015·1	+10	WSW	4	ir	53	86	6	6	2	-	9	10	1500	1	*
1014·9	+10	SSW	4	rr	50	92	5	-	2	-	10	10	450	1	*
1013·7	-2	SSW	6	q	46	85	7	5	-	-	9	9	2500	0	3
1011·2	+4	SSW	4	ir	52	95	7	5	-	-	9	9	1500	1	*
1008·4	+6	SW	4	q	52	85	8	5	-	-	7-8	7-8	1500	1	1
1005·3	+3E	W	5	bc	49	75	8	-	3	-	0	4-6	-	1	3
1003·9	+3G	WSW	6	bc	47	75	8	5	3	-	1	4-6	2500	1	*
1007·3	+42	W	6	bc/pr	45	85	7	9	-	-	4-6	4-6	1500	1	*
1003·4	+40	W	6	pr	46	75	8	8	-	-	4-6	4-6	2500	1	*
1012·3	+38	NW'W	6	pr	47	85	7	8	-	-	7-8	7-8	1500	1	4
1004·3	+44	W'N	8	bc	45	86	8	8	-	-	2-3	2-3	2500	0	*
999·7	+40	SW	7	c/phr	40	85	7	5	-	-	9	9	2500	1	4
1004·4	+44	WSW	6	s	36	85	6	6	-	-	10	10	2500	1	*
1001·3	+36	WSW	3	bc	50	75	7	5	3	1	Tr	2-3	2500	1	2
999·3	+44	WSW	4	c	43	75	8	8	7	-	4-6	7-8	1500	1	2
999·2	+12	SW	8	c/pr	46	85	7	8	7	-	4-6	7-8	800	1	*
1014·4	+38	W	4	bc	43	85	8	4	-	-	2-3	2-3	1500	1	5
1009·2	+40	SW'W	5	bc	45	85	7	4	-	-	2-3	2-3	800	1	4
1013·0	+50	WSW	4	bc	42	75	8	5	-	-	1	1	2500	1	*
1015·8	+3G	SW	2	c	44	75	8	5	-	-	7-8	7-8	1500	1	*
1012·2	+30	WNW	4	c	48	85	8	5	-	-	7-8	7-8	2500	1	3
1019·4	+38	WNW	3	b	47	85	8	-	4	-	0	1	-	1	4

PAST 24 HOURS.

Temperatures. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 20th Hrs. (36)
52	47	45	-	-	0·1
52	47	45	Tr	-	0·1
51	46	44	Tr	-	0·4
51	45	43	-	-	0·1
51	42	41	-	Tr	0·5
51	45	43	-	-	0·4
51	45	42	-	-	0·1
52	46	43	-	-	0·2
51	44	39	-	-	0·0
50	44	40	-	-	0·0
52	45	38	-	Tr	0·4
51	43	35	-	-	0·1
50	45	43	-	Tr	0·0
49	44	39	Tr	-	*
51	47	44	-	Tr	0·1
50	47	43	0·1	Tr	0·0
50	46	*	-	-	*
50	49	47	0·2	0·1	0·4
51	48	*	-	Tr	0·5
53	49	*	-	0·1	3·9
51	48	45	-	-	4·5
50	48	*	-	1	0·0
50	48	47	Tr	2	0·0
53	50	46	0·5	0·5	0·0
52	48	44	Tr	2	0·0
49	44	*	-	-	0·0
50	48	46	-	0·2	0·0
52	48	44	-	-	0·0
49	40	39	6	5	0·0
50	38	*	7	11	0·0
48	36	32	1	14	0·0
50	47	45	Tr	Tr	0·0
49	43	*	Tr	0·1	*
49	43	*	2	2	0·0
54	35	*	3	10	*
52	42	*	-	4	0·0
52	41	36	-	1	0·0
54	41	*	-	4	0·3
52	47	42	0·3	4	0·9
51	42	*	0·4	5	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day mm.	Rainfall. Night mm.	Sunshine to Sunset hrs	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday		To-day.	
Kew	18	cm cz	cz cm	cm	52	47	45	-	-	0·1	*	*	6
Croydon	217	cm	cz	cz	52	47	45	Tr	-	0·1	*	*	6
Greenwich (Royal Observatory) ...	149	c	c	c	52	47	44	-	Tr	0·1	72	85	6
City (Guildhall Slow)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	52	48	45	-	-	0·0	74	85	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	~~48~~ 51	~~41~~ 44	40	-	-	0·0	56	92	*
Camden Square	110	c	c	*	51	47	45	-	-		*	85	*
Kensington	80	co	co	*	52	48	43	-	-	0·1	At 18h. 73	85	*
Hampstead Observatory	450	c	o	o	50	45	41	-	-	0·0	*	91	*

FOREIGN OBSERVATIONS

18h G.M.T. 20th January

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1027·4	WSW	4	c	48
Brussels					
Berlin	1021·0	NW	4	c	41
Zurich	1028·6	SE	1	rs	34
Rome	1013·3	N	6	b	48

7h. G.M.T. 21st January

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
1029·2	SW	2	z	41
1025·4	SW	3	c	45
1026·7	-	0	z	37
1030·5	SE	1	z	34

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
50	41	Tr	-
	45		Tr
43	37	4	-
41	34	2	*
		Tr	

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·3	17·10h 20th	0·3	1-4h 21st

Kew Observatory. Max.	Time.	Min.	Time.
0·2	18h 20th	0·1	0-7h 21st

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

Objects not visible at

0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6½ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

† hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 6 h. ‖ Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 22nd January, 1938.
No. 27820.

DISTRICT.	STATIONS. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 21st January														OBSERVATIONS at 18h. G.M.T. 21st January														PAST 24 HOURS.			
		Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force 0–12	Weather.	°Temp. F.	%Humid.	Visibility 0–9	Cloud. Form. Low	Cloud. Form. Med.	Cloud. Form. High	Cloud. Amount. Low 0–10	Cloud. Amount. Total 0–10	Height of Base (feet)	Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force 0–12	Weather.	°Temp. F.	%Humid.	Visibility 0–9	Cloud. Form. Low	Cloud. Form. Med.	Cloud. Form. High	Cloud. Amount. Low 0–10	Cloud. Amount. Total 0–10	Height of Base (feet)	State of Ground. 0–9	Sea. 0–9	Weather. 7h.–18h. 21st	Weather. 18h.–18h. 21st	Weather. 18h. 21st to 1h. 22nd	Weather. 1h.–7h. 22nd
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(37)	(38)	(39)	(40)
1	London (Kew)	1023·4	+2	SW'S	3	z.	50	92	5	5	–	–	10	10	1500	1025·5	+2·6	EN	1	m	48	85	4	5	–	–	10	10	1500	1	*	ir. cm.	cd. m cm	cm nbcF+	cm.
	Croydon ...	1023·5	+6	SWW	4	z.	50	92	6	5	–	–	10	10	800	1026·7	+1·8	ENE	2	o/d	47	92	4	6	–	–	10	10	1500	1	*	cl d.c	d.d.m df	am fbf Fm	bm cm.
	S. Farnborough	1023·2	-2	SW	4	c	51	92	6	5	–	–	10	10	800	1027·2	+2·6	ENE	1	c	48	92	6	5	–	–	10	10	2500	1	*	cir. m. c	cd. o ld. c	c ffe	cffc
	Boscombe Down	1023·6	+6	SW	3	ir.	49	97	6	5	2	–	9+	10	450	1027·1	+2·6	N	1	z.	46	92	6	5	2	–	7-8	10	2500	1	*	old. c ir.	cir. m.	cm bcf	cff
	Calshot (Sthmtn.)	1024·1	+4	WSW	5	dd	49	97	5	5	2	–	7-8	10	800	1026·8	+2·2	–	0	o/d	47	97	6	5	–	–	10	10	800	1	2	c ddd m.	dd. ddm	cm bcbm	bm cm.
	Lympne ...	1025·1	+2	SW	4	df	46	97	3	–	–	–	10	10	1150	1027·3	+1·6	SW	1	df	47	92	1	–	–	9	10	10	1150	1	§ 2	om. id. f	f d. o f d	df d. o	cm.
	Manston ...	1024·1	+4	SW	5	c	49	85	7	5	–	–	10	10	1500	1026·5	+1·2	–	0	d. d. o.	48	97	4	6	–	–	10	10	800	1	*	c	od. m dm	od. f	bcc m.
2	Shoeburyness ...	1023·3	+4	SW'S	4	c	49	92	6	5	2	–	9+	10	1500	1026·6	+2·0	NNW	2	o/d	48	97	5	5	–	–	10	10	800	1	*	cm.	m d. o. m.	bom m.	cm d df
	Felixstowe ...	1022·9	+6	SSW	4	z.	49	85	6	5	–	–	10	10	1500	1026·8	+2·4	WNW	1	o/d	47	92	5	5	–	–	10	10	800	1	2	bcc	odd d. d.	bcm bm.	xbc m.
	Gorleston ...	1021·9	+12	SWW	3	c	50	85	6	5	–	–	10	10	2500	1025·8	+2·4	NW	2	c	47	85	5	5	–	–	7-8	7-8	2500	1	2	c pr o c	or. o cz.	c bcz.	cbcz.
	Mildenhall ...	1021·4	+6	WSW	4	c	51	85	7	5	2	–	9+	10	1500	1026·4	+2·4	NNW	2	z.	43	97	6	5	3	–	4-6	10	5700	1	*	c m. o c	e c m.	cm bm	bm bmx
	Cranwell ...	1021·4	+3·4	WS	3	c	49	75	7	5	4	2	7-8	9+	4000	1026·6	+3·0	W'S	3	z.	39	75	6	–	4	–	0	2-3	–	1	*	cir. d. m.	cbcz.	bcz. bm.	bm cm.
3	Birmingham ...	1022·0	+1·6	WNW	2	c	48	75	6	5	7	–	7-8	10	1500	1026·8	+2·4	–	0	m	44	65	4	–	7	–	0	7-8	–	1	*	ir. o c	cbcc	cf b	bbc
	Upper Heyford	1022·6	+1·0	W'N	3	c/r	49	92	7	5	2	–	9+	10	800	1027·0	+2·6	N	1	c	45	85	6	5	7	–	4-6	9+	2500	1	*	cr. o c	cr. o c	bcb m	bcc m.
4	Ross-on-Wye	1022·7	+1·6	W	2	c	50	75	8	5	–	2	2-3	7-8	4000	1026·9	+2·6	NE	1	z.	44	75	6	–	7	8	0	9	–	1	*	d r. o. d. o. c	cbcc	cm. br. w	bm w cm
5	Bristol ...	1023·2	+6	W'S	3	c/d	50	97	6	5	7	–	4-6	10	800	1027·0	+2·0	W'S	1	z.	45	92	6	5	3	–	2-3	9+	1500	1	*	d o r r.	c d. o c	c bw	bwc
	Portland Bill ...	1023·6	+2	WSW	5	dd	49	92	6	5	–	–	10	10	1500	1026·3	+2·4	NE	3	o/d	48	92	7	5	–	–	10	10	1500	1	4	odd	o d d	bcc	cbc
	Plymouth ...	1024·1	+4	W	2	d. o. d.	51	97	5	6	2	–	9	10	450	1027·0	+1·6	–	0	z.	50	85	5	5	3	–	2-3	7-8	4000	1	1	o d. o. d. m.	c d. o. d. m.	c bw bc	bcc m
	The Lizard ...	1024·7	+4	NW	3	r. r.	49	97	5	5	–	–	10	10	800	1026·2	+1·0	–	0	bc	47	97	7	5	4	–	2-3	4-6	2500	1	2	r o r m.	r o r m c	bc ff	FFe
	Scilly (St. Mary's)	1025·1	+1·4	NW	2	c	50	97	8	5	7	–	4-6	9+	2500	1027·3	+1·4	NE	1	bc	47	97	7	5	3	3	2-3	4-6	2500	1	2	dd ffe	cbc	bc e of	offe
	Guernsey ...	1026·2	-4	SW	4	i d. o	49	92	4	5	–	–	10	10	1500	1027·8	+1·2	SW	3	r. r.	49	97	6	5	–	–	10	10	1500	1	3	c i d dd	i d. o r.	r. r d	id idf
6	Pembroke ...	1023·9	+1·6	NW	3	bc	49	75	7	–	7	1	0	2-3	–	1027·3	+1·8	N	1	c	45	85	7	5	7	–	4-6	9	4000	1	2	c ir. bc	bcc	bbc wc	cw
7	Holyhead ...	1022·8	+3·0	W	3	bc	49	55	8	–	3	8	0	4-6	–	1025·9	+2·2	SW'W	2	c	43	85	7	–	–	8	0	7-8	–	1	1	c, bc	bcyc ⊕	bm o	mc
	Chester (Sealand)	1023·0	+2·0	NW	4	bc	49	55	7	5	7	–	Tr	4-6	2500	1026·8	+2·6	W	1	z.	43	65	5	–	7	2	0	9	–	1	*	cr r. m. boy	bcyc z. o	cbz	bz bcc m
8	Manchester ...	1021·8	+3·0	W	4	bc	47	65	7	–	–	2	0	4-6	–	1026·5	+3·0	WSW	2	z.	39	85	5	–	5	2	0	4-6	–	1	*	rr d bc	bcc z. o	b bm.	b cm
10	Spurn Head ...	1020·1	+2·4	NWW	4	c	46	75	7	–	6	6	0	7-8	–	1025·8	+2·6	WNW	3	z.	42	75	5	–	–	8	0	4-6	–	0	2	q o c	cbc	m bc	bcm c
	Catterick ...	1020·2	+3·6	W'S	3	c	48	45	9	5	–	6	Tr	9	2500	1024·7	+2·8	SW	3	b	41	65	8	–	3	–	0	1	–	1	*	cy	cybcb	bbw	bwcm
	Tynemouth ...	1017·8	+2·8	W	3	bc	46	65	6	5	–	1	4-6	4-6	1500	1023·1	+2·6	SW	2	bc	45	65	6	5	3	–	2-3	2-3	1500	1	1	bc	bccbc	bcc	o
11	St Abbs Head ...	1014·2	+3·2	W	6	bc	44	65	7	–	7	–	0	2-3	–	1020·6	+1·6	W	3	bc	42	65	7	–	4	–	0	2-3	7200	0	4	b	b	bc	bcc
	Leuchars ...	1014·2	+3·8	WSW	5	bc	44	65	7	2	–	–	2-3	2-3	1500	1018·6	+1·4	SW	4	b	40	85	7	5	–	–	1	1	2500	1	*	q pr. bq	bq prob	prqd b	bc
12	Renfrew (Abbotsl.)	1016·1	+3·0	WSW	6	q	47	75	8	8	–	3	7-8	7-8	2500	1020·2	+2·2	SW	3	pr	43	85	7	8	–	–	10	10	1500	1	*	bcpr q	cpr rq	bcc pr b	bcc mir.
	Eskdalemuir ...	1018·3	+2·4	SWW	5	bc	41	65	8	5	5	6	1	4-6	2500	1021·2	+1·0	WSW	6	bc	39	75	8	5	7	–	1	2-3	2500	1	*	cbc	cbc	bcb	bbcc
	Point of Ayre ...	1020·6	+3·2	W'N	4	bc	47	65	8	–	–	6	0	4-6	–	1024·1	+2·2	W	3	bc	44	75	7	–	–	6	0	4-6	–	0	2	cbc	bc	bcc	c
13A	Tiree	1012·2	+3·0	W'N	6	bc	45	75	7	2	3	–	2-3	4-6	2500	1016·3	+2·0	W	5	bc	45	75	7	4	3	–	1	2-3	2500	1	4	Thr q bc	bc	dr.	e
13B	Stornoway ...	1005·2	+2·4	WSW	7	c/phr	37	92	7	3	7	–	9	9+	1500	1010·8	+2·4	SW	6	pr. q	42	75	8	3	7	–	4-6	4-6	2500	1	3	c ph. d hr tq	c phr pr q	bc pr q	bcc r.
15	Dalwhinnie ...	1012·6	+3·6	SW	6	c	40	65	8	8	6	–	7-8	9+	2500	*	+2·0	SW	2	bc	35	85	7	4	6	–	2-3	4-6	2500	1	*	c. s r. s	c ir	*	cir
	Aberdeen ...	1010·9	+3·8	WS	5	bc	46	55	8	5	–	–	Tr	Tr	2500	1016·7	+4·0	WSW	3	b	41	75	7	5	–	–	Tr	Tr	2500	1	2	b a y	b y b	b bc	bcc
	Wick ...	1006·1	+5·2	W	6	prs	40	75	8	5	7	–	7-8	9	1500	1011·3	+3·0	SW	5	bc	38	85	8	5	7	–	2-3	4-6	1500	1	2	cprs q	bc	bcl	bcc
16	Lerwick ...	997·7	+4·6	WSW	8	bc/phr	39	85	8	8	7	–	4-6	4-6	1500	1005·9	+4·4	W	7	ph	40	92	7	8	2	–	7-8	10	800	1	*	phr q	bc ph r q	phr q l	bc ph r q
17	Blacksod Point	1019·3	+2·0	W	6	q	48	75	8	8	–	–	0	4-6	1500	1021·4	+1·4	W	4	bc	47	65	8	3	–	–	2-3	2-3	1500	0	5	bc q	bc q	c q	i Dr q
18	Malin Head ...	1016·0	+1·8	SW	4	c	44	97	6	4	–	–	2-3	4-6	800	1018·6	+2·8	SW	4	s/pr	44	97	6	8	–	–	7-8	7-8	800	1	3	bc ph bpr.	cpr.	cbcb c	c
	Aldergrove ...	1019·6	+2·6	SW	4	c	43	65	7	5	–	6	1	7-8	5700	1022·5	+1·8	SW	3	c	41	75	7	–	–	9	0	7-8	–	1	*	b, c	cbcc	cbc	cid m c
19	Birr Castle ...	1022·7	+2·6	S	2	c	47	65	8	5	7	–	2-3	7-8	2500	1024·4	+1·0	S	1	bc	40	85	8	5	–	–	2-3	2-3	2500	1	*	c	cbc	bc	bcc
20	Valentia Obsy. †	1024·0	+1·6	SWW	3	c	49	55	8	5	7	–	Tr	10	2500	1025·3	+1·6	S'W	3	bc	43	75	8	–	3	2	0	4-6	–	1	3	cbccy	cycbc	bcc	c. id c
	Roches Point	1024·8	+1·8	SW	2	c	48	75	8	–	7	7	0	9	–	1026·5	+1·2	WS	2	bc	44	92	8	5	4	5	2-3	4-6	1500	1	3	bbcc	cbc	bcc	id rffe

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 23.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.

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

§ Sea disturbance reported from Dungeness.

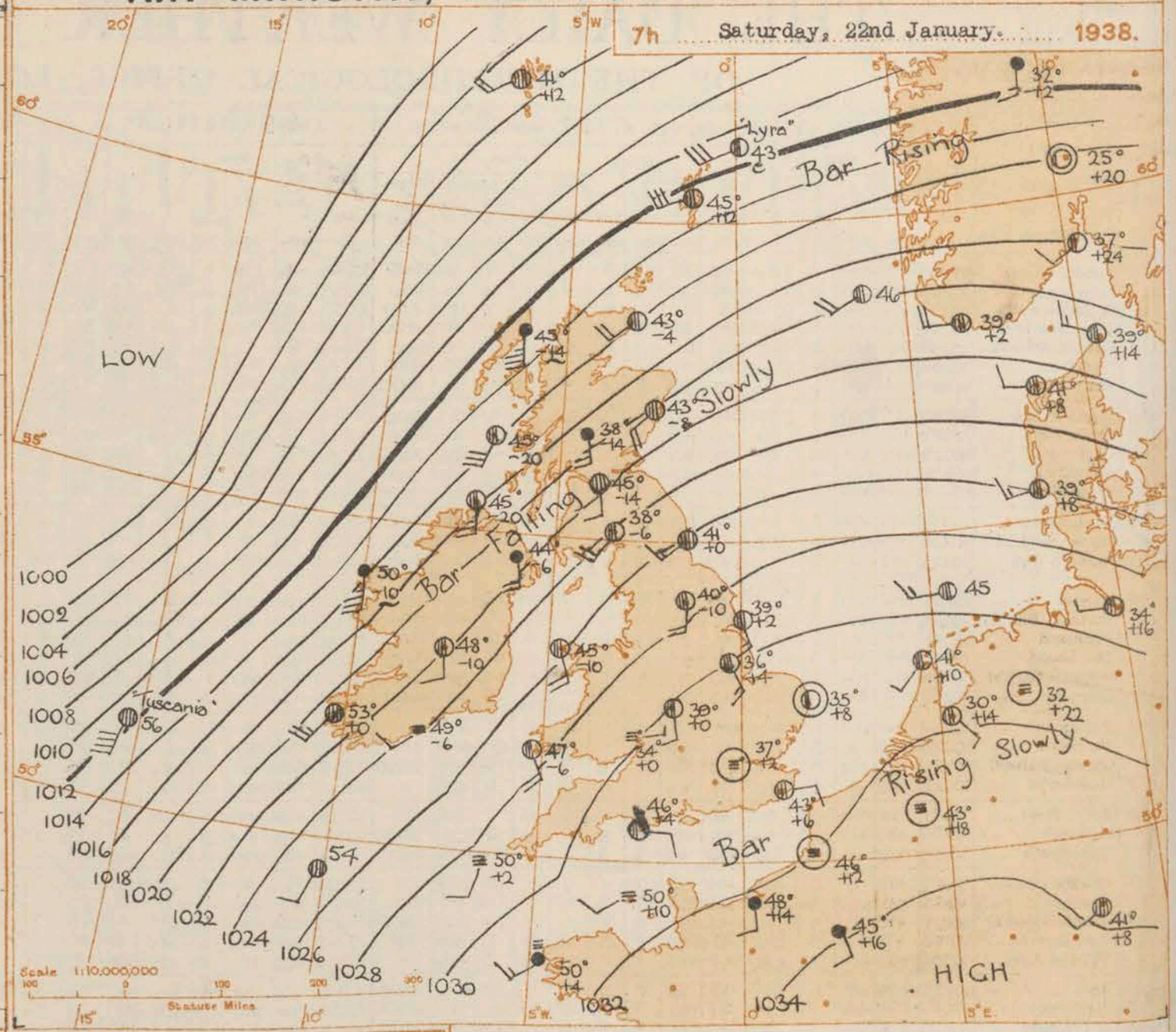
REPORTS from HEALTH RESORTS for January 21st 1938.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 20th to 9h. 21st	Temperature. (°F.) Max. 9h.—17h. 21st	Rainfall. (mm.) Night. 17h. 20th to 9h. 21st	Rainfall. (mm.) Day. 9h.—17h. 21st	Sunshine (hrs) Sunrise to Sunset. 21st
1	Tunbridge W.	od	odd	45	48	Trace	0·3	0·0
	Bournemouth	odd	lr o	47	50	Trace	1	0·0
	Ventnor ...	poum	orm	46	49	0·3	1	0·0
	Southsea ...	o	or o	48	50	–	0·6	0·0
	Bognor Regis	oir	oir	47	48	Trace	0·5	0·0
	Littlehampton	o	od	47	48	0·2	0·5	0·0
	Worthing ...	od	od	47	48	0·3	0·5	0·0
	Brighton ...	cdd	cd	47	49	–	1	0·0
	Eastbourne† ...	or o	dr dd	48	50	–	2	0·0
	Hastings† ...	od od	odd	46	49	–	1	0·0
	Folkestone ..	oid o	od	46	48	Trace	1	0·0
	Dover ...	cod	diro	43	50	–	0·5	0·0
	Deal	oco	or r o	46	49	–	Trace	0·1
	Ramsgate ...	co	od	47	50	–	Trace	0·1
	Margate ...	c	cd	46	50	–	0·3	0·2
2	Southend ...	o	odf	43	48	–	0·5	0·0
	Clacton-on-Sea	co	ogdm	43	48	–	0·1	0·0
	Dovercourt ...	oc	odoc	43	50	–	0·3	0·2
	Lowestoft ...	c d or	cjr	42	50	–	0·5	0·0
	Skegness ...	copod	cbc	42	52	–	Trace	0·9
	Mablethorpe...	bccop	bc	43	51	–	Trace	0·7
	Cleethorpes ...	cbc	c	44	51	–	–	1·5
3	Leamington S.	op	c	47	51	Trace	0·5	0·4
4	Cheltenham†	oroc	cbcc	46	50	Trace	0·5	0·5
5	Bath	cr	r c	48	51	Trace	1	0·0
	Weymouth ...	oc	cdm	48	51	–	1	0·0
	Jersey ...	pc	cdo	47	49	Trace	Trace	0·1
	Torquay ...	bccdp	ocbc	49	53	–	0·3	0·0
	Falmouth	omgdr	c	49	52	1	2	0·0
	Penzance ...	p	cbcb	49	52	1	1	0·0
	St. Ives ...	d	c	41	49	2	0·5	1·8
	Bude... ...	e	bc	47	49	1	–	0·9
	Ilfracombe ...	carr	rocbc	49	51	3	1	0·8
6	Aberystwyth	prcbc	bcc	43	47	5	–	2·9
7	Llandudno ...	cbcb	bbcc	47	49	3	–	4·5
	Colwyn Bay...	cbcbc	bcbcb	47	49	1	–	4·8
	Rhyl	cbc	bcb	48	50	0·4	–	4·8
8	Wallasey ...	cbc	bc	45	49	1	–	5·0
	Southport ...	cbcb	bc	45	49	3	–	5·1
	Blackpool ...	cm bc	bbcm o	46	47	2	–	5·2
	Morecambe ...	cbcbc	bbcbc	44	47	2	–	5·0
9	Ilkley... ...	orocb	b	47	49	2	–	5·5
	Harrogate ...	cb	bcb	47	48	0·4	–	5·4
10	Berwick-on-T.	b	b	45	47	0·2	–	4·8
11	Dunbar ...	bcm o	bcm o	43	46	–	–	4·9
12	Troon... ...	bcbc	pbcpc	44	47	3	2	*0·9
	Douglas ...	bclr	bc	43	48	0·5	–	1·2

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h ..... Saturday, 22nd January. ..... 1938.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
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. 22nd January, 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate south winds; cloudy, occasional rain or drizzle; becoming mild.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Fresh south to southwest winds; dull, intermittent rain at first; local drizzle later; coastal fog; mild.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Fresh or strong south to southwest winds; cloudy, occasional rain; becoming mild.
13 A. W. Scotld. ▼ 13 B.N.W.Scotland ▼ 14 Mid Scotland 15 N. E. Scotland ▼ 16 Orkney and Shetland ▼	South to southwest winds, strong to a gale ; cloudy, occasional rain; becoming mild.
17 N. W. Ireland ▼ 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland ▼	South to southwest winds, strong to gale; cloudy, local rain or drizzle; mild.

H.M. Stationery Office Press, Kingsway, W.C.2. S.330/3398. Wt.6029. D.4513. Cp.848. 25/10. 1/38.

GENERAL INFERENCE.

A deep depression west of Ireland is moving northeast. After a period of rain at first in the West and North and later in the East, weather will become mild generally with rain or drizzle locally.

FURTHER OUTLOOK.

Mild and Unsettled.

Time of Issue of Gale Warnings.

▼ South Cone hoisted at 2000 on 21/1/38 in districts 17 and 20; at 0530 on 22/1/38 in districts 13A. and 13B.; at 0930 on 22/1/38 in districts 15 and 16.

Forecasts issued at 1020 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

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

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

SATURDAY, 22ND JANUARY.

1938.

Clarke's Projection Scale 1: 4·X 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—◯

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. ✱Sleet. △Hail. ≡Fog. ≡Mist. ⟨8⟩Thunder. ⚡Thunderstorm. ○=Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 22nd January, 1938.

No. 27820.

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

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	1030·0	+6	-	0	m	39	92	4	5	-	-	2-3	2-3	1500
	S. Farnborough	229	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1030·1	+10	NE	3	N°	44	85	5	5	-	-	10	10	1500
	Manston ...	142	1030·0	+8	NNE	3	N°	43	85	5	5	-	-	4-6	4-6	4000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1030·1	+21	SW/W	2	bc	37	85	6	-	3	-	0	2-3	-
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1029·7	+4	N	2	c	43	92	7	4	-	-	10	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1029·1	-2	E	2	f	47	97	3	5	-	-	10	10	800
	Scilly (St. Mary's)	163	1028·2	-6	SSE	3	f+	48	97	2	-	-	-	10	10	1150
	Guernsey ..	175	1029·3	+6	SW/W	1	d.d.	50	97	4	5	-	-	10	10	1500
6	Pembroke ...	142	1028·4	0	SE	3	c	46	75	7	5	-	-	7-8	7-8	2500
7	Holyhead ...	26	1027·2	+2	S'E	3	c	44	92	6	5	-	-	10	10	2500
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1029·1	+6	WSW	2	N.	38	85	5	5	-	-	4-6	4-6	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1026·0	+6	W	2	c	40	85	6	5	-	-	7-8	7-8	1500
11	St. Abb's Head ..	280	1028·4	+24	SW	4	bc	40	75	7	-	3	1	0	4-6	-
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1026·3	+4	WSW	4	c	43	75	7	-	4	6	0	7-8	-
13a	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13b	Stornoway ...	80	1014·8	+12	SSW	5	bc	45	85	8	5	-	-	2-3	2-3	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1015·8	+10	SW	3	bc	40	85	8	5	7	-	2-3	4-6	1500
16	Lerwick ...	156	1010·2	+4	WSW	7	bc	44	85	8	8	2	-	4-6	4-6	800
17	Blacksod Point	18	1020·1	-8	S	7	q	47	75	7	9	-	-	10	10	800
18	Malin Head ...	84	1021·1	+2	S	4	c	42	97	7	5	-	-	9	9	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1023·0	-19	S	4	o	49	97	7	5	-	-	10	10	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. January 22nd

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)
1030·7	+6	ESE	1	N°	40	92	5	5	-	-	10	10	1500	1	*
1030·4	+2	-	0	m	37	92	4	-	3	6	0	7-8	-	1	*
1030·4	+4	-	0	f	38	97	3	5	-	-	9+	9+	1500	1	*
1030·3	+4	SE'E	1	f	38	97	2	5	-	-	10	10	1150	1	*
1030·1	+8	ESE	1	N°	44	97	6	5	-	-	10	10	1500	1	0
1030·5	+6	E	2	N°	43	85	6	5	3	-	7-8	9	4000	1	1
1030·5	+6	SE'E	2	N°	43	85	5	5	7	-	2-3	7-8	4000	1	*
1030·9	+2	NE	1	m	37	97	4	5	7	-	2-3	9+	2500	1	*
1031·2	+2	-	0	N°	37	97	6	5	3	-	4-6	7-8	4000	1	2
1031·3	+3	-	0	bc	35	85	6	5	-	-	4-6	4-6	2500	1	1
1030·9	+2	SE	2	m	31	97	4	-	5	2	0	2-3	-	3	*
1030·0	+4	SSE	3	N°	36	85	6	5	7	-	2-3	9	4000	1	*
1029·5	0	S	2	c	39	75	7	-	-	6	0	7-8	-	1	*
1030·5	+2	SE	1	N°	36	85	5	5	7	6	2-3	9	4000	3	*
1029·2	0	E	1	m	34	97	4	-	7	-	0	9	-	1	*
1029·8	-2	-	0	N°	35	97	6	5	3	-	2-3	9	5700	1	*
1029·0	+4	ESE	2	bc	46	92	7	4	-	-	4-6	4-6	2500	1	3
1025·5	+2	NE	1	m	43	97	4	5	-	-	10	10	450	1	0
1029·3	+4	SSW	2	F	49	97	1	5	-	-	10	10	220	1	2
1028·4	+2	S'W	3	f	50	97	2	-	-	-	10	10	1150	1	2
1030·3	+10	SW	2	f	50	97	3	5	-	-	10	10	800	1	3
1027·2	-6	S'E	4	c	47	97	7	5	2	-	4-6	9+	2500	1	2
1025·6	-10	S'E	4	c	45	95	7	5	3	-	4-6	10	4000	1	2
1027·7	-10	SE	3	N°	37	85	6	5	3	-	7	10	2500	1	*
1028·2	-10	S'E	3	N°	39	75	5	5	-	-	10	10	5700	1	*
1029·0	+2	SSE	3	c	39	95	6	5	1	5	4-6	7-8	2500	0	2
1026·6	-10	S'W	4	N°	40	75	6	5	7	-	2-3	9	2500	1	*
1026·1	0	SW	3	o	41	75	6	5	-	-	10	10	800	1	1
1022·2	-12	WSW	5	c	42	75	7	4	7	1	2-3	9	2500	0	3
1021·5	-8	WSW	3	c	41	75	8	-	7	-	0	9+	-	1	*
1021·6	-14	S	2	c/r	45	95	6	5	-	-	10	10	2500	1	*
1025·0	-6	SSW	4	c	38	65	7	5	-	-	10	10	1500	1	*
1024·6	-6	SSW	4	c	46	75	7	2	2	-	Tr	10	2500	0	3
1015·4	-20	SSW	6	c	45	85	7	5	-	-	10	10	2500	0	*
1012·1	-14	S	7	r,c	45	95	7	5	2	-	4-6	10	2500	1	4
1020·9	-14	S	5	r.	39	75	7	4	2	-	4-6	10	2500	0	*
1020·2	-8	SW	4	c	43	75	7	-	7	-	0	10	-	1	1
1016·1	-4	SW	4	c	43	75	8	5	1	-	7-8	9	1500	1	2
1013·3	+12	WSW	6	c	45	92	8	8	7	-	4-6	7-8	800	1	*
1015·6	-10	S	7	Dr	50	97	6	6	-	-	10	10	450	1	5
1015·8	-20	S	5	c	45	97	7	8	-	-	9	9	1500	0	3
1021·0	-6	S	4	id	44	85	6	5	-	-	10	10	1500	1	*
1021·4	-10	S	2	c	48	92	9	5	-	-	9+	9+	1500	1	*
1021·4	0	SSW	5	c/d	53	97	6	5	-	-	10	10	800	1	3
1024·2	-6	SW	2	f	49	97	3	5	-	-	10	10	1150	1	3

PAST 24 HOURS.

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 20·1 Hrs. (36)
50	37	29	0·1	Tr	0·0
50	37	34	0·2	Tr	0·0
51	35	32	0·1	0·1	0·0
50	37	34	0·2	-	0·0
50	43	41	1	0·1	0·0
47	42	40	1	0·6	0·0
49	38	33	0·5	0·1	0·0
50	36	28	0·2	Tr	0·0
49	35	25	0·4	-	0·2
51	35	30	0·2	-	0·0
-	-	28	-	Tr	0·0
51	34	26	Tr	-	0·5
49	37	27	1	-	0·8
50	35	24	Tr	-	*
51	33	24	1	-	1·1
51	35	30	8	-	0·0
50	42	*	1	-	*
51	38	35	1	-	*
50	45	*	2	0·3	0·0
51	44	*	1	0·2	0·2
50	49	48	2	2	0·0
50	42	*	0·4	-	1·8
50	42	35	-	-	4·9
53	32	31	0·5	-	4·1
51	31	24	2	-	5·2
48	37	*	-	-	1·9
52	37	29	Tr	-	1·8
52	40	34	-	-	0·3
*	*	*	*	*	*
47	38	35	Tr	Tr	4·9
47	40	37	2	Tr	2·7
46	33	29	0·2	Tr	2·1
48	39	*	-	-	0·7
47	43	40	0·3	Tr	2·8
44	41	*	5	0·3	1·0
41	35	34	1	0·5	0·9
50	39	34	-	-	5·8
44	37	*	0·3	-	*
47	38	*	2	3	0·4
52	47	*	-	1	*
47	40	*	1	-	2·8
44	38	33	-	Tr	1·4
47	37	*	-	-	2·2
49	43	35	-	1	1·1

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	ir.cm.	cd.mcm	cmbcf	50	37	29	0·1	Tr	0·0	*	*	2
Croydon	217	cid.c	dd.mdf	cmfbFg	50	37	34	0·6	Tr	0·0	*	*	3
Greenwich (Royal Observatory)...	149	o	odd.	cbcm	50	37	29	0·5	-	0·0	96	93	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*		*	*	*
Westminster (St. James' Park) ...	27	*	*	*	51	43	36	0·4		0·0	93	93	*
Regents Pk. (Botanic Gardens)†...	168	*	*	*	51	39	31	0·5	!	0·0	93	91	*
Camden Square	110	c	cd	*	50	38	29	Tr	.	*	*	96	*
Kensington	80	bc	cod	*	51	39	30	0·5	Tr	0·0	91	At 18h. 84	*
Hampstead Observatory	450	odbc	bc	bcm	49	34	29	0·4	-	0·0	*	93	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 22nd

South Kensington.

Max.	Time.	Min.	Time.
1·0	21·22h 21st	403	10-12h 21st

Kew Observatory.

Max.	Time.	Min.	Time.
0·8	3h 22nd	40·1	7h 21st

FOREIGN OBSERVATIONS.

18h G.M.T. 21st. January

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1029·8	SW	2	c/d	46
Brussels					
Berlin	1025·1	SSW	4	c	41
Zurich					
Hoek	1014·9	N	7	c	46

7h. G.M.T. 22nd January

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
1039·0	SSE	2	d.d.	45
1038·2	-	0	f	43
1029·6	WNW	3	N°	39
1035·6	SSE	1	c/r	34
1020·7	NE'N	6	bc	45

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
46	41	Tr	2
45	37	-	4
	34		0·2
*	*	5	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	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.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S. Director.

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

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h.

§ Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 23rd January, 1938.

No. 27821.

