M.O. Form 2373

THE DAILY WEATHER REPORT

BRITISH SECTION

1st October to 31st December

1930.

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

INTRODUCTION

The new form of the British Section of the Daily Weather Report, which was introduced on March 1, 1930, differs from the old one chiefly in the inclusion of a weather map of the Northern Hemisphere, and in certain modifications of the data presented in tabular form on pages 1 and 4. The width of the page has also been increased.

A limited issue of copies of a synoptic chart of the greater part of the earth's surface north of latitude 40° N. commenced in 1923. This chart was found to be of considerable utility in the Office, in extending the period to which the forecasts relate beyond 24 hours, and of much interest to teachers and others outside the Office who study daily weather maps. The increasing demand for such information, and the improvement in international co-operation, have led to the incorporation of this chart of the Northern Hemisphere in the Daily Weather Report (British Section).

Attention may be directed to the circumstance that the observations presented on this chart are not synchronous. The observations for most of Europe (excluding Russia) and neighbouring countries refer to 7h. G.M.T., exceptions being:—Bulgaria (5h. G.M.T.); Austria, Hungary, Greece, Turkey, Egypt, Sudan, Cyprus, Palestine, Syria (6h. G.M.T.); Azores (8h. G.M.T.). The Greenland observations shown are those made at 0h. G.M.T. with the exception of those for Mygbugten, which are for 7h. G.M.T. while those shown for North America are made at 1h. G.M.T. Up to and including April 30, 1930, observations from ships on the Atlantic refer to 7h. G.M.T. if made east of meridian 40° W. and to 0h. G.M.T. if made west of that meridian. From 1st May the hour of observation for ships east of 40° W. has become 6h. G.M.T. while that for ships west of 40° W. has remained 0h. G.M.T.

Thus within each of the two sectors 40° W. to 170° W. and 30° E. to 40° W. the observations are approximately synchronous among themselves, though most of those in the western sector refer to an epoch six hours earlier than most of those in the eastern sector. The observations shown for Russia and Siberia are made at 7h. *local time*, which implies that the absolute time to which the observations refer varies over a wide range, viz., from 5h. G.M.T. in the longitude of Leningrad (35° E.) to 19h. G.M.T. *of the previous day* in longitude 180° E.

The inclusion of the Northern Hemisphere chart in the British Section of the Daily Weather Report has both necessitated and justified the reduction in the area covered by the chart of the British Isles and neighbouring regions (page 2) and has led to the omission of two small charts. In order to minimize the loss of the isallobar chart the barometric tendency has been entered on the chart for the British Isles.

The changes in the tabular matter have been necessitated by the use, as from March 1, 1930, of the new codes for meteorological telegraphy which were adopted at the meeting of the International Conference of Directors of Meteorological Services in Copenhagen during September, 1929. The columns of pages 1 and 4 affected are those containing data of barometric tendency, cloud form and amount, state of ground and state of sea. An explanation of the method of presentation of these and other data is to be found on the lower part of pages 1 and 4. The list of stations has been increased by the inclusion of Aldergrove (County Antrim), Cardington (Bedfordshire) and Manston (Kent).

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 Land Stations.	Limits of Mean Velocities Statute Miles per Hour.
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.