District	Stations. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 22nd January														OBSERVATIONS at 18h. G.M.T. 22nd January														PAST 24 HOURS.			
		Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force 0–12	Weather.	°F. Temp.	% 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)	Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force 0–12	Weather.	°F. Temp.	% 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	Weather. 7h.–18h. 22nd	Weather. 12h.–18h. 22nd	Weather. 18h. 22nd to 1h. 23rd	Weather. 1h.–7h. 23rd
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(37)	(38)	(39)	(40)
1	London (Kew)	1030.7	- 6	SSW	3	z_o	48	92	5	5	-	-	10	10	1500	1032.0	+12	SW'W	2	z_o	45	92	5	5	-	-	10	10	1500	1	*	cm$_o$fcm$_o$	cm$_o$	cm$_o$	bcwbw
	Croydon ...	1030.9	- 4	SW's	3	z_o	48	85	6	5	3	-	2-3	9	1500	1031.6	+10	SSW	2	z_o	49	92	5	5	-	-	10	10	800	1	*	bcmfcm$_o$	cm$_o$	cm$_o$	cm$_o$d$_o$b
	S. Farnborough	1030.8	- 6	SW	3	z_o	48	92	6	5	3	-	9	9+	800	1031.8	+12	SSW	2	z_o	49	97	6	5	1	-	10	10	450	1	*	cf f m$_o$	cm$_o$ d$_o$ cm$_o$	cm$_o$ c	cb, cbw
	Boscombe Down	1030.8	- 6	SSW	3		47	97	3	-	-	-	10	10	4150	1031.6	+16	S'W	3	f	49	97	2	-	-	-	10	10	4150	1	*	off id$_o$	om off	off om	cbc m$_o$
	Calshot (Sthmtn.)	1031.1	- 4	SSW	2		48	97	5	5	-	-	10	10	800	1031.9	+12	SW's	3	c/f	49	97	6	5	-	-	10	10	800	1	2	affed$_o$	cm$_o$ofe	cm$_o$ d$_o$ d$_o$ m$_o$	cddm$_o$
	Lympne ...	1031.3	- 2	WSW	2		47	85	5	5	2	-	9	10	800	1032.5	+8	SW	2	m	46	92	4	5	-	-	10	10	450	1	$ 0	f f om	cbcm$_o$	om F	Fe
	Manston ...	1030.8	- 2	SSW	3	z_o	47	97	6	5	2	-	9	10	800	1031.7	+8	SW's	2	z_o	44	92	5	5	7	-	4-6	7-8	2500	1	*	FF om	cbcm$_o$	bccm$_o$	cbm$_o$w
2	Shoeburyness ...	1030.8	- 6	SSW	2	m	47	85	4	-	3	-	0	9+	-	1031.5	+10	SW	2	m	47	92	4	-	3	-	0	9+	-	1	*	cm	cm	cmbw	bwcb
	Felixstowe ...	1031.2	- 4	SSE	2	f	42	97	2	-	-	-	10	10	4150	1031.2	+4	SSW	2	m	43	97	4	5	3	-	9	9+	1500	1	1	bcm$_o$ off	Fe b fcm	cm$_o$ id$_o$	cm$_o$
	Gorleston ...	1030.4	- 6	SSE	3	f	43	85	6	-	3	-	0	7-8	-	1030.0	+4	S	3	z_o	43	92	5	5	2	-	7-8	7-8	2500	1	2	bccz$_o$	offcz	cbz.z	bzbcw
	Mildenhall ...	1029.7	- 12	SSW	3		47	85	6	-	3	-	0	7-8	-	1030.0	+6	S'W	3	z_o	47	92	5	5	-	-	4.6	4.6	4000	1	*	bm, cm$_o$	cm$_o$	cm$_o$ bmbm	bm$_o$wcm
	Cranwell ...	1028.4	- 18	SSW	3	z_o	48	75	6	5	3	5	2-3	9	5700	1028.4	+6	SW	4	z_o	47	85	6	5	4	-	2-3	7-8	4000	1	*	cm$_o$ bcz$_o$	cz$_o$	bcm$_o$ bc	bcw
3	Birmingham ...	1028.5	- 4	SSW	3	c	45	75	5	5	2	-	7-8	10	1500	1029.0	+6	SSE	2	c	47	92	5	-	3	-	0	9	-	1	*	cbcc	c	cbcc	c
	Upper Heyford	1030.2	- 10	S'W	3	m/f	44	97	4	5	3	-	9+	9+	450	1031.1	+10	S'W	3	z_o	47	97	5	5	-	-	10	10	450	1	*	cm$_o$ of	cm m$_o$	cm$_o$	cm$_o$
4	Ross-on-Wye	1028.9	- 6	S	2	z_o	49	75	6	5	7	-	2-3	9+	2500	1029.6	+4	SW	3	z_o	50	92	6	5	7	-	7-8	9+	2500	1	*	cm z	cz om$_o$ cm$_o$	cm$_o$ bm$_o$	c
5	Bristol ...	1029.9	- 6	SW	2	id$_o$	50	92	7	5	7	-	4-6	9+	800	1030.4	+6	SW	1	z_o	52	92	6	5	-	[illegible]	7-8	7-8	1500	1	*	cm$_o$c	cd$_o$m$_o$	cm$_o$id$_o$	cid$_o$bc
	Portland Bill ...	1030.3	+ 6	WSW	3	f	49	92	3	5	-	-	10	10	4150	1031.5	+8	WSW	3	f	49	92	3	5	-	-	10	10	4150	1	3	ddf	ff	ff	ofc
	Plymouth ...	1030.7	- 2	SW	1	d d$_o$	51	97	4	-	2	-	10	10	4150	1031.6	+10	S	2	z_o	50	97	6	5	-	-	10	10	220	1	1	ddd fd fm	md fe fem$_o$	om$_o$r$_o$	om$_o$r$_o$d$_o$
	The Lizard ...	1030.8	0	SW's	3	f f d$_o$	51	97	2	5	-	-	10	10	220	1031.7	+12	SW's	4	o	51	97	6	5	-	-	10	10	1500	1	3	Ffpd	ff com	cm ifc	c
	Scilly (St. Mary's)	1030.1	+ 2	SWS	4		51	97	2	-	-	-	10	10	4150	1030.8	+8	SWS	4	c	50	97	6	5	-	-	10	10	1500	1	2	offe	offec	od$_o$m	dfidm
	Guernsey ...	1031.9	0	SW	3	d$_o$d$_o$	51	97	4	5	-	-	10	10	800	1032.8	+16	WSW	2	id$_o$	52	97	4	5	-	-	10	10	800	1	2	ofdd$_o$	od$_o$d$_o$	id$_o$dd	oid$_o$c
6	Pembroke ...	1028.1	0	SW	3	f	49	97	1	-	-	-	10	10	4150	1028.4	+2	SW	3	q	50	97	7	8	6	-	4.6	7-8	2500	1	3	cfefec	Fem$_o$d$_o$c	aq FFdo	ifeidqc
7	Holyhead ...	1025.1	- 2	SSW	5	m	48	97	4	5	-	-	10	10	220	1024.9	+6	SSE	4	c	50	92	7	5	4	-	7-8	9	450	1	3	cr$_o$mo	omc	cm$_o$c m$_o$	m$_o$o
	Chester (Sealand)	1026.9	- 8	SE	2	z_o	49	75	6	5	3	-	4.6	9	4000	1026.6	+2	SSE	3	c	55	75	7	5	-	-	9+	9+	2500	1	*	cbcc z$_o$	cz$_o$	c	c
8	Manchester ...	1027.2	- 10	SSE	3	z_o	46	75	5	5	3	-	2-3	10	4000	1026.7	+4	S'E	3	z_o	49	85	6	5	3	* -	4-6	9	4000	1	*	cz$_o$z	cz$_o$	cm$_o$	cm$_o$
10	Spurn Head ...	1027.8	- 12	S	3	z_o	41	86	5	-	7	6	0	7-8	-	1027.3	- 4	SW's	3	o	45	85	5	5	-	-	10	10	1500	0	2	cm$_o$	cm$_o$o	ocbc	cbccw
	Catterick ...	1026.0	- 2	SE'E	2	m	44	65	4	5	7	-	Tr	9+	5700	1024.0	- 4	SE's	2	c	51	85	7	5	2	-	9	10	1500	1	*	cm$_o$z	cz id$_o$c	c	cd$_o$
	Tynemouth ...	1023.8	- 10	SSW	3	c	43	75	5	5	2	-	4-6	9	1500	1021.1	+18	SW	4	c	46	85	6	5	-	-	9+	9+	1500	1	1	oc	c	coq	oqc
11	St. Abbs Head.	1019.1	0	SW	6	c	46	75	8	8	7	-	4-6	7-8	2500	1017.1	- 4	SW	5	c	48	85	7	9	7	-	7-8	10	1500	0	3	c	m$_o$c	bc	bcq
	Leuchars ...	1019.0	- 22	SSW	4	c	47	85	7	5	2	-	9	10	1500	1015.9	-14	SSW	5	c	50	85	6	5	7	-	4-6	7-8	1500	1	*	c	cocq m$_o$	cm$_o$bcq	bcbq
12	Rentrew (Abbots I.)	1019.7	- 6	S'W	3	o/d	49	85	6	5	-	-	10	10	1500	1017.1	-6	SW's	5	c	54	85	7	5	-	-	10	10	1500	1	*	id$_o$d$_o$d$_o$id$_o$	cm$_o$c	cbc	bcb
	Eskdalemuir ...	1022.1	- 10	SW	6	o	42	92	7	5	-	-	10	10	450	1020.0	-14	SWS	6	r$_o$r$_o$	46	97	4	-	2	-	10	10	4150	1	*	coid$_o$	ff er$_o$r$_o$	ir$_o$ or$_o$ r$_o$	or$_o$ ir$_o$c
	Point of Ayre...	1022.5	- 12	SW'w	6	c	51	85	7	5	-	-	9+	9+	1500	1021.4	+4	WSW	5	c	53	85	7	5	-	-	9+	9+	1500	0	3	c	c	c	c
13A	Tiree	1013.1	- 14	SSW	6	dd	48	97	6	5	-	-	10	10	1500	1010.4	- 12	SW	6	c	51	85	6	5	-	-	7-8	10	1500	1	4	od$_o$d$_o$	dd$_o$c	c	cbc
13B	Stornoway ...	1007.5	- 24	S	8	d$_o$d$_o$	49	92	6	5	2	-	9	10	1500	1002.3	-24	S	10	d$_o$d$_o$	51	92	6	5	2	-	9	10	1500	1	5	cd$_o$id	ddc	cd$_o$d$_o$r	cqr$_o$
15	Dalwhinnie ...	1017.3	- 14	S	5	id	45	92	6	5	1	-	4.6	10	1500	1014.1	- 18	SSW	7	bc	48	85	6	4	6	-	2-3	4-6	2500	0	*	ciro	cido	*	ciro bc
	Aberdeen ...	1017.7	- 18	S	3	c	44	85	6	5	7	-	4.6	10	1500	1014.1	-14	SSW	6	c	45	85	6	5	7	-	2-3	9	800	1	2	r$_o$cq	cz$_o$cq	cz$_o$q bc	by
	Wick ...	1012.3	- 20	S	6	c	45	85	8	5	5	-	7-8	9	1500	1007.6	- 8	S	5	c	49	85	8	5	7	8	4-6	7-8	1500	1	3	c	e	cbc	bc
16	Lerwick ...	1011.4	- 18	SSW	6	ir$_o$	45	85	7	8	2	-	7-8	10	800	1006.5	- 18	SW	7	c	47	92	8	5	7	-	4.6	7-8	1500	1	*	cirpr	eir	c	cir$_o$
17	Blacksod Point	1014.0	- 10	SSW	6	ID	51	97	7	6	-	-	10	10	220	1013.6	- 2	S	8	ID	52	92	7	6	-	-	10	10	220	1	6	IDrq	IDrq	IDrq	c
18	Malin Head ...	1014.7	- 10	S	5	c	52	97	6	8	2	-	7-8	9	800	1012.3	- 18	S	5	c	53	97	6	8	2	-	7-8	9	800	0	4	c	c	cbcc bc	c
	Aldergrove ...	1018.9	- 16	S'W	5	c	53	85	7	8	3	1	7-8	9	2500	1017.4	- 6	S'W	5	ir$_o$	55	85	8	8	-	-	10	10	1500	1	*	cidm$_o$c	cr$_o$c	cir$_o$ c	c
19	Birr Castle ...	1021.2	- 2	S	3	c/r	55	85	7	6	2	-	4-6	10	1500	1020.4	+ 4	S	3	c	55	85	7	5	2	-	7-8	10	1500	1	*	cir$_o$	circ	coir$_o$	oir$_o$
20	Valentia Obsy. †	1020.9	- 14	S'W	6	c	55	85	8	5	-	-	9+	9+	800	1022.5	+14	SW's	6	id$_o$	53	85	7	5	-	-	10	10	800	1	4	cidc	cid$_o$	id$_o$	id$_o$dd
	Roches Point	1024.9	+ 6	SW	4	c	52	92	8	5	4	5	4-6	7-8	1500	1025.5	+6	SSW	5	id	51	97	6	5	-	-	10	10	450	1	4	ofjec	coid	odd	oddc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 . . Ground dry.
1 . . „ wet.
2 . . „ flooded.
3 . . „ frozen hard and dry.
4 . . „ partly covered with snow or hail.
5 . . „ covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . „ covered with snow, less than 6 ins., deep but ground not frozen.
8 . . „ covered with snow, less than 6 ins., but ground frozen.
9 . . „ covered with snow greater than 6 ins. deep.

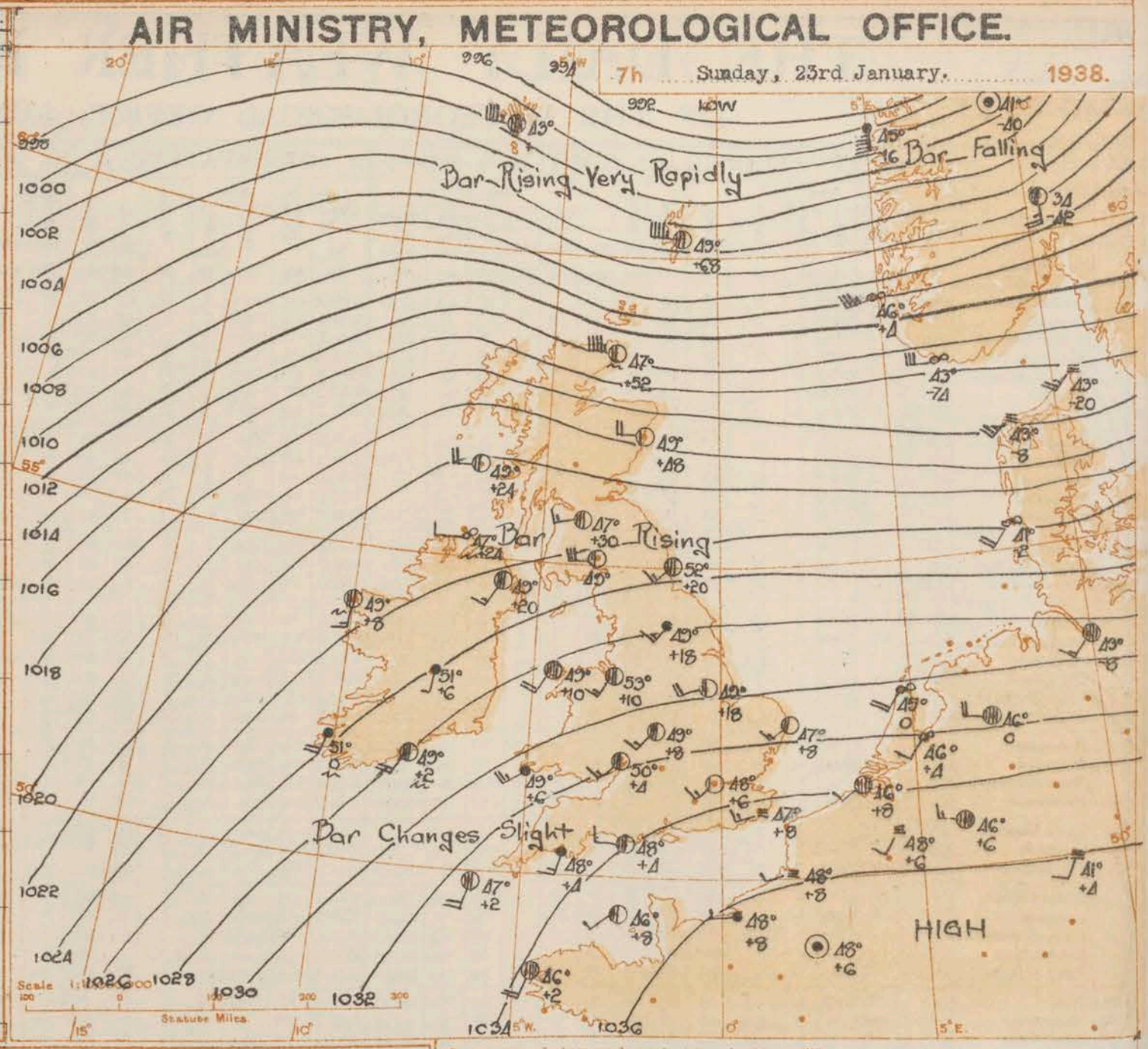
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

† Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 22nd January 1938.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 21st. to 9h. 22nd	Temperature. (°F.) Max. 9h.—17h. 22nd	Rainfall. (mm.) Night. 17h. 21st. to 9h. 22nd	Rainfall. (mm.) Day. 9h.—17h. 22nd	Sunshine (hrs) Sunrise to Sunset, 22nd.
1	Tunbridge W.	bco	obco	40	50	0.3	-	1.1
	Bournemouth	fmo	omf	40	50	0.3	-	0.0
	Ventnor ...	rom	orm	45	50	0.5	Trace	0.0
	Southsea ...	o	o	46	51	0.2	-	0.0
	Bognor Regis	o	o	46	49	0.5	-	0.0
	Littlehampton	o	om	46	49	1	-	0.0
	Worthing ...	o	od f	46	49	0.5	Trace	0.0
	Brighton ...	c	cdcf	46	49	1	Trace	0.0
	Eastbourne† ...	mo	o	45	50	1	-	0.0
	Hastings† ...	omo	co	45	51	1	-	0.0
	Folkestone ...	oFo	oco	43	49	0.5	Trace	0.1
	Dover ...	dfo	fombc	39	50	0.5	Trace	0.0
	Deal	ffm	m	43	49	0.3	0.3	0.0
	Ramsgate ...	m	cbc	45	49	Trace	-	0.5
	Margate ...	Fc	cbc	42	50	Trace	-	0.0
2	Southend ...	bfcm	cmc	40	49	Trace	-	1.0
	Clacton-on-Sea	bcmfm	bccbcm	39	46	-	-	0.7
	Dovercourt ...	bxbm	foc	34	45	-	-	0.0
	Lowestoft ...	cm m+	cf	32	44	-	-	0.0
	Skegness ...	ccbc	bc	34	45	-	-	1.7
	Mablethorpe...	cbce	bcc	31	45	-	-	1.2
	Cleethorpes ...	bc	bc	34	48	-	-	1.5
3	Leamington S.	omc	o	31	48	-	-	0.1
4	Cheltenham†	mc	cbcc	35	51	-	-	0.6
5	Bath	c	dc	36	52	-	Trace	0.0
	Weymouth ...	f	f	36	51	0.1	Trace	0.0
	Jersey ...	rcd	df	47	50	2	1	0.0
	Torquay ...	wofec	co	37	55	-	-	0.0
	Falmouth	feodg	o	43	52	0.2	0.2	0.0
	Penzance ...	fmoo	c	42	54	0.5	-	0.0
	St. Ives ...							
	Bude... ...	mdoe	mdoe	38	54	2	0.3	0.0
	Ilfracombe ...	co	ocbcc	39	56	-	-	0.1
6	Aberystwyth	c	cdo	36	53	-	2	0.0
7	Llandudno ...	c	cbc	38	56	-	-	1.5
	Colwyn Bay...	c	bcbcb	39	55	-	-	0.2
	Rhyl	cbc	c	34	54	-	-	0.5
8	Wallasey ...	cbc	bccbc	37	54	-	-	0.2
	Southport ...	co	obc	34	52	-	-	0.1
	Blackpool ...	cmo	cmcp	33	49	-	Trace	0.3
	Morecambe ...	c	c	35	50	-	-	0.0
9	Ilkley... ...	c	c	36	48	-	-	0.0
	Harrogate ...	cbc	bcc	37	47	-	-	0.3
10	Berwick-on-T.	co	o	39	49	-	-	0.0
11	Dunbar ...	cmo	cmo	41	53	-	-	0.9
12	Troon... ...	cococ	cbcoc	44	50	-	-	0.1
	Douglas ...	bcido	cidof	41	49	Trace	0.3	0.0

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
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 January, 1938.
1 S.E. England 2 E. England 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Moderate southwesterly winds, freshening later; fair and cloudy periods, local rain and drizzle, local coast fog; very mild.
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.	Moderate westerly winds, backing and increasing to gale force locally later; cloudy, local rain or drizzle, more general rain later; mild.
13 A. W. Scotld. / B.N.W.Scotland 14 Mid Scotland 15 N. E. Scotland † 16 Orkney and Shetland	Fresh or strong southwest to west winds, gale locally, moderating temporarily but renewed gale later; fair at first, rain later; mild.
17 N. W. Ireland 18 N. E. Ireland	Moderate southwesterly winds increasing to gale force locally later; fair at first, rain later; mild.
19 S. E. Ireland 20 S. W. Ireland	Moderate southwesterly winds freshening; local rain or drizzle, more general rain later; mild.

H.M. Stationery Office Press, Kingsway, W.C.2. 0.230/3838 m 8020 D.4613 Gp 846 2510 D 1/38.

GENERAL INFERENCE.

Deep depression on Mid-Atlantic is moving northeast. Weather will be mainly fair at first but rain will spread to most areas later.

FURTHER OUTLOOK.

Mild and unsettled.

Time of issue of Gale Warnings.
† South cone hoisted 0530 22-1-38 in district 13.
South cone hoisted 0920 22-1-38 in districts 15 & 16.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

Forecasts issued at 1130 G.M.T.

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

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

SUNDAY, 23RD JANUARY.

1938.

Clarke's Projection. Scale 1·4 x 10⁷ along meridian at 55° N.

Statute Miles. 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—◎

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. ✱Sleet. △Hail. ≡Fog. ≡Mist. ⓔThunder. ⓔThunderstorm. ∞Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 23rd January, 1938.
No. 27821.

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)	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	1032·2	+2	SW's	4	c	51	92	6	5	-	-	9+	9+	4000
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1034.0	+6.	S'w	1	F	47	97	1	-	-	-	10	10	4150
	Manston ...	142	1032.5	+2	SW'w	3	c	49	92	6	5	-	-	10	10	4000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1030.5	+2	SSW	3	b	44	92	6	-	-	-	0	0	-
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1033.6	+10	WSW	2	f	48	92	2	5	-	-	10	10	4150
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1032.9	+6	SSW	4	c	49	97	6	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1032.4	+6	SW's	5	o	49	97	6	5	-	-	10	10	1500
	Guernsey ..	175	1034.2	+4	WSW	1	id.	49	97	6	5	-	-	10	10	1500
6	Pembroke ...	142	1029.9	+10	SW'w	4	dF	49	97	1	-	-	-	10	10	4150
7	Holyhead ...	28	1026.7	+6	SWS	5	o	49	92	5	5	-	-	10	10	220
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1026.3	- 4	WSW	4	bc	48	92	6	-	2	-	0	4-6	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1021·1	+4	SW	4	o	51	92	7	5	-	-	10	10	800
11	St Abbs Head ..	280	1017.7	+20	WSW	5	bc	53	85	8	1	3	-	2-3	4.6	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1023.4	+8	W's	6	c	55	85	8	8	-	-	9	9	1500
13a	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13b	Stornoway ...	80	1002·5	+26	SW	10	c/r	51	75	6	5	2	-	7-8	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1002·8	- 8	SW	8	bc	54	65	8	5	7	-	2-3	4.6	1500
16	Lerwick ...	156	996.6	-32	SW	10	c	51	85	7	5	2	-	7-8	10	1500
17	Blacksod Point	18	1021·2	+24	SW	5	c	50	92	7	9	-	-	10	10	800
18	Malin Head ..	84	1018.5	+56	SW	5	bc	51	92	6	5	4	-	4-6	4.6	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1024.8	+10	SW	5	dd	53	97	6	5	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 23rd 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)	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)
1033·8	+8	SW	3	b	47	92	7	5	-	-	1	1	2500	1	*
1033.4	+6	SW	3	b	48	92	7	-	4	-	0	Tr	-	1	*
1033.8	+8	WSW	3	b	45	97	7	5	4	-	Tr	1	450	1	*
1033.9	+6	SW	3	bc	46	97	6	5	-	-	2-3	2-3	4000	1	*
1034.2	+6	SW	3	dd.	49	97	6	5	-	-	10	10	800	1	1
1034·7	+8	WSW	3	F	47	97	1	-	-	-	10	10	4150	1	§1
1033.3	+8	SW's	3	bc	48	97	6	5	-	4	2-3	2-3	2500	1	*
1033.4	+6	SSW	1	bc	46	97	7	-	3	-	0	2-3	-	1	*
1032.7	+8	SW'w	2	z_o	45	92	5	5	3	-	4.6	7-8	2500	1	2
1030·5	+8	SW	3	bc	47	97	6	5	-	-	2-3	2-3	2500	1	2
1031.5	+6	SW's	4	z_o	49	92	6	5	3	-	9	9+	1500	1	*
1029·7	+18	SW'W	4	bc	49	92	7	5	4	-	2-3	4.6	2500	1	*
1030·7	+8	SW	3	c	49	92	6	5	-	-	10	10	1500	1	*
1032.3	+6	SW	3	z_o	49	97	5	5	-	-	10	10	450	1	*
1031·5	+4	SW	3	c	50	85	8	8	-	-	10	10	2500	1	*
1032·8	+6	S	3	bc	48	97	7	5	-	-	4-6	4-6	1500	1	*
1033.8	+4	W	2	c	48	85	7	5	-	-	10	10	2500	1	3
1033.7	+4	SSW	3	id.	48	97	6	-	2	-	10	10	450	1	1
1033.4	+2	S'W	4	c	47	97	7	5	2	-	9+	10	1500	1	3
1032·8	+2	SSW	4	c	47	97	8	4	7	-	2-3	7-8	1500	1	3
1035.4	+8	SW	1	c	46	97	7	5	2	-	7-8	10	2500	1	3
1031·2	+6	SW'W	5	dF	49	97	1	-	-	-	10	10	4150	1	3
1028.3	+10	SW's	4	o	49	92	6	5	-	-	10	10	450	1	3
1029.2	+10	SW	3	c	53	75	7	5	7	-	4.6	7-8	2500	1	*
1029.0	+14	SSW	4	z_o	51	85	6	5	7	-	7-8	10	4000	1	*
1028.5	+10	WSW	4	c	48	92	7	5	-	-	7-8	7-8	2500	1	2
1027.4	+18	SW's	3	d.d.	49	92	7	5	2	-	9	10	1500	1	*
1025·3	+20	SW	3	c	52	85	7	9	-	-	9	9	800	1	2
1021.5	+20	W	5	bc	49	75	8	-	3	-	0	4.6	-	0	3
1021.1	+12	W	4	b	48	75	9	-	4	-	0	Tr	-	1	*
1022.8	+4	W	6	b	49	75	7	5	-	-	2-3	2-3	4000	1	*
1024.2	+30	WSW	6	c	47	92	6	5	-	-	9	9	220	1	*
1026.8	+16	W's	4	c	51	97	7	5	4	-8	4.6	7-8	1500	0	3
1022.1	+24	W	4	bc	49	75	7	5	3	-	2-3	4.6	2500	0	*
1017·7	+44	WSW	6	c/pr	44	92	6	5	2	-	7-8	10	1500	1	4
1021.4	+30	SW	3	bc	44	75	7	4	6	-	2-3	4.6	2500	0	*
1019.2	+48	W's	4	b	49	65	7	5	-	1	Tr	Tr	2500	1	2
1013.3	+52	W	9	bc	47	65	8	5	1	-	2-3	4-6	1500	1	4
1003.2	+68	W	9	c/r	49	85	7	8	7	-	4-6	7-8	1500	1	*
1023.5	+8	S	3	c	49	92	7	-	2	-	0	10	-	1	4
1024.5	+24	W	2	z_o	47	97	5	4	7	-	4.6	9	800	0	4
1025·9	+20	SW's	3	c	49	92	7	5	-	-	10	10	5700	1	*
1025·6	+6	S	1	ir.	51	97	7	5	-	-	10	10	1500	1	*
1025·9	0	SSW	4	dd	51	97	5	5	-	-	10	10	450	1	4
1028.5	+2	SW	4	c/d	49	97	7	5	-	-	9+	9+	800	1	4

PAST 24 HOURS.

Temperature. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 22nd Hrs. (36)
50	47	43	-	0.1	0.0
50	48	45	-	0.1	0.7
49	44	37	Tr	Tr	0.0
49	44	41	0.1	-	0.0
50	47	46	Tr	0.4	0.0
49	46	414	-	Tr	0.2
49	43	41	Tr	-	0.2
49	46	39	-	-	0.5
44	43	39	Tr	Tr	0.0
44	42	39	-	-	0.3
49	46	39	-	Tr	0.6
51	43	40	-	Tr	1.9
47	47	45	-	-	0.0
47	46	43	-	-	*
50	50	47	-	-	0.6
53	48	45	Tr	Tr	0.5
50	46	*	0.1	Tr	*
51	48	47	0.5	0.6	0.0
51	47	*	0.4	Tr	0.0
52	47	*	Tr	0.5	0.0
52	46	46	1	1	0.0
50	47	*	Tr	1	0.0
51	48	48	-	-	0.0
55	51	45	-	-	0.8
49	45	45	-	-	0.0
45	45	*	-	Tr	1.2
51	49	47	Tr	1	0.0
47	46	42	-	-	0.0
48	46	*	-	-	*
51	49	44	Tr	-	0.0
49	46	*	Tr	-	*
48	46	*	2	Tr	0.0
53	42	*	5	0.5	*
54	45	*	-	-	0.0
55	47	45	Tr	Tr	0.1
56	50	*	Tr	2	0.0
55	51	50	0.2	1	0.2
52	49	*	0.4	3	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset hrs (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cm.c.fcm.	cm.	bc.wbw	50	47	43	-	0.1	0.0	*	*	6
Croydon	217	bcm.fcm.	cm.	cm.d.db	50	48	45	-	0.5	0.7	*	*	7
Greenwich (Royal Observatory)...	149	cm	cm	cm.cbw	49	47	34	-	Tr	1.0	85	86	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	51	43	42	—		0.0	87	95	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	51	39	34	-	Tr	0.0	93	93	*
Camden Square	110	o.fc	c	*	50	39	51	-	-	*	*	93	*
Kensington	80	c	bc	*	50	47	41	-	Tr	0.0	At 18h. 96	91	*
Hampstead Observatory	450	bcom	bc	bc	49	45	34	-	-	0.0	*	97	*

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.
Paris	1036·2	SSW	1	df	48	1036.5	-	0	df	48
Brussels	1033.1	SSW	1	d.d.	46	1034.9	SW	2	f	48
Berlin	1033.1	W	2	b	39	1032.1	SW's	1	m	36
Zurich	1036·8	NNE	1	z_o	39	1035.6	E	1	o	36
Rome	1030·5	SW	4	bc	43	1027·7	N	3	o	

Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
50	48	0.6	0.6
48	45	Tr	Tr
45	32	-	-
43	36	-	-
*	*	*	-

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
1·0	9-10h	0·3	1-8h 4

Kew Observatory. Max.	Time.	Min.	Time.
0·6	10h 22nd	0·1	1-7h 23rd

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2¼ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ..	31 ,,
9 Excellent ,,	beyond 31 m.

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. George C. Simpson, K.C.B., D.Sc., F.R.S., Director.

† The observations are from Valentia W/T Station.

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h.

§ Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 24th January, 1938.
No. 27822.

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)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)	1034.0	-6	SW'N	3	Z_o	50	85	6	5	-	-	10	10	2500
	Croydon ...	1034.0	-4	SW'N	4	Z_o	50	85	6	5	-	-	10	10	2500
	S. Farnborough	1034.2	-6	SW	4	id_o	48	85	7	5	-	-	10	10	1500
	Boscombe Down	1034.2	-6	SSW	4	C	47	92	7	5	-	-	10	10	1500
	Calshot (Sthmtn.)	1034.8	-6	SW	3	c/d	48	97	7	8	3	-	7-8	9	1500
	Lympne ...	1035.0	-10	SSW	3	Z_o	49	92	6	5	-	-	9	9	800
	Manston ...	1034.1	-8	SW	3	C	52	85	7	5	-	-	9+	9+	800
2	Shoeburyness ...	1034.0	-8	SW	3	C	51	85	6	5	-	-	10	10	1500
	Felixstowe ...	1033.9	-2	WSW	2	Z_o	50	85	5	5	7	-	9	10	1500
	Gorleston ...	1032.4	+2	SW'N	3	C	52	85	6	5	-	-	10	10	2500
	Mildenhall ...	1032.8	-2	SW	3	C	51	92	7	5	-	-	10	10	1500
	Cranwell ...	1031.2	-2	WSW	4	C	54	75	7	5	-	8	2-3	9+	4000
3	Birmingham ...	1031.6	-2	SSW	2	0	50	85	5	6	-	-	10	10	800
	Upper Heyford	1033.3	-2	SW'S	3	c/d	49	92	7	5	-	-	10	10	800
4	Ross-on-Wye	1032.1	0	SW	3	C	50	85	8	5	-	-	10	10	2500
5	Bristol ...	1033.7	-4	SSW	3	id_o	49	97	6	6	2	-	7-8	10	800
	Portland Bill ...	1033.7	-6	SW	3	0	46	92	7	5	-	-	10	10	1500
	Plymouth ...	1033.8	-6	SW	4	c/d	48	92	7	5	-	-	10	10	1500
	The Lizard ...	1033.2	-4	SSW	4	C	47	92	8	5	2	-	9	10	1500
	Scilly (St.Mary's)	1031.8	-14	SSW	4	id_o	48	87	7	5	-	-	10	10	1500
	Guernsey ...	1035.2	-6	S'W	1	0	46	92	8	5	-	-	10	10	2500
6	Pembroke ...	1030.7	+2	SW'S	4	$d_o d_o$	48	97	6	5	2	-	7-8	10	1500
7	Holyhead ...	1028.9	-6	SSW	4	df	49	97	3	5	-	-	10	10	4150
	Chester (Sealand)	1030.4	-4	SSW	2	C	53	75	8	5	7	-	9	9+	2500
8	Manchester ...	1030.5	-2	S'W	2	Z_o	53	85	6	8	3	-	7-8	10	2500
10	Spurn Head ...	1030.8	+4	SW'S	3	C	49	85	7	5	-	8	7-8	9+	4000
	Catterick ...	1028.7	-6	WSW	3	C	51	85	8	8	9	6	2-3	9	2500
	Tynemouth ...	1028.0	+8	WSW	2	bc	53	85	5	2	4	1	4-6	4-6	1500
11	St Abbs Head ...	1025.7	0	WSW	3	bc	51	65	8	-	3	2	0	4-6	-
	Leuchars ...	1024.9	+6	WSW	4	Z_o	52	65	6	4	7	-	Tr	4-6	2500
12	Renfrew (Abbotsl.)	1025.8	+2	SW	2	C	51	75	7	4	3	9	4-6	7-8	2500
	Eskdalemuir ...	1027.0	+2	SW	3	C	49	85	6	5	9	6	4-6	7-8	450
	Point of Ayre ...	1027.7	-2	SW'N	3	c	51	92	7	8	-	-	10	10	800
13A	Tiree	1023.5	-10	SW'S	2	Z_o	48	92	6	5	2	-	7-8	10	2500
13B	Stornoway ...	1022.0	+6	SSW	4	c	47	75	7	5	7	-	4-6	10	1500
15	Dalwhinnie ...	1025.1	0	SW	2	C	45	75	7	5	1	-	4-6	10	2500
	Aberdeen ...	1024.8	+14	E'S	1	c	50	65	6	5	5	-	2-3	7-8	2500
	Wick ...	1022.0	+20	W	4	bc	47	65	8	5	7	8	2-3	4-6	1500
16	Lerwick ...	1016.1	+44	W	8	bc	47	75	7	8	-	-	4-6	4-6	1500
17	Blacksod Point	1021.2	-28	SSE	6	Dr	50	97	6	6	-	-	10	10	450
18	Malin Head ...	1023.9	-18	SW	1	Z_o	50	97	5	5	-	-	10	10	1500
	Aldergrove ...	1025.7	-12	S'E	2	DD	51	92	4	5	2	-	7-8	10	2500
19	Birr Castle ...	1025.5	-8	SSW	2	0	51	92	7	5	-	-	10	10	1500
20	Valentia Obsy. †	1024.5	-14	S	5	dd	51	97	5	5	-	-	10	10	450
	Roches Point	1027.6	-6	SW	4	c/d	50	97	8	5	-	8	4-6	7-8	800

OBSERVATIONS at 18h. G.M.T. 23rd January

District	Stations. (For heights see p. 4.)	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	SSW	3	Z_o	48	85	6	5	-	-	10	10	2500	1	*
	Croydon ...	1033.7	+2	SW	4	Z_o	48	85	6	5	-	-	10	10	1500	1	*
	S. Farnborough	1033.8	+2	SW	3	C	46	85	7	5	-	-	10	10	1500	1	*
	Boscombe Down	1033.8	0	SSW	4	C	45	85	7	5	-	-	10	10	1500	1	*
	Calshot (Sthmtn.)	1034.1	-2	S	3	id_o	46	97	7	5	-	-	9+	9+	1500	1	2
	Lympne ...	1035.0	0	SSW	3	F+	47	97	1	-	-	-	10	10	150	1	0
	Manston ...	1034.4	+2	SW	3	C	49	85	7	5	-	-	10	10	1500	1	*
2	Shoeburyness ...	1033.8	+2	SW	3	C	47	85	7	5	-	-	10	10	1500	1	*
	Felixstowe ...	1033.8	0	SSW	2	Z_o	47	85	5	5	2	-	7-8	10	1500	1	1
	Gorleston ...	1033.1	+4	SW'S	2	C	49	85	6	5	-	-	10	10	2500	1	2
	Mildenhall ...	1032.5	-2	SSW	3	id_o	49	92	6	5	-	-	10	10	1500	1	*
	Cranwell ...	1031.0	-4	S'W	3	Z_o	50	85	6	5	-	-	10	10	1500	1	*
3	Birmingham ...	1030.6	-6	SSW	3	0	47	92	5	6	-	-	10	10	800	1	*
	Upper Heyford	1032.9	0	SSW	3	C	47	85	7	5	-	-	10	10	1500	1	*
4	Ross-on-Wye	1031.5	0	SW'S	3	id_o	46	92	6	5	-	-	10	10	1500	1	*
5	Bristol ...	1032.9	0	SSW	3	C	47	85	7	5	-	-	9	9	1500	1	*
	Portland Bill ...	1032.9	+2	WSW	3	id_o	48	92	7	5	-	-	10	10	1500	1	3
	Plymouth ...	1033.1	0	SSW	3	c/r	47	97	6	5	-	-	10	10	1500	1	2
	The Lizard ...	1032.8	+2	SSW	4	C	48	85	7	5	2	-	9	10	1500	1	3
	Scilly (St.Mary's)	1031.3	+2	SW'S	5	C	49	85	8	5	-	-	10	10	2500	1	3
	Guernsey ...	1035.3	+4	S'W	1	0	46	85	6	5	-	-	10	10	2500	1	2
6	Pembroke ...	1029.6	-4	SSW	5	q	48	97	7	8	2	-	7-8	10	1500	1	3
7	Holyhead ...	1027.0	-14	S'W	5	id_o	48	92	7	5	2	-	7-8	10	800	1	3
	Chester (Sealand)	1029.0	-8	S	3	C	50	85	7	5	-	-	10	10	1500	1	*
8	Manchester ...	1029.2	-10	S	3	C	51	85	7	5	-	-	10	10	1500	1	*
10	Spurn Head ...	1030.4	+2	S'W	3	C	49	85	6	5	-	-	7-8	7-8	4000	0	2
	Catterick ...	1028.1	-8	S'E	2	C	50	85	8	5	2	-	9	10	2500	1	*
	Tynemouth ...	1028.5	-4	W	3	bc	50	85	6	5	-	-	4-6	4-6	1500	1	1
11	St Abbs Head ...	1024.6	-10	S	3	C	48	92	8	-	7	8	0	7-8	-	0	1
	Leuchars ...	1024.0	-10	-	0	Z_o	47	85	6	5	2	-	4-6	10	4000	1	*
12	Renfrew (Abbotsl.)	1022.7	-22	S	3	Z_o	51	85	5	5	2	-	4-6	10	1500	1	*
	Eskdalemuir ...	1025.6	-10	S'W	4	dd	45	97	5	-	2	-	10	10	220	1	*
	Point of Ayre ...	1025.6	-8	SW	5	id_o	49	92	7	6	1	-	7-8	10	800	1	3
13A	Tiree	1017.4	-46	S	5	$d_o d_o$	47	97	6	5	-	-	10	10	450	1	4
13B	Stornoway ...	1018.5	-26	SE	4	C	47	85	7	5	2	-	9	10	2500	1	2
15	Dalwhinnie ...	1023.1	+18	S	3	C	43	92	7	4	2	-	4-6	10	2500	0	*
	Aberdeen ...	1023.6	-16	ESE	1	C	47	85	5	-	7	-	0	10	-	1	1
	Wick ...	1022.8	-2	SW	3	C	43	75	8	5	2	-	7-8	10	1500	1	1
16	Lerwick ...	1020.0	+16	W	5	bc	45	85	8	8	7	-	2-3	4-6	1500	1	*
17	Blacksod Point	1015.2	-32	S	8	iD	50	97	6	6	-	-	10	10	220	1	6
18	Malin Head ...	1016.6	-64	S	5	C	50	97	6	8	-	-	9+	9+	800	0	4
	Aldergrove ...	1021.4	-18	S'E	4	C	50	85	8	5	2	-	7-8	10	1500	1	*
19	Birr Castle ...	1021.9	-10	S	3	C	51	85	7	5	2	-	7-8	10	1500	1	*
20	Valentia Obsy. †	1020.8	-18	S'W	6	i_r	51	92	7	6	-	-	10	10	800	1	4
	Roches Point	1025.2	-8	SSW	5	id	49	97	6	5	-	-	10	10	450	1	4

PAST 24 HOURS.

District	Stations. (For heights see p. 4.)	Weather. 7h.—13h. 23rd (37)	Weather. 13h.—18h. 23rd (38)	Weather. 18h. 23rd to 1h. 24th (39)	Weather. 1h.—7h. 24th (40)
1	London (Kew)	bwcm$_o$	cm$_o$	cm$_o$	cm$_o$
	Croydon ...	b$_o$cm$_o$	cm$_o$	cm$_o$id$_o$	cbc
	S. Farnborough	bwcid$_o$	cid$_o$c	c	cir$_o$bc
	Boscombe Down	bcfm$_o$	cir$_o$c	cir$_o$	c$_1$bm$_o$
	Calshot (Sthmtn.)	cd$_o$id$_o$m$_o$	c$_1$cid$_o$	cd$_o$c	c
	Lympne ...	Fcm$_o$	omFc	Fd$_o$c	c
	Manston ...	bcm$_o$c	cm$_o$	d$_o$m$_o$c	cbc
2	Shoeburyness ...	bwm$_o$c	m$_o$c	cpc	c
	Felixstowe ...	cm$_o$	cm$_o$	cm$_o$c	cbcb
	Gorleston ...	bcc	cz$_o$c	cz$_o$q	bcbq
	Mildenhall ...	cm$_o$c	ccm$_o$	cid$_o$cm$_o$	cbw
	Cranwell ...	cbcc	ccm$_o$	cm$_o$bc	bc
3	Birmingham ...	co	o	obcc	c
	Upper Heyford	cm$_o$d$_o$	cd$_o$c	c	cbc
4	Ross-on-Wye	c	cod$_o$c	id$_o$oc	cq$_1$bcq$_1$
5	Bristol ...	cd$_o$d$_o$	cid$_o$	cq$_1$bc	bcq$_1$cbc
	Portland Bill ...	co	oid	c	cbc
	Plymouth ...	om$_o$cid$_o$	cid$_o$r$_o$	cm$_o$	cb
	The Lizard ...	cid$_o$c	c$_1$id$_o$c	c	cbcw
	Scilly (St.Mary's)	coid$_o$	oid$_o$c	cbcc	cbcwb
	Guernsey ...	cid$_o$o	o	o	oc
6	Pembroke ...	iFed$_o$m$_o$c	c$_1$d$_1$fqc	q$_1$id$_o$c	cbcqb
7	Holyhead ...	d$_o$d$_o$ifo	d$_o$d$_o$fc	m$_o$r$_o$r$_o$o	ob
	Chester (Sealand)	c	c	c	cb
8	Manchester ...	cm$_o$c	cm$_o$c	cid$_o$c	c$_1$b
10	Spurn Head ...	c	c	co	dbq$_1$b
	Catterick ...	cd$_o$d$_o$id$_o$	c	cq	cr$_o$c
	Tynemouth ...	cbc	bcoc	bcc	bcpbc
11	St Abbs Head ...	bc	c	bccpr	cprbc
	Leuchars ...	bbcz$_o$	bccz$_o$	cqr$_o$r$_o$	o$_o$prbq$_1$
12	Renfrew (Abbotsl.)	bbc	cz$_o$mm$_o$	m$_o$d$_o$d$_o$ir	cm$_o$irc
	Eskdalemuir ...	bcm$_o$	pffd$_o$d$_o$	odrr	orrc
	Point of Ayre ...	id$_o$c	c	cid	crrbq$_1$
13A	Tiree	bcm$_o$	cd$_o$m$_o$o	oddr	ctlrd
13B	Stornoway ...	cpc	c	cRRrr	crrr$_o$r$_o$
15	Dalwhinnie ...	c	c	*	cir
	Aberdeen ...	bvbccz$_o$	cz$_o$	cz$_o$q	bbcpr$_o$
	Wick ...	bc	c	r$_o$r$_o$c	bcbq
16	Lerwick ...	cbc	cbc	prrr	brm$_o$c
17	Blacksod Point	iDq	iDrq	iRq	irq*
18	Malin Head ...	z	cz$_o$pr$_o$c	ccir$_o$c	cbc
	Aldergrove ...	cddm$_o$	cddmc	cir$_o$c	cbcc
19	Birr Castle ...	oirso	oc	cpr	cprb
20	Valentia Obsy. †	ddid$_o$dd	oddir$_o$	ir$_o$cprqbc	bccbc
	Roches Point	oidc	coid	oidrc	cbc

† See disturbance reported from Dungeness.

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 . . Ground dry.
1 . . „ wet.
2 . . „ flooded.
3 . . „ frozen hard and dry.
4 . . „ partly covered with snow or hail.
5 . . „ covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . „ covered with snow, less than 6 ins., deep but ground not frozen.
8 . . „ covered with snow, less than 6 ins., but ground frozen.
9 . . „ covered with snow greater than 6 ins. deep.

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

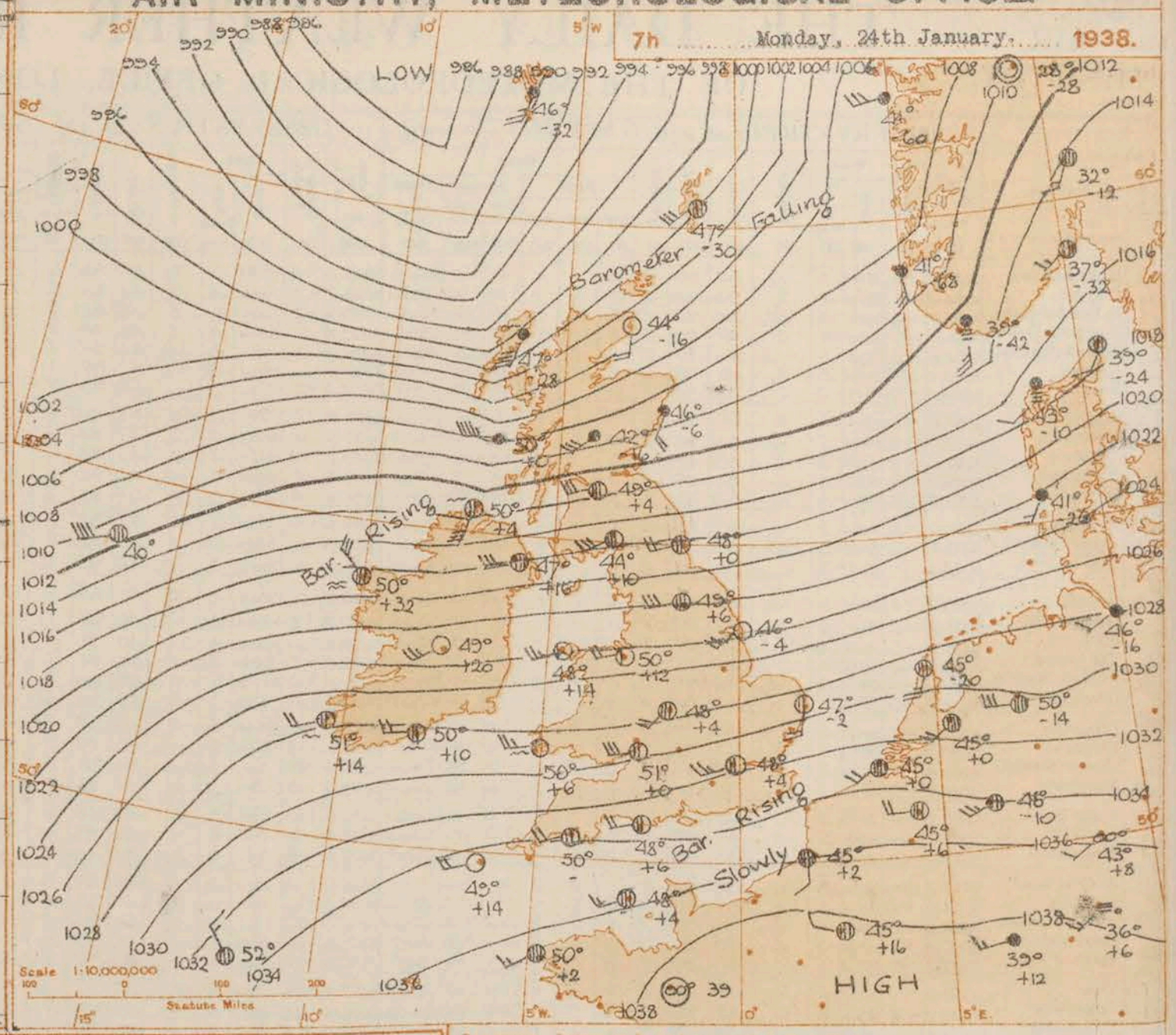
REPORTS from HEALTH RESORTS for 23rd January 1938.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature (°F.) Min. 9h. 22nd to 9h. 23rd	Temperature (°F.) Max. 9h.—17h. 23rd	Rainfall (mm.) Night. 17h. 22nd to 9h. 23rd	Rainfall (mm.) Day. 9h.—17h. 23rd	Sunshine (hrs.) Sunrise to Sunset. 23rd
1	Tunbridge W.	coc	co	40	51	Trace	-	0·5
	Bournemouth	od,c	co	43	49	1	Trace	0·1
	Ventnor ...	rpdm	opco	46	48	1	0·3	0·2
	Southsea ...	c	c,r,c	47	50	0·3	Trace	0·1
	Bognor Regis	oc	d,bco	46	49	0·5	Trace	0·0
	Littlehampton	oid,	o	47	49	0·3	Trace	0·0
	Worthing ...	c	c	46	50	0·3	-	0·1
	Brighton ...	cbc	cdc	47	49	0·5	Trace	0·2
	Eastbourne† ...	mpco	od,	48	50	1	0·1	0·1
	Hastings† ...	cfoco	omfd,	47	50	Trace	Trace	0·1
	Folkestone ..	bm,co	od,m,	45	50	-	Trace	0·5
	Dover ...	bcfo	fmod,	47	50	Trace	Trace	0·7
	Deal	bcbbo	o	45	52	-	-	2·7
	Ramsgate ...	bc	c	45	54	-	-	3·7
	Margate ...	bc	c	45	54	-	-	2·8
2	Southend ...	bbco	o	42	52	Trace	-	2·3
	Clacton-on-Sea	bc	bcco	41	49	0·5	-	3·5
	Dovercourt ...	bco	coc	46	51	-	-	0·0
	Lowestoft ...	bbcc	ccd,r	41	52	0·2	Trace	0·6
	Skegness ...	bc	c	39	54	-	-	2·7
	Mablethorpe...	cbcc	bc	34	53	-	-	1·4
	Cleethorpes ...	c	c	37	52	-	-	0·0
3	Leamington S.	o	o	36	51	-	-	0·0
4	Cheltenham†	oco	o	48	52	Trace	-	0·0
5	Bath	c	c	38	51	Trace	-	0·0
	Weymouth ...	bcc	ccm	44	50	1	-	0·9
	Jersey ...	rcc	c	45	46	3	-	0·0
	Torquay ...	coid,	oid	42	49	1	Trace	0·4
	Falmouth	o	od,go	47	48	9·4	Trace	0·0
	Penzance ...	c	id,	48	49	1	Trace	0·0
	St. Ives ...	d	o	41	48	3	1	0·0
	Bude... ...	c	o	48	51	-	-	0·4
	Ilfracombe ...	orc	codro	46	50	1	Trace	0·0
6	Aberystwyth	prc	c	46	51	0·5	-	0·0
7	Llandudno ...	c	c	48	53	Trace	-	0·0
	Colwyn Bay...	bcc	cbc	49	53	-	-	0·0
	Rhyl	c	c	41	53	-	-	0·0
8	Wallasey ...	cbc	c	40	54	-	-	0·0
	Southport ...	omo	bco	37	52	-	-	0·0
	Blackpool ...	cm,	cm,o	38	50	Trace	-	0·0
	Morecambe ...	mcid	mccdo	40	50	Trace	0·3	0·0
9	Ilkley... ...	ddoc	c	41	52	1	-	0·0
	Harrogate ..	c	c	39	52	0·6	-	0·3
10	Berwick-on-T.	bc	c	42	53	-	-	3·6
11	Dunbar ...	bcm,	cm,	44	53	-	-	3·7
12	Troon... ...	cbcac	cocco	42	53	-	-	0·2
	Douglas ...	omd	omdc	46	48	0·5	1	0·0

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

AIR MINISTRY, METEOROLOGICAL OFFICE

7h ..... Monday, 24th January, ... 1938.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. ~~~ Rough. ≈≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 24th January, 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Moderate southwest or south winds, freshening later; mainly fair; mild and close.
5 S.W. England 6 South Wales ... 7 North Wales ...	Fresh southwest to south winds, moderating temporarily, increasing later, mainly fair; mild and close.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Strong southwest to west winds, backing south later, moderating temporarily but increasing later, gale in places; mainly fair apart from occasional local rain at first; mild.
13 A. W. Scotland, B.N.W. Scotland 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Strong southwest to west winds, a gale at times, moderating but renewed later; rain at times but fair periods; mild.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 8 to 12.

GENERAL INFERENCE.

A deep depression near the Faeroes is moving northeast and will be followed by another over Mid-Atlantic. It will continue stormy and unsettled in the Northwest but it will be mainly fair in the Southeast.

FURTHER OUTLOOK.

Unsettled in the North and West. Probably continuing mainly fair and mild in Southeast.

Time of issue of Gale Warnings.

South cone hoisted at 0530 GMT on 22/1/38 in dist 13.B.
" " " at 0920 " " " " " 15 & 16.
" " " at 1530 " " 23/1/38 in districts 13A, 17 and parts of districts 18 & 20.
" " hoisted at 1940 GMT on 23/1/38 in districts 11, 14, parts of districts 12 and 18.

Forecasts issued at 1030 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2. C 330/3238. m 4020. 5 4513 Gp 846 25 1/38

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

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

MONDAY, 24TH JANUARY.

1938.

Clarke's Projection Scale 1·4 x 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—◯

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. ✱ Sleet. △ Hail. ≡ Fog. ≡ Mist. (ξ) Thunder. ξ Thunderstorm. ∞ Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 24th January, 1938.
No. 27822.

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)	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	1033·0	-2	SW'ly	5	C	47	85	7	5	-	-	10	10	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1034·0	-6	SW	5	C	44	85	8	5	-	-	10	10	1500
	Manston ...	142	1033·1	-4	SW	4	C	45	85	8	5	-	-	10	10	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1030·3	-10	SW'S	4	C	46	85	6	8	-	-	10	10	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1032·5	-4	WSW	3	C	49	85	7	4	-	-	10	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1033·0	0	SSW	5	C	50	92	7	5	2	-	9	10	1500
	Scilly (St. Mary's)	163	1032·4	+8	SW	5	C	51	97	7	4	-	-	7-8	7-8	1500
	Guernsey ..	175	1035·4	0	SW'S	2	0	48	85	7	5	-	-	10	10	2500
6	Pembroke ...	142	1027·0	-10	SW'W	7	id.	50	97	7	8	2	-	7-8	10	2500
7	Holyhead ...	26	1022·3	-18	SSW	6	9/r	48	97	7	5	-	-	10	10	450
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1026·3	-6	SW	4	0	46	85	7	5	-	-	10	10	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1020·0	-32	SW	4	C	49	65	7	2	2	-	4-6	9	1500
11	St Abb's Head ..	280	1014·3	-30	SW	6	C	47	85	8	8	7	-	4-6	7-8	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots L.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1013·2	-36	SW'W	6	id	45	92	7	8	2	-	4-6	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1004·5	-56	S	8	rr	47	92	6	5	2	-	4-6	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1008·3	-62	S	8	C	46	92	7	5	2	-	9	10	1500
16	Lerwick ...	156	1012·4	-60	S	6	rr	43	92	7	6	2	-	9	10	800
17	Blacksod Point	18	1013·6	0	S	8	q	50	85	7	9	-	-	10	10	450
18	Malin Head ...	84	1011·1	-18	S'W	4	C	49	97	7	8	-	-	7-8	7-8	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1022·4	+14	SSW	6	b	50	85	8	-	-	-	0	0	-
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. 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)	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)	1032·6	+6	SW	3	Z	48	85	6	5	-	-	9+	9+	1500	1	*
	Croydon ...	1032·1	+4	SW'W	5	bc	46	85	8	5	-	-	4-6	4-6	2500	1	*
	S. Farnborough	1033·0	+4	WSW	4	bc	48	85	7	5	-	-	4-6	4-6	1500	1	*
	Boscombe Down	1032·9	+8	SW	4	Z	47	92	6	5	-	5	1	2-3	1500	1	*
	Calshot (Sthmtn.)	1033·2	0	SW'S	4	C	49	92	7	5	-	-	7-8	7-8	1500	1	2
	Lympne ...	1033·8	+4	SW	4	C	46	92	7	5	-	-	9+	9+	800	1	§3
	Manston ...	1032·4	+2	SW	4	bc	46	85	8	5	-	1	2-3	2-3	2500	1	*
2	Shoeburyness ...	1032·1	+4	SW	3	C	47	85	7	8	3	-	9	9+	2500	1	*
	Felixstowe ...	1031·0	+2	SSW	4	bc	45	85	7	5	4	-	2-3	2-3	4000	1	2
	Gorleston ...	1028·4	-2	SSW	4	bc	47	85	7	-	4	-	0	2-3	-	1	3
	Mildenhall ...	1029·6	+8	SW	4	b	46	85	8	-	4	4	0	1	-	1	*
	Cranwell ...	1026·2	0	SW'S	6	bc	47	85	7	5	5	-	2-3	4-6	2500	1	*
3	Birmingham ...	1027·9	+4	SW	4	C	48	85	6	5	-	-	7-8	7-8	800	1	*
	Upper Heyford	1030·0	+8	SW	3	bc	46	92	7	5	-	-	4-6	4-6	1500	1	*
4	Ross-on-Wye	1029·0	0	W'S	6	q	51	75	7	8	-	-	2-3	2-3	2500	1	*
5	Bristol ...	1031·7	+6	WSW	5	bc	49	85	7	5	-	-	4-6	4-6	800	1	*
	Portland Bill ...	1032·8	+6	WSW	4	bc	48	92	7	4	-	-	4-6	4-6	2500	1	3
	Plymouth ...	1034·4	*	WSW	4	bc	50	97	7	5	-	-	2-3	2-3	1500	1	2
	The Lizard ...	1035·0	+12	SW'W	4	bc	49	97	7	4	-	-	2-3	2-3	2500	1	3
	Scilly (St. Mary's)	1034·5	+14	SW'W	4	b	49	97	6	4	-	-	1	1	2500	1	3
	Guernsey ..	1035·6	+4	SW	3	C	48	92	7	5	3	-	4-6	7-8	2500	1	2
6	Pembroke ...	1029·6	+6	W'S	5	q	50	85	7	-	-	-	0	0	-	1	4
7	Holyhead ...	1025·0	+14	SW	5	b	48	85	8	1	-	-	Tr	Tr	1500	1	3
	Chester(Sealand)	1025·9	+12	WSW	4	b	50	75	7	5	-	-	Tr	Tr	2500	1	*
8	Manchester ...	1025·0	+14	SW'W	4	b	47	85	7	-	-	-	0	0	-	1	*
10	Spurn Head ...	1023·9	-4	SW	4	q	46	92	7	-	-	-	0	0	-	0	3
	Catterick ...	1026·8	+6	SW'W	6	C	49	65	7	8	-	-	7-8	7-8	2500	1	*
	Tynemouth ...	1017·9	0	WSW	4	bc	48	75	7	2	-	-	2-3	2-3	1500	1	1
11	St Abb's Head ..	1012·2	-8	WSW	7	bc	48	65	8	-	4	1	0	2-3	-	0	4
	Leuchars ...	1011·8	0	SW	7	PR	48	75	6	6	-	-	9+	9+	1500	1	*
12	Renfrew (Abbots L.)	1013·4	+4	SW'W	6	C	49	65	7	5	-	-	10	10	4000	1	*
	Eskdalemuir ...	1017·1	+10	SW	6	C	44	85	6	5	-	-	9+	9+	450	1	*
	Point of Ayre...	1020·2	+10	W	6	b	48	85	7	5	-	-	Tr	Tr	2500	1	4
13A	Tiree	1006·3	0	W	9	dd	50	75	6	-	2	-	10	10	1500	1	*
13B	Stornoway ...	997·6	-28	SSW	8	rr	47	85	6	5	2	-	7-8	10	1500	1	4
15	Dalwhinnie ...	1008·3	-16	SW	6	ir	42	75	6	3	6	-	4-6	4-6	2500	1	*
	Aberdeen	1008·3	-6	SSW	4	pr	46	75	7	8	-	-	4-6	4-6	2500	1	2
	Wick ...	1002·6	-16	S	4	b	44	85	8	5	-	-	1	1	1500	1	3
16	Lerwick ...	999·6	-30	SW	6	C	47	85	7	8	7	-	4-6	7-8	1500	1	*
17	Blacksod Point	1019·5	+32	NW	6	q	50	75	8	9	-	-	9	9	800	1	6
18	Malin Head ...	1012·6	+4	S'W	6	bc	50	92	7	8	-	1	4-6	4-6	800	0	4
	Aldergrove ...	1018·4	+16	SW'W	6	C	47	75	7	5	-	-	9	9	1500	1	*
19	Birr Castle ...	1023·5	+20	SW	5	b	49	75	8	-	-	-	0	0	-	1	*
20	Valentia Obsy. †	1028·4	+14	SW'W	4	bc	51	85	8	8	-	-	4-6	4-6	2500	1	4
	Roches Point	1029·0	+10	W	4	bc	50	85	8	5	-	-	2-3	2-3	1500	1	4

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 23.25(Sun) Hrs. (36)
1	London (Kew)	50	46	43	-	-	2·0
	Croydon ...	51	45	43	-	Tr	1·5
	S. Farnborough	51	45	43	-	Tr	1·5
	Boscombe Down	49	44	43	Tr	Tr	1·0
	Calshot (Sthmtn.)	49	46	45	Tr	Tr	0·3
	Lympne ...	49	43	43	-	Tr	0·0
	Manston ...	55	44	40	-	Tr	2·3
2	Shoeburyness ...	52	45	40	-	0·1	2·1
	Felixstowe ...	53	44	40	-	-	0·0
	Gorleston ...	52	45	42	-	-	1·5
	Mildenhall ...	51	45	40	Tr	Tr	0·0
	Cranwell ...	54	45	42	-	-	4·4
3	Birmingham ...	51	45	43	-	-	0·3
	Upper Heyford	49	44	39	Tr	-	*
4	Ross-on-Wye	52	46	44	Tr	Tr	0·0
5	Bristol ...	49	46	43	0·2	-	0·0
	Portland Bill ...	49	46	*	Tr	-	*
	Plymouth ...	49	47	46	0·3	-	0·0
	The Lizard ...	49	47	*	Tr	-	0·0
	Scilly (St. Mary's)	49	48	*	0·2	0·1	0·0
	Guernsey ..	47	45	41	0·1	-	0·1
6	Pembroke ...	49	46	*	0·3	Tr	0·0
7	Holyhead ...	49	46	45	1	1	0·0
	Chester(Sealand)	53	49	45	-	-	0·0
8	Manchester ...	54	46	42	-	Tr	0·3
10	Spurn Head ...	51	45	*	-	*	0·0
	Catterick ...	52	47	43	0·1	0·1	0·9
	Tynemouth ...	54	48	41	-	1	0·0
11	St Abb's Head ..	52	43	*	-	Tr	*
	Leuchars ...	53	46	42	-	1	3·8
12	Renfrew (Abbots L.)	52	47	44	-	4	1·4
	Eskdalemuir ...	49	43	41	1	9	0·6
	Point of Ayre...	52	45	*	0·5	2	0·0
13A	Tiree	49	46	45	0·2	2	0·0
13B	Stornoway ...	47	44	*	0·2	12	0·1
15	Dalwhinnie ...	46	41	37	-	6	0·9
	Aberdeen	51	46	42	-	Tr	1·6
	Wick ...	48	43	*	-	0·4	*
16	Lerwick ...	52	42	*	-	6	3·2
17	Blacksod Point	51	43	*	4	8	*
18	Malin Head ...	51	48	*	0·1	0·2	0·0
	Aldergrove ...	52	45	42	0·3	0·2	0·0
19	Birr Castle ...	52	47	*	Tr	1	0·0
20	Valentia Obsy. †	51	48	45	2	2	0·0
	Roches Point	51	49	*	0·5	1	*

LONDON OBSERVATIONS

Day 7h—18h. Kew & Croydon.
9h—18h. Kensington.
9h—21h. other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet.	Weather. Morning. 24 hrs. ended 9h.	Weather. Afternoon. 24 hrs. ended 9h.	Weather. Night. 24 hrs. ended 9h.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility 9h.
Kew	18	bc cm.	cm.	cm.	50	46	43	-	-	2·0	*	*	6
Croydon	217	bc cm.	cm.	cm id bc	51	45	43	-	Tr	1·5	*	*	7
Greenwich (Royal Observatory)...	149	bc	c	c	51	45	40	-	-	2·6	75	78	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	2·2	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	52	47	42	-	-	2·5	81	85	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	52	46	43	-	-	1·7	82	86	*
Camden Square	110	bc	c	*	50	46	42	-	-	*	*	82	*
Kensington	80	bc	bcc	*	51	46	39	-	-	2·2	At 18h. 87	83	*
Hampstead Observatory	450	c	bc	bc	49	43	37	-	-	1·0	*	89	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·3	16-17h 23rd	0·3	1-3h 24th

Kew Observatory. Max.	Time.	Min.	Time.
0·2	14h. 23rd	0·1	0-7h. 24th.

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.
Paris	1037·1	-	0	Z	50	1038·7	WNW	2	0	45
Brussels	1035·8	SW	1	PR	50	1035·1	W	4	0	45
Berlin	1029·7	W	3	0	46	1030·6	W	3	id	46
Zurich						1039·2	SSW	1	m	32
Rome	1027·1	NE	6	bc	43					

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
52	43	1	1
50	45	1	0·2
48	45	0·1	0·1
*	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 ,,	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. GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

† hr observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 25th January, 1938.
No. 27823.

District.	Stations. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 24th January														OBSERVATIONS at 18h. G.M.T. 24th January														PAST 24 HOURS.			
		Barom. at M.S.L.	Change in 3 hours.	Wind.		Weather.	°Temp.	%Humid.	Visibility	Cloud.						Barom. at M.S.L.	Change in 3 hours.	Wind.		Weather.	°Temp.	%Humid.	Visibility	Cloud.						State of Ground.	Sea.	Weather.			
										Form.			Amount.		Height of Base (feet)								Form.			Amount.		Height of Base (feet)					
		mb.		Direc.	0–12 Force				0–9	Low	Med.	High	Low 0–10	Total 0–10		mb.		Direc.	0–12 Force				0–9	Low	Med.	High	Low 0–10	Total 0–10		0–9	0–9	7h.—18h. 24th	13h.—18h. 24th	18h. 24th to 1h. 25th	1h.—7h. 25th
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(37)	(38)	(39)	(40)
1	London (Kew)	1030.2	+2	WSW	4	c	54	75	7	1	-	6	Tr	7-8	2500.	1033.8	+6	SW	3	bc	49	85	6	-	-	6	0	4-6	-	1	*	cm bc	bcm	bcepc	c
	Croydon ...	1033.2	-2	W's	5	bc	55	65	7	-	-	6	0	4-6	-	1034.2	+12	SW's	4	Zo	48	92	6	-	-	2	0	4-6	-	1	*	bcbc	bc	bcwbc	bccd
	S. Farnborough	1033.6	-2	WSW	5	bc	55	65	8	1	-	1	1	4-6	2500.	1034.5	+18	SSW	3	Zo	47	92	6	5	-	2	Tr	7-8	2500.	1	*	bcbbc	bc	bcc	c
	Boscombe Down	1034.5	-2	W's	4	bc	54	75	7	1	-	4	2-3	4-6	2500.	1034.5	-6	SSW	3	b	45	97	6	-	-	1	0	1	-	1	*	bbc	bcb	bc	ccic
	Calshot (Sthmtn.)	1034.9	0	SW's	5	b	52	85	7	1	-	1	Tr	1	2500.	1035.7	+6	SW	4	Zo	48	97	6	5	-	-	9	9	1500	1	3	bmb	bbcm	cbc	bcc
	Lympne ...	1034.2	-6	SWW	4	bc	53	75	7	1	-	1	Tr	2-3	1500.	1035.7	+6	SW	4	Zo	45	92	6	5	-	-	9+	9+	450	1	§ 4.	cbc	bcm	cm c	cbcc
	Manston ...	1032.7	-6	SW	4	bc	54	65	8	-	-	8	0	4-6	-	1034.6	+6	SW	3	bc	46	92	7	-	-	8	0	4-6	-	1	*	bc	Zbc.	bcbw	bwcq
2	Shoeburyness ...	1032.4	-6	SW	4	b	55	65	6	-	-	-	0	0	-	1033.9	+14	SW's	3	c	47	85	6	-	-	6	0	7-8	-	1	*	cbzo	bczo	czb	b rc
	Felixstowe ...	1031.5	0	SW	4	bc	54	65	7	-	4	1	0	2-3	-	1032.8	+4	SW's	2	bc	46	85	6	-	-	8	0	4-6	-	1	2	bmb	bbcm	bcm	bcmcm
	Gorleston ...	1030.1	0	SW SW	4	bc	53	75	7	-	4	1	0	4-6	-	1031.1	+6	SSW	4	c	50	85	6	-	7	-	0	7-8	-	1	2	bcq	bcaq	bcb	bccq
	Mildenhall ...	1029.8	+2	WSW	5	b	55	65	7	-	-	1	0	1	-	1031.7	+10	SSW	4	Zo	49	85	6	-	-	2	0	4-6	-	1	*	b	bbc	bczbwm	bm c
	Cranwell ...	1027.9	+2	WSW	5	bc	53	65	7	-	-	3	0	2-3	-	1029.3	+8	SSW	4	c	47	85	6	-	4	2	0	7-8	-	1	*	bcbzo	bcc	bcbm	bmc
3	Birmingham ...	1030.5	+6	WSW	4	b	53	65	8	-	-	1	0	1	-	1030.3	0	SSW	3	b	48	75	8	-	-	1	0	1	-	1	*	bcb	b	bc	cbcc
	Upper Heyford	1032.0	+2	W	5	bc	53	75	6	1	3	9	Tr	2-3	4000.	1032.5	+6	WSW	3	bc	47	92	6	5	3	1	Tr	4-6	4000	1	*	bbc	bc	bcb	bccd
4	Ross-on-Wye	1031.6	0	SW	4	q	54	65	7	1	-	1	Tr	1	4000.	1031.4	-4	SW	4	q	48	85	6	-	2	-	0	Tr	-	1	*	bqb	bqbbcbq	bbc	bccq
5	Bristol ...	1034.5	+10	W's	4	bc	53	85	7	1	3	-	4-6	4-6	2500.	1033.6	-4	SSW	1	b	48	85	7	-	4	-	0	1	-	1	*	bcb	bcb	b	bcr
	Portland Bill ...	1035.3	+4	WSW	4	0	48	92	7	5	-	-	10	10	1500.	1034.8	-2	WSW	4	0	48	85	7	5	-	-	10	10	1500	1	5	bco	0	o	oc
	Plymouth ...	1036.1	+4	SWW	4	Zo	51	92	6	5	-	-	9+	9+	800.	1035.5	0	SW	4	Zo	50	85	6	5	-	-	10	10	800	1	2	bcm	cmc	cmc	c
	The Lizard ...	1035.9	0	SWW	4	C	49	97	7	5	2	-	2-3	9	1500.	1035.1	0	SW	5	c	49	92	8	5	2	-	9	10	2500	1	3	bcofc	c	cpnc	c
	Scilly (St. Mary's)	1035.5	+2	SW	5	0	49	92	6	5	-	-	10	10	1500.	1034.0	-2	SW	5	c	50	85	7	5	-	-	9+	9+	1500	1	3	bcmo	oc	cbcc	c pro
	Guernsey ...	1037.1	+2	SW	3	c	52	85	7	8	-	-	9	9	2500.	1037.6	+2	SSW	1	c	49	92	6	8	3	-	7-8	9+	2500	1	2	cbcc	cbcc	oo	or
6	Pembroke ...	1033.2	+4	WSW	4	q	51	92	6	-	7	-	0	4-6	-	1031.2	-4	SW	6	q	48	92	7	8	2	-	7-8	9+	2500	1	4	bcqm	bcaq	oqcc	amqir
7	Holyhead ...	1028.5	+2	SSW	4	c	50	85	7	-	3	8	0	7-8	-	1026.8	-10	SSW	6	c	48	92	7	5	9	-	2-3	9+	800	1	3	b,c,bc	mc	eddc	mRRc
	Chester (Sealand)	1029.7	+2	W's	4	bc	55	65	7	1	4	2	Tr	4-6	2500.	1028.2	-10	WSW	2	bc	50	65	7	-	7	2	0	4-6	-	1	*	bbc	bcqbc	bqbc	bcc
8	Manchester ...	1028.8	+6	WSW	4	Zo	53	65	6	-	4	5	0	4-6	-	1027.3	0	SW SW	4	Zo	48	75	6	-	4	1	0	4-6	-	1	*	bbczo	bczo	bczb	bc
10	Spurn Head ...	1025.6	0	W	6	q	51	65	5	-	3	8	0	7-8	-	1027.2	+4	SW	5	bc	47	85	7	-	4	-	0	2-3	-	0	3	bczcq	zzcbc	bc	bccq
	Catterick ...	1021.8	+2	WSW	8	c	51	65	7	2	4	2	Tr	7-8	2500.	1025.0	+18	SW's	2	c	47	75	7	8	-	9	2-3	7-8	1500	1	*	cbc	bcc	cbbc	bccpc
	Tynemouth ...	1017.6	+6	W	8	bc	53	55	6	2	-	-	2-3	2-3	1500.	1021.8	+14	SW	3	bc	49	75	6	5	-	-	4-6	4-6	1500.	1	2	bcq	bc	bc	bcq
11	St Abbs Head	1015.3	+20	W	8	b	51	65	7	-	-	1	0	Tr	-	1018.5	+10	W	4	bc	50	55	7	-	3	-	0	2-3	-	0	3	bcbqc	bcby	bcq	rnqc
	Leuchars ...	1016.5	+30	WSW	7	q	52	55	8	5	4	-	Tr	1	1500.	1016.0	-2	W	6	q	47	75	6	5	-	-	2-3	2-3	1500.	1	*	prpnb	bbcqzo	bqcq	cqrrR
12	Renfrew (Abbotsl.)	1021.0	+44	W's	5	c	50	65	7	5	7	-	7-8	9+	2500.	1019.4	-20	SSW	5	Zo	49	75	6	5	-	-	9+	9+	4000.	1	*	c	cczo	cmr	cmrrR
	Eskdalemuir ...	1022.5	+12	SWW	7	bc	46	75	6	5	3	-	4-6	4-6	2500.	1021.5	-6	WSW	7	c	45	75	6	5	3	2	7-8	9	1500	1	*	cbcm	cm	cmcrr	RRqrR
	Point of Ayre ...	1024.8	+6	W	6	c	50	75	7	-	3	-	0	7-8	-	1024.2	-10	SW	3	c	49	85	7	-	2	-	0	9	-	0	2	bbcc	c	cbc	bcrrc
13a	Tiree	1015.6	+34	W	6	c	50	75	6	5	7	-	7-8	9+	2500.	1012.9	-26	SSW	5	c	49	85	7	5	2	-	7-8	9+	2500	0	5	adprc	cid		
13b	Stornoway ...	1007.4	+60	WSW	7	c	49	75	6	5	2	-	7-8	10	1500.	1006.3	-28	S	8	rsro	46	92	6	8	2	-	7-8	10	1500	1	4	crrRrc	crrRrc	crrR	cRRpr
15	Dalwhinnie ...	·	+40	SW	7	c	46	65	7	5	2	8	4-6	10	2500.	1015.2	-10	S	5	bc	43	75	7	4	6	-	2-3	2-3	2500	0	*	cir	c	*	cRr
	Aberdeen ...	1010.3	+34	W	6	bc	55	45	8	1	3	6	Tr	4-6	2500.	1014.0	+8	WSW	3	b	49	65	7	5	-	3	Tr	1	4000	1	2	prbc	bcqyb	bq bc	bccr
	Wick ...	1004.9	+30	J	8	bc	50	97	8	4	6	-	2-3	4-6	1500.	1009.3	+10	W	5	c	47	75	8	5	7	8	4-6	7-8	1500	1	3	cbc	cq	o	clrq
16	Lerwick ...	997.6	-4	SW	8	c/r	47	92	7	8	2	-	9	10	800.	1004.0	+40	SW	9	c	47	85	7	8	7	-	4-6	7-8	800	1	*	cir	cirq	bccir	cirrrr
17	Blacksod Point	1019.8	-22	S	8	q	51	85	8	9	-	4	4-6	4-6	800.	1015.7	-22	S	8	q	51	85	7	9	-	-	10	10	450	1	7	cbcq	cq	R rq	irq
18	Malin Head ...	1018.9	+10	SW	5	c	50	92	6	4	8	-	2-3	9	800.	1014.4	-40	SW	5	bc	49	97	7	4	4	1	2-3	4-6	800	0	4	cbcc	cbc	bcc	circ
	Aldergrove ...	1022.8	+8	SW	5	c	49	75	7	5	3	2	1	7-8	5700.	1020.0	-22	SW	4	c	50	75	7	5	7	8	2-3	7-8	2500	1	*	cbc	bcbc	bcidir	grrbc
19	Birr Castle ...	1026.4	-10	SSW	2	bc	54	65	8	5	-	5	2-3	4-6	2500.	1022.8	-12	S	4	c	50	75	8	5	7	-	4-6	9	2500	1	*	bbc	bcc	c i	cpr
20	Valentia Obsy. †	1026.8	-24	S'W	6	bc	53	85	8	2	-	2	1	4-6	1500.	1024.2	-14	SSW	6	ic	52	85	7	5	-	-	10	10	800	1	4	bcbc	bcc id	idddrr	rrcpic
	Roches Point	1030.5	+8	SW	4	c	51	92	7	5	-	-	9+	9+	1500.	1027.5	-16	SW	5	ic	50	97	6	5	-	-	10	10	450	1	4	bcc	coid	odd	cirbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci; Cirrocumulus,–Cc; Cirrostratus,–Cs; Altocumulus,–Ac; Altostratus,–As
Stratocumulus,–Sc; Stratus,–St; Nimbostratus,–Ns; Cumulus,–Cu; Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.

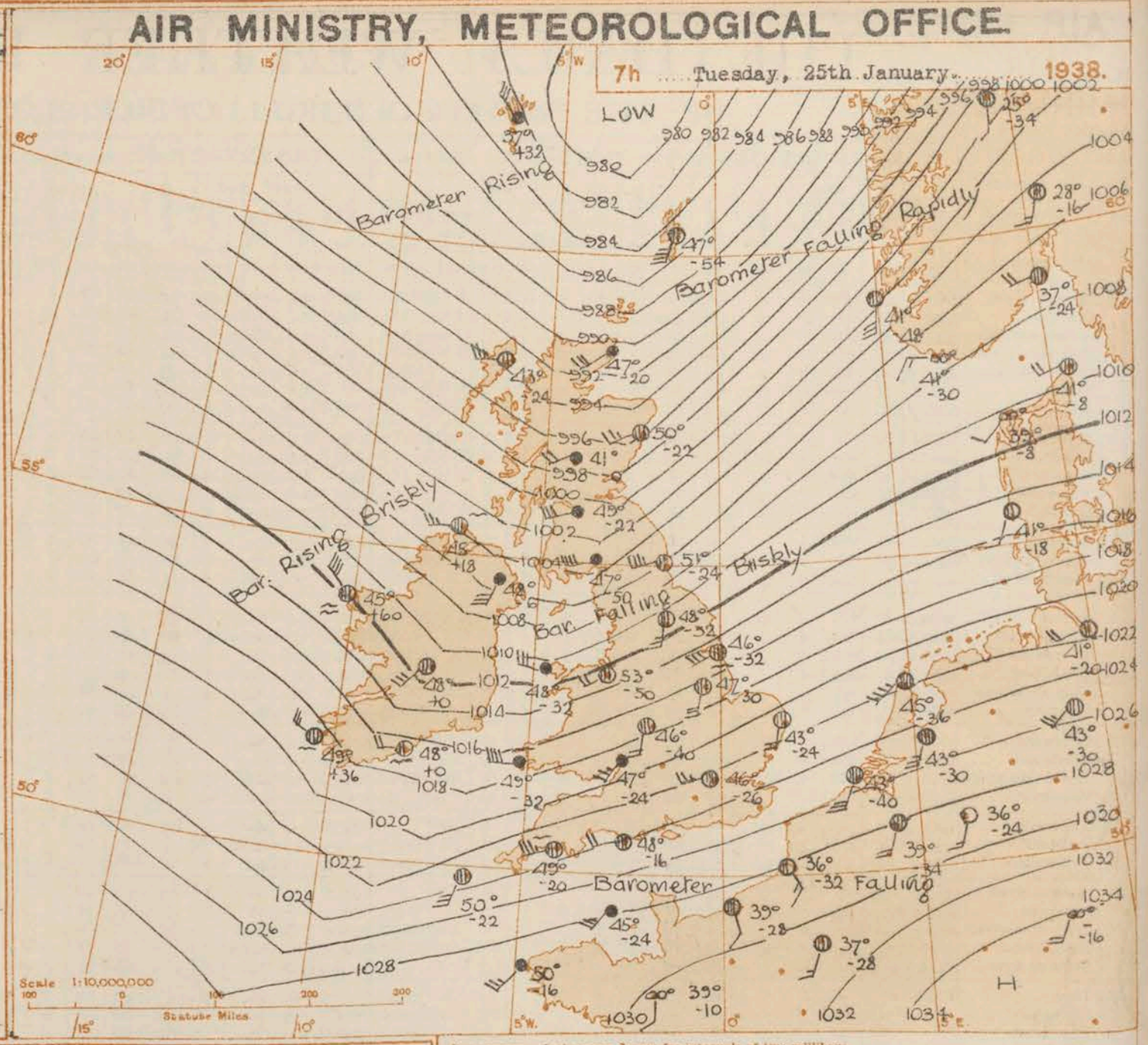
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

† Son disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 24th. January 1938.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 23rd to 9h. 24th	Temperature. (°F.) Max. 9h.—17h. 24th	Rainfall. (mm.) Night. 17h. 23rd to 9h. 24th	Rainfall. (mm.) Day. 9h.—17h. 24th	Sunshine (hrs) Sunrise to Sunset. 24th.
1	Tunbridge W.	bc	bcb	43	55	Trace	-	6.1.
	Bournemouth	b	bbc	46	53	-	-	5.0.
	Ventnor ...	mbc	bcc	44	52	-	-	3.2.
	Southsea ...	b	bbc	46	54	-	-	5.5.
	Bognor Regis	b	b	45	52	-	-	6.3.
	Littlehampton	bc	bcc	45	52	-	-	6.4.
	Worthing ...	b	b	45	52	-	-	5.3.
	Brighton ...	cbb	bc	45	51	Trace	-	5.1.
	Eastbourne† ...	cb	bbcc	45	51	0.2	-	4.8.
	Hastings† ...	cbcbc	bcbcc	45	53	0.3	-	3.0.
	Folkestone ...	cbcb	bbcc	45	53	Trace	-	3.7.
	Dover ...	cbcb	bbcc	45	52	Trace	-	4.7.
	Deal	bcbcb	b	46	54	-	-	4.7.
	Ramsgate ...	bc	bc	46	56	-	-	6.4.
	Margate ...	bc	bc	45	57	-	-	6.1.
2	Southend ...	bcb	b	44	55	-	-	5.6.
	Clacton-on-Sea	bcb	bbc	45	54	-	-	6.1.
	Dovercourt ...	bm	bc	44	56	-	-	6.8.
	Lowestoft ...	b	b	44	54	Trace	-	6.6.
	Skegness ...	bbcb	b	43	54	-	-	6.4.
	Mablethorpe...	bbc	bbc	44	54	-	-	5.9.
	Cleethorpes ...	bc	bcc	45	54	-	-	4.9
3	Leamington S.	b	bbc	46	55	-	-	6.2.
4	Cheltenham†	bcb	bbcq	46	58	-	-	6.1
5	Bath	b	b	43	56	-	-	7.1.
	Weymouth ...	b	b	47	53	-	-	6.5.
	Jersey ...	pcc	cbcc	44	51	Trace	-	2.0.
	Torquay ...	wbbc	cbc	47	55	-	-	4.6.
	Falmouth	bc	c	47	53	-	-	3.6.
	Penzance ...	bbc	cbcbc	47	54	-	-	3.3.
	St. Ives ...	c	o	46	49	1	-	0.0.
	Bude... ...	bc	bc	47	52	-	-	4.6.
	Ilfracombe ...	cbc	bcbc	47	52	-	-	5.6.
6	Aberystwyth	cbc	bcc	46	51	0.3	-	5.6.
7	Llandudno ...	bcb	bcb.	47	53	-	-	5.0.
	Colwyn Bay...	bcbb	bbcbc	47	55	-	-	4.6.
	Rhyl	bc	bc	48	55	Trace	-	5.9.
8	Wallasey ...	cbc	bc	47	52	-	-	2.5.
	Southport ...	ccbc	bcbbc	47	52	0.2	-	3.8.
	Blackpool ...	cam.c	bbcm.	47	51	1	-	1.9.
	Morecambe ...	ccbc	bccbc	45	49	0.5	-	1.6
9	Ilkley... ...	bcb	b	46	51	-	-	5.5.
	Harrogate ...	bq	bqb	45	50	-	-	6.2.
10	Berwick-on-T.	cbc	bbc	45	52	1	-	4.0.
11	Dunbar ...	cm.	cm.	47	51	-	-	2.4.
12	Troon	ccccc	cccoc	44	50	1	-	0.0.
	Douglas ...	cic	bc	46	50	2	-	0.4.

† Max. Temp. for period 21h. yesterday to 12h. today: Min. Temp. 21h.-9h.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 25th January, 1938.
1 S.E. England 2 E. England ...	Fresh or strong squally southwest winds, a gale on the coast, veering west or northwest and moderating but backing later; occasional rain at first, fair later; mild at first but temperature falling later.
3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Strong squally west or northwest winds moderating temporarily but backing and freshening later, mainly fair apart from occasional showers; temperature falling to average.
10 N.E. England 11 S.E. Scotland	As 1 - 2.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	As 3 - 9.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Strong squally west or northwest winds, moderating but backing and freshening again; mainly fair at first, but rain spreading from the west; average temperature.

H.M. Stationery Office Press, Kingsway, W.C.2. 8.330/3338. m.8020.9.46. C&S. 25110. 1/38

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE

A deep depression near the Faeroes and another north of the Azores are moving northeast. It will be mainly fair in most districts after some rain early in the East but further rain will spread from west later. It will become less mild than of late in the South.

Further Outlook.

Rain spreading from the West.

FURTHER OUTLOOK

Times of issue of Gale Warnings.

- South cone hoisted at 0530 on 22nd in dist. 13B and at 0920 in districts 15 and 16.
- South Cone hoisted at 1530 on 23rd in 13A, 17, and parts of 18 & 20, and at 1940 in 11, 14 and parts of 12 & 18.
- South cone hoisted at 1050 on 24th in 2 & 10 and at 1905 in 6, 7, 8, part of 19 and remainder of 12 and 18.
- South cone hoisted at 0155 on 25th in district 5 and remainder of 19 and 20, and at 0850 in districts 1 and 2.

Forecasts issued at 1000 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

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

Hours of observation:—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

TUESDAY 25TH JANUARY

1938.

Clarke's Projection Scale 1·4 x 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—○

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. ⁂Sleet. △Hail. ≡Fog. ≡Mist. (K)Thunder. ⱿThunderstorm. ∞Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 25th January, 1938.
No. 27823.