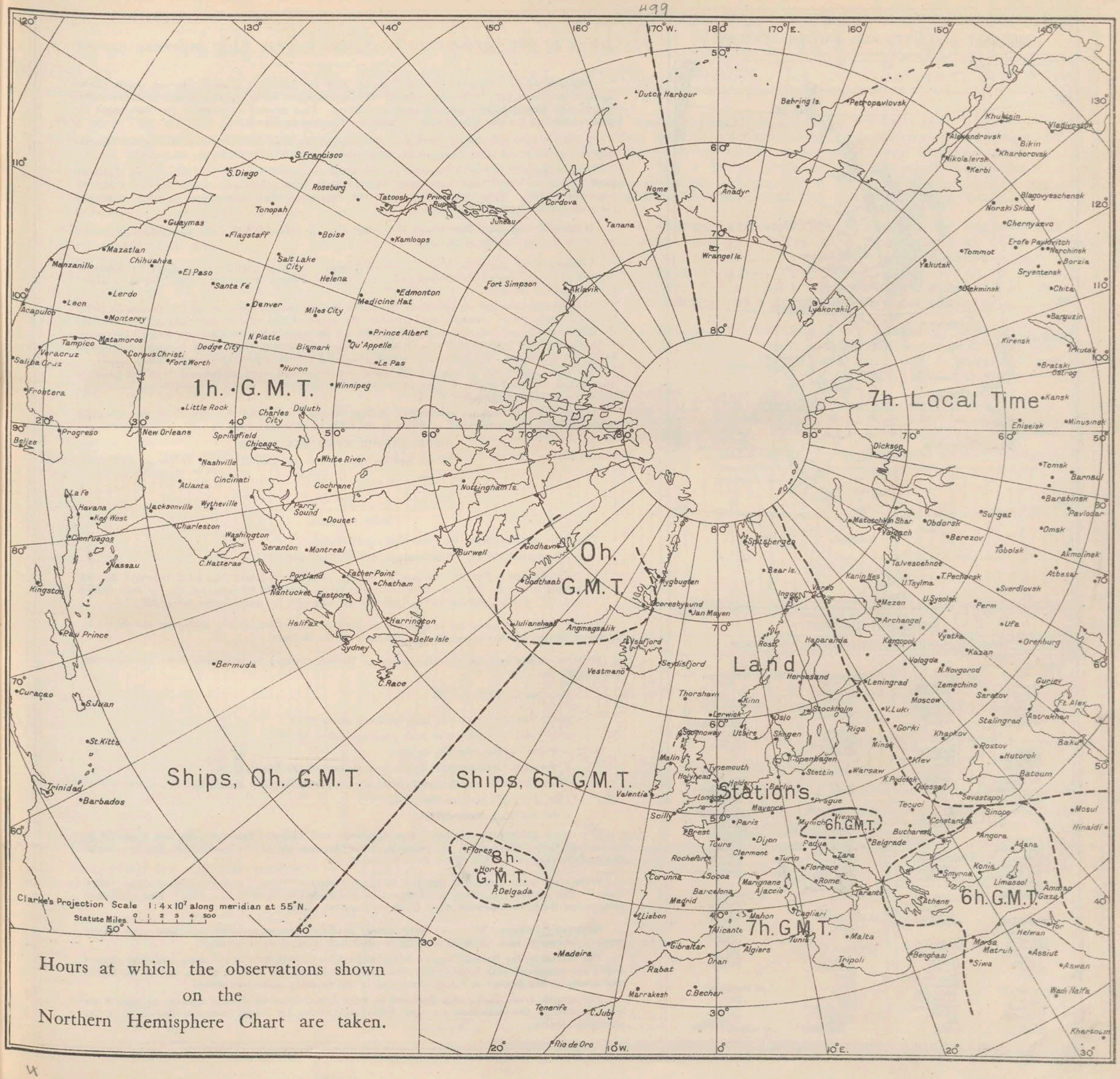
For gales commencing from East or West the North Cone will be hoisted if the gale is expected to change to a Northerly direction.