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. 0–9 (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	1024·2	-1·3	SW/W	5	bc	46	85	3	5	-	-	4-6	4-6	1500
	S. Farnborough	220	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	340	1032·3	-2·2	SW/S	5	c	45	85	8	5	-	-	7-8	7-8	1500
	Manston ...	142	1030·2	-2·8	SW/W	5	b	45	85	7	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1028·7	-2·4	SSW	4	b	42	85	6	-	-	-	0	0	-
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1030·4	-2·0	SW	4	o	47	92	7	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1029·3	-3·2	S'W	5	c/pr	49	92	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1027·3	-4·2	SSW	6	c	49	97	8	5	2	7	2-3	10	1500
	Guernsey ...	175	1033·4	-3·0	S	2	o	47	85	9	5	-	-	10	10	2500
6	Pembroke ...	142	1026·5	-2·4	SW	7	q	49	92	7	8	-	-	10	10	1500
7	Holyhead ...	26	1019·8	-3·4	SSW	6	c	48	92	6	6	2	-	7-8	10	450
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1022·6	-2·0	SW	5	bc	44	85	8	8	-	-	4-6	4-6	4000
	Cutterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1016·2	-3·2	SW	5	bc	48	75	7	2	-	-	2-3	2-3	1500
11	St Abbs Head ..	280	1005·6	-5·6	WSW	8	pc	46	85	8	-	4	-	0	4-6	-
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	10	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lokdalemuir ..	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1015·3	-4·8	SW/W	6	bc	49	92	7	5	4	-	2-3	2-3	800
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	998·0	-3·6	S	8	rr	48	97	6	5	2	-	9	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ..	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1001·5	-3·0	SSW	5	c	47	75	8	5	1	-	4-6	7-8	1500
16	Lerwick ...	156	999·0	-4·0	SSW	7	c/r	45	97	7	9	2	-	7-8	10	800
17	Blacknod Point	18	1004·4	-3·0	S	9	RR	54	92	6	6	-	-	10	10	450
18	Malin Head ...	84	1002·7	-3·0	S'W	6	c/r	53	97	6	6	2	-	4-6	10	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	178	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1013·1	-5·6	S	7	RR	52	85	6	6	-	-	10	10	800
	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)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1023·3	-2·8	SW	5	c	47	85	7	5	-	-	10	10	1500	1	*
	Croydon ...	1023·9	-2·6	SW'W	5	c/d	46	86	8	5	-	-	10	10	1500	1	*
	S. Farnborough	1023·4	-2·1	SW	5	c	46	85	7	5	-	-	10	10	1500	1	*
	Boscombe Down	1023·6	-2·8	SW'W	4	ir	45	85	7	5	2	-	7-8	10	1500	1	*
	Calshot (Sthmtn.)	1024·8	-2·0	SSW	6	r,c	46	97	7	6	-	-	10	10	800	1	3
	Lympne ...	1025·4	-3·0	SSW	5	c	42	85	7	5	-	-	9+	9+	800	1	5A
	Manston ...	1025·8	-3·0	SW	6	c	43	85	7	5	-	-	9	9	800	1	*
2	Shoeburyness ...	1023·4	-2·0	SSW	5	c	45	85	7	5	-	-	10	10	1500	1	*
	Felixstowe ...	1022·3	-3·2	SSW	5	c	44	85	6	5	3	-	7-8	9	2500	1	3
	Gorleston ...	1020·4	-2·4	S'W	4	c	43	85	6	5	2	-	4-6	9	4000	1	3
	Mildenhall ...	1020·2	-3·2	SW	5	c	47	85	8	5	-	-	10	10	1500	1	*
	Cranwell ...	1017·2	-3·0	SSW	6	c	47	75	7	5	-	-	9+	10	1500	0	*
3	Birmingham ...	1017·6	-4·0	SSW	4	c	46	85	8	5	-	6	4-6	7-8	1500	1	*
	Upper Heyford	1021·1	-2·2	SSW	6	d,c	46	85	7	5	2	-	9	10	800	1	*
4	Ross-on-Wye	1019·8	-2·4	SW/S	5	d,c	47	85	7	5	-	-	10	10	1500	1	*
5	Bristol ...	1021·9	-3·6	S'W	5	c/r	47	85	7	5	-	-	7-8	7-8	1500	1	*
	Portland Bill ...	1024·1	-1·6	WSW	4	c	48	92	7	4	-	-	10	10	2500	1	3
	Plymouth ...	1023·6	-2·0	SW'W	7	c	49	85	7	5	-	-	10	10	1500	1	3
	The Lizard ...	1024·5	-1·0	SW/S	6	c	49	85	7	5	2	-	9+	10	1500	1	3
	Scilly (St. Mary's)	1022·8	-2·2	SW/S	6	c/pr	50	92	8	5	2	-	7-8	10	1500	1	4
	Guernsey ...	1022·2	-2·4	S'W	5	c	45	97	6	5	-	-	10	10	2500	1	3
6	Pembroke ...	1025·9	-3·2	W	8	hr	49	97	7	5	-	-	10	10	2500	1	5
7	Holyhead ...	1011·8	-3·2	W/SW	6	ir	48	85	7	6	2	-	7-8	10	450	1	3
	Chester (Sealand)	1013·3	-5·0	SW	4	c	53	75	7	5	2	-	9	10	1500	1	*
8	Manchester ...	1013·3	-4·8	S'W	6	ir	49	95	7	-	2	-	10	10	1500	1	*
10	Spurn Head ...	1014·8	-3·2	SW	6	q	46	85	7	5	5	-	4-6	10	1500	0	4
	Cutterick ...	1008·3	-5·2	SSW	5	c/pr	48	85	7	5	-	2	4-6	7-8	1500	1	*
	Tynemouth ...	1005·9	-2·4	WSW	7	q	51	75	7	7	-	-	4-6	4-6	1500	1	2
11	St Abbs Head ..	998·4	-4·0	W/SW	8	rr	49	85	7	4	6	-	4-6	9+	1500	1	4
	Leuchars ...	999·4	-2·2	WSW	7	RR	48	85	6	5	2	-	9	10	1500	1	*
12	Renfrew (Abbotsl.)	1000·7	-2·2	SW'W	6	rr	49	88	6	6	-	-	10	10	2500	1	*
	Lokdalemuir ..	1003·2	-5·0	SW'W	8	rr	47	92	5	6	-	-	10	10	220	2	*
	Point of Ayre...	1006·7	-2·0	W	7	c	49	92	7	6	1	-	4-6	10	800	1	4
13A	Tiree	999·4	-4·0	WSW	8	rr	49	85	7	4	6	-	4-6	9+	1500	1	4
13B	Stornoway ...	999·7	+2·4	W	5	r/pr	43	85	7	5	7	-	4-6	4-6	2500	1	3
15	Dalwhinnie ...	997·6	0	WSW	4	RR	41	85	6	6	-	-	10	10	1500	1	*
	Aberdeen ..	995·0	-2·2	SW	5	c/r	50	85	7	6	1	-	2-3	9+	1500	1	2
16	Lerwick ...	993·9	-2·0	SW	6	ic	47	85	8	5	2	-	7-8	10	1500	1	3
		995·1	-5·4	SSW	8	c/r	47	85	8	8	7	-	7-8	9	800	1	*
17	Blacknod Point	1012·3	+6·0	NW	8	q	45	75	8	9	-	-	7-8	7-8	800	1	6
18	Malin Head ...	1008·8	+1·8	W	5	c/p	45	87	6	8	2	-	4-6	10	800	1	4
	Aldergrove ...	1004·9	-0·6	SW/S	6	pc	48	75	7	8	-	-	9	9	2500	1	*
19	Birr Castle ...	1010·9	0	SW	6	c/pr	48	85	8	8	-	-	9	9	1500	1	*
20	Valentia Obsy. †	1010·8	-3·6	NW/W	5	c/pr	49	75	7	8	-	-	7-8	7-8	2500	1	5
	Roches Point	1017·5	0	W	4	bc	48	85	8	5	-	-	4-6	4-6	1500	1	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 ins. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 24 Hrs. (36)
1	London (Kew)	55	44	40	-	Tr	6·2
	Croydon ...	55	45	41	-	Tr	5·6
	S. Farnborough	55	44	39	-	-	6·7
	Boscombe Down	54	43	40	-	Tr	6·7
	Calshot (Sthmtn.)	53	46	45	-	Tr	5·9
	Lympne ...	53	42	41	-	-	4·8
	Manston ...	56	41	39	-	Tr	6·6
2	Shoeburyness ...	59	44	39	-	0·3	6·4
	Felixstowe ...	54	42	37	-	-	6·7
	Gorleston ...	54	41	38	-	-	6·4
	Mildenhall ...	56	42	36	-	Tr	6·1
	Cranwell ...	55	41	38	-	-	6·3
3	Birmingham ...	54	42	40	-	-	6·4
	Upper Heyford	54	42	41	-	Tr	*
4	Ross-on-Wye	54	45	41	-	Tr	6·6
5	Bristol ...	54	45	40	-	Tr	6·9
	Portland Bill ...	51	46	*	-	-	*
	Plymouth ...	51	48	46	-	-	2·3
	The Lizard ...	52	47	*	-	0·1	0·9
	Scilly (St. Mary's)	52	49	*	-	Tr	6·2
	Guernsey ...	53	43	42	-	Tr	1·7
6	Pembroke ...	51	45	*	-	1	3·0
7	Holyhead ...	51	47	45	-	2	3·2
	Chester (Sealand)	55	47	39	-	-	4·3
8	Manchester ...	54	44	40	-	-	2·4
10	Spurn Head ...	51	42	*	-	-	3·2
	Cutterick ...	51	45	40	-	Tr	5·1
	Tynemouth ...	53	47	41	-	-	4·4
11	St Abbs Head ..	52	45	*	-	1	*
	Leuchars ...	53	47	43	0·5	5	3·5
12	Renfrew (Abbotsl.)	50	49	46	-	3	0·0
	Lokdalemuir ..	47	43	41	-	24	0·0
	Point of Ayre...	53	45	*	-	4	1·1
13A	Tiree						
13B	Stornoway ...				Tr.		
15	Dalwhinnie ...	50	41	*	-	1A	0·0
	Aberdeen ..	47	41	36	3	16	0·2
16	Lerwick ...	55	46	42	Tr.	0·1	6·0
		51	44	*	0·3	1	*
17	Blacknod Point	49	40	*	2	3	0·0
18	Malin Head ...						
	Aldergrove ...	51	44	*	Tr.	4	0·0
19	Birr Castle ...	51	47	43	-	4	2·3
20	Valentia Obsy. †	55	48	*	-	7	3·9
	Roches Point	53	48	45	Tr.	6	2·5

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
Kew	18	cm,bc	bcm,	cpr,c	55	44	40	-	Tr	6·2	•	•	7
Croydon	217	bc,c,bc	bc	bc,bc,bd	55	45	41	-	Tr	5·6	•	•	7
Greenwich (Royal Observatory)..	142	cb	b	buc	55	43	34	-	Tr	5·4	60	75	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	4·0	•	•	•
Westminster (St. James' Park) ...	27	*	*	*	56	46	40	—	—	5·1	69	81	•
Regents Pk. (Botanic Gardens)[...	106	*	*	*	55	45	41	-	-	4·4	61	77	•
Cadogan Square	110	cb	b	*	55	45	41	-	-	*	*	77	•
Kensington	80	c	bc	*	56	45	38	-	-	5·5	At 13h. 77	77	•
Hampstead Observatory	456	bc	bc	b	54	44	38	-	-	5·3	*	88	•

FOREIGN OBSERVATIONS.

Stations	13h. G.M.T. 24th January. Barom. mb.	Wind. Direc.	Wind. Force	Weather.	Temp. °F.	7h. G.M.T. 25th January. Barom mb.	Wind. Direc.	Wind. Force	Weather.	Temp. °F.
Paris	1037·5	SW	2	2,	46					
Brussels	1035·9	W/W	3	c	46	1029·1	SSW	4	c	39
Berlin						1024·1	W/S	3	c	45
Zurich	1040·3	NW	1	m	32	1036·2	SSW	1	F	30
Rome	1031·5	E	1	bc	48	1029·5	ENE	1	b	39

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·4	17-19h, 24-7h	0·3	1-3h, 25-7h

Kew Observatory. Max.	Time.	Min.	Time.
0·2	19h, 24-7h	0·1	0-7h, 25-7h

Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
50		-	
50	36	Tr	-
	43		-
39	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 ,,	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.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

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

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h.

§ Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 26th January, 1938

No. 27824.

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. (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)	1018·9	-12	SW'W	4	c/r	47	85	6	5	–	–	9+	9+	1500
	Croydon ...	1019·6	-14	WS	4	c/r	46	85	6	9	–	–	9+	9+	1500
	S. Farnborough	1019·6	-10	WSW	4	c/r	45	85	7	5	7	–	9	9+	2500
	Boscombe Down	1020·6	+2	WS	5	c/r	47	85	7	5	3	4	4-6	7-8	800
	Calshot (Sthmtn.)	1021·2	-6	WSW	3	c	47	92	8	5	–	–	9	9	2500
	Lympne ...	1019·8	-34	SW	5	m/fd	45	97	4	–	2	–	10	10	150
	Manston ...	1018·8	+30	SW	5	ido.	47	92	5	5	–	–	9+	9+	800
2	Shoeburyness ...	1018·5	-16	WSW	5	ir.	48	92	5	5	2	–	4-6	10	1500
	Felixstowe ...	1017·3	-26	SW'S	4	r.r.	46	92	6	6	2	–	7-8	10	1500
	Gorleston ...	1014·8	-26	SW	4	r.r.	48	85	6	6	–	–	10	10	2500
	Mildenhall ...	1015·3	-16	SW'W	5	c/r	46	92	8	5	2	–	4-6	9+	1500
	Cranwell ...	1012·9	-6	SW	6	pr.	47	85	7	8	–	–	7-8	9+	1500
3	Birmingham ...	1016·2	+2	WNW	5	bc/pr	47	75	8	8	–	6	4-6	4-6	2500
	Upper Heyford	1017·8	-4	WS	5	c	47	85	7	5	7	–	4-6	7-8	1500
4	Ross-on-Wye	1019·1	+6	W	5	q	50	65	8	2	–	–	7-8	7-8	2500
5	Bristol ...	1020·6	+8	W	6	bc/pr	49	85	7	8	–	–	4-6	4-6	1500
	Portland Bill ...	1021·8	+8	W	6	c	49	92	7	8	–	–	7-8	7-8	2500
	Plymouth	1024·5	+14	WNW	6	bc	50	75	8	8	–	–	4-6	4-6	1500
	The Lizard ...	1025·9	+14	WNW	6	bc	50	75	8	8	–	–	2-3	2-3	2500
	Scilly (St.Mary's)	1027·1	+22	WNW	6	bc	50	75	8	3	–	–	2-3	2-3	1500
	Guernsey ...	1025·6	-10	W'N	3	r.r.	44?	87	6	5	–	–	10	10	1500
6	Pembroke ...	1022·2	+20	WNW	6	q	48	75	7	7	6	–	2-3	4-6	4000
7	Holyhead ...	1017·7	+52	WNW	7	bc	46	65	8	2	–	–	4-6	4-6	1500
	Chester(Sealand)	1016·9	+46	W'N	6	bc	48	65	7	8	4	–	4-6	4-6	4000
8	Manchester ...	1015·1	+30	W'N	6	bc	47	75	7	8	3	–	4-6	4-6	1500
10	Spurn Head ...	1010·5	-6	WSW	5	q	46	85	7	5	–	–	10	10	1500
	Catterick ...	1010·0	+26	W'N	6	bc	47	65	8	9	3	3	2-3	2-3	1500
	Tynemouth ...	1006·5	+28	W	8	bc	48	65	7	2	–	–	2-3	2-3	1500
11	St Abbs Head ...	1006·3	+56	WNW	6	bc	44	65	8	1	6	–	4-6	4-6	4000
	Leuchars ...	1005·9	+56	W	5	bc	47	65	9	8	–	–	2-3	2-3	2500
12	Renfrew (Abbotsl.)	1009·5	+46	W'N	5	jp	46	65	8	3	–	–	4-6	4-6	2500
	Eskdalemuir ...	1008·9	+36	W'N	7	bc	42	55	8	5	–	–	2-3	2-3	1500
	Point of Ayre...	1014·1	+50	NNW	6	b	47	75	8	3	–	–	1	1	1500
13A	Tiree	1009·6	+30	NW	6	phr	44	75	8	3	–	–	4-6	4-6	1500
13B	Stornoway ...	1002·2	+20	WSW	7	c	41	85	8	5	7	3	4-6	7-8	2500
15	Dalwhinnie ...	1006·6	+30	WSW	5	bc	38	75	8	8	6	–	4-6	4-6	2500
	Aberdeen ...	1003·7	+28	WNW	4	b	44	65	8	2	–	–	Tr	Tr	2500
	Wick ...	999·0	+56	W	6	bc	42	75	8	8	7	–	2-3	2-3	1500
16	Lerwick ...	992·5	+34	W	7	bc/phr	39	85	8	8	7	–	4-6	4-6	1500
17	Blacksod Point	1020·7	+20	WN	7	q	44	75	8	9	–	–	7-8	7-8	800
18	Malin Head ...	1012·9	+26	W	5	bc	45	92	6	9	6	–	4-6	4-6	800
	Aldergrove ...	1015·6	+34	W'S	5	c	45	65	8	8	–	–	7-8	7-8	2500
19	Birr Castle ...	1021·5	+26	SW	5	bc	47	65	8	8	–	–	4-6	4-6	1500
20	Valentia Obsy. †	1027·4	+26	WNW	4	bc/prh	47	75	8	8	–	–	2-3	2-3	2500
	Roches Point	1024·9	+20	NW	5	bc	48	75	8	3	–	3	4-6	7-8 4-6	1500

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°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)
1023·7	+40	W'N	4	z.	46	55	6	7	–	–	Tr	Tr	2500	1	*
1023·6	+34	NW'W	4	b	45	65	6	4	4	–	Tr	1	4000	1	*
1024·3	+40	W'N	3	b	44	65	68	1	–	–	Tr	Tr	2500	1	*
1025·3	+38	W'N	3	bc	41	75	7	5	–	–	2-3	2-3	2500	1	*
1025·2	+34	W'S	4	b	45	85	8	1	4	–	Tr	Tr	1500	1	2
1023·1	+34	W'S	4	z.	45	65	6	4	–	–	2-3	2-3	2500	1	§ 2
1022·0	+34	W'N	3	z.	45	85	6	5	–	–	2-3	2-3	1500	1	*
1022·2	+36	W	3	c	45	85	6	2	–	–	7-8	7-8	2500	1	*
1020·2	+22	W	4	b	46	65	7	5	–	–	2-3	2-3	2500	1	3
1018·1	+32	W'S	5	b	45	75	6	–	–	–	0	0	–	1	3
1020·8	+46	W'N	5	b	42	85	7	5	–	–	1	1	2500	1	*
1019·5	+36	W'S	5	b	42	75	7	4	–	–	1	1	2500	1	*
1022·7	+30	WSW	3	b	42	65	7	–	–	–	0	0	–	1	*
1023·5	+40	WNW	5	b	42	75	8	8	–	–	Tr	Tr	2500	1	*
1024·0	+16	W	4	b	43	65	8	1	–	–	1	1	2500	1	*
1025·9	+34	WNW	3	bc	42	75	7	5	–	–	2-3	2-3	2500	1	*
1026·8	+36	NW	4	bc	47	85	7	4	–	–	4-6	4-6	2500	1	4
1028·2	+24	WNW	4	b	46	65	7	4	–	4	Tr	1	2500	1	2
1030·1	+24	WNW	5	bc	47	75	8	8	–	–	2-3	2-3	2500	1	3
1030·4	+18	WNW	5	bc	47	75	8	8	–	3	2-3	4-6	1500	1	3
1028·6	+28	W'N	3	b	47	75	7	1	–	–	1	1	2500	1	3
1026·5	+18	WNW	5	q	47	65	7	8	–	–	4-6	4-6	2500	1	4
1022·3	+22	W'N	6	bc	45	65	8	2	4	–	2-3	4-6	2500	1	3
1021·3	+26	W	5	bc	44	65	7	8	–	–	2-3	2-3	2500	1	*
1020·4	+30	WS	4	bc	42	85	7	8	3	–	2-3	4-6	2500	1	*
1017·0	+28	W'N	6	q	43	85	6	–	–	–	0	0	–	0	4
1016·7	+30	SW'W	2	bc	41	65	7	5	–	–	4-6	4-6	1500	1	*
1014·1	+36	W	3	bc	42	75	7	8	–	–	2-3	2-3	1500	1	2
1011·6	+20	WNW	5	bc	40	75	7	–	4	–	0	2-3	7200	0	4
1010·6	+34	W	5	b	39	65	9	4	–	–	Tr	Tr	2500	1	*
1013·3	+24	W	6	bc/pr	40	75	7	3	–	–	4-6	4-6	1500	1	*
1014·2	+28	W'S	6	bc	38	75	8	5	3	–	2-3	4-6	1500	1	*
1018·3	+30	NNW	7	bc	44	75	8	4	–	–	4-6	4-6	2500	0	4
1012·7	+18	NW'N	7	bc/phr	43	65	7	3	–	3	4-6	4-6	1500	1	5
1005·7	+20	WSW	5	phr	38	85	7	3	–	–	7-8	7-8	1500	1	3
1010·3	+20	SW	4	c	35	85	7	8	–	–	10	10	2500	4	*
1007·7	+24	W	4	b	40	65	8	4	–	–	1	1	4000	1	2
1002·3	+14	W	5	c	36	85	8	8	1	–	4-6	7-8	1500	1	3
994·8	+10	W	6	bc	40	75	8	8	–	–	4-6	4-6	1500	1	*
1022·3	+20	W'N	6	bc	44	65	8	9	–	–	4-6	4-6	800	1	4
1016·2	+36	W	5	c/pr	43	97	6	3	–	1	4-6	7-8	800	1	4
1019·3	+26	W'S	5	bc/pr	41	75	8	8	–	–	2-3	2-3	2500	1	*
1024·0	+14	W	3	bc/pr	42	75	8	5	–	–	2-3	2-3	1500	1	*
1028·2	+6	WNW	4	bc/pr	46	75	8	9	–	1	2-3	4-6	2500	1	5
1028·1	+18	WNW	3	bc	44	75	8	3	–	3	2-3	4-6	1500	1	3

PAST 24 HOURS.

Weather. 7h.—13h. 25th. (37)	Weather. 13h.—18h. 25th. (38)	Weather. 18h.25th to 1h..26th (39)	Weather. 1h.–7h. 26th. (40)
cr.r.cm.	bcbz.	bm.	bm.rcm.
cd.r.r.	cm.bcb	bz.b	bwbcc
d.d.rrc	cprb	bw.	b.c.
ir.id.bc	bcb	bbc	bccid.
cdrgc	cbcb	b	bbcc
cor.dm	rrbcm.	bcbz.	bmwc
cr.d.m.	d.rbcm.	bcrz.	bz.bwc
cmd.rR	ir.bccm.	cbcm.	bcrmc
cr.r.m.	cr.r.m.b	b	bbcc
cor.q	cr.cpr bc	bbcq	bcc
crrm.r.	cbcb	bbcb	bwcm.
d.d.r.pr.	cbcb	bbccpr.	c
crcbc	bcb	b	bc.
cd.rr	cbcb	b	bbccm.
dqrqbcq	bcq	bbcb	bbcc
r.d.rrh	bc	bcb	b.cr.
cPR	cbc	bbc	bco
cir.m.cbc	bcb	bbcmc	cRcoR
crrbc	bc	bc	bcc
ir.cbc	bc	bcpq	cp.q
or.c	or.cbc	bbcc	cpr
cbcq	bcq	bcq	cprq
cir.d.b	bc	bcc	bccrc
cr.r.pr	bc pr.	b	b.cr.
crrqpr	bc	bcbbc	bccm.
bbc	bcprb	bz.bc	prbc
rr pr.b	b,bcpr.	b	b.cpr
r.r.bcpr.	bcprh	bcprqb	PRcir.
cprbcy	bc	bcc	cprm.
cprbc	bbcq	bc	c
prpH	bcPrhq	bcphq	cpHr
cprprhp	cprphrq	cphrq	cphqlq
cRris	cis	*	cis
pr.b	bbcb	b	b
prbcq	cprsq	bcqtl	cprsq
cprbc	prphbc	cphrq	prsphrtm
PHcq	phcq	bcq	PRcq
cbc	bcphr	cbcprbcc	cPRc
cpr.bc	cpr.bc	bcb	b.cir.
cprbc	bcprbc	bc	bccpr
phrqbc	pr.prbc	bcprq	prqphq
cprbc	cprbc	bc	cprbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches, Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci; Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.

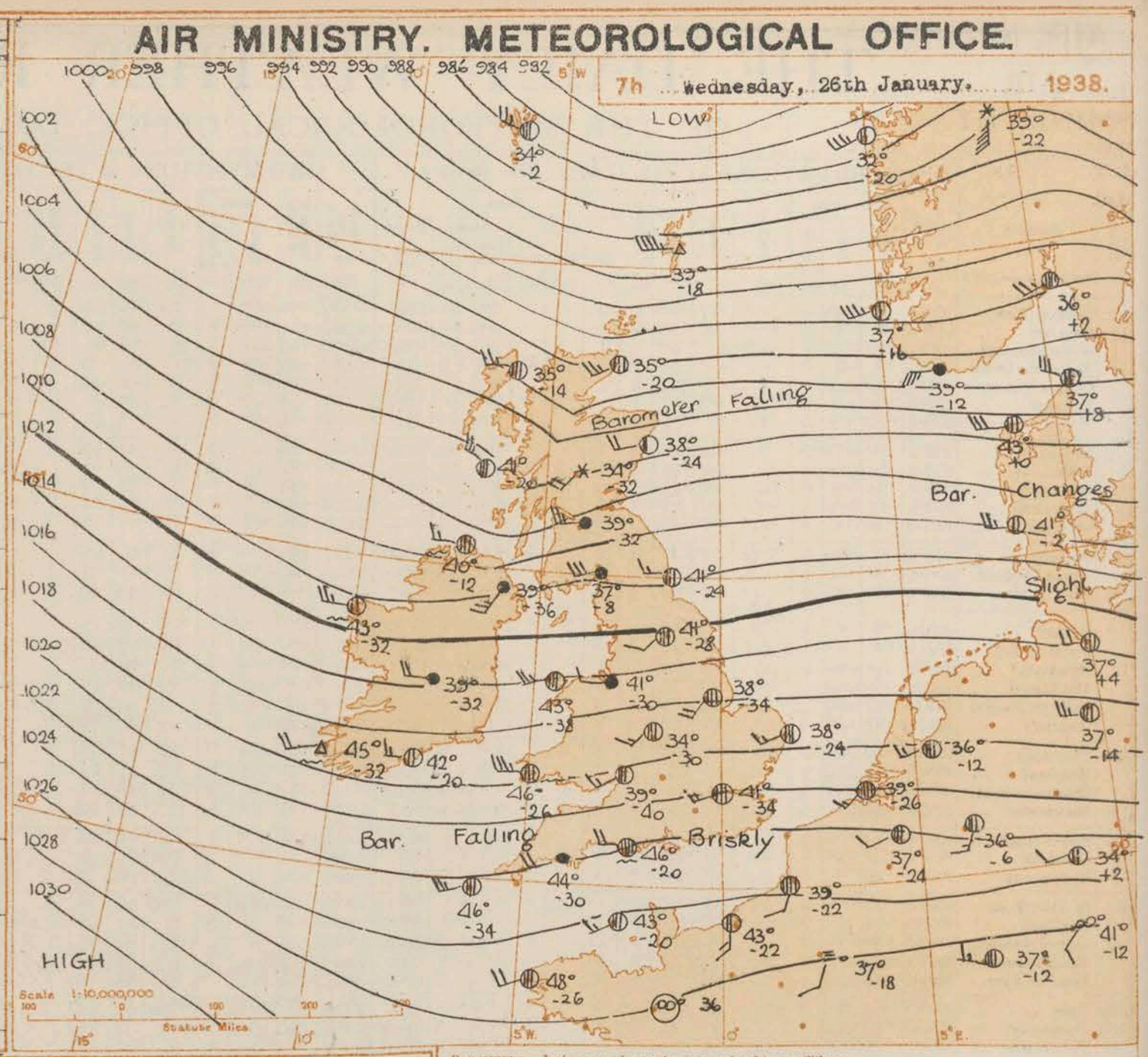
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for January 25th 1938.

Districts	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 24th to 9h. 25th	Temperature. (°F.) Max. 9h.—17h. 25th.	Rainfall. (mm.) Night. 17h. 24th to 9h. 25th	Rainfall. (mm.) Day. 9h.—17h. 25th.	Sunshine (hrs) Sunrise to Sunset. 25th.
1	Tunbridge W.	cor	odbc	43	48	–	3	1·2
	Bournemouth	orc	bcbbc	46	50	–	4	3·5
	Ventnor ...	our	o b	45	49	–	4	2·8
	Southsea ...	oro	c,b	46	50	–	4	2·8
	Bognor Regis	orrR	rcbc	46	49	Trace	3	1·4
	Littlehampton	orRc	cbc	46	49	Trace	4	1·0
	Worthing ...	cor	oRcbcb	45	48	Trace	3	1·5
	Brighton ...	drc	cbc	45	48	Trace	3	1·0
	Eastbourne† ...	d,rr	rcbcb	44	48	Trace	3	0·8
	Hastings† ...	odr	bcbcb	44	49	–	3	0·8
	Folkestone ..	odco	orbcb	43	48	–	2	0·7
	Dover ...	odr	rob	44	49	–	0·5	0·3
	Deal	oed,	d,ob	44	48	–	1	1·4
	Ramsgate ...	co	doc	44	48	–	1	1·3
	Margate ...	bcc	crbc	43	48	–	1	1·2
2	Southend ...	codr	orcb	42	47	Trace	2	1·0
	Clacton-on-Sea	oco	orcbc	42	48	–	2	1·1
	Dovercourt ...	bcc	bccpb	44	48	–	2	0·9
	Lowestoft ...	cir	crbcb	41	47	–	1	0·4
	Skegness ...	coro	obcb	41	49	–	1	1·3
	Mablethorpe...	bccor	bcpbcc	41	48	–	1	2·0
	Cleethorpes ...	cqr	cqbc	42	48	–	0·3	1·6
3	Leamington S.	oro	cbc	42	50	–	2	1·9
4	Cheltenham†	orroc	cbc	43	48	Trace	2	2·9
5	Bath	rc	bcb	46	51	–	2	3·5
	Weymouth ...	crc	b	47	52	–	3	3·5
	Jersey ...	dcr	cbc	44	50	Trace	1	1·6
	Torquay ...	odrpbc	b	48	51	–	2	3·9
	Falmouth	drobc	b	48	51	0·4	2	4·3
	Penzance ...	rbcb	b	47	52	2	0·5	5·4
	St. Ives ...	p	c	42	48	6	3	0·0
	Bude... ...	rocbc	bc	46	52	3	–	4·1
	Ilfracombe ...	corr	rocbc	46	49	3	0·5	3·2
6	Aberystwyth	prcbc	bcc	45	49	4	–	3·9
7	Llandudno ...	qrc	bcb	46	48	5	2	3·0
	Colwyn Bay...	c'pcco	bcpc	45	49	6	1	2·7
	Rhyl	cprbc	prcbc	46	50	4	1	2·8
8	Wallasey ...	rcbc	bcb	46	49	1	–	3·6
	Southport ...	cpq,bc	bbcbq	45	48	5	0·3	4·3
	Blackpool ...	orc'p	bcb'	*	46	6	1	4·1
	Morecambe ...	c'rbc	b'bc	45	47	7	1	3·5
9	Ilkley... ...	rroc	cbc	44	46	5	3	1·5
	Harrogate ...	cqrc	bbcc	43	47	0·1	2	3·6
10	Berwick-on-T.	cb	b	46	49	0·3	–	5·4
11	Dunbar ...	cr,m,	bcm,	47	49	2	Trace	5·3
12	Troon... ...	cpcbc	pbcpb	44	48	1	0·5	3·6
	Douglas ...	bcir	b	47	47	6	–	5·0

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



Districts	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 26th January, 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Fresh squally west or northwest winds; occasional rain at first, fairer later; becoming rather cold, ground frost at night.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Fresh squally west or northwest winds; bright periods and showers of rain or hail; becoming rather cold, ground 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.	Fresh squally west or northwest winds; bright periods at first and showers of rain or hail, but some more general rain or sleet later; rather cold, ground frost at night.
13 {A. W. Scotld. B.N.W.Scotland.} 14 Mid Scotland 15 N. E Scotland 16 Orkney and Shetland	Fresh squally west or northwest winds; bright periods at first and showers of rain or hail, but some more general sleet or snow later; becoming cold, ground frost at night.
17 N. W. Ireland 18 N. E. Ireland	As 8 - 12.
19 S. E. Ireland 20 S. W. Ireland	As 4 - 7.

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

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE

Pressure is low to the north and high to the southwest of the British Isles. It will become colder generally and there will be heavy showers of rain or hail in many districts with occasional snow in the North.

FURTHER OUTLOOK.

Unsettled; colder.

Time of issue of Gale Warning.

♦ South cone hoisted at 0920 G.M.T on the 22nd in districts 15 and 16.

Forecasts issued at 1000 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director

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

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

WEDNESDAY, 26TH JANUARY.

1938.

No American observations received.

HIGH

LOW

HIGH

LOW

HIGH

LOW

LOW

Gnomonic Projection. Scale 1 : 4 X 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

F.M.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 26th January, 1938.

No. 27824.

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

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	1025·9	-2	W'S	4	bc	39	75	7	-	4	-	0	1	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1025·7	-2	W	3	b	37	75	7	-	-	-	0	0	-
	Manston ...	142	1024·5	-4	WSW	2	b	39	75	6	-	3	-	0	Tr	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1021·1	-4	SW	3	bc	37	85	7	-	-	8	0	2-3	-
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1026·3	-6	W	4	bc	46	85	8	4	-	-	4-6	4-6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1028·6	-12	SW'W	4	bc	45	85	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1028·7	-22	W	4	c/pr	47	75	8	8	6	-	4-6	7-8	1500
	Guernsey ...	175	1029·4	-8	WSW	1	c	44	75	8	5	3	8	2-3	7-8	4000
6	Pembroke ...	142	1024·8	-10	W'N	5	q	46	65	8	8	-	-	4-6	4-6	2500
7	Holyhead ...	26	1021·4	-18	WSW	4	bc	44	75	8	2	-	8	2-3	4-6	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1018·7	+2	WSW	4	b	41	85	7	-	4	-	0	Tr	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1015·6	-10	W	3	bc	41	75	7	2	-	-	4-6	4-6	1500
11	St. Abbs Head ...	280	1011·5	-4	WSW	4	bc	39	75	7	-	4	1	0	4-6	-
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1018·8	-4	W'N	6	bc	42	85	7	-	2	-	0	4-6	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1003·0	-12	WSW	5	phr	39	92	7	9	-	-	9	9	1500
16	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1002·3	-14	W	4	bc	35	92	8	5	7	8	2-3	4-6	1500
16	Lerwick ...	156	999·2	-24	W	8	c	42	65	8	8	-	-	7-8	7-8	800
17	Blacksod Point	18	1017·8	-26	W'N	5	c	45	65	8	9	-	-	9	9	800
18	Malin Head ...	84	1014·5	-24	W	5	c/p	45	67	6	3	-	2	4-6	7-8	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1024·0	-10	WSW	5	PR	44	87	8	9	-	-	4-6	4-6	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)
1019·8	-26	SW	2	x	40	85	6	5	7	7	4-6	10	4000	1	*
1020·5	-34	SW'W	3	c	41	85	7	-	3	-	0	9+	-	1	*
1020·0	-34	SW'W	4	c	40	85	7	5	2	-	4-6	9+	4000	1	*
1020·8	-30	SW'W	5	id	40	85	7	5	2	-	7-8	10	2500	1	*
1021·6	-20	WSW	3	id	43	92	7	5	7	-	4-6	10	2500	1	*
1021·5	-30	SW'W	3	c	36	85	8	-	7	-	0	7-8	-	1	*
1020·0	-32	SW	3	c	37	85	8	5	7	-	2-3	10	2500	1	*
1019·8	-30	SW	3	c	40	85	6	5	7	-	7-8	10	1500	1	*
1019·5	-24	SW	3	c	38	85	7	5	-	-	10	10	2500	1	2
1017·2	-24	SW'S	3	c	38	85	7	5	-	-	10	10	2500	1	2
1017·5	-36	SW	2	x	37	92	6	5	1	-	7-8	10	2500	1	*
1015·6	-34	SW'S	4	c	38	85	7	5	-	-	9	10	2500	1	*
1017·2	-30	SW	3	c	34	85	7	-	1	-	0	9	-	1	*
1019·0	-28	WSW	4	x	37	97	6	5	-	8	4-6	7-8	4000	1	*
1018·0	-40	SW	3	c	39	85	6	-	1	6	0	7-8	-	1	*
1019·9	-30	SSW	4	c/r	40	92	7	5	7	-	4-6	10	1500	1	*
1020·4	-20	W	4	o	46	85	8	5	-	-	10	10	1500	1	4
1021·9	-30	WSW	4	ir	44	85	8	6	2	-	4-6	10	1500	1	2
1022·4	-24	WSW	5	c	46	75	8	5	2	-	2	10	2500	1	3
1022·0	-34	WSW	5	c/pr	46	75	8	8	2	-	4-6	10	1500	1	3
1024·7	-20	SW	3	c/pr	43	92	6	8	-	-	10	10	2500	1	2
1017·0	-26	W	7	q	46	75	7	8	-	-	9+	9+	2500	1	4
1014·1	-38	WSW	5	c/r	43	75	8	6	-	1	2-3	10	1500	1	3
1015·1	-30	W	2	ir	41	85	7	-	2	-	10	10	1500	1	*
1014·9	-42	SW	4	ir	40	85	6	6	2	-	7-8	10	1500	1	*
1014·1	-24	SW'W	4	o	39	85	6	5	-	-	10	10	1500	0	3
1011·1	-28	SW	2	c	41	75	8	4	7	-	4-6	7-8	2500	1	*
1009·3	-24	W	3	c	41	75	7	2	-	-	7-8	7-8	1500	1	2
1005·8	-30	WNW	6	bc	39	85	8	4	1	1	2-3	4-6	2500	0	4
1005·2	-26	SW	4	pr	39	85	8	5	2	-	4-6	10	1500	1	*
1007·3	-32	W'S	5	pr	39	85	6	-	2	-	10	10	1500	1	*
1008·8	-8	WSW	6	pr	37	85	6	6	-	-	9+	9+	1500	1	*
1010·9	-38	W'N	5	c	41	92	8	8	2	-	4-6	10	1500	0	3
1004·0	-20	NW'W	5	c/pr	41	75	7	8	-	-	7-8	7-8	1500	1	*
999·7	-14	W	5	c/rdh	35	97	7	8	-	-	7-8	7-8	1500	1	3
1004·1	-32	SW	4	is	34	92	6	6	-	-	10	10	1500	6	*
1008·5	-24	WSW	4	bc	38	85	7	5	3	-	1	2-3	2500	1	2
998·1	-20	SW	5	c	35	92	8	8	1	8	4-6	9	1500	1	3
990·1	-18	W	9	phr	39	75	6	6	2	-	9	10	450	1	*
1010·9	-32	W	5	bc	43	75	8	9	-	-	4-6	4-6	800	1	4
1006·9	-42	W	3	u	40	97	6	6	2	-	7-8	10	800	1	4
1010·3	-36	SW'S	5	ir	39	92	7	6	-	-	9	9	1500	1	*
1013·8	-32	W	4	pr	39	97	7	8	-	-	7-8	7-8	1500	1	*
1017·1	-32	WSW	4	p/hr	45	85	6	5	-	-	10	10	2500	1	4
1017·4	-20	W	3	bc	42	92	8	3	7	-	4-6	4-6	1500	1	3

PAST 24 HOURS.

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 Hrs. (36)
50	37	32	3	-	2·4
49	39	35	3	Tr	1·7
50	36	30	3	-	2·6
49	37	34	2	Tr	2·4
50	39	35	3	-	3·0
46	35	31	3	-	1·0
48	35	30	1	Tr	1·2
48	39	33	2	Tr	0·8
48	38	34	2	-	0·6
48	37	34	0·3	-	0·3
49	36	31	2	Tr	1·3
48	37	34	0·3	Tr	1·3
48	37	35	2	-	2·4
49	33	24	2	-	*
50	38	33	1	-	3·6
50	39	34	3	Tr	3·7
50	44	*	3	-	*
50	43	34	2	1	3·2
50	44	*	1	-	4·8
50	43	*	2	1	5·2
50	43	37	1	1	2·3
50	43	*	2	0·2	0·0
49	42	40	0·5	0·2	5·9
54	39	31	1	0·1	4·1
50	39	36	5	Tr	2·8
48	38	*	0·1	-	1·6
49	39	33	1	-	4·1
53	40	34	0·3	-	4·2
50	36	*	0·4	Tr	*
49	36	32	1	0·5	5·6
49	37	34	2	6	3·3
47	37	32	3	0·3	4·1
50	40	*	1	-	4·9
46	35	33	2	6	4·0
44	35	*	2	5	2·6
41	32	30	5	10	2·1
51	37	31	Tr	-	4·6
46	35	*	2	2	1·9
49	37	*	1	1	*
54	39	*	1	1	*
47	39	33	0·2	3	3·2
49	36	33	Tr	Tr	5·2
49	37	*	0·1	1	5·4
49	41	39	2	2	4·4
40	40	*	0·4	0·4	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cr rcm	bcbz	bmxcm	50	37	32	3	-	2·4	•	•	6
Croydon	217	cdrr	cmbcb	bzbubc	49	39	35	3	Tr	1·7	•	•	7
Greenwich (Royal Observatory)...	149	cdr	rcb	bcr	49	37	31	3	Tr	0·9	73	79	5
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0·7	•	•	•
Westminster (St. James' Park)‡...	27	•	•	•	51	38	33	2	-	1·6	77	83	•
Regents Pk. (Botanic Gardens)‡...	168	•	-	•	50	37	33	2	-	1·0	71	83	•
Camden Square	110	ccr	bc	•	49	37	32	3	-	•	•	84	•
Kensington	80	c	bc	•	50	38	30	2	-	1·9	64 At 18h.	83	•
Hampstead Observatory	450	cor	bc	bc	48	35	29	3	-	1·7	•	88	•

FOREIGN OBSERVATIONS.

18h G.M.T. January 25th

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1026·9	W	4	id	45
Brussels	1021·1	W	3	o	43
Berlin	1012·2	SW'S	4	b	43
Zürich	1026·0	ESE	1	z	36
Rome	1025·1	NW	4	bc	54

7h. G.M.T. January 26th

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
1025·4	SSW	2	m	37
1021·2	SW	2	c	37
1028·0	SW	1	z	37
1021·4	E	2	f	39

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
45	37	0·4	-
45	34	1	-
52		-	
43	37	-	0·3
*	*	-	-

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington.

Max.	Time.	Min.	Time.
0·6	20-22h, 25+h	0·3	2-4h 26+h

Kew Observatory.

Max.	Time.	Min.	Time.
0·2	17h 25+h	0·1	0-5h 26+h

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.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

‡ hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 27th January, 1938.

No. 27825.

DISTRICT.	STATIONS. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 26th January														OBSERVATIONS at 18h. G.M.T. 26th January														PAST 24 HOURS.			
		Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force 0–12	Weather.	°Temp. F.	% Humid.	Visibility 0–9	Cloud. Form. Low	Cloud. Form. Med.	Cloud. Form. High	Cloud. Amount. Low 0–10	Cloud. Amount. Total 0–10	Height of Base (feet)	Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force 0–12	Weather.	°Temp. F.	% Humid.	Visibility 0–9	Cloud. Form. Low.	Cloud. Form. Med.	Cloud. Form. High.	Cloud. Amount. Low 0–10	Cloud. Amount. Total 0–10	Height of Base (feet)	State of Ground. 0–9	Sea. 0–9	Weather. 7h.–18h. 26th.	Weather. 18h.–18h. 26th.	Weather. 18h.–1h. 27th.	Weather. 1h.–7h. 27th.
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(37)	(38)	(39)	(40)
1	London (Kew)	1012·1	-38	SW'N	5	bc	46	65	7	8	–	–	4-6	4-6	2500	1006·1	-26	WSW	2	z₀	40	92	6	5	–	–	10	10	1500	1	*	cm₀bc	c₀r₀r₀c	cbcbx	bcx
	Croydon ...	1013·4	-40	SW'W	5	bc	49	65	8	1	3	1	2-3	4-6	2500	1007·3	-26	WNW	2	r r	39	92	5	6	2	–	7-8	10	1500	1	*	r₀cbc	c₀r₀r₀R	rrbcm	b₀cbcwbx
	S. Farnborough	1012·8	-42	WSW	4	c	47	75	8	2	3	1	4-6	9	2500	1006·3	-34	W'N	2	c/c	39	92	6	5	–	–	9+	9+	4000	1	*	c	r₀r r r₀c	cbm₀x°	bpr₀bcx
	Boscombe Down	1012·8	-44	SW'W	4	c	46	65	8	7	7	6	7-8	9+	2500	1007·6	-14	NW'W	3	c	38	37	7	5	4	–	7-8	7-8	1500	1	*	cd₀bcc	c r r r₀m₀c	c b c b.	bbcx
	Calshot (Sthmtn.)	1014·6	-38	SSW	4	bc	49	75	7	8	7	–	4-6	4-6	2500	1007·5	-30	NW	2	ir₀	39	97	7	5	7	–	4-6	9+	1500	1	2	cd₀bc	c R R r₀m₀	c i r₀b c b.	bbx
	Lympne ...	1014·3	-42	SW'W	5	c c	46	75	9	8	4	–	9	9+	2500	1006·7	-46	W'S	2	r r	41	92	6	6	–	–	10	10	1500	1	§4	c r₀b c c	b c o r r	r r R r o f	b b c m₀x
	Manston ...	1013·8	-38	WSW	5	c	47	65	8	5	7	–	4-6	7-8	1500	1006·1	-48	SW	3	ir₀	43	85	6	5	2	–	7-8	10	2500	1	*	cir₀bc	b c c r₀	r r r s b	b b c m₀q
2	Shoeburyness ...	1013·1	-38	WSW	4	c	48	65	7	6	–	–	7-8	7-8	2500	1006·2	-40	SSW	4	c c	45	85	7	6	2	–	2-3	10	1500	1	*	c b z₀bc	b c r₀r₀c	r₀r r c.	c b c x m₀
	Felixstowe ...	1012·3	-42	WSW	5	c	45	65	7	5	3	3	4-6	7-8	2500	1006·3	-22	SW	2	r r	42	97	6	6	2	–	4-6	10	1500	1	2	cm₀c	r₀r₀c r r	c r r b c	b e b.
	Gorleston ...	1010·5	-40	SW'S	4	c c	42	85	6	6	–	–	9	9	2500	1006·1	-14	SW'S	3	r₀r₀	40	92	7	6	–	–	10	10	1500	1	2	c p₀c	c o p r₀r₀	a r₀c b z₀	b b c z₀x.
	Mildenhall ...	1010·4	-44	SW'W	5	c c	45	75	7	8	7	–	7-8	9+	2500	1005·6	-22	SW	3	c/r	40	97	6	5	7	–	7-8	9+	1500	1	*	cm₀c	c r r r₀r₀m₀	cm₀bm₀	bm₀xbcm
	Cranwell ...	1008·4	-38	SW	5	c	42	85	7	8	–	–	9+	9+	1500	1005·2	-14	WSW	3	z₀	38	92	6	8	3	–	4-6	9+	2500	1	*	p r₀b c c	c p r m₀	c b c l o m₀	b c m₀x
3	Birmingham ...	1009·7	-34	WSW	4	ir₀	41	85	6	6	2	–	7-8	10	800	1006·4	-16	WSW	3	b	37	92	6	5	–	–	1	1	2500	1	*	c b c o r₀r₀	c b	b z p r s q	b b c
	Upper Heyford	1011·6	-38	SW	4	c	44	75	7	5	7	–	7-8	9+	1500	1006·6	-22	W	2	c	37	97	7	5	2	–	1	7-8	1500		*	c m₀r₀c	c r r c	c b.	b x
4	Ross-on-Wye	1010·5	-30	SW'W	3	r₀r₀	42	85	6	6	–	–	10	10	1500	1007·1	-12	W	2	b	39	85	8	3	–	3	1	1	2500	1	*	p r b c c r₀	c b c b	c p₀b c b.	b c c p b
5	Bristol ...	1011·7	-52	WSW	3	ir₀	43	32	6	5	2	–	7-8	10	800	1008·2	-14	WSW	2	z₀	37	97	6	5	–	–	4-6	4-6	1500	1	*	r₀r₀b c c	R R r₀b c	b c p r₀m₀	b c p r.
	Portland Bill ...	1012·1	-44	WSW	6	c	47	85	7	4	2	–	4-6	10	2500	1008·0	-4	NW	4	b c/r	43	92	8	4	–	–	4-6	4-6	2500	1	4	o c	o R	c b c	b c c.
	Plymouth ...	1012·5	-62	SW'S	6	PR	47	85	7	9	–	–	10	10	1500	1010·3	-2	NW	1	z₀	43	85	6	3	4	3	2-3	2-3	1500	1	0	r₀c c p r	r r P H R	b P R b m₀	b b c p r₀
	The Lizard ...	1013·0	-50	SW'S	6	c	48	32	8	8	1	–	9	10	1500	1011·1	-2	WNW	5	bc	45	75	8	8	6	–	4-6	4-6	2500	1	3	b c p r c	b c p r q	b c p r q	b c p r q
	Scilly (St.Mary's)	1013·4	-46	NW	6	c/pr	48	32	8	8	7	–	4-6	7-8	1500	1012·3	-2	WNW	6	bc	45	75	8	8	4	3	4-6	4-6	1500	1	3	c p₀p q	c p₀b c	c b c p q	p₀q b c
	Guernsey ...	1017·8	-42	SW	4	c/pr	46	85	7	8	–	–	10	10	2500	1010·3	-20	WNW	5	c	44	85	8	8	3	–	7-8	9+	2500	1	4	c p r	c i r R	c b c	b c.
6	Pembroke ...	1011·3	-16	NW	4	q	45	32	7	7	6	–	4-6	9+	2500	1008·9	-8	NW	5	q	43	75	8	9	2	–	4-6	9	1500	1	4	c q i r m₀c	c q P R	b c q	b c q.
7	Holyhead ...	1008·0	-30	W	5	c	44	75	9	2	–	8	7-8	9	2500	1006·0	-42	WNW	5	c/pr	42	85	8	2	–	1	4-6	7-8	2500	1	3	c p r₀c	b c p r₀c	c b c c pr c	c₀b c
	Chester(Sealand)	1008·4	-30	W'N	4	c	44	75	8	8	7	6	4-6	9	2500	1005·7	-10	W'N	3	c/pr	41	75	6	8	7	–	4-6	7-8	2500	1	*	c c d₀b c	c p r₀b c z₀	b c p R	b c p R S
8	Manchester ...	1008·0	-30	W'S	3	pr	40	85	6	8	–	–	9+	9+	1500	1004·9	-10	W'S	4	z₀	38	85	6	8	3	–	2-3	4-6	1500	1	*	c r₀r b c p r	b c c p r m₀	b c m₀p r.	b c m₀p r
10	Spurn Head ...	1007·4	-32	WSW	4	c	42	85	6	5	–	–	9+	9+	2500	1004·4	-12	W'S	3	c	41	97	6	5	–	–	7-8	7-8	4000	0	2	o c	c o c	c p r₀m b c	b m₀c w b c b
	Catterick ...	1004·9	-30	W	3	c	44	85	8	8	3	9	7-8	7-8	1500	1002·9	-2	SE	1	bc	35	85	7	8	7	9	4-6	4-6	2500	1	*	c i r₀c	c b c q	b c	b c b
	Tynemouth ...	1003·4	-30	W	4	c	42	75	7	2	6	–	4-6	7-8	1500	1001·9	-4	WNW	3	bc	35	75	6	2	6	–	4-6	4-6	1500	1	2	c o l r₀c	c b c	b c.	b c.
11	St Abbs Head	999·8	-24	W	5	c	41	65	8	7	4	2	4-6	7-8	2500	999·1	-2	WNW	3	c	37	75	8	8	4	1	2-3	7-8	2500	0	3	c	c b c	b q b c	b c b
	Leuchars ...	1000·3	-22	W	4	c	40	85	7	6	9	6	4-6	7-8	1500	998·9	-6	WSW	4	bc	35	75	9	4	–	3	2-3	2-3	2500	1	*	r₀c p r₀c	c j p b c	b x	b x
12	Renfrew (Abbots I.)	1003·6	-18	WSW	5	c	40	75	8	8	2	6	4-6	10	1500	1001·9	-2	NNW	1	bc	35	92	7	3	6	–	4-6	4-6	1500	1	*	r₀c phr	p r₀s₀q	p r₀r₀b.	b x
	Eskdalemuir ...	1002·8	-26	WSW	6	p r s	37	85	7	6	1	2	4-6	10	800	1001·6	-4	W	4	c	34	92	8	5	1	2	4-6	9	1500	4	*	c p r₀	c s s c	b c p s₀b x	b x
	Point of Ayre ...	1005·9	-20	WNW	6	c	43	75	8	2	–	9	2-3	7-8	2500	1004·2	-6	NW	6	c	41	85	8	2	–	8	2-3	7-8	800	1	4	c	p r c	c	c b c
13A	Tiree	1001·1	-14	NW	5	PHR	42	65	7	3	7	–	7-8	9	1500	1000·8	0	NW	5	bc	42	65	8	3	–	3	4-6	4-6	1500	1	4	c P H q	c p h q b c	c p h q	c b c
13B	Stornoway ...	997·4	-10	SW	6	c/r s	36	32	7	6	–	–	9	9	1500	997·3	+4	W	5	c/p h r	36	85	8	3	7	–	4-6	7-8	1500	1	3	c p h r	c p h r p r s	c p h r p r s q	c p h r p h	c p r s h p h q
15	Dalwhinnie ...	1001·0	-16	SW	5	is	32	97	6	8	–	8	4-6	10	2500	'	0	SW	3	bc	31	85	6	8	6	–	4-6	4-6	2500	8	*	c i S	c i s s h	*	c i S
	Aberdeen ...	998·3	-20	W'S	3	c	41	75	7	2	3	6	Tr	7-8	2500	997·0	-4	WSW	3	bc	36	75	7	–	–	3	0	2-3	–	1	1	p r₀b c	b c b	b b x	x b c p₀s
	Wick ...	995·6	-10	W	5	c/p s	33	37	8	9	1	1	4-6	9	800	994·4	+2	WSW	3	c/p s	33	37	8	3	1	–	4-6	9	800	4	2	p r s p s	p r s p s	p c P s	b c c p s.
16	Lerwick ...	990·2	+2	N	6	c/p s	37	75	8	8	7	–	4-6	7-8	800	990·4	+2	W	4	c	36	85	8	8	7	–	4-6	7-8	1500	4	*	c p h r s q	c P H	b c c p h	b c p h.
17	Blacksod Point	1006·9	-12	W	5	c	41	85	8	9	–	–	7-8	7-8	450	1008·7	-4	W	4	bc	41	85	8	9	–	–	4-6	4-6	800	1	4	p h r c q	P H c q	p h t l q	p h r c q
18	Malin Head ...	1004·2	-10	W'N	3	PHR	42	37	6	3	–	–	9	9	800	1002·6	-10	W	3	c/p	40	37	6	9	–	–	7-8	7-8	800	1	1	c p h r c	c t h₀c P H c c	P H r c p r b c c	p r b c c
	Aldergrove ...	1006·5	-18	WSW	3	ir	38	92	7	6	–	2	9	9+	800	1005·4	-2	WSW	3	c	36	92	8	8	–	–	7-8	7-8	2500	1	*	ir b c ir	ir p r₀c	p r₀p r s.	b c p r s
19	Birr Castle ...	1010·6	-20	WSW	2	c	42	85	8	3	2	–	4-6	9+	1500	1003·2	+2	W	1	pr	38	92	8	3	7	–	4-6	7-8	1500	1	*	c p r c	c p r	c p r b c	b c
20	Valentia Obsy. †	1014·2	-14	WNW	5	c/p r	46	65	8	9	–	–	9	9	1500	1014·1	+6	NW	5	b c/p h r	43	65	8	3	–	–	2-3	2-3	2500	1	4	p h r p r c	p h r p h c	b c c p R q b c	b c p R q b c
	Roches Point	1012·7	-20	NW	3	b c/p r	44	85	8	3	–	3	2-3	7-8 (4-6)	1500	1012·0	-6	NW	4	bc	40	85	8	3	–	3	2-3	4-6	1500	1	3	ir p r b c	p h r b c	c p r.	c p r b c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain.
rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ⏀ lunar halo. ⁄ gale.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.

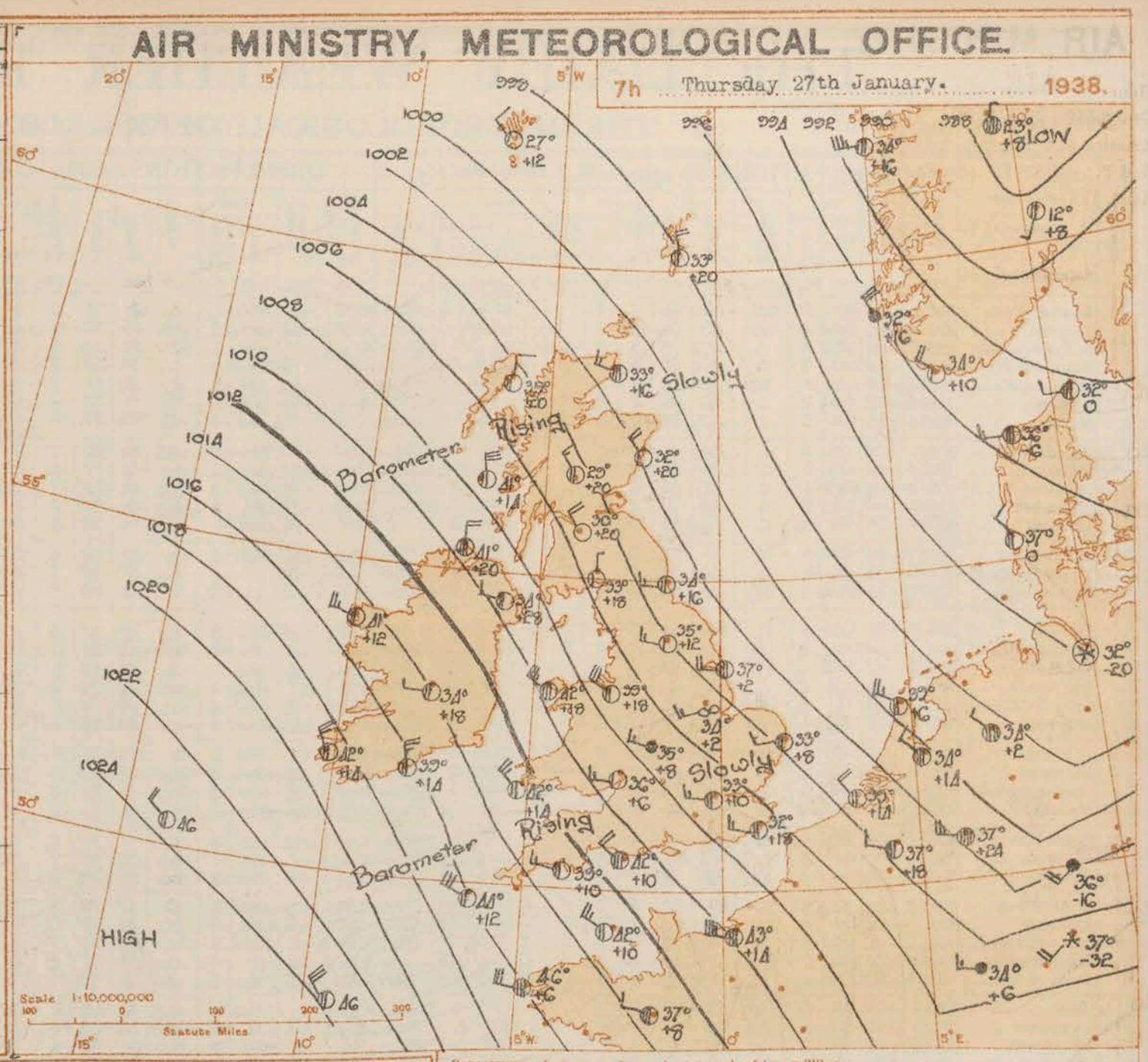
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

† Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for January 26th 1938.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature (°F.) Min 9h.25th to 9h.26th	Temperature (°F.) Max. 9h.—17h. 26th	Rainfall (mm.) Night. 17h.25th to 9h.26th	Rainfall (mm.) Day. 9h.—17h. 26th	Sunshine (hrs) Sunrise to Sunset 26th
1	Tunbridge W.	obc	bcor	32	47	—	2	3.0
	Bournemouth	cbbc	crrc	38	50	—	8	2.2
	Ventnor ...	ocbc	bcor	41	48	—	3	3.1
	Southsea ...	bcb	bcor	41	49	—	5	2.8
	Bognor Regis	cbc	bccrr	40	48	—	2	3.0
	Littlehampton	bcc	corR	37	48	0.1	5	3.5
	Worthing ...	cbcb	bcr	37	49	Trace	3	3.5
	Brighton ...	cb	bcr	40	48	Trace	4	3.1
	Eastbourne† ...	ocbc	bcorr	40	47	0.1	2	3.2
	Hastings† ...	cbc	bccor	36	48	Trace	1	3.7
	Folkestone ..	ocob	bbcor	35	48	—	Trace	3.1
	Dover ...	bc	bcc	38	48	—	—	3.4
	Deal	obc	bbc	37	47	—	—	2.5
	Ramsgate ...	cbc	bcc	38	48	—	—	2.8
	Margate ...	cbc	bc	37	48	—	—	2.5
2	Southend ...	cbbc	cor	36	48	Trace	Trace	2.2
	Clacton-on-Sea	cbcc	cor	36	46	—	Trace	1.1
	Dovercourt ...	bcc	bccroc	36	47	—	3	2.1
	Lowestoft ...	cbcb	bbccr	36	44	—	0.1	1.2
	Skegness ...	robc	coc	35	49	Trace	Trace.	0.3
	Mablethorpe...	orbc	o	36	44	0.3	0.5	0.7
	Cleethorpes ...	cbc	co	37	44	Trace	—	0.8
3	Leamington S.	c	oroc	37	45	—	3	1.0
4	Cheltenham†	cbcc	corrc	37	45	Trace	3	1.3
5	Bath	cbc	crc	38	46	0.5	5	2.1
	Weymouth ...	cb	crrc	42	50	—	8	1.5
	Jersey ...	pc	cr	41	48	0.4	1	0.2
	Torquay ...	bbcpq	Rpbcb	39	49	1	8	2.7
	Falmouth	crcr	crobc	42	48	0.3	7	2.5
	Penzance ...	bcpc	cbcp	42	49	1	4	3.6
	St. Ives ...	pr	pr	41	46	2	4	0.0
	Bude... ...							
	Ilfracombe ...	coroc	rrcbc	42	46	1	8	0.4
6	Aberystwyth	brc	bcc	42	46	2	—	1.3
7	Llandudno ...	c	cbccr	41	45	1	0.1	2.5
	Colwyn Bay...	cbc	cbcc	40	44	0.3	—	2.5
	Rhyl	cbc	bccr	38	46	0.6	0.1	3.4
8	Wallasey ...	cbc	bccph	39	45	Trace	0.3	1.7
	Southport ...	cPRc	cbc	41	45	Trace	3	1.7
	Blackpool ...	ogbc	bcc	40	44	4	Trace	2.6
	Morecambe ...	cbcb	cdbcc	38	43	3	0.3	3.3
9	Ilkley... ...	rocpc	cpc	37	41	3	3	2.8
	Harrogate ...	cbr	bccb	35	40	2	0.6	1.1
10	Berwick-on-T.	cbc	bcc	39	43	—	—	3.3
11	Dunbar ...	crcm	bcm	37	42	0.5	0.3	2.7
12	Troon... ...	norcs	bcpcp	36	44	2	3	0.1
	Douglas ...	bcbr	bc	38	43	3	—	2.6

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 27th January, 1938.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England	Moderate or fresh squally northwest winds, backing later; bright periods, occasional showers of rain or hail; rather cold with frost at night but less cold tomorrow.
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 Orkney and Shetland	Fresh squally northwest winds, strong locally, backing later; bright periods and occasional showers of sleet or snow; rather cold with frost at night but less cold tomorrow.
17 N.W. Ireland 18 N E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Fresh squally northwest winds strong locally, backing southwest later, bright periods and occasional showers of rain, sleet or hail, becoming cloudy later with occasional rain; rather cold at first with local ground frost at night becoming rather mild.

GENERAL INFERENCE.

A wedge of high pressure over the Atlantic will move east. There will be rather cold squally winds with showers which will be of a wintry type in the north. Temperatures will, however, tend to rise tomorrow.

FURTHER OUTLOOK.

Rain probably spreading from west, temperature tending to rise.

Forecasts issued at 1015 G.M.T. GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2. 9.330/3338. m.8020.b.4513.Gp.946 25/10/1/38.

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

Hours of observation:—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

THURSDAY 27th JANUARY.

1938.

Clarke's Projection Scale 1·4 X 10⁷ along meridian at 55°N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—◎

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. ✱Sleet. △Hail. ≡Fog. ≡Mist. (ϟ)Thunder. ϟ Thunderstorm. ∞Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 27th January, 1938.
No. 27325.

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1006·1	Q	WNW	3	z_o	35	92	6	-	3	1	0	2-3	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	348	1005·0	+2	W'N	3	z_o	34	92	5	-	4	-	0	Tr	-
	Manston ...	142	1003·8	0	NW	4	z_o	37	92	6	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1005·5	-1·6	WNW	3	b	35	85	6	-	-	-	0	0	-
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1003·0	+1·6	NW	4	bc	43	85	8	4	-	-	2-3	2-3	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1012·1	+2	WNW	5	q	43	75	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1013·5	+2	NW	6	bc/pr	44	75	8	8	-	-	4-6	4-6	1500
	Guernsey ..	175	1010·4	0	NNW	5	bc	43	75	8	8	-	-	4-6	4-6	2500
6	Pembroke ...	142	1009·4	+2	WNW	6	q	42	75	8	8	-	-	4-6	4-6	2500
7	Holyhead ...	26	1005·0	0	WNW	7	c	41	85	7	6	-	-	10-	10-	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1001·0	-0·6	WNW	5	z_o	37	92	5	-	-	-	0	0	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1001·6	0	W	3	bc	36	85	7	2	-	-	4-6	4-6	1500
11	St Abbs Head ..	280	1000·1	+1·4	W	5	q	36	85	8	8	4	2	2-3	4-6	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1003·7	-2	NW'W	6	c	40	85	8	5	-	-	9+	9+	2500
13a	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13b	Stornoway ...	80	999·8	+3	WNW	4	c	35	85	8	8	-	-	7-8	7-8	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	999·8	+1·0	W	3	bc	32	97	8	8	1	-	4-6	4-6	1500
16	Lerwick ...	156	999·6	+1·6	WNW	4	c/phr	32	92	7	8	7	-	4-6	7-8	800
17	Blacksod Point	18	1011·3	+1·0	W	6	q	41	75	8	9	-	-	7-8	7-8	800
18	Malin Head ...	84	1003·7	+1·2	W'N	4	c/phr	42	92	6	9	-	-	9	9	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1015·1	+0·6	NW	6	bc/phr	43	97	8*	9	-	-	2-3	2-3	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)
1007·2	+1·2	WSW	2	bc	35	85	7	5	-	1	2-3	4-6	2500	1	*
1007·4	+1·0	WNW	3	bc	33	92	7	-	4	-	0	2-3	-	1	*
1009·1	+0·8	W	2	bc	35	85	6	5	-	-	2-3	2-3	2500.	3	*
1008·9	+0·6	WNW	4	bc	35	85	7	-	2	-	0	2-3	-	1	*
1009·0	+0·6	WSW	3	bc	35	85	8	5	4	-	2-3	4-6	4000	1	2
1007·5	+1·8	WNW	3	bc	32	97	6	5	4	-	2-3	4-6	2500.	1	8-1
1005·4	+1·2	WNW	4	bc	36	85	7	5	-	-	4-6	4-6	1500.	1	*
1006·5	+1·4	W	2	bc	34	92	6	-	4	-	0	4-6	-	1	*
1005·5	+1·8	W	4	b	35	92	8	-	3	-	0	Tr	-	1	2
1004·2	+1·8	W'S	2	bc	33	85	6	5	-	-	2-3	2-3	2500	3	2
1004·9	+1·8	WSW	3	Zo	33	92	6	5	8	-	4-6	7-8	2500.	3	*
1004·6	+1·2	WSW	3	Zo	34	97	6	-	4	-	0	4-6	-	1	*
1007·4	+1·8	WNW	3	prs.	35	85	6	9	-	-	9	9	1500	1	*
1007·6	+1·0	W	3	c	33	97	7	5	4	-	7-8	7-8	2500	3	*
1008·6	+1·6	W	3	b	36	85	8	8	-	-	Tr	Tr	2500	1	*
1003·5	+1·4	W	3	bc	36	92	7	5	-	-	4-6	4-6	1500	1	*
1003·7	+1·0	NW	4	c	42	85	8	4	-	-	7-8	7-8	2500	1	4
1012·2	+1·0	W'N	3	bc/pr	39	85	8	5	-	-	2-3	2-3	2500	1	1
1013·7	+1·6	WNW	5	q	42	75	8	9	-	-	4-6	4-6	2500	1	3
1015·4	+1·2	NW'N	6	bc	44	65	8	8	-	-	4-6	4-6	1500	1	4
1011·4	+1·0	NW	5	bc	42	75	9	2	-	-	4-6	4-6	2500	1	4
1011·6	+1·4	NW	5	q	42	65	8	8	-	-	2-3	2-3	2500	1	4
1008·4	+1·8	NW'N	7	c	42	75	8	2	-	-	7-8	7-8	2500	1	3
1006·6	+1·8	NW'N	6	bc	39	75	8	8	-	-	2-3	2-3	1500	1	*
1006·4	+2·0	W'N	2	bc/pr	35	92	6	8	-	-	4-6	4-6	2500	1	*
1003·8	+1·2	W	4	c	37	92	6	5	-	-	7-8	7-8	4000	1	3
1004·0	+1·2	WNW	3	b	35	75	8	-	4	-	0	Tr	-	1	*
1003·5	+1·6	W	3	bc	34	85	7	2	-	-	2-3	2-3	1500	3	2
1002·1	+2·0	WNW	4	bc	35	85	8	2	-	-	2-3	2-3	4000	0	3
1003·3	+1·0	W	3	b	34	75	8	-	-	-	0	0	-	3	*
1005·4	+1·8	N	1	b	33	85	7	5	-	-	Tr	Tr	2500	1	*
1005·3	+2·0	NW	4	b	30	85	8	-	-	-	0	0	-	3	*
1007·0	+2·2	N	6	b	39	75	8	4	-	-	1	1	2500	1	4
1006·8	+1·4	N'W	6	bc	41	65	8	8	4	-	4-6	4-6	1500	0	-
1004·2	+2·0	N	2	bc	35	85	8	8	-	-	4-6	4-6	2500	4	1
1005·1	+2·0	NW	3	bc	29	97	7	3	6	-	2-3	4-6	2500	7	*
1002·0	+2·0	NW	4	b/ps	32	92	7	3	-	-	1	1	2500	4	1
1000·9	+1·6	WNW	3	c/ps	33	92	8	8	1	-	4-6	7-8	1500	8	2
998·0	+2·0	NNW	4	bc	33	85	8	8	-	-	4-6	4-6	1500	4	*
1015·1	+1·2	W'N	5	bc	41	75	8	9	-	-	4-6	4-6	800	1	4
1008·7	+2·0	N	4	c	41	92	7	8	4	4	4-6	9	800	1	3
1010·1	+2·8	WNW	2	bc/ps	34	92	7	9	-	-	2-3	2-3	800	1	*
1014·4	+1·8	W	1	bc	34	97	8	-	4	-	0	2-3	-	1	*
1019·5	+1·4	NW'N	5	bc/phr	42	85	7	8	-	-	4-6	4-6	2500	1	4
1016·5	+1·4	NNW	5	bc	39	85	8	3	-	-	2-3	2-3	1500	1	3

PAST 24 HOURS.

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 26th Hrs.
47	34	26	4	Tr	3·1
49	32	30	3	1	3·2
48	33	29	4	0·1	3·2.
47	33	30	3	Tr	2·6.
49	34	30	11	Tr.	3·1
47	32	29	2	13	1·8.
49	34	32	Tr	11	0·2.
49	33	28	0·3	3	3·6.
46	35	30	3	4	1·6.
45	31	29	1	Tr.	0·7.
46	32	28	3	Tr	0·8
44	33	29	0·2	-	1·5.
41	34	30	0·3	Tr	1·2
45	31	24	3	-	*
45	35	31	3	0·4	0·9
45	35	30	9	0·1	2·1.
47	41	*	5	-	*
47	39	34	9	2	0·7
48	39	*	2	2	3·0
48	41	*	0·5	0·3	3·1.
47	42	36	7	-	0·2.
46	40	*	3	-	0·0.
46	40	39	Tr	Tr	1·6.
46	36	32	Tr	3	2·4.
43	33	27	3	2	1·6.
44	36	*	-	Tr	0·2.
45	35	27	Tr	-	1·8.
43	34	30	0·4	-	1·5.
42	35	*	-	-	*
41	31	25	1	-	1·6.
41	32	25	5	2	0·0.
40	30	25	5	Tr	1·0
45	35	*	1	2	2·6.
43	36	35	3	0·1	0·1
40	34	*	1	1	1·3.
35	28	22	4	1	0·0.
41	32	25	Tr	0·2	1·9.
37	28	*	0·6	0·1	*
40	31	*	1	0·6	0·6.
46	34	*	5	2	*
44	33	33	8	2	1·1.
39	34	33	1	2	0·3.
42	34	*	1	0·5	1·6
46	39	36	4	3	2·6.
47	38	*	1	2	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
Kew	18	cm,bc	cr,rr,c	cbcbx	47	34	26	4	Tr	3·1	*	*	5.
Croydon	217	r,cbc	cr,rr,R	rrbcmc	48	32	30	3	1	3·2.	*	*	6
Greenwich (Royal Observatory)	149	cbc	crr	cbxm	48	34	29	3	Tr	3·0	66	85	4.
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	2·8	*	*	*
Westminster (St. James' Park)	27	*	*	*	49	34	30	4		2·7	69	95.	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	48	34	30	4	-	2·0	69	80.	*
Camden Square	110	c	ccr	*	47	34	29	3	-	*		86.	*
Kensington	80	bc	bcx	*	48	34	27	4	Tr	2·7	51	86.	*
Hampstead Observatory	450	bcor	bc	bcx	47	32	26	3	-	2·9	*	92.	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0·6.	20-22h 26th	<0·3	2-4h 27th.

Kew Observatory. Max.	Time.	Min.	Time.
0·3	18h 26th	<0·1	6h 27th.

FOREIGN OBSERVATIONS.

18h. G.M.T. January 26th

Stations.	Barom. mb	Wind. Direc.	Wind. Force	Weather.	Temp. °F.
Paris ...	1013·9	SSW	4	c	45
Brussels	1010·0	SW'S	4	ir$_o$	41
Berlin	1009·6	SW'S	3	r,r$_o$	39
Zurich	1020·0	WNW	1	o	39
Rome	1017·0	S	5	o	54

7h. G.M.T. January 27th

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
1008·9	W	4	c	37
1003·8	WNW	2	c	37
1000·0	S	3	c	36
1005·8	ESE	1	sf	34
1011·9	SW	4	c	54

Past 24 Hours.

Max. Day °F.	Min Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
46	37	-	7
43	36	1	4.
43	34	Tr.	0·4.
*	*	-	5.
*	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2¼	,,
6	Moderate ,,	6¼	,,
7	Good ,,	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	Moderat .	8	Precipitous
4	Rough.	9	Confused.

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

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S. Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 28th January, 1938.
No. 27826.

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)	1011·5	+8	WNW	4	₀	41	65	6	1	–	–	7-8	7-8	2500
	Croydon ...	1011·5	+16	NW'N	4		40	65	6	2	–	–	7-8	7-8	2500
	S. Farnborough	1012·0	+10	WNW	4		42	65	8	5	–	–	7-8	7-8	2500
	Boscombe Down	1013·5	+16	NW	4		46	65	7	7	–	–	7-8	7-8	2500
	Calshot (Sthmtn.)	1013·0	+14	WNW	5		43	75	5	7	–	–	4-6	4-6	2500
	Lympne ...	1010·7	+14	NNW	4		39	75	6	6	–	–	7-8	7-8	1500
	Manston ...	1009·5	+12	WNW	4		40	75	6	8	–	–	9	9	2500
2	Shoeburyness ...	1010·0	+14	W'N	4		41	75	7	8	–	–	7-8	7-8	2500
	Felixstowe ...	1008·9	+14	W	4		39	75	7	5	–	–	4-6	4-6	2500
	Gorleston ...	1007·2	+20	WNW	4		40	75	6	2	–	–	4-6	4-6	2500
	Mildenhall ...	1006·9	+14	NW	4		40	75	6	1	–	–	1	1	2500
	Cranwell ...	1009·3	+14	WNW	5		41	66	6	1	–	–	Tr	Tr	2500
3	Birmingham ...	1011·4	+12	NW	5		39	65	6	1	–	–	2-3	2-3	1500
	Upper Heyford	1011·6	+8	NW	5		40	65	8	1	–	5	2-3	2-3	2500
4	Ross-on Wye	1013·5	+12	NW	4		42	55	8	1	–	5	2-3	4-6	4000
5	Bristol ...	1014·1	+14	NW	4		42	65	8	2	–	5	2-3	4-6	2500
	Portland Bill ...	1015·9	+6	NW	4		44	75	8	2	4	–	2-3	4-6	2500
	Plymouth ...	1017·1	+18	NW'N	5		44	65	8	2	4	6	1	7-8	2500
	The Lizard ...	1018·8	+10	NW	6		45	65	8	8	6	–	4-6	4-6	1500
	Scilly (St. Mary's)	1021·0	+18	NW'N	6		46	65	8	2	8	2	2-3	7-8	2500
	Guernsey ...	1016·3	+30	NW'N	5		45	65	8	2	–	–	7-8	7-8	2500
6	Pembroke ...	1017·4	+12	NW'N	5		43	75	8	8	7	–	2-3	4-6	2500
7	Holyhead ...	1015·8	+12	WNW	6		45	75	8	8	5	7	2-3	10	2500
	Chester (Sealand)	1013·1	+20	NNW	6	PHR	42	75	8	8	7	–	7-8	9	2500
8	Manchester ...	1011·3	+12	NNW	5		41	66	8	2	–	6	4-6	7-8	4000
10	Spurn Head ...	1007·5	+14	NW	5		39	75	6	–	3	–	0	2-3	–
	Catterick ...	1009·4	+10	WNW	4		40	65	9	2	–	5	2-3	2-3	2500
	Tynemouth ...	1008·2	+18	NW	4		38	65	6	2	–	–	4-6	4-6	1500
11	St. Abbs Head	1007·0	+10	WNW	5		37	75	7	–	6	2	0	4-6	5700
	Leuchars ...	1007·8	+2	WNW	3		35	65	9	1	–	6	Tr	7-8	2500
12	Renfrew (Abbotsl.)	1010·2	+12	WNW	3		38	75	8	5	–	6	Tr	9+	4000
	Eskdalemuir ...	1009·5	+6	WNW	4		34	75	8	5	1	2	Tr	9	2500
	Point of Ayre ...	1011·9	+10	N'W	5		42	75	8	8	1	–	4-6	9	800
13A	Tiree	1010·3	–2	NW'W	3		41	75	8	5	2	8	7-8	10	1500
13B	Stornoway ...	1006·9	–2	SW	2		34	97	9	8	7	7	4-6	10	2500
15	Dalwhinnie ...	1009·0	+2	NW	3		31	97	8	4	1	–	2-3	10	4000
	Aberdeen ...	1006·4	+8	NW'W	3		37	75	7	2	1	1	Tr	2-3	2500
	Wick ...	1005·0	+4	W	4		32	92	7	8	1	–	4-6	7-8	1500
16	Lerwick ...	1000·7	–4	NNW	2		33	85	8	8	7	–	4-6	7-8	1500
17	Blacksod Point	1018·3	+2	NW	5		45	75	8	9	–	–	7-8	7-8	800
18	Malin Head ...	1012·8	–4	N	2		43	97	7	9	–	7	4-6	10	800
	Aldergrove ...	1013·6	+2	W	3		40	85	7	1	–	6	1	7-8	2500
19	Birr Castle ...	1018·3	+4	WNW	3		42	75	8	5	7	–	2-3	4-6	2500
20	Valentia Obsy. †	1022·9	0	NW	5		47	65	8	9	7	–	7-8	7-8	1500
	Roches Point	1021·6	+18	NNW	4		44	75	8	3	4	–	2-3	4-6	1500

OBSERVATIONS at 18h. G.M.T. 27th January

District	Stations. (For heights see p. 4.)	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)	1015·8	+32	WNW	3	₀	39	65	6	–	–	8	0	2-3	–	1	*
	Croydon ...	1015·4	+30	NW	3		39	75	5	5	–	–	9+	9+	4000	1	*
	S. Farnborough	1016·0	+26	W'N	3		38	65	8	5	–	–	4-6	4-6	2500	1	*
	Boscombe Down	1016·7	+26	NW'N	3		37	75	7	6	7	2	1	7-8	1500	1	*
	Calshot (Sthmtn.)	1016·8	+32	W'N	4		40	65	8	5	–	8	Tr	2-3	2500	1	2
	Lympne ...	1014·5	+28	NW'N	3		36	75	6	–	–	–	0	0	–	1	0
	Manston ...	1013·4	+20	NW'N	3		39	65	6	6	–	–	2-3	2-3	2500	1	*
2	Shoeburyness ...	1014·0	+26	NW	3		37	75	6	2	–	–	4-6	4-6	2500	1	*
	Felixstowe ...	1012·3	+20	NW'W	3		38	75	6	5	–	8	Tr	1	2500	1	2
	Gorleston ...	1011·7	+24	W	3		37	75	6	5	–	–	2-3	2-3	2500	1	2
	Mildenhall ...	1013·4	+30	W	3		34	85	6	4	–	6	1	4-6	4000	1	*
	Cranwell ...	1013·5	+30	W	3		37	75	6	6	7	–	1	9+	1500	1	*
3	Birmingham ...	1013·6	+18	WNW	3		37	75	6	–	7	–	0	4-6	–	1	*
	Upper Heyford	1015·8	+20	NW	4		36	75	7	5	7	7	2-3	9+	4000	1	*
4	Ross-on Wye	1016·8	+14	W	3		39	75	8	–	1	–	0	9+	–	1	*
5	Bristol ...	1017·3	+22	WNW	3		38	75	7	–	7	6	0	9	–	1	*
	Portland Bill ...	1017·5	+24	NW	4		43	75	8	4	4	–	4-6	7-8	2500	1	4
	Plymouth ...	1020·4	+26	NNW	2		42	75	6	3	3	2	7-8	7-8	1500	1	1
	The Lizard ...	1021·0	+20	NW'W	5		43	65	8	8	7	–	4-6	4-6	1500	1	3
	Scilly (St. Mary's)	1022·6	+8	NW'W	4		44	75	8	4	3	1	2-3	4-6	2500	1	3
	Guernsey ...	1019·1	+22	NW'W	5		44	55	8	8	3	–	4-6	7-8	2500	1	4
6	Pembroke ...	1018·5	+12	NW	6		44	65	8	8	7	–	4-6	7-8	2500	1	4
7	Holyhead ...	1015·1	+6	W	5		43	65	8	1	–	7	2-3	9	2500	1	3
	Chester (Sealand)	1015·2	+12	W'N	4		41	75	7	8	2	–	4-6	10	2500	1	*
8	Manchester ...	1014·5	+20	W	3		37	32	5	5	7	–	2-3	10	1500	1	*
10	Spurn Head ...	1011·6	+20	NW'W	5		38	75	6	–	2	–	0	10	–	0	4
	Catterick ...	1012·1	+16	W'S	4		37	65	7	–	7	–	0	7-8	–	1	*
	Tynemouth ...	1010·7	+16	NW	2		36	65	6	5	1	–	4-6	9	1500	1	1
11	St. Abbs Head	1018·2	–10	WNW	5		37	75	7	–	3	–	0	10	7200	0	3
	Leuchars ...	1007·8	–6	NSW	3		35	75	7	–	2	–	0	10	–	1	*
12	Renfrew (Abbotsl.)	1010·3	–6	NSW	3		37	85	7	5	2	–	2-3	10	2500	1	*
	Eskdalemuir ...	1010·6	0	NSW	4		34	85	7	5	2	–	1	10	1500	4	*
	Point of Ayre ...	1013·0	+4	WNW	4		41	65	7	8	1	–	4-6	10	800	1	3
13A	Tiree	1006·5	–10	W'S	5		42	92	7	5	2	–	7-8	10	1500	1	3
13B	Stornoway ...	1001·9	–14	S	5		38	92	7	–	2	–	10	10	5700	1	3
15	Dalwhinnie ...	1007·5	–20	S	3		33	85	7	5	–	–	10	10	2500	7	*
	Aberdeen ...	1005·7	–14	WSW	3		35	65	6	–	2	–	0	9+	–	4	1
	Wick ...	1002·9	–16	N	4		33	97	8	8	2	–	4-6	10	1500	8	2
16	Lerwick ...	998·8	–16	NSW	3		35	85	8	8	7	–	4-6	7-8	800	8	*
17	Blacksod Point	1014·5	–24	NW	6		47	85	7	6	–	–	10	10	450	1	4
18	Malin Head ...	1009·4	–20	SW	4		43	97	6	8	2	–	4-6	10	800	1	4
	Aldergrove ...	1013·0	–6	SW	3		38	85	8	5	–	8	2-3	9+	4000	1	*
19	Birr Castle ...	1017·4	–2	S	1		40	85	8	5	2	–	2-3	10	2500	1	*
20	Valentia Obsy. †	1021·9	–10	W	3		48	85	8	5	–	–	9+	9+	1500	1	3
	Roches Point	1021·4	–2	NW	3		45	75	8	5	7	–	4-6	7-8	1500	1	3

PAST 24 HOURS.