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

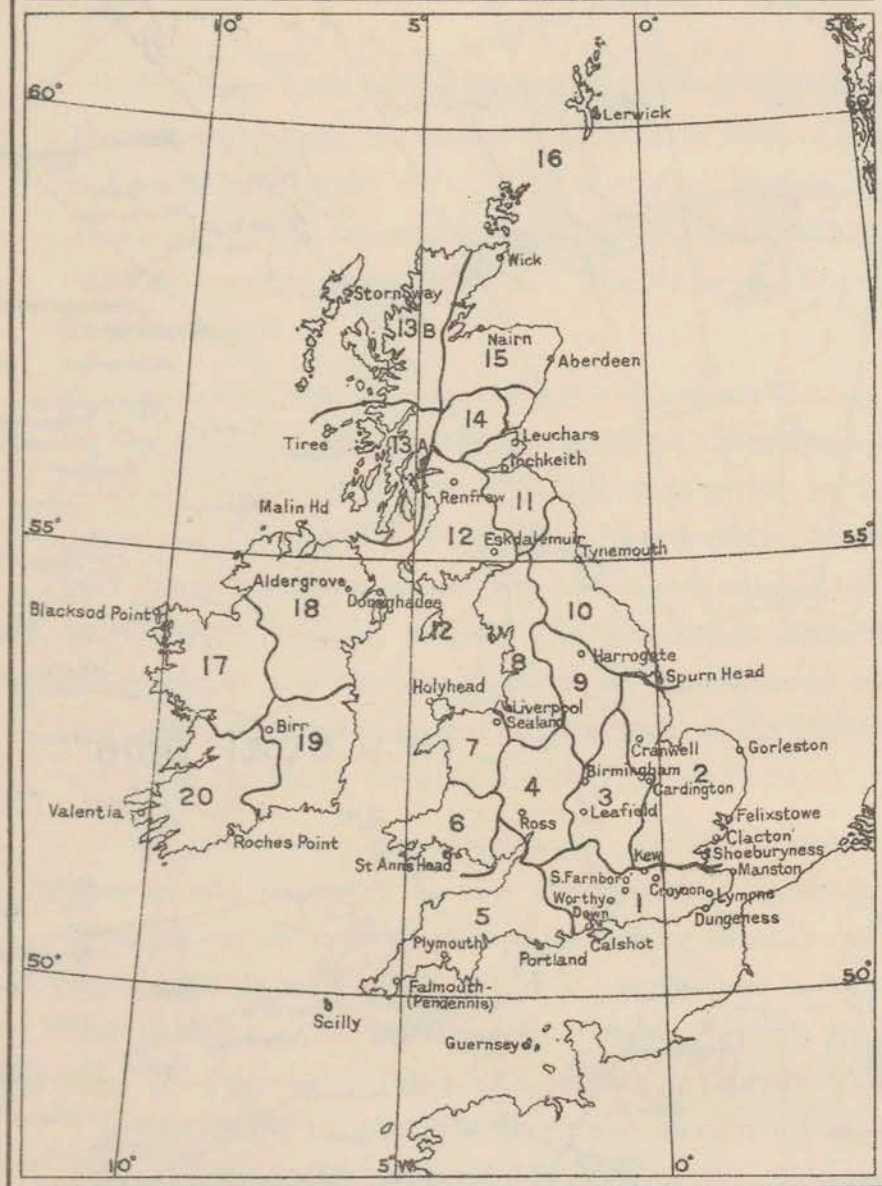
For gales commencing from East or West the South Cone will be hoisted if the gale is expected to change to a Southerly direction.

The districts to which warnings are sent are shown in the report by the following symbols:—

▲ North Cone hoisted ▼ South Cone hoisted


1h. G.M.T.
7h. Local Time
Oh. G.M.T.
Land
Ships, Oh. G.M.T.
Ships, 6h. G.M.T.
Stations
8h. G.M.T.
6h. G.M.T.
7h. G.M.T.
6h. G.M.T.
Clarke's Projection Scale 1:4x10⁷ along meridian at 55°N.
Statute Miles 0 1 2 3 4 500
Hours at which the observations shown on the Northern Hemisphere Chart are taken.

FORECAST DISTRICTS AND BRITISH STATIONS



FORECAST DISTRICTS

and the Counties comprised within them.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

14. *Mid. Scotland.*
    Perth.

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

16. *Orkneys and Shetlands.*

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

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

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

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

NOTES ON THE INFORMATION CONTAINED IN THE DAILY WEATHER REPORT.

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

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

Stornoway.—Telegraphic reports are no longer received from the old Station at Matheson Road. Reports from the Coastguard Station have been published in the Report from 7th September, 1930 From the 2nd July to 6th September the observations at 0700, 1300 and 1800 were made at the Butt of Lewis

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

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

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

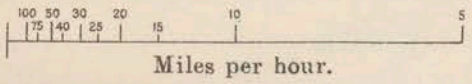
The scale below can be used to determine the theoretical wind as deduced from the pressure distribution on either chart. On the assumption that the path of the air is straight this theoretical wind is called the Geostrophic Wind.

If the distance between consecutive isobars is measured along the rule 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 × 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 pressure at the temperature of the dry bulb;

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

t the dry bulb temperature; and

t' the wet bulb temperature.