Weather. 7h.—13h. 27th (37)	13h.—18h. 27th (38)	18h. 27th to 1h. 28th (39)	1h.—7h. 28th (40)
bxbcz	bcz,bz	bm	cr,r,m
bcb,cz	cz	cbcwxc	crr,r
bcxb,c	cbcbbc	bm	bccirir,c
bcxbcc	clr	cir,cb	bcir
bcbbc	bccbc	bbc	ccrr
bcxm,z	bcbm	bbcm,x	cm,cir
bcxm,pr	cbcz	bcz,b,c	cm,r,r
bcxm,c	cbcm	bcm,bx	rrm,c
bbccbc	bcm,bm	bm	bccr,r
bczps,q	bcqz	bcbz,x	coir,q
bcm,bz	cz,bm	bcm,cm	crrr,r
bcz,xb	bz,bcy,c	cz,bm,cm	cm,rrr
prsbc	bcprs	bcb,c	cr,r
cbs,pcbc	bcc	cbcc	cr,r
sbc	cp,bcp,bcc	cbcc	cp,c
bc	bcc	cb,cr	cr,r
cbc	bcc	bcc	oRpr
cpc,cq	bcycpr	pr,bcc	orrd,d
bcphq	qbc	bccrr	orrpr
bccb	cbc	cr,r	r,d,id
bcph	cbcc	bccpr	pr,rr
bcq	bccq	cqrrc	cqc
bcbcc	cbcc	crrrc	rrirc
bcpr,ph	cphbcc	cbcr	crrr,r
bczc	prhcm	bccrr	crrRR
cbc	bccp	coz	orrq
pxbc	bcc	cbcc	cor,r,c
bc	bcc	cbco	oir
bc	c	rrc	cq
bxbc	bccp	cir,m	cq,bc
bxbcc	c	cr,r,m	cm,r,rd
bxbcc	c	corr	crrr
prc	phc	rr	rrdde
bcc	crqrr	crr	orrdr
cphps	cpsbr	r,r,rrc	rrr,r
cis	ciso	*	csrsir
bxb	bccz	cir	cir
bcpps	bc,c	cr,r	id,c
bccps	pspsh	corr	crr
PHcq	iRq	Rrq	Rrq
c	c	crrddo	Drddo
bpspr,c	c,pr,c	cr,r,rr	cirid
bc	bcc	corr	crrir
phrqbcc	cphr,c	cr,r,c	crrc
cpr,bc	cpr,c	crrc	cir

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 18, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep

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

A Sea disturbance reported from Dungeness.

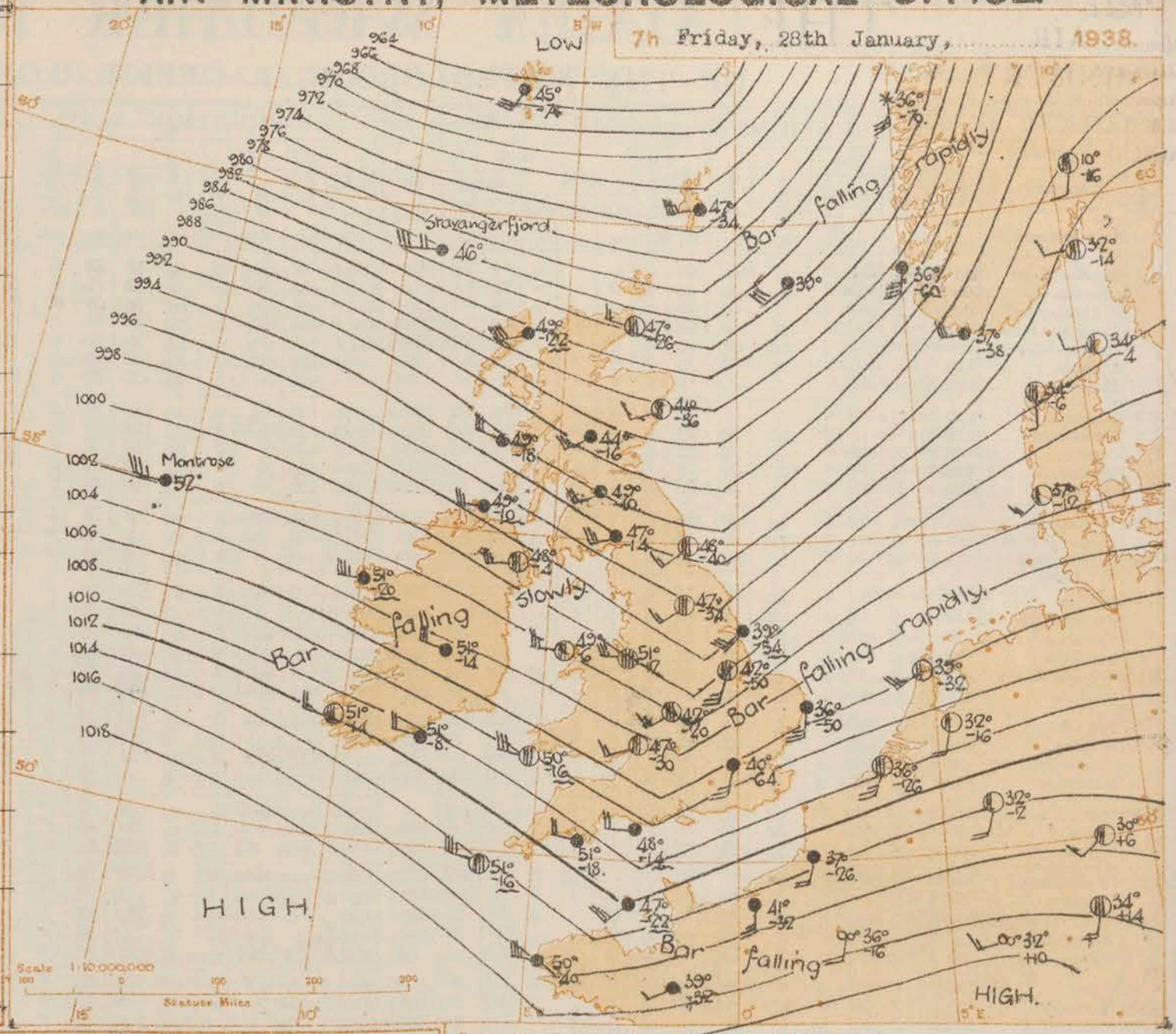
REPORTS from HEALTH RESORTS for 27th January 1938.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature (°F.) Min. 9h. 26th to 9h. 27th	Temperature (°F.) Max. 9h.—17h. 27th.	Rainfall (mm.) Night. 17h. 26th to 9h. 27th	Rainfall (mm.) Day. 9h.—17h. 27th.	Sunshine (hrs.) Sunrise to Sunset. 27th.
1	Tunbridge W.	bbcc	cbc	30	40	3	–	4.8
	Bournemouth	b	b	34	44	0.3	–	6.8
	Ventnor ...	rxb	b	36	44	5	–	6.4
	Southsea ...	b	b	35	44	6	–	6.1
	Bognor Regis	bcb	bbc	35	43	10	–	6.1
	Littlehampton	bc	bc	33	45	8	–	6.0
	Worthing ...	b	b	32	43	8	–	6.2
	Brighton ...	bcb	bc	35	43	8	–	5.6
	Eastbourne† ...	bbc	bcc	35	43	5	–	5.4
	Hastings† ...	bc	bcb	32	43	12	–	6.6
	Folkestone ...	bmbc	cbcb	33	41	16	–	4.7
	Dover ...	bccbc	bcb	35	41	15	–	4.3
	Deal	bobco	bc	34	42	13	–	5.6
	Ramsgate ...	c	bcc	35	42	13	–	4.6
	Margate ...	crsbc	bc	35	41	12	Trace	2.6
2	Southend ...	cbc	bcb	33	42	3	–	3.8
	Clacton-on-Sea	bcc	cbc	32	40	5	–	3.7
	Dovercourt ...	rbc	bc	34	40	7	–	4.0
	Lowestoft ...	csbc	bhcb	31	40	2	0.1	3.8
	Skegness ...	bcb	b	30	41	–	–	5.6
	Mablethorpe...	bcb	bbc	31	40	–	–	6.2
	Cleethorpes ...	bc	bcc	32	41	–	–	5.7
3	Leamington S.	bc	bc	32	42	0.2	0.1	3.2
4	Cheltenham†	cbc	bcbc	33	42	–	–	4.4
5	Bath	bbcc	bbcc	35	45	0.3	–	4.9
	Weymouth ...	b	bbcb	38	46	–	–	7.1
	Jersey ...	rccbc	bcp	41	47	3	Trace	4.9
	Torquay ...	b	b	38	45	0.1	–	7.9
	Falmouth	chcbc	b	38	47	4	Trace	5.3
	Penzance ...	pbcpb	bcpbc	41	48	0.5	0.5	5.5
	St. Ives ...	pr	pr	*	48	5	Trace	0.0
	Bude... ...	pbcq	bcq	38	46	2	–	4.6
	Ilfracombe ...	opcbc	bc	41	44	0.5	–	5.2
6	Aberystwyth	phcbc	bcc	39	44	2	–	3.9
7	Llandudno ...	tcrsh	c	37	43	4	0.1	0.5
	Colwyn Bay...	bcphc	bcc	36	42	5	2	0.3
	Rhyl	cphc	cbc	37	43	3	0.4	0.7
8	Wallasey ...	bcrscp	bcc	36	42	2	0.3	3.0
	Southport ...	bcq	phco	35	43	2	1	3.5
	Blackpool ...	bcb	bcco	37	42	–	–	3.5
	Morecambe ...	b	bcc	36	41	1	–	4.3
9	Ilkley... ...	bcb	bcc	34	41	0.5	–	5.5
	Harrogate ...	b	b	34	39	–	–	5.4
10	Berwick-on-T.	bcb	b	32	39	–	–	4.2
11	Dunbar ...	bcxm	cm	30	39	–	–	3.1
12	Troon... ...	xbc	ocror	34	42	6	0.5	2.0
	Douglas ...	bcphr	bcps	34	40	3	3	1.1

* Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.-9h.

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Friday, 28th January, 1938.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 28th January, 1938.
1 S.E. England	Moderate southwest winds, veering and freshening; occasional rain; rather mild.
2 E. England ...	Moderate to strong westerly winds, gale at times locally; occasional rain; 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 ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Westerly winds, whole gale locally at times; occasional rain; rather mild.
13 A. W. Scotld. / B.N.W.Scotland.	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkney and Shetland	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

Barometer. Isobars are drawn for intervals of two millibars.
Wind, Weather Symbols. For explanation see opposite page.
Sea Disturbance. Rough. High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A trough of low pressure, associated with a very intense depression over Iceland, is moving eastwards across the North Sea and Eastern England. Weather will be rather mild generally with rain at times in most places.

FURTHER OUTLOOK.

Unsettled generally; continuing rather mild in the South, probably becoming temporarily colder in Scotland.

Times of issue of Gale Warnings.

South Cone hoisted at 1830 27-1-38 in districts 12,13A, 13B, 15, 16, 17, 18 and 20.

South Cone hoisted at 0415 28-1-38 in districts 6,7,8,19 and part of 5.

" " " at 0820 28-1-38 in districts 1,2, 10, 11 and remainder of district 5.

Forecasts issued at 1000 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

As 2 - 11.

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

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

Hours of observation:—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

FRIDAY, 28th JANUARY.

1938.

Clarke's Projection. Scale 1·4 x 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol.

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS:— Clear sky. Sky less than 2/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 28th January, 1938.

No. 27826.

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)	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	1016·1	-8	WSW	4	C	37	85	7	-	-	7	0	10	-
	S. Farnborough	228	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	348	1016·2	-6	W	3	Z_o	33	85	6	-	1	-	0	7-8	-
	Manston ...	142	1014·9	-6	W	2	Z_o	33	85	5	-	7	-	0	9	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1012·5	-6	SW	3	C	31	85	6	-	1	-	0	10	-
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1016·5	-12	WNW	4	C	44	92	8	4	-	-	10	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1018·6	-24	WSW	45	rr	45	92	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1019·2	-28	W'N	6	r.r.	47	97	6	5	2	-	7-8	10	1500
	Guernsey ..	175	1019·9	-8	W'N	4	pr.	45	65	8	8	-	-	10	10	2500
6	Pembroke ...	142	1013·5	-30	W	6	rr	47	97	7	5	-	-	10	10	1500
7	Holyhead ...	26	1006·6	-66	SW	5	rr	44	97	6	6	2	-	4-6	10	450
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1008·3	-20	SW'W	4	0	37	92	5	5	-	-	10	10	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1004·0	-44	SW	3	0	39	75	7	5	-	-	10	10	800
11	St. Abbs Head ...	220	997·6	-60	SW	5	RR	37	97	8	5	2	-	7-8	10	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots L.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1003·6	-60	W'S	5	rr	43	97	7	8	1	-	4-6	10	800
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	990·2	-44	SW	5	rr	47	97	7	5	2	-	7-8	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ..	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	989·2	-46	SW	5	r.r.	38	97	7	5	2	-	9	10	800
16	Lerwick ...	156	985·9	-76	SSW	8	rr	38	92	7	6	-	-	10	10	800
17	Blacksod Point	18	1007·0	-14	W	7	ir	50	92	6	6	-	-	10	10	220
18	Malin Head ...	84	999·2	-46	SW'W	5	D.D	50	97	5	3	-	-	10	10	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1013·3	-10	SW'W	7	q	51	97	6	9	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 28th 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)	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)
1005·7	-42	SSW	4	r.r.	41	92	6	6	2	-	7-8	10	1500	1	*
1006·3	-64	SSW	5	r.r.	40	97	7	6	2	-	7-8	10	800	1	*
1005·9	+52	SW'S	6	r.r.	43	92	6	5	-	-	10	10	2500	1	*
1006·4	-50	SW'W	4	ir.	45	97	6	6	2	-	10	10	800	1	*
1008·2	-50	SSW	5	r.r.	46	97	7	6	2	-	7-8	10	800	1	3
1008·3	-46	SW'S	5	rr	40	85	7	6	2	-	7-8	10	1500	1	3
1007·9	-44	SW'S	4	r.r.	39	85	7	-	2	-	10	10	4000	1	*
1007·1	-38	SSW	4	rr	40	92	6	6	2	-	4-6	10	800	1	*
1006·5	-40	SSW	5	r.r.	39	97	6	6	2	-	7-8	10	1500	1	3
1004·3	-50	SW	5	ir.	36	92	6	6	-	-	10	10	1500	1	3
1002·2	-60	SSW	5	r.r.	38	97	6	6	2	-	7-8	10	800	1	*
1000·8	-50	SSW	5	C	42	92	7	5	2	-	9	10	1500	1	*
1002·5	-20	SW	3	c/r	42	97	6	6	-	-	9+	9+	800	1	*
1004·5	-30	SW	5	r.r.	41	97	6	6	2	-	9	10	800	1	*
1004·3	-30	WSW	3	C	47	85	7	5	-	-	9+	9+	2500	1	*
1005·8	-42	W'S	5	C	47	97	7	6	-	-	9+	9+	800	1	*
1006·8	-14	W	4	pr.	48	85	7	5	-	-	10	10	1500	1	4
1010·2	-18	W'N	4	d.d.	51	92	6	-	2	-	10	10	800	1	3
1012·0	-4	WNW	6	c/pr	50	92	7	5	-	-	10	10	1500	1	3
1012·3	-16	WNW	7	c/d	31	97	6	5	-	-	10	10	1500	1	4
1012·3	-44	SW	5	rr	47	97	6	5	-	-	10	10	1500	1	4
1005·2	-16	W'N	6	q	50	97	7	5	2	-	7-8	10	2500	1	4
1001·5	-6	W	5	C	49	97	8	6	2	-	4-6	10	1500	1	3
1000·6	-12	W	6	c/r	51	85	7	5	-	-	10	10	1500	1	*
999·5	-26	W'S	5	r.r.	48	97	6	-	2	-	10	10	800	1	*
997·6	-54	SW'S	6	rr	39	97	7	5	-	-	10	10	800	1	4
998·3	-34	SW	3	C	47	85	7	5	7	-	4-6	7-8	2500	1	*
998·5	-40	SW	3	c/r	48	85	7	6	-	-	10	10	800	1	2
988·3	-38	WNW	5	C	50	85	8	8	3	-	4-6	9	2500	1	3
988·6	-12	SW	3	bc	46	85	8	5	-	-	4-6	4-6	2500	1	*
993·5	-10	WSW	4	d.d.	49	92	5	5	-	-	10	10	1500	1	*
993·0	-14	W'S	5	r.r.	47	85	7	-	2	-	10	10	800	1	*
998·4	-8	WNW	5	d.d.	49	92	8	6	2	-	4-6	10	800	1	4
998·9	-18	WNW	6	dr	49	92	6	-	2	-	10	10	1500	1	*
984·2	-22	WSW	8	r.r.	49	97	6	5	2	-	7-8	10	1500	1	4
985·7	-16	SW	5	ir	44	92	6	5	-	-	10	10	1500	4	*
985·4	-36	SW'W	2	C	41	92	6	5	7	-	2-3	9+	2500	1	1
981·2	-26	WNW	3	c/d	47	92	8	5	1	-	4-6	7-8	1500	1	3
973·9	-34	WSW	7	rr	47	97	7	6	-	-	10	10	800	1	*
1003·8	-20	W	7	dd	51	92	6	6	-	-	10	10	220	1	5
996·0	-10	W	5	dd	49	97	5	3	-	-	10	10	800	1	4
999·4	-4	W'S	5	c/d	48	92	7	5	-	-	10	10	1500	1	*
1005·5	-14	WNW	5	ir	51	92	7	5	-	-	10	10	1500	1	*
1012·5	-14	W'N	4	C	51	97	6	5	-	-	10	10	450	1	3
1010·3	-8	WNW	4	ir.	51	97	8	6	-	-	9	9	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 27th Hrs (36)
1	London (Kew)	43	34	29	-	1	5·2
	Croydon ...	42	34	29	-	1	3·7
	S. Farnborough	43	32	25	-	1	5·1
	Boscombe Down	42	34	32	-	1	6·0
	Calshot (Sthmtn.)	44	35	32	-	3	6·9
	Lympne ...	39	32	26	Tr	0·5	4·6
	Manston ...	41	34	31	Tr	0·2	3·7
2	Shoeburyness ...	42	34	28	-	1	3·6
	Felixstowe ...	41	36	31	-	1·5	4·7
	Gorleston ...	40	38	29	Tr	0·2	3·2
	Mildenhall ...	41	31	27	-	6	4·4
	Cranwell ...	41	33	29	-	4	5·9
3	Birmingham ...	40	35	32	0·3	1	4·3
	Upper Heyford	41	30	24	0·1	1	*
4	Ross-on-Wye	42	36	31	0·1	0·1	5·8
5	Bristol ...	43	35	30	-	1	6·3
	Portland Bill ...	45	42	*	-	2	*
	Plymouth ...	44	41	36	Tr	5	6·3
	The Lizard ...	45	43	*	0·1	5	6·0
	Scilly (St. Mary's)	46	44	*	Tr	4	4·6
	Guernsey ..	45	43	36	Tr	7	5·6
6	Pembroke ...	45	44	*	-	7	4·9
7	Holyhead ...	44	42	40	Tr	8	3·8
	Chester (Sealand)	42	40	36	0·1	2	3·8
8	Manchester ...	42	34	28	0·3	8	4·2
10	Spurn Head ...	40	35	*	-	2	5·7
	Catterick ...	40	34	29	-	0·6	5·5
	Tynemouth ...	40	36	31	-	1	5·3
11	St. Abbs Head ...	(39)	33	*	-	1	*
	Leuchars ...	39	34	32	-	Tr	3·9
12	Renfrew (Abbots L.)	38	36	34	-	4	1·9
	Eskdalemuir ...	35	33	32	-	9	3·7
	Point of Ayre ...	42	41	*	3	7	1·4
13A	Tiree	43	41	40	1	6	0·0
13B	Stornoway ...	38	38	*	2	7	0·2
15	Dalwhinnie ...	34	32	32	0·1	4	0·2
	Aberdeen ..	37	35	32	-	1	3·8
	Wick ...	34	33	*	5	2	*
16	Lerwick ...	36	35	*	3	7	2·3
17	Blacksod Point	47	44	*	2	9	*
18	Malin Head ...	47	46	*	1	8	0·0
	Aldergrove ...	40	37	35	0·2	2	0·9
19	Birr Castle ...	44	40	*	-	6	3·3
20	Valentia Obsy. †	48	47	45	2	5	2·9
	Roches Point	46	44	*	0·5	3	*

LONDON OBSERVATIONS

Day 7h—18h. Kew & Croydon.
9h—18h. Kensington.
9h—21h. other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet.	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day mm.	Rainfall. Night mm.	Sunshine to Sunset hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
								Yesterday.		To-day.			
Kew	18	bxbcz.	bcz.bz.	bmcr.m.	43	34	29	-	1	5·2	*	*	6
Croydon	317	bcb.cz.	cz.	bcwrcr.	42	34	29	-	1	3·7	*	*	6
Greenwich (Royal Observatory) ...	149	bc	bcc	cbxcrr	41	35	30	-	2	1·7	60	92	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	3·4	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	45	36	30	2		3·3	79	98	*
Regents Pk. (Botanic Gardens) ...	165	*	*	*	45	35	32	-	3	3·3	73	92	*
Camden Square	110	bbc	bc	*	45	36	29	-	3	*	*	93	*
Kensington	80	bc	bc	*	45	36	26	-	2	3·6	At 18h.		*
Hampstead Observatory	450	bc	bc	bcror	40	33	28	-	3	4·5	66	99	*

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.
Paris	1015·1	WNW	2	b	37	1006·9	SSW	2	Z_o	36
Brussels	1011·0	WNW	3	phr	36					
Berlin	999·3	WNW	4	rs	36	1008·1	W	3	C	36
Zurich	1013·0	S	1	0	36	1019·4	WNW	2	Sf	30
Rome	1003·4	?	5	0	52	1009·5	NNE	3	C	48

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

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

Kew Observatory. Max.	Time.	Min.	Time.
0·3	15h 27th	0·1	6h 28th

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
45	32	1	-
43		0·5	
37	34	3	0·3
39	30	5	2
*	*	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 ,,	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.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

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

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h.

§ Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 29th January, 1938.
No. 27327.

District	Stations. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 28th. January														OBSERVATIONS at 18h. G.M.T. 28th. January														PAST 24 HOURS.			
		Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. 0–12 Force	Weather.	°Temp. F.	% Humid.	0–9 Visibility	Cloud. Form. Low	Cloud. Form. Med.	Cloud. Form. High	Cloud. Amount. Low 0–10	Cloud. Amount. Total 0–10	Cloud. Height of Base (feet)	Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. 0–12 Force	Weather.	°Temp. F.	% Humid.	0–9 Visibility	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	Weather. 7h.–18h. 28th.	Weather. 18h.–18h. 28th.	Weather. 18h. 28th.–1h. 29th.	Weather. 1h.–7h. 29th.
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(37)	(38)	(32)	(40)
1	London (Kew)	1001·6	−18	SW	3	2_c	51	85	6	5	-	-	10	10	1500	998·1	−22	SW'W	4	c	52	85	7	5	-	-	10	10	1500	1	*	cr$_s$cm$_o$	cm$_o$c	c	cRqRbc
	Croydon ...	1002·6	−18	W'S	5	2_c	51	85	6	5	7	-	7-8	10	1500	999·8	−14	W'S	5	c	52	85	7	5	-	-	10	10	1500	1	*	c$_s$r$_m$	cm$_o$	cir$_l$pr$_o$	cpr$_l$PR
	S. Farnborough	1002·4	−22	WSW	4	c	50	85	7	6	2	-	7-8	10	800	999·4	−10	WSW	6	c$_c$	51	92	7	6	2	-	7-8	10	800	1	*	cir$_l$id$_o$c	ccm$_o$	cm$_o$rccd$_s$	cprrrbbc
	Boscombe Down	1004·0	−18	W	6	c	50	92	7	6	2	-	9+	10	800	1000·4	−26	W'S	6	q/d	51	92	6	6	2	-	9+	10	800	1	*	c	cd$_o$d$_o$c	cr$_o$	crr$_l$c,b
	Calshot (Sthmtn.)	1005·5	−16	WSW	4	c	53	85	8	5	-	-	10	10	1500	1002·5	−26	SW'W	5	id$_o$	51	87	7	6	-	-	10	10	800	1	2	cirdc	c$_c$id$_o$	cd$_r$r$_o$c	cq$_p$rb
	Lympne ...	1002·5	−26	WSW	4	c	48	32	7	5	2	-	9	10	800	999·5	−20	SW	5	c	48	32	7	5	-	-	10	10	1500	1	§4	cirfdc	c	com$_o$c	
	Manston ...	1001·3	−30	SW	5	c	49	85	7	5	1	-	4-6	10	800	998·0	−16	WSW	5	c	52	85	7	5	-	-	10 9+	10	1500	1	*	cr$_o$r$_o$c	c	cm$_o$bc	PHRq
2	Shoeburyness ...	1001·1	−20	SW'W	4	c	50	85	6	6	2	-	9+	10	800	999·9	−18	WSW	4	c	51	85	6	5	2	-	9+	10	1500	1	*	ir$_l$rcc	m$_o$c	m$_o$c	qtlRqp
	Felixstowe ...	999·6	−30	WSW	3	2_c	49	85	6	5	7	-	4-6	10	1500	998·2	−20	SW	4	2_c	51	85	6	5	2	-	7-8	10	1500	1	3	c$_s$c$_m$	cm$_o$	cm$_o$	pr$_o$PRq
	Gorleston ...	997·3	−34	SW	4	o	45	92	6	6	-	-	10	10	1500	998·8	−24	SW'W	5/4	o	52	85	6	6	-	-	10	10	2500	1	3	ir$_s$r$_o$	oq	bcql	prbcq
	Mildenhall ...	998·5	−18	WSW	4	c	51	85	8	5	2	-	9	10	1500	999·5	−18	SW'W	5	c	52	85	8	5	2	-	9	10	1500	1	*	c$_s$m$_o$c	cir$_o$	cir$_s$bc	bc+ir bc
	Cranwell ...	997·0	−20	SW'W	4	c/d	48	92	6	5	2	-	9	10	800	998·7	−18	WSW	5	c/r	52	85	6	6	-	-	9+	10	800	1	*	cr$_m$d$_o$d$_o$	p$_s$r$_s$r$_o$d$_o$	b$_s$chqr	rrTLRkqr
3	Birmingham ...	1000·1	−18	W	4	c	51	85	8	5	-	-	10	10	1500	996·5	−20	W	4	c	53	75	8	5	-	-	10	10	1500	1	*	c	c$_s$	cpr	prqbc
	Upper Heyford	1000·6	−30	W	4	c	51	85	8	5	2	-	4-6	10	1500	997·3	−24	SW'W	4	o/d	50	92	6	5	-	-	10	10	800	1	*	c$_s$m$_o$c	cid$_o$m$_o$	cm$_o$bcc	eRbcc
*	Ross-on-Wye	1002·4	−12	W'S	2	c	53	75	8	5	-	8	9+	10	2500	998·8	−24	W'S	4	id$_o$	53	85	8	5	-	-	10	10	1500	1	*	cqc	ccd$_o$	d$_o$ccq	rqbcq
5	Bristol ...	1004·2	−14	W	5	d$_o$d$_o$	49	97	6	5	-	-	10	10	220	1000·7	−22	W	7	id$_o$	49	97	6	5	-	-	10	10	220	1	*	cod$_o$d$_o$	r$_s$qdd	od$_s$cr$_o$	cir$_s$qbc
	Portland Bill ...	1005·3	−8	W	4	c	52	85	7	5	2	-	7-8	10	1500	1002·5	−20	W	4	c	51	92	7	4	-	-	10	10	2500	1	4	oprc	c	cPR	
	Plymouth ...	1008·2	−24	WNW	5	id$_o$	51	97	6	6	2	-	9+	10	450	1006·6	−12	W	5	ir$_o$	52	92	6	6	2	-	9+	10	800	1	2	od$_o$Dmid$_o$	r$_s$d$_s$ir$_s$	c$_s$r$_s$d$_o$	cRqPR
	The Lizard ...	1010·3	−16	W'N	7	pr$_o$	50	97	6	5	-	-	10	10	1500	1008·0	−6	W'S	7	r$_s$r$_o$	50	97	5	5	-	-	10	10	800	1	4	cpr$_s$q	oi$_s$r$_m$	oir$_m$q	qprbc
	Scilly (St.Mary's)	1011·0	−16	W	7	id$_o$	51	92	6	5	-	-	10	10	800	1008·2	−12	W'S	7	d$_o$d$_o$	51	97	5	5	-	-	10	10	800	1	4	ch$_o$od$_o$	od$_o$d$_o$	oid$_o$	dd$_o$cpq
	Guernsey ...	1010·3	−8	W	5	o	51	92	6	5	-	-	10	10	1500	1007·9	−10	W'S	5	o/c	51	97	6	5	-	-	10	10	1500	1	4	ornir	oirq	oirq	cphrq
6	Pembroke ...	1004·1	−16	W'N	8	q	50	97	7	5	7	-	7-8	9+	2500	1000·6	−16	W'N	8	q	51	97	7	5	2	-	7-8	10	1500	1	5	cid$_o$q	cqm$_o$c	cbcq	bccpm$_o$
7	Holyhead ...	997·3	−36	WSW	6	2_c	52	85	6	6	2	-	7-8	10	800	994·0	−22	W'S	6	2_c	51	85	8	7	-	3	7-8	9+	2500	1	3	bid$_o$c	cid$_o$c	cpr$_o$b	mpqbc
	Chester(Sealand)	997·6	−24	W'N	6	ir$_o$	55	75	8	5	-	-	10	10	1500	993·4	−24	W	7	o/r	55	75	7	-	2	-	10	10	1500	1	*	c$_s$r$_s$ir$_o$	cr$_s$b	bcorr	cnrPH
8	Manchester ...	996·4	−30	W'S	6	c/r	51	85	6	5	2	-	9	10	800	992·3	−22	W'S	7	c/r	52	85	6	5	7	-	4-6	10	800	1	*	c$_s$r$_o$	cm$_o$r$_o$	cm$_o$rr$_o$	cm$_o$r$_o$
10	Spurn Head ...	993·0	−20	W'S	5	q	48	85	6	5	-	-	10	10	1500	993·1	−20	W'N	7	q	50	85	6	6	-	-	10	10	2500	0	4	rrcq	qpr$_o$c	bPR$_q$	rrbcq
	Catterick ...	991·4	−24	SW'W	4	ir$_o$	51	85	9	6	2	-	9	10	1500	986·1	−18	WSW	6	bc	51	75	8	6	7	8	4-6	4-6	1500	1	*	cvcir$_o$	c$_s$r$_s$c	bcorrl	cpr$_q$l
	Tynemouth ...	988·5	−24	W	5	c/pr	52	85	7	9	-	-	9+	9+	800	983·0	−14	W	8	q	52	65	7	2	-	1	2-3	4-6	1500	1	3	ocp$_o$	bcq	bcairbcp	bcprl
11	St Abbs Head ...	982·9	−30	WNW	6	c/pr	52	75	7	3	7	-	4-6	9	1500	976·8	−16	WNW	7	bc/pr	47	75	7	3	1	1	2-3	4-6	1500	1	4	cPRq	bcprq	prqb	cqprs
	Leuchars ...	981·6	−40	WSW	6	c	52	75	6	8	7	6	4-6	9+	2500	976·9	−22	W	7	pr	45	75	7	9	-	-	9+	9+	1500	1	*	bcqpr$_o$q	bccpr$_o$	cprbq	cpqprs
12	Renfrew (Abbots L.)	987·2	−38	W'N	6	r$_s$c$_o$	51	92	5	6	2	-	9	10	450	981·6	−38	W	8	c/pr	48	65	7	8	-	-	9	9	1500	1	*	d$_o$d$_o$rdr$_s$	m$_o$c$_o$pr$_o$	bcprl	cPHq
	Eskdalemuir ...	988·2	−20	WSW	5	r$_s$c$_o$	45	85	7	6	-	-	10	10	800	982·9	−34	WSW	6	ir$_o$	46	75	7	6	-	-	9+	9+	800	1	*	r$_o$r$_o$ir$_o$	id$_o$bdir$_o$	crrcrr	rrrrsss
	Point of Ayre...	993·2	−32	W'N	6	id$_o$	50	92	7	6	2	-	7-8	10	800	988·4	−26	WNW	6	c	49	85	8	5	3	-	4-6	9	2500	1	4	d$_o$d$_o$c	cid$_o$q	rrcq	prcq
13A	Tiree ...	985·3	−24	WNW	7	bc	50	75	7	8	5	-	2-3	4-6	1500	980·4	−30	NW'N	7	PHR	41	92	7	3	2	-	7-8	10	800	1	5	oindcpr$_o$	bcPRqphr		
13B	Stornoway ...	976·9	−30	WSW	9	c/phr	45	75	6	8	1	-	4-6	7-8	2500	972·3	−26	WSW	7	c/phr	38	85	6	5	2	-	7-8	10	2500	1	4	ir$_s$r$_o$p$_s$c	cPHRql	cPRSql	crsrepr
15	Dalwhinnie ...	981·5	−28	SW	9	IR	47	85	8	9	-	-	10	10	2500	976·9	−40	SW	6	IR	38	85	7	9	-	-	10	10	2500	1	*	cirR	cIR	*	csskso
	Aberdeen ...	977·5	−42	WSW	4	c/pr	53	65	7	8	7	3	Tr	7-8	2500	974·4	−14	W'N	6	pr	44	75	7	6	3	-	4-6	7-8	1500	1	2	cmpr$_o$	cRr	bccpr	PRqb	bccps
	Wick ...	972·5	−30	W	6	RR	46	85	8	5	7	-	7-8	9+	800	968·8	−20	W	7	c/phr	37	92	8	5	7	-	4-6	7-8	1500	1	8	cRr	PHRq	phrlt	phrsq
16	Lerwick ...	963·4	−42	W	8	c/r	46	97	7	8	7	-	7-8	10	800	958·0	−32	WSW	8	c/pr	39	85	8	8	7	-	4-6	7-8	1500	1	*	cr$_m$ir	cphr	cphrl	phrPH
17	Blacksod Point	999·4	−22	W	7	iD	51	97	7	6	-	-	10	10	220	994·9	−32	W	7	cu	50	85	7	9	-	-	10	10	450	1	6	iDrq	cq	PHRq	PHRq
18	Malin Head ...	990·5	−22	W	5	dd	49	97	5	6	2	-	7-8	10	800	983·5	−62	WSW	7	c/p	49	85	6	9	-	-	9+	9+	800	1	5	oDrddc	cir$_s$c	qprtbqphq	clPHkc
	Aldergrove ...	993·9	−24	WSW	5	ir$_o$	51	85	8	5	-	-	10	10	1500	988·0	−40	WSW	7	c	48	75	7	5	-	-	9+	9+	4000	1	*	cir$_o$	cir$_s$c.	ciRb	bcprsbc
19	Birr Castle ...	1003·0	−14	WNW	6	ir$_o$	52	92	7	6	2	-	4-6	10	1500	998·0	−16	WNW	5	ir$_o$	52	85	7	6	2	-	7-8	10	1500	1	*	pir$_o$	dr$_o$	cir$_o$	cir$_o$pr
20	Valentia Obsy. †	1003·7	−18	W'S	6	dd	52	97	5	5	-	-	10	10	450	1005·6	−18	W'S	5	ir$_o$	51	97	5	5	-	-	10	10	450	1	3	rcdd	r$_s$r$_o$ddir$_o$	ir$_o$dde	cpnrbc
	Roches Point	1006·5	−20	W'N	4	c	54	85	8	5	-	-	9	9	1500	1002·5	−28	W'N	6	c	54	85	8	5	7	5	2-3	7-8	1500	1	3	ir$_o$dc	cid$_o$c	cpr$_o$c	prqbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

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 1/20 of the sky. "9+" signifies an overcast sky with a few small openings.

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins, but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.

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

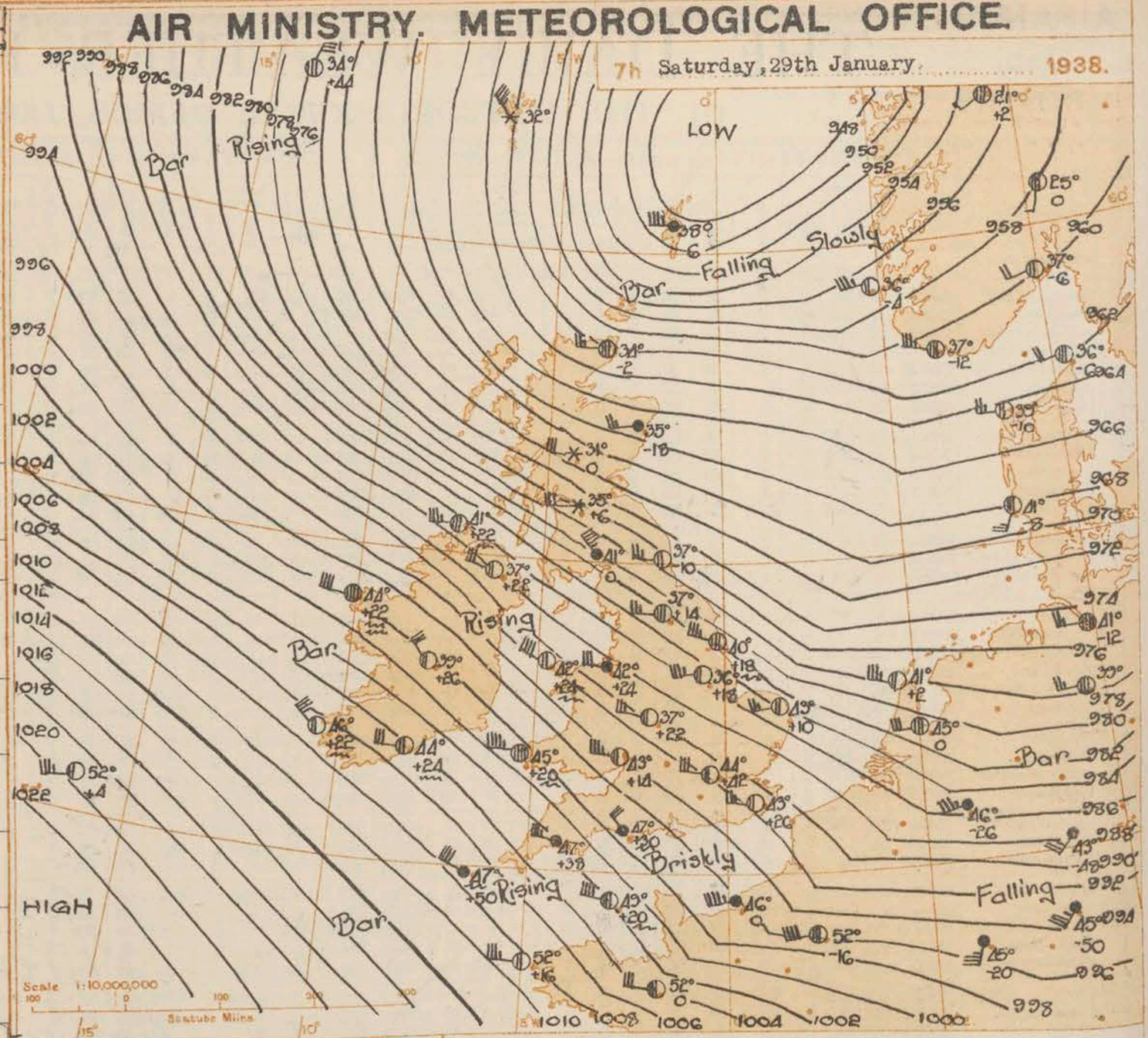
† Sea disturbance reported from Dungeness.

AIR MINISTRY. METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 28th January 1938.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 27th to 9h. 28th	Temperature. (°F.) Max. 9h.—17h. 28th	Rainfall. (mm.) Night. 17h. 27th to 9h. 28th	Rainfall. (mm.) Day. 9h.—17h. 28th	Sunshine (hrs) Sunrise to Sunset. 28th
1	Tunbridge W.	o	o	31	51	1	Trace	0.0
	Bournemouth	o	o	37	54	2	–	0.0
	Ventnor ...	rou	oum	37	51	4	–	0.0
	Southsea ...	co	o6o	37	53	4	Trace	0.0
	Bognor Regis	coc	o	35	52	3	–	0.0
	Littlehampton	o	o	34	52	3	–	0.1
	Worthing ...	c	cq	35	51	2	–	0.0
	Brighton ...	c	c	36	48	2	–	0.0
	Eastbourne† ...	rdoco	o	37	50	4	0.2	0.3
	Hastings† ...	oroc	o	34	50	2	0.3	0.0
	Folkestone ..	om.ro	o	33	52	5	1	0.0
	Dover ...	ro	oc	35	50	8	Trace	0.0
	Deal	dd.o	o	*35	52	1	0.3	0.0
	Ramsgate ...	roc	c	38	52	1	Trace	0.0
	Margate ...	c	c	35	53	1	–	0.0
2	Southend ...	oco	o	34	51	2	–	0.0
	Clacton-on-Sea	od.co	oe	32	50	2	Trace	0.0
	Dovercourt ...	roc	doc	34	51	2	Trace	0.0
	Lowestoft ...	crcir	c	30	51	1	1	0.0
	Skegness ...	coc	cor.	31	51	4	0.3	0.0
	Mablethorpe...	oro	od	31	52	3	0.3	0.0
	Cleethorpes ...	c	cr.	33	52	2	Trace	0.0
3	Leamington S.	o	op	33	54	1	Trace	0.0
4	Cheltenham†	oco	coc	34	54	0.3	Trace	0.0
5	Bath	c	cd.	38	51	0.5	Trace	0.0
	Weymouth ...	c	c	39	53	3	–	0.1
	Jersey ...	rcpc	pc	43	51	5	0.2	0.0
	Torquay ...	bcqp.	opq	46	53	2	0.4	0.1
	Falmouth	orqq	odqqd	41	52	7	0.2	0.0
	Penzance ...	rqid.	oqid.	42	52	9	0.3	0.0
	St. Ives ...	pr	pr	47	50	4	3	0.0
	Bude... ...	d.o	d.o	44	51	11	Trace	0.0
	Ilfracombe ...	orro	oco	42	51	9	–	0.0
6	Aberystwyth	PRc	cprc	42	45	7	1	0.0
7	Llandudno ...	d.pr.	olr.	38	52	3	0.3	0.0
	Colwyn Bay...	cdopo	opo	37	54	1	0.5	0.0
	Rhyl	c	cpr.	37	53	3	Trace	0.0
8	Wallasey ...	c	cir	38	51	6	0.3	0.0
	Southport ...	od.oq	op.q	38	50	5	Trace	0.0
	Blackpool ...	co	odo	40	49	4	Trace	0.0
	Morecambe ...	ccdc	circo	37	48	8	1	0.0
9	Ilkley... ...	d.do	dd	35	51	2	3	0.0
	Harrogate ...	cd.	bpbc	34	50	2	2	0.0
10	Berwick-on-T.	od.	or.bc	34	53	3	Trace	0.6
11	Dunbar ...	cprm.	crm.	32	52	0.5	Trace	0.8
12	Troon... ...	coror	rocor	36	48	4	1	0.0
	Douglas ...	bcir	bcpr.	33	52	14	Trace	0.0

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
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 January, 1938.
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	Strong west or northwest winds, a gale at times with heavy squalls, moderating slowly later and backing; mainly cloudy with showers of rain or hail; rather cold.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotland 13 B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Strong northwest to west winds, a gale at times with heavy squalls moderating slowly later and backing; mainly cloudy with showers of hail, sleet or snow; rather cold.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 1 - 10.

GENERAL INFERENCE.

A very deep depression northeast of Shetland is becoming stationary and will tend to fill up but another depression off America will probably develop and move rapidly across the Atlantic. There will be gales in all districts which will moderate slowly but strong winds are likely to be renewed shortly. There will be heavy showers of rain or hail.

FURTHER OUTLOOK.

Rain probably spreading from west, with renewed gales.

Times of issue of Gale Warnings.

South Cone hoisted at 1830 27-1-38 in districts 12, 13A, 13B, 15, 16, 17, 18 and 20.

South Cone hoisted at 0415 28-1-38 in dists 6, 7, 8, 19 and part of 5.

" " " " 0820 28-1-38 in dists 1, 2, 10, 11 and remainder of district 5.

Forecasts issued at 1015 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2. 6.330/3398. m 9020. D 4813. Gp 948

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

Hours of observation:—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

SATURDAY. 29th JANUARY.

1938.

Clarke's Projection Scale 1·4 × 10⁷ along meridian at 55° N.

Statute Miles 0 100 200 300 400 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol:—

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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY: THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Saturday, 29th January, 1938.
No. 27827.

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)	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	992·0	-44	W	6	c/pr	52	85	8	9	-	-	9+	10	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	992·6	-44	SW'W	6	bc	49	85	8	5	-	-	4-6	4-6	800
	Manston ...	142	990·4	-42	WSW	5	bc	51	85	7	5	-	-	4-6	4-6	1500
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	984·9	-40	SW	6	1	49	85	7	4	-	-	4-6	4-6	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	996·8	-16	W	5	c	51	92	8	4	-	-	10	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1002·7	-14	W'S	8	o	51	97	6	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1002·8	-30	W	8	id.	51	97	6	5	-	-	10	10	1500
	Guernsey ..	175	1003·0	-32	W'S	7	q	51	92	6	5	-	-	10	10	1500
6	Pembroke ...	142	993·4	-16	WNW	10	q	50	85	7	5	-	-	2-3	2-3	2500
7	Holyhead ...	26	987·9	-6	W'N	8	bc	46	85	6	6	-	-	2-3	2-3	800
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	981·5	-30	W'N	8	rr	44	85	7	5	-	-	10	10	1500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	977·8	-14	W	5	bc/pr	39	85	7	2	-	-	4-6	4-6	1500
11	St Abbs Head . .	280	972·9	-18	WNW	8	bc	36	75	8	-	1	-	0	2-3	-
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	984·1	+6	NW	7	c	43	85	7	8	-	-	7-8	7-8	800
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	968·1	-4	W	9	phr	37	85	7	8	1	-	4-6	7-8	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	963·7	-10	W	6	c/phr	35	92	7	5	1	-	7-8	9	1500
16	Lerwick ...	156	962·2	-30	W	7	c/phr	38	92	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	18	993·7	0	W	8	q	43	85	7	9	-	-	10	10	450
18	Malin Head ...	84	981·6	0	WSW	7	c/phr	42	75	6	9	-	-	9	9	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obey. †	30	1001·2	+6	WNW	8	PR	49	92	7	9	-	-	7-8	7-8	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 29th 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)	992·5	+22	W	5	bc	44	65	7	5	-	-	2-3	2-3	1500	1	*
	Croydon ...	992·9	+42	WNW	6	bc	44	55	8	5	-	1	2-3	2-3	4000	1	*
	S. Farnborough	993·4	+38	W'S	5	ir.	43	65	7	5	-	-	7-8	7-8	2500	1	*
	Boscombe Down	995·5	+24	W'N	5	bc	41	75	7	5	-	-	2-3	2-3	1500	1	*
	Calshot (Sthmtn.)	995·7	+34	W	6	b	45	75	8	8	-	-	1	1	1500	1	3
	Lympne ...	991·6	+26	WNW	5	b	43	65	8	8	4	-	Tr	1	1500	1	§3
	Manston ...	990·0	+20	W	5	b	41	75	8	5	4	-	1	1	1500	1	*
2	Shoeburyness...	990·5	+20	W	4	b	43	75	7	4	-	-	Tr	Tr	2500	1	*
	Felixstowe ...	988·7	+28	W	6	c	43	75	7	5	-	-	7-8	7-8	2500	1	3
	Gorleston ...	988·3	+10	W'S	5	bc	43	75	6	8	-	-	4-6	4-6	2500	1	3
	Mildenhall ...	989·5	+20	W'N	7	q	39	75	8	3	3	1	2-3	4-6	1500	1	*
	Cranwell ...	987·2	+18	W'S	7	bc/rs	36	92	7	3	-	-	2-3	2-3	1500	1	*
3	Birmingham ...	991·6	+22	WNW	5	bc/pr	37	85	7	3	-	-	2-3	2-3	1500	1	*
	Upper Heyford	991·8	+20	W	7	ir	42	75	7	5	2	-	7-8	9	2500	1	*
4	Ross-on-Wye	994·0	+14	W'N	7	bc	43	55	7	1	-	1	1	2-3	2500	1	*
5	Bristol ...	996·3	+22	WNW	7	bc	42	65	8	5	-	1	4-6	4-6	1500	1	*
	Portland Bill ...	997·7	+30	NW	6	pr.	47	85	7	5	-	-	10	10	1500	1	4
	Plymouth ...	1002·6	+38	WNW	7	bc/pr	47	65	8	9	-	-	4-6	4-6	1500	1	3
	The Lizard ...	1004·4	+30	WNW	8	c	47	75	7	8	-	-	7-8	7-8	1500	1	5
	Scilly (St. Mary's)	1006·8	+50	NW'N	8	pr.	47	92	7	3	-	-	9+	9+	800	1	5
	Guernsey ..	1001·0	+20	WNW	8	bc/pw	49	65	7	8	-	-	9	9	2500	1	5
6	Pembroke ...	999·1	+20	WNW	10	q	46	85	7	8	-	-	9	9	2500	1	5
7	Holyhead ...	991·2	+24	W'N	8	bc	42	65	8	2	-	-	4-6	4-6	2500	1	4
	Chester(Sealand)	989·6	+24	W	6	pr.	42	65	7	3	-	-	9	9	1500	1	*
8	Manchester ...	987·4	+20	W'N	7	bc/pr	40	75	6	8	4	-	2-3	4-6	2500	1	*
10	Spurn Head ...	981·9	+18	W'N	7	q	40	75	7	5	8	7	2-3	10	2500	1	5
	Catterick ...	981·6	+14	W	5	c/pr	37	75	8	9	-	-	7-8	7-8	800	1	*
	Tynemouth ...	976·9	-10	W	5	bc/pr	37	75	7	2	4	-	2-3	4-6	1500	1	2
11	St Abbs Head . .	971·8	0	WNW	8	PRS	38	65	7	3	4	-	4-6	7-8	1500	1	4
	Leuchars ...	970·9	-8	WSW	6	rs	36	85	7	6	-	-	10	10	1500	1	*
12	Renfrew (Abbots I.)	977·4	0	NW	9	PHR	41	65	7	9	9+	-	10	10	1500	10	*
	Eskdalemuir ...	978·5	+6	W	6	S.S.	35	75	7	-	2	-	10	10	800	7	*
	Point of Ayre...	985·2	+10	NW'W	8	c	40	85	7	8	-	-	7-8	7-8	800	1	5
13A	Tiree																4
13B	Stornoway ...	970·7	+60	WNW	7	c/pr	38	97	6	8	2	-	9	10	2500	1	4
15	Dalwhinnie ...	972·6	0	W	6	r/s.	31	97	3	6	-	-	10	10	800	7	*
	Aberdeen ...	966·7	-18	WSW	5	prs.	35	85	6	9	-	-	9+	9+	1500	4	2
	Wick ...	962·2	-2	W	5	c	34	92	7	5	7	-	4-6	7-8	1500	1	2
16	Lerwick ...	949·0	-6	W	8	ir	38	92	7	8	2	-	7-8	10	800	1	*
17	Blacksod Point	998·1	+22	W	8	q	44	85	7	9	-	-	10	10	450	1	6
18	Malin Head ...	985·0	+22	W	7	c/phr	41	75	5	9	-	-	9	9	800	0	5
	Aldergrove ...	987·8	+22	W'N	6	bc/rs	37	75	7	9	-	-	4-6	4-6	1500	1	*
19	Birr Castle ...	998·8	+26	NW	6	bc/pr	39	92	8	3	-	-	2-3	2-3	1500	1	*
20	Valentia Obey. †	1007·7	+22	NW'W	7	bc/phr	46	75	7	8	-	-	4-6	4-6	2500	1	5
	Roches Point	1004·2	+24	WNW	6	bc	44	85	8	3	-	-	4-6	4-6	1500	1	4

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 28th Hrs. (36)
1	London (Kew)	52	44	39	0·6	2	0·0
	Croydon ...	52	44	40	0·2	0·3	0·0
	S. Farnborough	52	43	38	0·3	0·5	0·2
	Boscombe Down	52	40	37	Tr	5	0·0
	Calshot (Sthmtn.)	54	43	39	0·4	1	0·0
	Lympne ...	50	43	39	3	0·4	0·0
	Manston ...	52	40	37	1	3	0·0
2	Shoeburyness...	52	40	36	1	4	0·0
	Felixstowe ...	51	43	39	1	2	0·0
	Gorleston ...	52	43	38	2	1	0·0
	Mildenhall ...	52	39	36	0·2	1	0·0
	Cranwell ...	52	36	34	0·5	3	0·0
3	Birmingham ...	53	36	34	-	3	0·0
	Upper Heyford	52	40	35	0·2	3	*
4	Ross-on-Wye	55	41	37	Tr	2	0·2
5	Bristol ...	50	42	37	0·1	2	0·0
	Portland Bill ...	53	46	*	0·6	0·6	*
	Plymouth ...	52	43	40	1	5	0·0
	The Lizard ...	51	46	*	0·2	0·2	0·0
	Scilly (St. Mary's)	51	47	*	1	0·5	0·0
	Guernsey ..	51	47	42	2	3	0·0
6	Pembroke ...	51	41	*	Tr	2	0·0
7	Holyhead ...	53	41	39	0·1	0·3	0·0
	Chester(Sealand)	56	39	36	0·2	2	0·0
8	Manchester ...	53	38	35	1	3	0·0
10	Spurn Head ...	51	40	*	0·2	3	0·0
	Catterick ...	53	36	33	Tr	5	0·2
	Tynemouth ...	53	36	32	Tr	2	0·2
11	St Abbs Head . .	53	36	*	0·1	2	*
	Leuchars ...	54	34	32	0·4	3	1·6
12	Renfrew (Abbots I.)	51	34	33	3	5	0·0
	Eskdalemuir ...	50	32	31	3	14	0·0
	Point of Ayre...	51	39	*	0·1	3	0·0
13A	Tiree	50	34	*	5	3	0·3
13B	Stornoway ...	48	29	27	13	10	0·0
15	Dalwhinnie ...	55	33	30	0·1	3	2·3
	Aberdeen ...	49	32	*	5	3	*
	Wick ...	49	35	*	5	3	0·2
16	Lerwick ...	53	36	*	0·1	2	*
17	Blacksod Point	54	35	*	0·3	3	*
18	Malin Head ...	51	38	*	2	1	0·9
	Aldergrove ...	51	35	33	Tr	3	0·0
19	Birr Castle ...	53	37	*	0·2	5	0·0
20	Valentia Obey. †	52	43	40	1	1	0·0
	Roches Point	55	40	*	0·5	2	*

LONDON OBSERVATIONS

Day 7h—18h. Kew & Croydon.
9h—18h. Kensington.
9h—21h. other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cr.r.cm.	cm.c	cRqRbc	52	44	39	0·6	2	0·0	.	.	7
Croydon	217	cr.r.m.	cm.	cir.prRPR	52	44	40	0·2	0·3	0·0	.	.	7
Greenwich (Royal Observatory)...	149	cdc	c	crRLRpb	52	38	35	Tr	7	0·0	84	64	5
City (Bunhill Row)	—	.	.	.	.	.	.	.	.	0·0	.	.	.
Westminster (St. James' Park) ...	27	.	.	.	53	40	36	6		0·0	86	66	.
Regents Pk. (Botanic Gardens)‡...	166	.	.	.	53	37	35	-	5	0·0	86	57	.
Camden Square	110	cdc	c	.	53	37	33	-	6	.	.	57	.
Kensington	80	co	bc	.	53	40	36	-	7	0·0	At 18h. 83	67	.
Hampstead Observatory	450	od	o	ortlbc	51	35	31	-	5	0·0	.	79	.

FOREIGN OBSERVATIONS.

18h. G.M.T. 28th January

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1007·4	SSW	3	q.d.	45
Brussels	1000·5	SSW	4	q.d.	45
Berlin	1001·3	SSW	5	bc	36
Zurich	1017·4	WSW	5	bc	34
Rome	1014·3	NE	1	bc	45

7h. G.M.T. 29th January

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
997·0	WSW	8	c/d	52
989·1	NSW	5	0	41
979.5	SW	5	c/d	37
1004·3	SSW	5	ir	39
1016·9	NE	2	b	32

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
45	45	3	2
45	32	2	3
41	32	-	3
39	32	1	5
*	*	-	-

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

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

Kew Observatory. Max.	Time.	Min.	Time.
0·1	9hr 28th	20·1	19h 28th to 7h 29th

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 —Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

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

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h.

§ Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 30th January, 1933.

No. 27828.

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)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	996·1	+22	W	7	c	46	97	8	6	–	–	9	9	2500
	Croydon ...	995·5	+30	WNW	8	bc	46	55	7	2	6	–	4-6	4-6	4000
	S. Farnborough	1000·6	+34	W'N	6	c/phr	45	48	8	8	–	–	7-8	7-8	2500
	Boscombe Down	1002·0	+34	WNW	7	bc/pr	45	55	8	8	–	–	4-6	4-6	2500
	Calshot (Sthmtn.)	1002·8	+34	W'N	7	c	47	65	8	8	–	–	7-8	7-8	4000
	Lympne ...	996·1	+28	W'N	6	bc/pr	41	65	8	2	–	–	2-3	2-3	4000
	Manston ...	996·2	+22	W'N	7	q	45	55	8	9	–	–	9	9	1500
2	Shoeburyness ...	996·7	+18	W	7	q	45	55	7	2	–	–	7-8	7-8	2500
	Felixstowe ...	993·6	+20	W	6	bc	43	65	8	8	–	–	4-6	4-6	2500
	Gorleston ...	993·0	+12	W'S	6	c	42	65	6	8	–	–	9	9	2500
	Mildenhall ...	992·8	+22	W'N	8	q	44	55	8	1	–	3	4-6	4-6	4000
	Cranwell ...	992·5	+34	W'N	8	c	44	56	7	8	–	–	9	9	1500
3	Birmingham ...	996·2	+34	WNW	6	c	42	55	8	8	–	–	7-8	7-8	1500
	Upper Heyford	995·1	+38	W'N	7	c	43	65	7	8	–	–	7-8	7-8	2500
4	Ross-on-Wye	1001·9	+32	WNW	7	q	44	55	8	1	–	3	2-3	4-6	4000
5	Bristol ...	1003·0	+30	NW	6	bc/pr	48	75	8	9	–	–	4-6	4-6	2500
	Portland Bill ...	1005·0	+24	NW	6	c	46	85	7	5	7	–	4-6	9	1500
	Plymouth ...	1008·0	+26	WNW	6	pr	48	55	8	8	–	–	9+	9+	2500
	The Lizard ...	1011·0	+14	W'N	8	bc	48	65	7	8	–	–	4-6	4-6	2500
	Scilly (St. Mary's)	1011·4	+14	NNW	8	q	50	75	7	3	–	–	9+	9+	1500
	Guernsey ..	1009·7	+30	W'N	7	q	47	65	7	8	–	–	9	9	2500
6	Pembroke ...	1005·2	+20	WNW	7	q	47	85	7	5	1	–	2-3	4-6	4000
7	Holyhead ...	998·5	+38	WNW	8	c	44	75	7	2	3	–	7-8	7-8	2500
	Chester (Sealand)	997·0	+46	W	8	bc	44	55	8	8	–	–	4-6	4-6	2500
8	Manchester ...	994·6	+44	W'N	7	c	43	55	7	5	–	–	9+	9+	2500
10	Spurn Head ...	986·2	+22	WNW	8	q	42	75	7	5	8	–	4-6	7-8	5700
	Catterick ...	988·3	+54	WNW	7	bc/pr	41	75	8	3	7	–	2-3	4-6	1500
	Tynemouth ...	984·2	+50	W	8	q	42	65	7	2	–	1	4-6	4-6	1500
11	St Abbs Head .	982·2	+72	W	6	bc	40	75	8	–	7	2	0	4-6	7200
	Leuchars ...	982·7	+62	WNW	6	bc/pr	39	85	9	5	7	8	2-3	2-3	1500
12	Renfrew (Abbotsl.)	988·3	+54	WNW	8	phr	43	65	8	9	–	–	4-6	4-6	800
	Eskdalemuir ...	985·1	+54	WNW	6	s,s,	37	85	7	6	–	–	9+	9+	800
	Point of Ayre...	993·8	+40	NW	8	c	45	65	7	8	–	–	7-8	7-8	800
13A	Tiree														
13B	Stornoway ...	982·5	+44	WNW	8	phr	37	97	7	8	–	–	7-8	7-8	2500
15	Dalwhinnie ...	985·2	+40	W	5	is	33	92	3	6	–	–	10	10	800
	Aberdeen ...	976·6	+64	NNW	6	b	41	65	8	–	–	3	0	Tr	–
	Wick ...	974·7	+52	NW	10	q	40	55	7	8	7	8	4-6	7-8	1500
16	Lerwick ...	963·5	+68	NW	9	c/phr	38	92	7	8	7	–	7-8	9+	800
17	Blacksod Point	1003·4	+12	WNW	8	q	45	75	8	9	–	–	9	9	450
18	Malin Head ...	993·9	+24	W	6	c/pr	43	65	6	8	–	–	7-8	7-8	800
	Aldergrove ...	996·3	+36	W'N	6	bc/pr	41	65	7	6	–	–	2-3	2-3	1500
19	Birr Castle ...	1004·3	+20	NW	8	c	43	85	8	5	7	–	2-3	7-8	2500
20	Valentia Obsy. †	1011·2	+6	NWW	5	c	48	75	8	8	–	–	10	10	1500
	Roches Point	1006·5	+20	NW	6	c/pr	47	75	8	3	–	–	7-8	7-8	1500

OBSERVATIONS at 18h. G.M.T. 29th 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)	1002·8	+20	W	5	bc	44	55	7	5	–	–	4-6	4-6	2500	1	*
	Croydon ...	1003·0	+16	WNW	5	bc	44	56	7	5	–	–	4-6	4-6	2500	1	*
	S. Farnborough	1004·0	+20	W	5	c	44	55	6	4	–	6	2-3	9	4000	1	*
	Boscombe Down	1004·0	+6	W'N	6	c	43	75	7	–	2	–	0	10	–	1	*
	Calshot (Sthmtn.)	1005·4	+14	W	5	c	45	65	8	1	4	6	Tr	7-8	4000	1	3
	Lympne ...	1002·8	+30	W	5	q	42	56	8	5	–	8	Tr	1	4000	1	3
	Manston ...	1001·0	+30	W'N	5	q	42	55	8	5	3	–	1	1	2500	1	*
2	Shoeburyness ...	1001·2	+24	W'S	5	b	43	55	7	4	3	–	Tr	1	2500	1	*
	Felixstowe ...	998·9	+30	W	6	b	45	58	8	5	–	–	1	1	2500	1	3
	Gorleston ...	996·1	+52	W'S	6	b	41	65	6	–	–	–	0	0	–	1	3
	Mildenhall ...	999·1	+36	W	5	bc/pr	40	75	8	5	–	1	4-6	4-6	2500	1	*
	Cranwell ...	998·5	+36	W'S	5	c	41	75	7	8	–	–	9+	9+	1500	1	*
3	Birmingham ...	1001·2	+10	W	4	c	40	65	6	5	–	–	7-8	7-8	2500	1	*
	Upper Heyford	1002·4	+22	WNW	5	c	40	75	8	5	–	–	9	9	2500	1	*
4	Ross-on-Wye	1003·1	+6	W	4	c	44	55	8	5	7	8	2-3	9	2500	1	*
5	Bristol ...	1003·0	+6	W	6	c	43	75	8	5	2	–	4-6	10	2500	1	*
	Portland Bill ...	1007·0	+10	WNW	4	pr	45	52	6	5	–	–	10	10	1500	1	4
	Plymouth ...	1009·0	-10	W	5	pr	47	85	7	9	7	–	7-8	9+	1500	1	2
	The Lizard ...	1010·3	-10	WSW	6	pr	46	85	7	5	–	–	10	10	1500	1	4
	Scilly (St. Mary's)	1010·1	-10	W'S	7	r,r,	48	85	7	5	–	–	10	10	1500	1	5
	Guernsey ..	1010·4	-2	W	6	q	48	75	7	8	–	–	10	10	2500	1	5
6	Pembroke ...	1004·6	-2	WNW	7	q	47	85	7	8	–	–	9+	9+	1500	1	4
7	Holyhead ...	999·9	0	W	6	c	45	65	8	6	2	–	4-6	10	2500	1	4
	Chester (Sealand)	999·5	+16	W	5	bc/pr	42	75	7	5	4	–	2-3	4-6	4000	1	*
8	Manchester ...	997·9	+20	W'N	6	c	41	75	7	8	–	–	7-8	9+	2500	1	*
10	Spurn Head ...	994·7	+30	WNW	6	q	41	85	6	5	4	–	4-6	4-6	4000	1	5
	Catterick ...	993·3	+26	W'N	4	pr	39	75	8	3	7	–	4-6	4-6	1500	1	*
	Tynemouth ...	990·7	+36	WNW	5	q	39	65	7	8	–	–	2-3	2-3	2500	1	2
11	St Abbs Head .	987·1	+16	W	7	b	38	65	8	–	4	–	0	Tr	–	0	4
	Leuchars ...	987·4	+10	WNW	6	b	38	65	9	8	4	–	Tr	Tr	2500	1	*
12	Renfrew (Abbotsl.)	992·2	+10	WNW	5	pr	36	85	7	8	–	1	2-3	4-6	1500	1	*
	Eskdalemuir ...	991·5	+16	WNW	6	bc	36	75	8	5	–	–	2-3	2-3	1500	4	*
	Point of Ayre...	996·1	+8	WNW	6	c	43	75	7	9	–	–	9+	9+	800	0	5
13A	Tiree																
13B	Stornoway ...	986·3	+24	WNW	6	c/phr	38	75	8	8	7	–	4-6	7-8	2500	1	3
15	Dalwhinnie ...	x	+20	W	5	pc	31	92	7	8	6	–	4-6	4-6	2500	7	*
	Aberdeen ...	984·5	+16	WNW	5	b	36	75	8	3	–	–	Tr	Tr	1500	1	3
	Wick ...	981·0	+20	NW	7	c/ps	35	75	7	9	7	8	4-6	7-8	800	4	4
16	Lerwick ...	972·4	+28	NW	9	c	35	97	7	8	2	–	7-8	10	800	1	
17	Blacksod Point	998·5	-40	W	4	RR	45	92	7	6	–	–	10	10	220	1	4
18	Malin Head ...	993·9	0	W	6	c/r	45	75	6	3	–	–	9	9	800	0	6
	Aldergrove ...	996·7	-10	SW'W	3	c	39	85	7	8	–	–	9+	9+	2500	1	*
19	Birr Castle ...	1002·0	-18	NSW	2	ir,	42	97	7	6	2	–	7-8	10	1500	1	*
20	Valentia Obsy. †	1004·3	-44	SW	4	dd	48	97	5	5	–	–	10	10	220	1	4
	Roches Point	1005·6	-24	W	4	rr	46	97	7	6	2	–	7-8	10	800	1	3

PAST 24 HOURS.

Weather. 7h.–13h. 29th (37)	Weather. 13h.–18h. 29th. (38)	Weather. 18h. 29th to 1h. 30th (39)	Weather. 1h.–7h. 30th (40)
bcrrsc	cybcy	bcyc	cr Rrc
bcbypc	prbc	beyc9r	rrrLR
ir,bcy	cy	cyrsc	rrtlrPR
prbcy	bcycyc	cbc	bclpcq
bbc	bccpcbc	bcc	ccir
bcprcq	bcqy	bcoir	fphrr
bcqy	bcbqy	bqycr,	r,Grr
qp,bye	cyqby	byc	crrc,
cpr,bc	bcbvy	bybcc	ir,RRc
bccq	cbcbq	bcqr,	or,oc
cpc,pscpbc	bcqybcpr,	bccr	SSm,c
bccpr,	cbc	cbcm,	pcrrr,
bcqpsph	cbc	bcor	cRr
cprprhbc	bcprsc	crcr,	crrRq
pqbcqp,	hqbcqycq	ccd,or,	cqir
bccqp,	bccjpq	bccrcq	cRqbc
cPR	cpr	co	cpr
prprh,q	cqypr	crrm,	qq
prcbc	bcpr,	rrmbc	bcprq
bcpcq	cp,r,c	orddc	bccpc
cbcpr	cqbc	corrcq	cchc
cqbc	bccpr	cbcqcpr	
irph,	c	c,c,PRq	rrmprc
cPHprbc	prphrrmbc	bcmRRc	crcRm
cbcphpr	cybcc	cprrrrR	rrr,c,bc
bccq	bccq	cp	oprrc
prspic	bcpic,	bcqb	bcqbc
bcoirsbcq	bccq	bco	obc
bbc	b	bbc	cbc
prsbc	cprsbq	bqbcx	bcxbx
bcPRq	bcprs,s,	bcpcq	bcx
s,crss,	bcps,bc	bcx	bcx
cq	prcq	crrr,	cpr
cphr	cphr	cphr	cph,bc
cksois	c,is	•	c,is
PRSb	cPSb	b	b
prcqy	cps	phscq	cq
irphfrcq	cirq	cpshq	cpsq
PHRq	prc	iRq	PRcq
cphr,bc	cpcc	cirGrcrr	cphrc
prspr,	pcbcc	orrGr,	Gr,bc,pr,
bcprc	cir,	cir,	cirGc
bcpcc	irrrdd	Hdc	cd,cpGc
cprqc	prcrr	Gr,bc	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large Cu (or Cb) and Sc.
9 Large Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 . . Ground dry.
1 . . „ wet.
2 . . „ flooded.
3 . . „ frozen hard and dry.
4 . . „ partly covered with snow or hail.
5 . . „ covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . „ covered with snow, less than 6 ins., deep but ground not frozen.
8 . . „ covered with snow, less than 6 ins., but ground frozen.
9 . . „ covered with snow greater than 6 ins. deep.

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

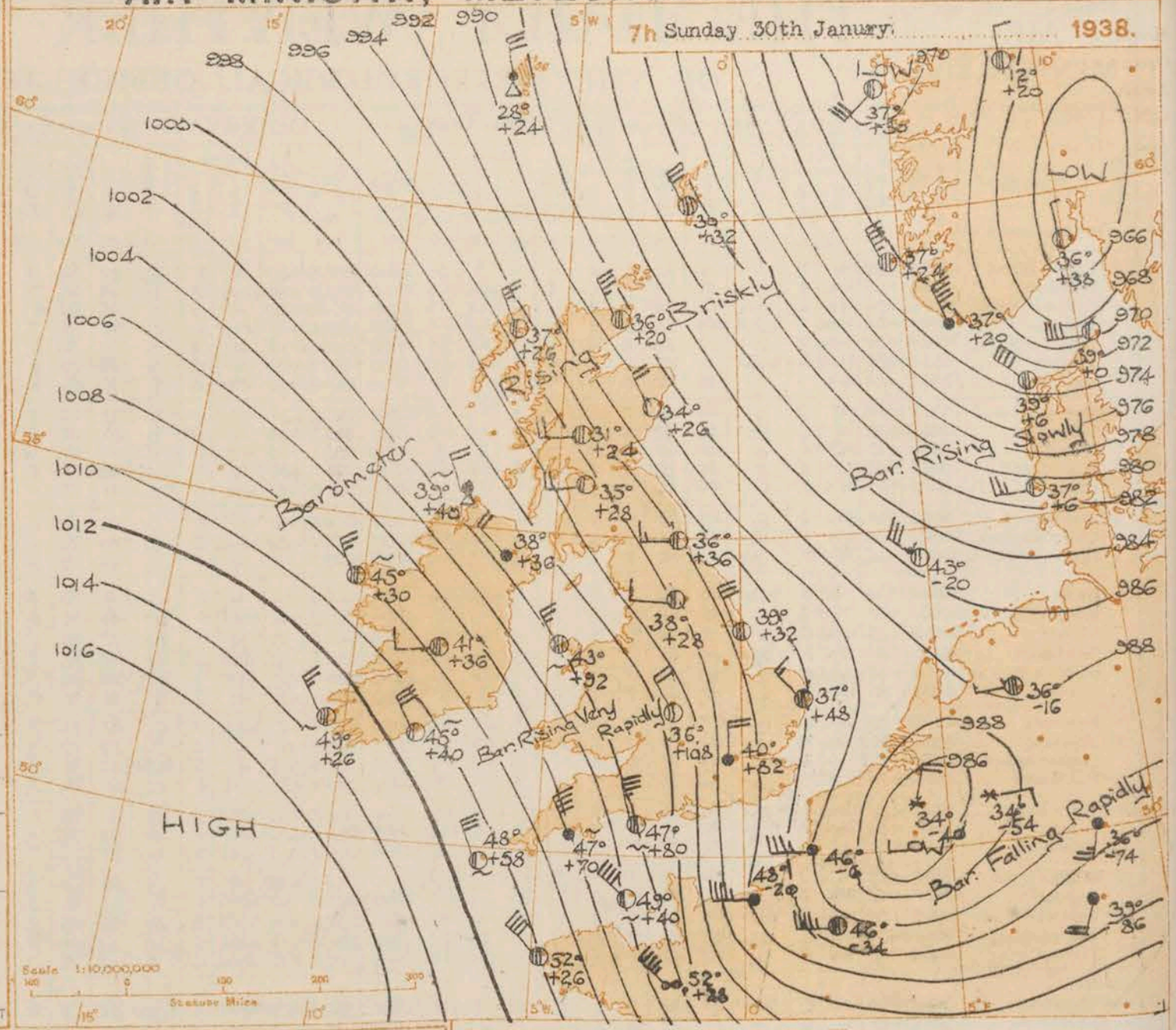
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE

REPORTS from HEALTH RESORTS for 29th January 1938.

District	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature (°F.) Min. 9h. 28th to 9h. 29th	Temperature (°F.) Max. 9h.—17h. 29th	Rainfall (mm.) Night. 17h. 28th to 9h. 29th	Rainfall (mm.) Day. 9h.—17h. 29th	Sunshine (hrs) Sunrise to Sunset 29th
1	Tunbridge W.	bc	bc	42	46	0.5	-	5.2
	Bournemouth	b	bcblbc	40	48	2	-	6.0
	Ventnor ...	rb	bbc	41	48	1	-	6.1
	Southsea ...	b	bbc	41	46	3	-	5.1
	Bognor Regis	b	bc	42	48	3	-	6.5
	Littlehampton	bc	bc	43	48	2	-	6.6
	Worthing ...	bbc	bc	43	48	3	-	6.5
	Brighton ...	b	bbc	44	48	5	-	6.0
	Eastbourne† ...	b	bbcc	43	50	3	-	6.7
	Hastings† ...	bbc	obc	42	52	0.3	-	7.1
	Folkestone ..	bcblbc	bbcb	41	47	0.5	-	6.2
	Dover ...	bc	bcb	40	48	1	-	6.1
	Deal	bc	bc	41	47	2	-	6.2
	Ramsgate ...	bc	bc	39	46	5	-	6.3
	Margate ...	bc	bc	41	45	2	-	5.1
2	Southend ...	bbcb	bcb	39	46	5	Trace.	6.5
	Clacton-on-Sea	bcblbc	bcby	36	45	6	-	6.6
	Dovercourt ...	bc	bc	39	46	3	-	2.9
	Lowestoft ...	b	bcb	37	44	-	-	5.1
	Skegness ...	bc	bcb	37	45	3	-	4.6
	Mablethorpe...	brbc	bc	41	44	2	-	4.8
	Cleethorpes ..	cqbc	bcq	36	44	3	-	4.9
3	Leamington S	bccp	cbc	37	46	3	0.1	3.6
4	Cheltenham†	chbcc	cpbcc	40	51	4	Trace	2.8
5	Bath	cbcb	pbcc	43	48	2	Trace	2.4
	Weymouth ...	bcb	bcb	42	48	2	0.3	4.7
	Jersey ...	rcbcp	cpbcc	46	50	3	1	4.7
	Torquay ...	bcpbq	bqbcc	44	43	3	0.2	5.1
	Falmouth	b	cpcoq	44	50	3	0.2	4.0
	Penzance ...	cqbcb	qbcpc	45	51	3	Trace	4.3
	St. Ives ...	c	pc	41	46	2	1	2.1
	Bude... ...	cq	bcqr	41	51	-	0.3	2.7
	Ilfracombe ...	brcpb	qbbco	42	47	2	0.2	2.0
6	Aberystwyth	brcbc	c	41	47	2	-	0.9
7	Llandudno ...	cbcq	nbcrc	37	45	3	0.2	2.8
	Colwyn Bay...	cbcc	bcbc	39	44	1	0.3	1.6
	Rhyl	bpbc	brbc	40	43	3	0.6	2.1
8	Wallasey ...	pbc	bc	36	45	6	Trace	0.6
	Southport ...	cqb	qcbq	38	45	1	-	4.7
	Blackpool ...	bcbbc	bc	39	44	1	-	4.5
	Morecambe ...	cbrbc	bccbc	36	44	3	1	3.1
9	Ilkley... ...	prs	prsh	35	42	7	3	0.9
	Harrogate ...	cbqp	cbqp	33	40	11	1	3.0
10	Berwick-on-T.	bbcb	b	36	43	2	-	6.1
11	Dunbar ...	crs	crn	35	41	4	-	3.8
12	Troon... ...	qrrqr	bcqbc	37	44	9	3	*
	Douglas ...	bpr	bpc	34	43	3	Trace	5.0

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 30th January, 1938.
1 S.E. England† 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England† 6 South Wales ... 7 North Wales ...	Moderate to fresh squally northwest winds, moderating slowly and backing later; bright periods, local showers of rain or hail at first; rather cold with frost at night, becoming milder tomorrow.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Moderate or fresh squally northwest winds, moderating and backing later; bright periods, occasional showers of rain, sleet or snow at first, cloudy with occasional rain later; rather cold with frost at night, becoming milder tomorrow.
13 {A. W. Scotland. B.N.W. Scotland.} 14 Mid Scotland 15 N.E. Scotland 16 Orkney and Shetland	Fresh or strong squally northwest winds, backing later; showers of hail, sleet or snow at first, occasional rain later; rather cold with frost at night, becoming milder tomorrow.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Moderate northwest winds, backing west to southwest and freshening later; local showers, bright periods at first. cloudy and occasional rain later; rather cold at first with frost at night, becoming milder.

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

GENERAL INFERENCE.

A secondary depression over Belgium is moving rapidly southeastwards while a ridge of high pressure off Western Ireland is moving east. There will be considerable bright periods in most districts but occasional showers of rain or hail will occur in the South and West, and of sleet or snow in the North. Weather will be rather cold with frost at night.

FURTHER OUTLOOK.

Winds backing and freshening from southwest with cloudy conditions and occasional rain; becoming milder.

Time of issue of Gale Warnings.

† South cone hoisted at 0820 G.M.T. on 28th in district 1 and part of district 5.

Forecasts issued at 1100 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

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

Hours of observation:—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

SUNDAY 30TH JANUARY.

1938.

Clarke's Projection. Scale 1 : 10⁷ along meridian at 65° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

Barometer. Isobars are drawn for intervals of four millibars.

Wind. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol:—◯

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. ✱Sleet. △Hail. ≡Fog. ≡Mist. (R)Thunder. ↯Thunderstorm. ∞Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 30th January, 1938.