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

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

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

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

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

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

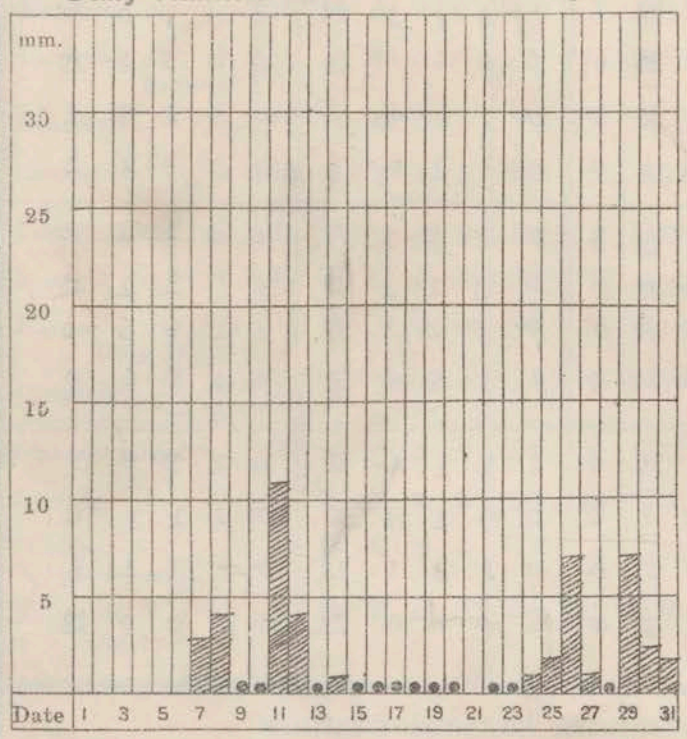
MONTHLY SUPPLEMENT, DECEMBER, 1930. No 168

Notes on the weather of December, 1930.

A lengthy period of mainly foggy weather in many parts of England, from the beginning of the month to Christmas Eve, gave December the distinction of being the foggiest month for at least two years. During the first week a persistent ridge of high pressure across the country connecting an European anticyclone with the Azores system gave quiet, dull and dry weather. Fog in the north on the 2nd became general from the 4th - 6th, and kept the day temperature below the freezing point locally in England on the 6th. The slow advance of a trough of low pressure from the Atlantic preceded a period of changeable weather until the 13th. Rain fell at times in most places but there were also periods of welcome sunshine. Snow fell in the Midlands on the 9th, and was followed at night by a very sharp frost throughout the country, and a temporary return of the fog in some parts. Strong winds and general heavy rain were associated with the passage of a secondary depression across the country on the 11th. East and Southeast England enjoyed a very sunny day o n the 14th. Although a new Icelandic depression and its associated trough gave heavy rain locally in the west on the 15th, anticyclonic conditions were being rapidly re-established. Fog became widespread and persistent over the major part of England and in parts of Scotland. The fog in and around London on the 22nd was one of the most dense of recent years and caused serious dislocation of all transport services. From the 16th - 22nd rainfall, usually small in amount, was practically confined to the northwest [illegible] of the country, while in the west some good sunshine records were obtained. Subsequently to the 23rd depressions of increasing intensity approached or crossed the country from the Atlantic bringing generally unsettled and stormy weather. The Christmas period was mainly mild with rain at times although some snow fell in parts of Eastern England on the 26th. Gales occurred generally in the west and north on the 26th and 27th and over southern districts on the night of the 28th; 78 m.p.h. was registered in a gust at Tiree on the 27th, 68 m.p.h. at Scilly on the 28th, and 64 m.p.h. at Liverpool on the 29th. Rainfall was heavy in the west and north on the 28th when Colwyn Bay reported 35mm.

The month was mainly mild with a general lack of sunshine: rainfall showed no great departure from the normal.