No. 27828

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	392.6	-82	SW'S	4	rr	42	32	6	6	2	-	9	10	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	395.3	-62	SSW	3	ir	41	85	7	6	-	-	10	10	800
	Manston ...	142	394.7	-52	SSW	3	id.	41	85	6	6	2	-	7-8	10	800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	393.4	-44	SW'S	3	bc	39	85	6	6	-	-	10	10	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	394.3	-60	N	6	o	46	92	7	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1002.0	-40	W'S	8		50	92	7	8	-	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	1002.3	-10	W'N	8	bc	50	92	6	4	4	-	1	2-3	1500
	Guernsey ..	175	1001.7	-54	W'S	7	c	51	97	7	8	-	-	10	10	1500
6	Pembroke ...	142	398.1	-34	N'N	10	pr	50	85	7	8	-	-	7-8	7-8	2500
7	Holyhead ...	26	395.5	-70	N'N	8	rr	48	95	6	6	2	-	2-3	3+	450
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	393.6	-26	WSW	2	o	39	85	6	5	-	-	10	10	4000
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	397.9	-20	W	3	0	38	85	6	5	-	-	10	10	1500
11	St Abbs Head ..	280	396.1	-6	N	3	bc	37	75	7	-	5	-	0	4-6	7200
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	397.2	-60	SSW	1	rr	38	97	8	-	2	-	10	10	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	398.7	+18	NW	5	c	37	85	8	5	7	-	7-8	9	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	393.4	+16	NW	5	c	38	97	8	8	7	-	4-6	7-8	1500
16	Lerwick ...	156	397.6	+20	NW	7	c/ps	30	92	7	8	-	-	7-8	7-8	800
17	Blacksod Point	18	397.3	+60	NW	9	q	44	85	7	9	-	-	10	10	450
18	Malin Head ...	84	393.8	+4	N	2	rr	39	92	6	5	-	-	10	10	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1004.0	+20	WNW	7	bc	50	92	7	5	-	-	2-3	2-3	1500
	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)	997.0	+108	N	4	rr	39	85	6	9	-	-	9+	9+	1500	1	*
	Croydon ...	995.6	+82	N	4	rr	40	85	8	6	7	-	9	10	1500	1	*
	S. Farnborough	996.6	+84	NNW	5	c/pr	41	85	7	9	-	-	9+	9+	1500	1	*
	Boscombe Down	997.0	+72	N'W	7	pr	42	85	8	9	9	9	4-6	7-8	800	1	*
	Calshot (Sthmtn.)	996.6	+76	NW'W	8	ir	45	85	7	6	-	-	9+	9+	1500	1	5
	Lympne ...	997.7	+58	N'W	5	ir	39	85	6	6	2	-	9+	10	450	1	4
	Manston ...	997.2	+66	NNE	4	rr	37	92	6	5	2	-	9	10	800	1	*
2	Shoeburyness ...	994.1	+80	NNW	4	rr	37	92	8	5	7	-	7-8	9+	1500	1	*
	Felixstowe ...	992.8	+64	NNW	3	c/r	35	92	7	5	2	-	7-8	9+	1500	1	2
	Gorleston ...	992.4	+48	WNW	3	c	37	92	6	6	-	-	7-8	7-8	2500	1	2
	Mildenhall ...	994.4	+76	NW'W	4	c	34	97	7	5	-	-	9+	9+	4000	6	*
	Cranwell ...	995.1	+60	WNW	3	c/r	37	97	6	5	7	-	7-8	9+	800	1	*
3	Birmingham ...	1000.1	+108	NW	4	bc	36	92	8	6	-	-	4-6	4-6	800	1	*
	Upper Heyford	998.1	+120	NNW	5	c/r	37	97	7	5	7	-	4-6	9+	800	1	*
4	Ross-on-Wye	1002.0	+120	NNW	3	c	39	85	8	5	-	8	7-8	9	2500	1	*
5	Bristol ...	1001.5	+114	N	6	c/pr	42	75	8	9	7	-	4-6	9	1500	1	*
	Portland Bill ...	1000.2	+80	NNW	7	c	47	85	7	8	-	-	9	9	2500	1	6
	Plymouth ...	1006.6	+76	NW	8	q	47	65	8	8	-	-	7-8	7-8	2500	1	4
	The Lizard ...	1005.4	+60	WNW	7	q	47	65	8	9	-	-	4-6	4-6	1500	1	6
	Scilly (St. Mary's)	1010.7	+58	NW'N	6	bc/pr	46	75	7	3	6	-	2-3	4-6	1500	1	5
	Guernsey ..	1002.7	+40	WNW	8	q	45	65	8	-	3	-	c	2-3	-	1	5
6	Pembroke ...																
7	Holyhead ...	1001.2	+32	NW'W	7	c	43	85	8	2	-	8	7-8	9+	1500	1	4
	Chester (Sealand)	1000.1	+72	NW'W	5	c	41	85	7	5	2	-	4-6	7-8	2500	1	*
8	Manchester ...	998.2	+80	WNW	4	bc	38	85	7	6	4	-	2-3	2-3	2500	1	*
10	Spurn Head ...	992.6	+52	NW'N	6	q	39	85	7	5	-	-	9+	9+	4000	0	3
	Catterick ...	996.0	+28	W'N	2	bc	36	75	7	5	7	6	4-6	4-6	2500	1	*
	Tynemouth ...	994.8	+36	W	3	bc	36	75	7	2	-	-	4-6	4-6	1500	1	2
11	St Abbs Head ..	993.4	+40	WNW	4	bc	37	65	8	4	4	-	2-3	4-6	2500	0	3
	Leuchars ...	993.8	+32	W	4	bc	35	75	9	4	4	-	2-3	2-3	4000	3	*
12	Renfrew (Abbots I.)	996.5	+28	W	4	bc	35	85	8	5	-	-	2-3	2-3	1500	1	*
	Eskdalemuir ...	995.9	+32	NNW	4	b	38	85	8	5	-	-	1	1	2500	4	*
	Point of Ayre ...	998.4	+50	NW'N	6	pr	41	85	7	8	-	-	7-8	7-8	1500	1	4
13A	Tiree																
13B	Stornoway ...	994.5	+26	NW	6	bc	37	92	8	8	-	-	4-6	4-6	2500	1	3
15	Dalwhinnie ...		+24	W	4		31	85	7	5	-	-	10	10	2500	7	*
	Aberdeen ...	991.4	+26	NW	4	b	34	65	8	5	-	1	1	1	2500	3	3
	Wick ...	988.2	+20	NW	7	c	36	92	8	8	7	-	4-6	7-8	1500	3	3
16	Lerwick ...	983.4	+32	NW	6	c/ps	30	92	7	8	-	-	7-8	7-8	800	4	*
17	Blacksod Point	1008.0	+30	NW	5	c	45	75	8	9	-	-	9	9	800	1	5
18	Malin Head ...	1000.3	+40	NW	4	PHR	39	97	6	3	2	-	7-8	10	800	1	5
	Aldergrove ...	1000.8	+36	WNW	4	pr	38	85	7	8	-	-	9	9	2500	1	*
19	Birr Castle ...	1007.1	+36	W	2	c	41	85	8	5	-	-	9+	9+	2500	1	*
20	Valentia Obsy. †	1013.4	+26	NNW	5	o/pr	43	65	7	5	-	-	10	10	2500	1	4
	Roches Point	1010.6	+40	NW	6	bc	45	75	8	5	-	-	4-6	4-6	2500	1	4

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 29th Hrs. (36)
1	London (Kew)	46	39	36	0.2	5	5.5
	Croydon ...	47	39	38	Tr	4	4.1
	S. Farnborough	46	41	37	Tr	4	4.3
	Boscombe Down	46	41	39	Tr	2	5.4
	Calshot (Sthmtn.)	53	43	41	Tr	0.3	5.8
	Lympne ...	46	39	38	Tr	6	6.8
	Manston ...	46	37	34	-	5	6.0
2	Shoeburyness ...	47	36	35	Tr	6	6.1
	Felixstowe ...	45	34	32	0.1	14	6.8
	Gorleston ...	45	36	34	-	0.2	3.7
	Mildenhall ...	45	33	32	0.3	16	4.4
	Cranwell ...	45	35	33	0.4	2	4.6
3	Birmingham ...	44	35	34	0.2	13	3.6
	Upper Heyford	44	36	32	1	6	*
4	Ross-on-Wye	45	38	35	0.1	2	3.2
5	Bristol ...	46	41	39	Tr	2	2.4
	Portland Bill ...	48	44	*	1	1	*
	Plymouth ...	48	47	44	1	6	2.5
	The Lizard ...	49	41	*	0.2	2	4.2
	Scilly (St. Mary's)	50	44	*	1	0.4	4.2
	Guernsey ..	50	44	43	0.4	3	5.8
6	Pembroke ...			*	0.3	-	
7	Holyhead ...	46	40	39	0.2	5	2.3
	Chester (Sealand)	45	37	35	5	14	4.0
8	Manchester ...	44	36	30	0.2	7	1.7
10	Spurn Head ...	48	38	*	2	Tr	4.2
	Catterick ...	43	36	32	1	-	4.6
	Tynemouth ...	44	35	32	1	-	4.8
11	St Abbs Head ..	44	30	*	0.3	-	*
	Leuchars ...	42	32	24	0.5	-	6.1
12	Renfrew (Abbots I.)	45	33	28	6	0.2	2.1
	Eskdalemuir ...	39	31	28	7	-	3.6
	Point of Ayre ...	45	37	*	0.1	2	1.5
13A	Tiree						
13B	Stornoway ...	42	35	*	2	1	1.4
15	Dalwhinnie ...	35	28	24	4	0.2	0.1
	Aberdeen ...	42	32	27	6	-	3.8
	Wick ...	41	33	*	2	0.1	*
16	Lerwick ...	40	28	*	3	0.6	0.0
17	Blacksod Point	50	39	*	3	4	*
18	Malin Head ...	44	37	*	0.1	7	0.1
	Aldergrove ...	42	33	32	0.4	10	2.8
19	Birr Castle ...	45	40	*	1	1	1.7
20	Valentia Obsy. †	43	47	42	4	0.5	0.5
	Roches Point	43	45	*	3	0.5	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset hrs.	Humidity. 15h. G.M.T % (Yesterday.)	Humidity. 9h. G.M.T % (To-day.)	Visibility 9h.
Kew	18	bcrrsc	cybcy	bcycrRc	46	39	36	0.2	5	5.5	.	.	6
Croydon	217	bcbypr.	brobc	bcycrrR	47	39	38	Tr	4	4.1	.	.	6
Greenwich (Royal Observatory) ...	149	b	by	bcrrc	45	37	34	-	5	4.6	47	82	6
City (Bunhill Row)	—	.	.	.	.	.	.	.	.	4.5	.	.	.
Westminster (St. James' Park) ...	27	.	.	.	49	39	35	7		4.7	63	90	.
Regents Pk. (Botanic Gardens)‡ ...	168	.	.	.	48	37	34	Tr	7	3.9	53	82	.
Camden Square	110	bc	c	.	47	38	33	-	7	.	.	87	.
Kensington	80	bcpy	bcy	.	47	38	33	Tr	3	5.2	4½ 18h.	82	.
Hampstead Observatory	450	bc	c	corbc	51	35	31	-	7	5.9	.	91	.

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.
Paris	1008.3	W.	5	bc/pr	43	991.8	W	10	q	46
Brussels	1000.0	WNW	5	c	43	985.0	NNE	4	s.s	34
Berlin	986.9	WSW	5	bc	37	985.1	SW	4	c/r	36
Zurich	1003.1	W	1	bc/r	37	1000.3	S	5	c/r	37
Rome	1006.9	S	7	d	48	1006.1	N	1	bc	39

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
Pollution defective		record	

Kew Observatory. Max.	Time.	Min.	Time.
0.1	12h 29th	(0.1	rest of period

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
50	41	2	1
43	32	Tr	-
43	36	3	1
46	32	12	1
*	*	*	5

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	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.

GEORGE C SIMPSON, K.C.B., D.Sc., F.R.S., Director.

† 1 h. observations are from Valentia W/T Station.

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h.

§ Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 31st January, 1938.
No. 27829.

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)
1	London (Kew)	1007·3	+3·2	WNW	4	z.	45	65	6	8	-	8	7-8	9+	2500
	Croydon ...	1007·7	+3·4	NW	5	c	44	65	6	8	3	6	7-8	9+	2500
	S. Farnborough	1007·9	+2·6	NNW	6	c	47	55	8	1	4	9	4-6	9	4000
	Boscombe Down	1009·6	+3·0	NNW	4	c	45	75	8	7	7	9	4-6	7-8	2500
	Calshot (Sthmtn.)	1009·2	+3·0	WN	6	bc	46	65	8	7	-	1	4-6	4-6	2500
	Lympne ...	1006·4	+5·0	WNW	4	z.	43	65	6	8	-	8	7-8	9+	2500
	Manston ...	1005·2	+4·6	NNW	4	c	43	75	6	8	-	1	9	9+	1500
2	Shoeburyness ...	1005·8	+4·2	WNW	5	c	44	65	7	2	-	7	7-8	10	2500
	Felixstowe ...	1003·9	+4·2	WNW	5	bc	43	75	8	8	3	8	2-3	4-6	1500
	Gorleston ...	1003·9	+3·0	WNW	4	bc	43	65	7	2	4	-	1	2-3	2500
	Mildenhall ...	1004·1	+3·2	W'N	5	bc	42	85	8	7	4	1	2-3	4-6	2500
	Cranwell ...	1004·1	+3·0	WN	4	c	42	75	7	8	4	3	7-8	9	2500
3	Birmingham ...	1006·8	+2·2	WNW	5	phr	43	75	6	8	-	8	4-6	7-8	2500
	Upper Heyford	1007·1	+2·2	WNW	6	c	44	65	8	8	7	6	4-6	9	1500
4	Ross-on-Wye	1009·0	+2·0	W'N	4	c	44	65	8	8	3	8	4-6	9+	2500
5	Bristol ...	1009·9	+2·6	W'N	4	cjp	43	75	8	9	7	6	4-6	9	1500
	Portland Bill ...	1010·7	+2·0	NW	4	c	48	75	7	2	4	-	7-8	10	2500
	Plymouth ...	1013·5	+1·8	NW	4	bc	49	55	8	1	3	9	Tr	4-6	2500
	The Lizard ...	1015·1	+2·0	WNW	5	c	49	75	8	8	3	-	4-6	7-8	1500
	Scilly (St.Mary's)	1016·7	+2·2	WN	5	c	50	75	7	5	7	-	4-6	9+	1500
	Guernsey ...	1013·8	+2·8	WNW	5	c	48	75	7	8	3	-	7-8	9+	2500
6	Pembroke ...	1013·4	+1·6	NW	5	q	47	92	8	5	2	-	4-6	9+	2500
7	Holyhead ...	1007·6	+2·4	NNW	6	c	45	75	8	2	1	8	Tr	9+	2500
	Chester(Sealand)	1007·1	+3·0	WNW	7	c	44	65	8	8	7	8	4-6	7-8	2500
8	Manchester ...	1005·3	+2·2	WNW	5	c	42	85	7	8	3	6	4-6	7-8	2500
10	Spurn Head ...	1000·8	+2·2	WNW	7	q	43	75	7	8	6	6	2-3	4-6	4000
	Catterick ...	1002·5	+2·6	WNW	4	bc	42	65	8	8	7	9	2-3	4-6	1500
	Tynemouth ...	1000·8	+2·8	WNW	3	bc	41	65	7	2	-	1	2-3	2-3	2500
11	St Abbs Head ...	999·9	+3·0	NW	4	bc	39	75	8	2	4	2	2-3	4-6	2500
	Leuchars ...	1000·4	+3·0	WNW	5	b	40	55	9	2	-	-	Tr	Tr	4000
12	Renfrew (Abbotsl.)	1004·4	+4·2	NNW	4	bc	40	75	8	2	3	8	1	2-3	2500
	Eskdalemuir ...	1002·5	+3·4	WNW	5	bc	37	75	8	5	-	6	2-3	2-3	2500
	Point of Ayre...	1005·6	+3·0	NW	6	c	42	85	7	8	1	9	2-3	7-8	800
13A	Tiree														
13B	Stornoway ...	1000·6	+1·6	WNW	4	bc	40	65	8	8	-	3	4-6	4-6	2500
15	Dalwhinnie ...	1002·9	+2·8	W	4	bc	31	85	8	4	6	-	2-3	4-6	4000
	Aberdeen ...	998·6	+1·0	NW'N	4	b	37	65	8	3	-	-	Tr	Tr	2500
	Wick ...	996·8	+3·6	NW	6	c/ps	33	85	8	8	1	1	4-6	7-8	1500
16	Lerwick ...	990·6	+3·2	NW	6	c/phr	32	92	8	9	-	-	7-8	7-8	800
17	Blacksod Point	1009·7	+1·8	W	2	c	46	75	8	8	-	-	10	10	800
18	Malin Head ...	1005·5	+1·8	NW	5	c	43	75	7	8	1	-	4-6	9	800
	Aldergrove ...	1007·3	+2·2	WS	4	c	41	75	7	5	-	7	2-3	10	4000
19	Birr Castle ...	1011·2	+1·8	WSW	1	c	45	75	8	5	-	-	10	10	2500
20	Valentia Obsy. †	1014·6	-2	WN	3	r.r.	46	85	7	6	2	-	4-6	10	1500
	Roches Point	1013·7	+1·2	W	3	c	48	85	8	6	7	-	2-3	9	1500

OBSERVATIONS at 18h. G.M.T. 30th January

District	Stations. (For heights see p. 4.)	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)	1011·4	+2·2	WSW	3	z.	42	65	6	5	-	8	2-3	4-6	2500	1	*
	Croydon ...	1011·4	+2·4	NW'W	4	c	43	65	6	3	-	8	2-3	7-8	4000	1	*
	S. Farnborough	1011·7	+2·8	W.N	4	c	42	75	8	-	4	2	0	9	-	1	*
	Boscombe Down	1012·7	+2·2	W.N	3	c	41	75	7	5	7	7	4-6	10	4000	1	*
	Calshot (Sthmtn.)	1013·2	+1·4	W'S	3	c	43	75	8	5	3	-	4-6	7-8	4000	1	2
	Lympne ...	1010·9	+2·8	WNW	4	z.	40	65	6	-	2	2	0	7-8	-	1	§ 2
	Manston ...	1009·7	+2·6	WNW	4	bc	41	75	7	5	-	6	1	4-6	2500	1	*
2	Shoeburyness ...	1009·8	+3·0	W.N	4	c	41	75	6	4	7	7	1	10	2500	1	*
	Felixstowe ...	1008·6	+3·0	W	4	bc	41	75	7	5	7	8	2-3	4-6	2500	1	2
	Gorleston ...	1006·9	+3·0	W	4	bc	40	75	7	6	-	-	2-3	2-3	2500	1	3
	Mildenhall ...	1008·7	+3·2	W.N	4	bc	39	85	7	5	-	-	1	1	4000	1	*
	Cranwell ...	1008·7	+3·0	W'S	3	z.	37	85	6	-	4	3	0	4-6	-	1	*
3	Birmingham ...	1011·3	+2·2	W	2	c	41	65	6	-	7	-	0	9	-	1	*
	Upper Heyford	1011·1	+2·4	WNW	5	c	40	75	7	5	7	6	4-6	7-8	2500	1	*
4	Ross-on-Wye	1011·8	+2·0	W'S	3	c	43	65	8	5	7	-	1	9+	2500	1	*
5	Bristol ...	1012·6	+1·0	W'N	4	c	43	75	7	5	7	-	2-3	9	4000	1	*
	Portland Bill ...	1013·4	+2·0	NW	3	c	47	85	8	4	4	-	4-6	10	2500	1	4
	Plymouth ...	1014·5	0	W	2	jp	48	75	6	5	7	-	4-6	9	2500	1	1
	The Lizard ...	1015·3	0	W'S	5	pr.	47	85	8	5	2	-	9	10	2500	1	3
	Scilly (St.Mary's)	1015·5	-·4	WSW	4	id.	47	92	6	5	-	-	10	10	1500	1	3
	Guernsey ...	1015·7	+·6	WNW	4	0	48	75	7	5	-	-	10	10	4000	1	4
6	Pembroke ...	1011·9	-·2	W.N	5	pr	48	92	7	5	2	-	7-8	10	2500	1	3
7	Holyhead ...	1009·7	+·8	WSW	3	c	45	75	8	5	2	-	9	10	4000	1	3
	Chester(Sealand)	1010·1	+2·4	W	3	c	43	75	7	5	2	-	7-8	10	4000	1	*
8	Manchester ...	1009·2	+2·2	WNW	3	pr.	39	92	6	8	7	-	4-6	10	1500	1	*
10	Spurn Head ...	1006·4	+3·8	WNW	5	bc	40	75	6	-	2	-	0	2-3	-	0	4
	Catterick ...	1007·1	+2·0	W	3	bc	37	75	8	-	2	6	0	4-6	-	1	*
	Tynemouth ...	1005·7	+3·2	W	3	bc	38	65	6	2	-	2	2-3	4-6	1500	1	2
11	St Abbs Head ...	1004·2	+1·6	W	4	bc	36	75	7	4	4	1	2-3	4-6	2500	0	2
	Leuchars ...	1003·6	+2·4	WSW	2	bc	33	75	8	4	2	8	Tr	4-6	4000	1	*
12	Renfrew (Abbotsl.)	1005·2	-1·2	W	3	c	36	85	8	4	1	7	Tr	10	4000	1	*
	Eskdalemuir ...	1006·5	+2·4	SWS	2	bc	33	85	8	5	-	-	4-6	4-6	1500	1	*
	Point of Ayre...	1008·0	+1·8	N	1	c	41	85	7	8	1	-	4-6	10	2500	1	2
13A	Tiree																
13B	Stornoway ...	1000·7	-·2	SSW	3	c	36	92	8	5	1	-	4-6	10	2500	1	2
15	Dalwhinnie ...	1004·5	+·6	SW	4	c	30	85	8	4	1	-	2-3	9	4000	7	*
	Aberdeen ...	1002·2	+2·0	WS	3	bc	33	75	7	-	-	6	0	4-6	-	3	1
	Wick ...	999·3	+1·2	W	3	c/ps	32	85	8	9	1	-	7-8	9	800	3	2
16	Lerwick ...	994·6	+1·0	NW	5	c	34	75	8	8	7	-	7-8	10	1500	4	*
17	Blacksod Point	1005·0	-2·8	S	3	rr	46	97	7	6	-	-	10	10	220	1	3
18	Malin Head ...	1004·3	-1·6	W.S	3	c	42	92	7	5	-	-	9+	9+	1500	1	4
	Aldergrove ...	1006·9	-·4	SWS	3	c	40	85	7	5	7	-	4-6	9+	4000	1	*
19	Birr Castle ...	1009·5	-·4	WSW	1	ir.	45	92	7	5	-	-	10	10	2500	1	*
20	Valentia Obsy. †	1011·1	-1·8	SW	4	dd	51	92	6	5	-	-	10	10	800	1	4
	Roches Point	1011·8	-1·8	W.S	3	ir.	47	97	8	6	2	-	4-6	9+	1500	1	3

PAST 24 HOURS.

District	Stations. (For heights see p. 4.)	Weather. 7h.—13h. 30th... (37)	Weather. 13h.—18h. 30th.... (38)	Weather. 18h. 30th to 1h. 31st... (39)	Weather. 1h.—7h. 31st... (40)
1	London (Kew)	bc.c z.	bc z.	bc z.	cr.r.c
	Croydon ...	c r.m. ⊕	c z. pr. ⊕	bc z. cr.	cr.d.m.
	S. Farnborough	c b c c y	c y bc	c b. c i. d. r.	c.d.d.
	Boscombe Down	b. pr. q. pr.	bcc	cr. c r.	cr. c r. r.
	Calshot (Sthmtn.)	c i r. c	bcc	c. b. c i r.	c. r. r. c
	Lympne ...	r. bc c z.	c z.	bc b x c	c i r f d.
	Manston ...	r. bc c m.	c m. bc	bb m.	o d. r.
2	Shoeburyness ...	c r. r. c	c l r. m. c	c bb c m.	bc c r.
	Felixstowe ...	c, b	bc	bc b	b c r. c
	Gorleston ...	c phr. bc	bc q	bc b z. x	c r. r. q
	Mildenhall ...	c, b m. bc	bc b	b x	b c r. d d c
	Cranwell ...	c m. bc c	c pr. bc	bc c m. r.	c m. r. r. c
3	Birmingham ...	bc pr.	phr bc q	c o r	c r.
	Upper Heyford	c b c p r. c	c p r c	c b c c	c d. d. c
4	Ross-on-Wye	c b c c	c	c c d.	d. c
5	Bristol ...	c p. q	c p. c	c r.	c r. d.
	Portland Bill ...	c	c	o p r.	c p r
	Plymouth ...	c q pr. bc	b c y c	c r. r. m.	c r. r. m. c
	The Lizard ...	q bcc	c p. c	c p r f m	o p r. c
	Scilly (St.Mary's)	r c p. c	c i r. i d.	o i d. m c	c p. i d.
	Guernsey ...	b c q c	c o	o d.	o d. i r
6	Pembroke ...	bc c q	q pr. c	c p r. m. q c	c i d q
7	Holyhead ...	c ⊕	c	c r. o c	c r.
	Chester(Sealand)	c PR	c ⊕	c r.	c b c
8	Manchester ...	b c c PRS	c p h PRm.	c p r. r. c	c r r c
10	Spurn Head ...	b c q c	c q b c	b c z. o	o d r c
	Catterick ...	b c b b c	b c c b c	b c c c	c r r c
	Tynemouth ...	b c	b c	b c c	o i r c
11	St Abbs Head ...	b c	b c	r r c	r r c q
	Leuchars ...	b x b q v	b q v y ⊕	b c c r r	m r. o c
12	Renfrew (Abbotsl.)	b c x p r. o	b c c	c m. r r	c r r. r
	Eskdalemuir ...	b c p s. o b c	b c	b c c s r r	c r d d
	Point of Ayre...	P H R c	c p r c	r r c	d d c
13A	Tiree				
13B	Stornoway ...	b c p h. y	b c c p h r.	c r r	r. r. o
15	Dalwhinnie ...	c i s	c i s o		c R r
	Aberdeen ...	b c p s. b	c p s. b c	b c c r	r r b c
	Wick ...	c p s h q	c p h s	p h s d.	R s r r
16	Lerwick ...	c p h s q	c p s h	b c c	c r
17	Blacksod Point	c	r r	i r c	i r c q
18	Malin Head ...	c	c	c r r o D d c	c
	Aldergrove ...	p r. b c c	c	c o r r. r.	c i r.
19	Birr Castle ...	c	c i r.	c i r.	c i r.
20	Valentia Obsy. †	p. r. r. o	r r. d d	d d c i d. c	c i d.
	Roches Point	b c c	c i r.	c i r. c	c i d.

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and 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 1/20 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 As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac 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 Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 . . Ground dry.
1 . . „ wet.
2 . . „ flooded.
3 . . „ frozen hard and dry.
4 . . „ partly covered with snow or hail.
5 . . „ covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . „ covered with snow, less than 6 ins., deep but ground not frozen.
8 . . „ covered with snow, less than 6 ins., but ground frozen.
9 . . „ covered with snow greater than 6 ins. deep.

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

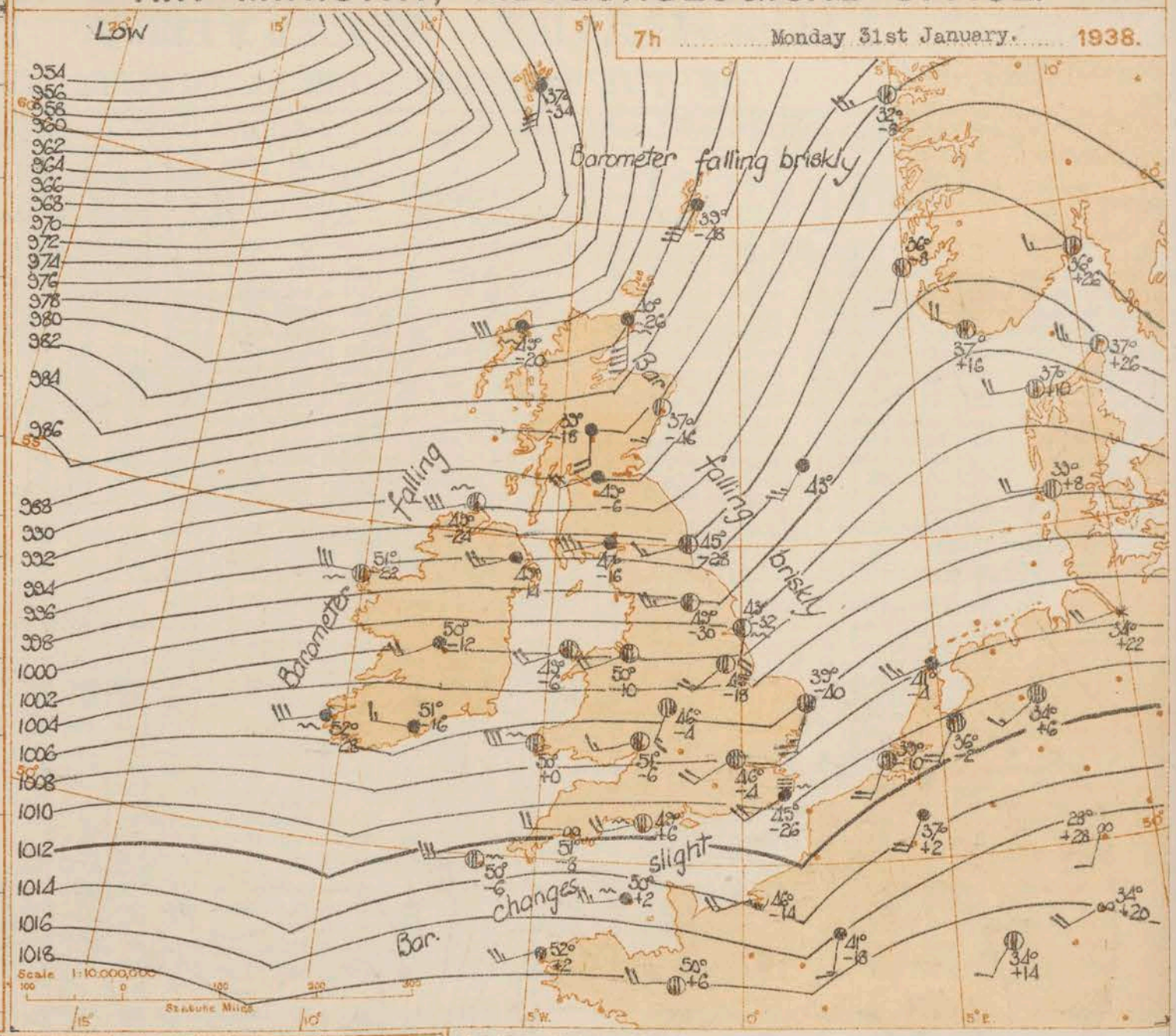
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 30th January 1938.

Districts	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature (°F.) Min. 9h. 29th. to 9h. 30th.	Temperature (°F.) Max. 9h.—17h. 30th.	Rainfall (mm.) Night. 17h. 29th. to 9h. 30th.	Rainfall (mm.) Day. 9h.—17h. 30th.	Sunshine, hrs. Sunrise to Sunset. 30th.
1	Tunbridge W.	c	c	37	45	5	-	1·0
	Bournemouth	bcbc	cbc	42	48	Trace	-	2·3
	Ventnor ...	cob	bpoc	41	48	-	1	2·8
	Southsea ...	b	b cc	41	47	1	-	2·9
	Bognor Regis	bcbc	bcbc	40	47	5	-	2·7
	Littlehampton	bc	bcc	40	48	8	-	3·1
	Worthing ...	bcb	bbcc	40	48	6	-	2·7
	Brighton ...	cbc	c	40	49	4	-	3·2
	Eastbourne† ...	c	cbc	40	49	6	-	2·4
	Hastings† ...	bcbc	bcbcc	38	50	11	-	3·4
	Folkestone ...	bbcc	cbbc	37	45	8	-	2·7
	Dover ...	cbcc	cbc	38	48	11	-	2·3
	Deal	cbco	coc	38	44	4	-	1·8
	Ramsgate ...	bc	bc	39	44	6	-	4·6
	Margate ...	bc	cbc	38	44	8	-	2·5
2	Southend ...	bbcc	cbc	37	45	4	-	2·9
	Clacton-on-Sea	bcc	cbc	35	44	11	-	4·6
	Dovercourt ...	rbc	bc	34	42	12	-	5·7
	Lowestoft ...	b	bbcpb	35	43	2	-	5·4
	Skegness ...	b	bcb	36	45	1	-	6·4
	Mablethorpe ...	bcb	bc	35	45	-	-	6·1
	Cleethorpes ...	bc	bc	36	44	-	-	6·7
3	Leamington S.	oc	pc	37	45	10	0·1	1·4
4	Cheltenham†	bcc	c	37	47	3	-	2·7
5	Bath	cbcpo	bcc	40	47	1	Trace	1·7
	Weymouth ...	cio	c	42	49	0·2	-	1·8
	Jersey ...	cbc	bcc	45	50	4	Trace	0·4
	Torquay ...	bcqcp	bcqbc	44	50	2	0·2	2·8
	Falmouth	ocvco	coi·g	45	51	5	Trace	1·0
	Penzance ...	qcbcc	cir·	46	51	5	0·3	0·2
	St. Ives ...	rc	p	41	48	2	0·5	1·2
	Bude... ...	o	c	43	49	5	-	0·1
	Ilfracombe ...	orro	cbcco	44	51	4	-	0·5
6	Aberystwyth	p"c	c	42	48	4	-	0·1
7	Llandudno ...	ebc	c	40	45	10	-	1·2
	Colwyn Bay...	cbcc	cbcc	39	46	11	-	0·2
	Rhyl	qc	cphr.	39	47	18	Trace	0·9
8	Wallasey ...	pc	bcc	37	45	12	Trace	2·0
	Southport ...	bcqp	bc po	37	44	8	0·4	1·0
	Blackpool ...	cpmc	epom	38	43	5	1	0·7
	Morecambe ...	hsrbc	brbcc	38	42	1	4	0·7
9	Ilkley... ...	bcpc	bc	34	44	0·6	Trace	5·2
	Harrogate ...	b	bbcc	40	43	0·1	-	6·7
10	Berwick-on-T.	bcb	bc	34	41	-	-	6·4
11	Dunbar ...	bcm.x	bcm.	33	41	-	-	5·1
12	Troon... ...	cbccb	cpcbc	37	42	1	-	2·6
	Douglas ...	bcir	bc	37	43	6	-	2·7

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
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 January, 1938.
1 S.E. England	Moderate southwest to west winds, veering and freshening later; cloudy with occasional slight local rain or drizzle at first, fairer periods with squally showers later; rather mild.
2 E. England ...	
3 E. Midlands ...	Moderate to strong southwesterly winds, stronger locally at first, veering later; cloudy with slight occasional rain at first, fairer periods later with local thundery squally showers; rather mild, becoming temporarily cooler.
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	
7 North Wales ...	Westerly to northwesterly winds, gale at times locally; cloudy with occasional rain at first, squally thundery rain later; rather mild at first, becoming temporarily cooler later.
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. Scotland, B.N.W. Scotland.	Westerly winds, strong to gale; occasional rain at first, sleet, snow or hail later with perhaps local thunder; becoming cooler.
14 Mid Scotland	
15 N. E. Scotland	
16 Orkney and Shetland	
17 N. W. Ireland	As 7 - 12.
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

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

GENERAL INFERENCE.

A deep depression centred to the south of Iceland will move slowly northeastwards. Weather will continue unsettled generally with rain at times in most areas.

FURTHER OUTLOOK.

Unsettled.

Times of issue of Gale Warnings.

South Cone hoisted at 2315 on 30th in districts 13A, 13B, 17 and part of 16 and 18.

South Cone hoisted at 0215 on 31st in districts 11,15, remainder of 16 and 18 and part of 12, and at 0830 on 31st in districts 6,7,8,19,20 remainder of 12, and part of 5 and 10.

Forecasts issued at 1000 G.M.T.

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

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

Hours of observation :—Azores, Greenland, Ships, 0h. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h. local time.

Morning of

MONDAY 31ST JANUARY.

1938.

Clarke's Projection Scale 1·4 x 10⁷ along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 31st January, 1938.
No. 27829.

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)	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	1012·3	-6	SW'S	3	r̥r̥	41	85	7	-	2	-	0	10	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1013·6	+2	WSW	2	c	37	85	6	-	1	-	0	10	-
	Manston ...	142	1012·7	+6	WSW	3	b	37	85	7	-	-	-	0	0	-
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1010·1	0	SW'S	3	b	33	85	6	-	-	-	0	0	-
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1011·7	-14	WSW	3	pr̥	47	92	7	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1013·3	-2	W'S	5	0	50	97	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1015·7	+2	W	6	c	50	97	6	5	-	-	10	10	1500
	Guernsey ..	175	1015·3	-14	SW	3	d̥d̥	47	97	4	5	-	-	10	10	1500
6	Pembroke ...	142	1008·6	-10	W'N	6	q	49	97	7	5	-	-	10	10	2500
7	Holyhead ...	26	1003·3	-32	SW	5	c/r	47	97	7	5	2	-	4-6	10	220
	Chester(Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1007·7	+2	SW	3	0	38	85	5	5	-	-	10	10	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1003·6	-44	SW	3	0	37	85	6	5	-	-	10	10	800
11	St. Abbs Head . .	280	1000·6	-32	SSW	4	rr	34	97	8	5	2	-	7-8	10	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1001·9	-36	SW	3	c	42	92	7	8	1	-	7-8	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	988·8	-20	SSE	7	rr	40	97	6	5	2	-	7-8	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	994·9	-24	SSW	4	d̥d̥	36	85	8	5	2	-	7-8	10	1500
16	Lerwick ...	156	993·5	-16	SSW	4	c	36	85	8	8	2	-	7-8	10	800
17	Blackrod Point	18	1002·2	-8	WSW	4	ir	50	97	6	6	-	-	10	10	220
18	Malin Head ...	84	995·3	-50	W	5	d̥d̥	49	97	5	3	-	-	9+	9+	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. ‡	30	1008·7	-4	SW	4	0	51	97	6	3	-	-	10	10	800
	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)	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	-8	SW	3	z̥	46	92	6	5	-	-	9+	9+	1500	1	*
	Croydon ...	1008·9	-4	SW'W	4	c	46	97	7	5	-	-	9+	9+	4000	1	*
	S. Farnborough	1008·4	-6	SW'W	4	dd	47	92	5	5	-	-	9	9	2500	1	*
	Boscombe Down	1008·9	0	SW'W	8	r̥r̥	47	97	6	6	2	-	9	10	220	1	*
	Calshot (Sthmtn.)	1010·5	+2	SW	4	c	48	97	8	5	7	-	4-6	9+	2500	1	2
	Lympne ...	1009·3	-26	SW'S	4	df	45	97	2	-	-	-	10	10	<150	1	$4
	Manston ...	1008·4	-22	SW	4	d̥d̥	44	92	6	6	-	-	10	10	800	1	*
2	Shoeburyness...	1007·1	-22	SSW	4	c	45	92	7	5	3	-	4-6	9	1500	1	*
	Felixstowe ...	1007·1	-24	S'W	4	c/r	42	92	6	5	2	-	7-8	10	1500	1	3
	Gorleston ...	1005·9	-40	SW	5	o/r	39	97	6	6	-	-	10	10	1500	1	3
	Mildenhall ...	1005·0	-18	SW'S	4	c/d	44	97	8	5	7	-	4-6	9+	800	1	*
	Cranwell ...	1003·0	-18	SW'S	4	c	45	97	6	5	3	-	7-8	9+	2500	1	*
3	Birmingham ...	1004·9	-4	SSW	3	o	46	92	7	6	-	-	10	10	800	1	*
	Upper Heyford	1006·8	-6	SW'S	4	id̥	46	97	6	5	-	-	10	10	450	1	*
4	Ross-on-Wye	1006·1	-6	SWW	3	c	51	75	8	5	-	-	9+	9+	2500	1	*
5	Bristol ...	1007·9	-6	W	5	id̥	48	97	6	6	2	-	9+	10	800	1	*
	Portland Bill ...	1009·4	+6	WSW	4	c	49	92	7	4	-	-	10	10	2500	1	4
	Plymouth ...	1011·5	-8	W	4	z̥	51	92	6	5	-	-	10	10	1500	1	1
	The Lizard ...	1012·7	0	WSW	5	c	49	97	7	5	2	-	9+	10	1500	1	3
	Scilly (St. Mary's)	1012·6	-6	W'S	6	c/d	50	92	7	5	7	-	7-8	9+	1500	1	4
	Guernsey ..	1014·4	+2	WSW	5	d̥d̥	50	97	6	5	-	-	10	10	1500	1	4
6	Pembroke ...	1006·5	0	W'S	6	q	50	97	7	8	-	-	9+	9+	1500	1	4
7	Holyhead ...	1001·9	-6	SW'S	4	bc	49	92	7	5	3	-	4-6	7-8	4000	1	3
	Chester(Sealand)	1001·8	-10	SW	4	c	50	85	7	5	4	-	4-6	7-8	4000	1	*
8	Manchester ...	1001·2	-8	SW'S	2	z̥	49	85	6	5	-	-	9+	9+	2500	1	*
10	Spurn Head ...	1000·4	-32	SSW	4	c	43	97	6	5	-	-	9	9	1500	1	4
	Catterick ...	996·6	-30	WSW	5	c	49	85	7	5	-	-	9+	9+	1500	1	*
	Tynemouth ...	994·6	-28	SW	3	c/r	45	92	7	9	-	-	7-8	7-8	800	1	2
11	St. Abbs Head . .	990·8	-40	W	6	c	45	92	7	8	3	2	4-6	7-8	2500	1	3
	Leuchars ...	989·1	-28	WNW	8	c	40	92	7	5	-	-	7-8	7-8	1500	1	*
12	Renfrew (Abbotsl.)	993·6	-6	WSW	4	r̥r̥	49	97	5	6	2	-	7-8	10	800	1	*
	Eskdalemuir ...	993·3	-16	NSW	7	dd	47	92	7	6	-	-	10	10	800	1	*
	Point of Ayre...	997·4	-4	W	6	c	49	92	7	8	1	-	9	10	800	1	4
13A	Tiree																
13B	Stornoway ...	982·2	-20	SW	6	r̥r̥	49	97	6	5	2	-	7-8	10	1500	1	4
15	Dalwhinnie ...	989·6	-18	S	4	RR	39	97	6	6	-	-	10	10	1500	6	*
	Aberdeen ...	987·1	-46	SSW	3	bc	37	92	7	-	4	2	0	4-6	- ·	1	2
	Wick ...	982·5	-26	S	8	rr	40	97	6	5	2	-	9	10	800	1	4
16	Lerwick ...	984·4	-48	SSW	6	rr	39	97	7	6	2	-	4-6	10	800	1	*
17	Blackrod Point	996·5	-22	W	6	q	51	92	7	9	-	-	10	10	800	1	5
18	Malin Head ...	991·0	-24	SWW	6	c	49	92	6	8	2	-	4-6	9	800	1	4
	Aldergrove ...	994·4	-14	SWW	5	ir̥	49	85	7	5	-	-	10	10	1500	1	*
19	Birr Castle ...	1002·1	-12	SW	4	ir̥	50	92	7	5	-	-	10	10	2500	1	*
20	Valentia Obsy. ‡	1004·8	-28	SWW	6	id̥	52	92	6	5	-	-	10	10	800	1	4
	Roches Point	1005·6	-16	W	3	id̥	51	92	8	5	-	-	7-8	7-8	1500	1	3

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F.	Min. Night 18h–7h °F	Min. on Grass °F.	Rainfall. Day 7h–18h mm.	Rainfall. Night 18h–7h mm.	Sunshine from Hrs. (36)
1	London (Kew)	46	33	33	-	0·2	1·3
	Croydon ...	46	33	33	0·1	0·5	0·5
	S. Farnborough	47	38	30	-	0·5	2·1
	Boscombe Down	45	38	34	0·1	2	2·6
	Calshot (Sthmtn.)	47	41	37	Tr	0·3	3·9
	Lympne ...	43	34	27	0·1	1	2·4
	Manston ...	44	44	30	Tr	0·2	2·9
2	Shoeburyness...	45	37	29	Tr	1	2·5
	Felixstowe ...	43	37	32	-	1	5·7
	Gorleston ...	44	33	29	1	1	6·2
	Mildenhall ...	43	32	27	-	0·2	5·0
	Cranwell ...	43	33	27	Tr	0·3	3·6
3	Birmingham ...	44	38	37	0·6	2	1·6
	Upper Heyford	45	37	31	0·6	0·6	*
4	Ross-on-Wye	44	41	37	-	0·1	1·3
5	Bristol ...	45	41	38	Tr	0·2	0·4
	Portland Bill ...	49	46	*	-	1	*
	Plymouth ...	49	46	44	Tr	1	2·5
	The Lizard ...	49	45	*	0·1	1	1·2
	Scilly (St. Mary's)	50	45	*	1	1	0·0
	Guernsey ..	51	46	43	-	1	2·3
6	Pembroke ...	48	46	*	Tr	0·1	0·0
7	Holyhead ...	46	43	40	-	3	2·6
	Chester(Sealand)	45	40	37	0·2	0·5	1·8
8	Manchester ...	43	38	35	3	3	1·0
10	Spurn Head ...	43	36	*	-	1	6·7
	Catterick ...	43	34	28	-	1	7·0
	Tynemouth ...	42	35	32	-	2	6·1
11	St. Abbs Head . .	40	33	*	-	3	*
	Leuchars ...	40	31	24	-	3	6·0
12	Renfrew (Abbotsl.)	40	34	30	Tr	7	4·7
	Eskdalemuir ...	39	30	28	Tr	10	5·1
	Point of Ayre...	44	38	*	3	3	1·4
13A	Tiree						
13B	Stornoway ...	40	35	*	0·2	5	4·1
15	Dalwhinnie ...	32	28	23	0·4	7	3·4
	Aberdeen ...	37	32	27	Tr	6	5·8
	Wick ...	37	29	*	0·3	9	*
16	Lerwick ...	34	33	*	0·5	1	1·1
17	Blackrod Point	52	40	*	2	1	*
18	Malin Head ...	45	40	*	2	3	0·4
	Aldergrove ...	42	39	37	0·1	6	0·7
19	Birr Castle ...	47	43	*	Tr	1	0·0
20	Valentia Obsy. ‡	51	50	49	0·4	1	0·0
	Roches Point	48	44	*	0·3	0·5	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	bcm,cz̥	cbcz̥	bczr̥,c	46	39	33	-	0·2	1·3	*	*	6
Croydon	217	cr̥m̥ ⊕	cz̥pr̥ ⊕	bcz̥r̥d̥	46	39	35	0·1	0·5	0·5	*	*	6
Greenwich (Royal Observatory)...	149	c	cb	bcmdc	45	39	32	-	0·5	0·5	64	87	5
City (Bankhill Row)	—	*	*	*	*	*	*	*	*	0·3	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	47	41	32	0·6		0·5	65	93	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	49	40	35	-	0·6	0·5	75	93	*
Camden Square	110	bc	cbc	*	49	39	34	-	0·5	*	*	89	*
Kensington	80	bc	bcpy	*	49	40	31	0·2	0·4	0·6	At 18h. 65	90	*
Hampstead Observatory	450	bcb	bc	bcor	43	38	31	Tr	0·4	0·9	*	96	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 31st

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

Kew Observatory. Max.	Time.	Min.	Time.
0·3	20h 30th	<0·1	0–7h 31st

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.
Paris	1013·1	W	3	c	41	1016·2	S	3	r̥r̥	41
Brussels	1007·9	WSW	2	b	37	1013·2	SSW	4	id̥	37
Berlin	995·3	W'S	3	b	36	1009·6	W'N	4	c	36
Zürich						1022·4	SS W	2	c	34
Rome	998·7	SSE	2	c	46					

Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
48	37	1	Tr
41	34	3	-
41	34	0·3	-
	32		0·2
*	*	14	

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 3, 22 — Code for surface visibility.

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

COLUMN 30.—Code for State of Sea

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

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

GEORGE C. SIMPSON, K.C.B., D.Sc., F.R.S., Director.

† hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.