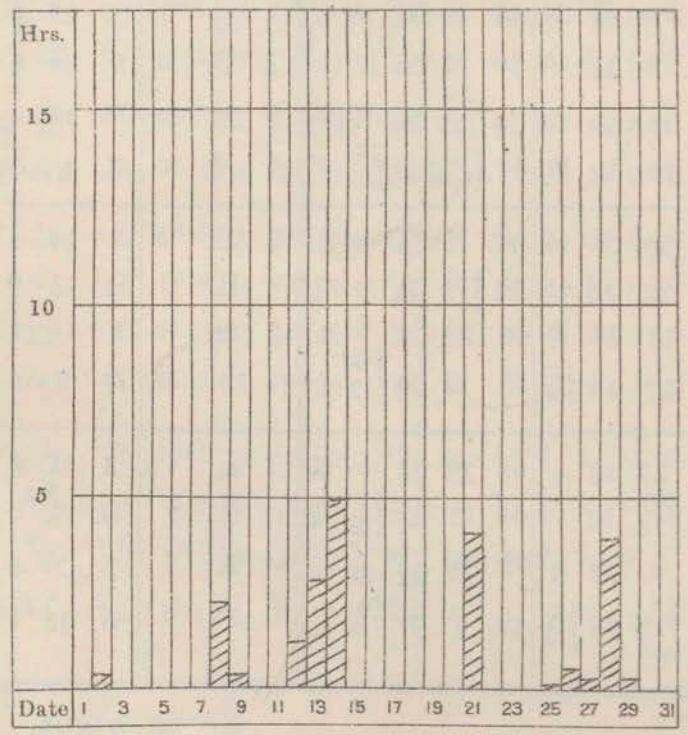
Daily Rainfall at KEW Observatory.



•=Less than 0·5 mm.

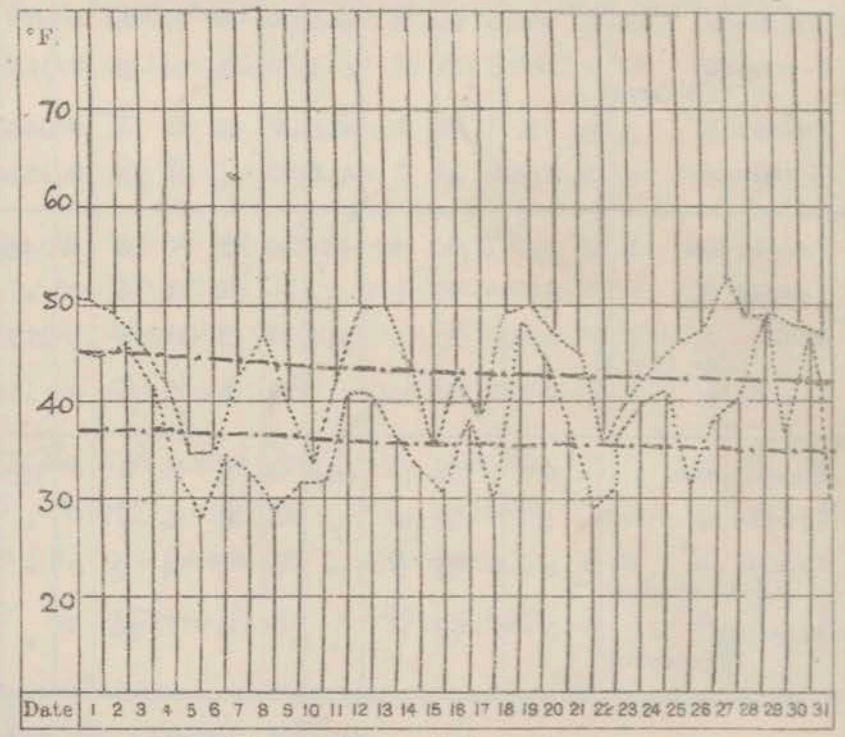
RAINFALL. Total for Month. 46 mm.

Daily Sunshine at KEW Observatory.



SUNSHINE. Total for Month. 22 hrs.

Daily Range of Temperature at KEW Observatory.



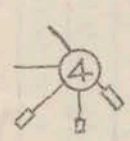
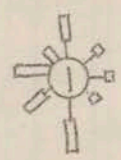
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.*

Stations.	PRESSURE Mean	PRESSURE Difference from average	TEMPERATURE Mean	TEMPERATURE Difference from average
	mb.	mb.	°F.	°F.
Aberdeen	1006·9	0	40·1	+1·5
Valentia	1010·6	−0·1	46·1	+0·5
Kew	1012·6	−1·1	40·9	+0·5

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

WIND FREQUENCIES AT 7 hr.

Aberdeen	Valentia	Kew
		
4	1	5

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

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

	miles.
Lerwick	17,128
Aberdeen	5,529
Valentia	5,555
Kew	4,331

SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

†TEMPERATURE.

Number of daily readings within fixed limits.

Stations.	Maximum. 32° or below	33° – 41°	42° – 50°	51° – 59°	Normal Max. °F.	Minimum. 23° or below	24° – 32°	38° – 41°	42° – 50°	51° – 59°	Normal Min. °F.
‡ Stornoway (C.G)	0	2	27	2	44.4	0	1	19	11	0	35.4
Aberdeen ...	0	7	22	2	42.9	0	7	21	3	0	34.0
Inchkeith (Edin.)	0	10	19	2	*	0	1	24	6	0	*
Renfrew	1	10	18	2	*	1	7	19	4	0	*
Eskdalemuir ...	2	16	13	0	*	1	10	18	2	0	*
Dublin ... ... (Phœnix Park)	0	2	22	7	46.5	0	6	22	3	0	35.2
Birr Castle ...	0	6	22	3	46.1	0	2	22	7	0	35.0
Valentia ... ... (Cahirciveen)	0	0	18	13	49.8	0	0	9	21	1	41.1
Tynemouth ...	0	10	19	2	44.3	0	4	22	5	0	34.7
Holyhead	0	0	26	5	46.9	0	0	11	20	0	39.9
Liverpool... ... (Bidston)	1	8	21	1	44.8	0	2	20	9	0	36.8
Cranwell	1	11	18	1	42.4	0	13	13	5	0	34.6
Gorleston ...	2	5	24	0	43.6	0	7	18	6	0	35.2
Ross-on-Rye ...	1	7	19	4	45.1	0	9	14	8	0	34.9
Leafield	3	10	17	1	*	1	12	13	5	0	*
London ... ... (Kew Obsy.)	0	8	22	1	44.7	0	9	14	8	0	35.9
Croydon	0	10	20	1	*	0	8	15	8	0	*
Shoeburyness ...	0	7	23	1	44.8	0	11	14	6	0	35.9
Lympne	1	7	23	0	*	0	9	16	6	0	*
Calshot ... ... (Southampton)	0	4	18	9	*	0	5	14	12	0	*
Falmouth ... (Pendennis)	0	0	17	14	*	0	0	7	24	0	*

Extremes—Warmest and Coldest

Stations.	Days. Highest Max. °F.	Date.	Lowest Max. °F.	Date.	Nights. Highest Min. °F.	Date.	Lowest Min. °F.	Date.	Number of Ground Frosts.
‡ Stornoway (C.G)	52	18, 19	39	9	50	19	30	10	*
Aberdeen ...	56	18	33	31	46	19	26	10, 31	15
Inchkeith (Edin.)	52	18	37	10	48	19	30	10	3
Renfrew	53	18	28	9	49	19	19	10	13
Eskdalemuir ...	50	18	29	9	46	19	15	10	13
Dublin ... ... (Phœnix Park)	56	18	39	9	46	18	24	10	6
Birr Castle ...	54	18	39	30	47	19	29	9, 10	11
Valentia ... ... (Cahirciveen)	54	12	44	8	51	18	34	4	0
Tynemouth ...	54	18	36	10	50	19	28	10	13
Holyhead	52	20	42	30	48	19	34	10	5
Liverpool... ... (Bidston)	53	18	32	10	45	19	30	10	3
Cranwell	51	19	31	10	44	19, 29	26	18	14
Gorleston ...	50	19	31	10	45	1, 2, 3, 19	25	5, 11	8
Ross-on-Rye ...	53	27	31	10	45	12	24	10	12
Leafield	51	27	29	10	43	19, 20	22	10	12
London ... ... (Kew Obsy.)	53	27	34	10	49	29	28	6	12
Croydon	53	27	34	5, 10	47	19	28	6, 22	9
Shoeburyness ...	51	27	33	6	45	29	28	6	15
Lympne	50	27, 28	32	10	46	19	27	5, 16	18
Calshot ... ... (Southampton)	53	2	37	5	48	29	28	10	10
Falmouth ... (Pendennis)	54	11, 27, 30	45	5, 22	50	2	37	9, 10	*

LOW CLOUD.

Number of observations within fixed limits.

Stations.	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.
‡ Stornoway (C.G)	0	28	0	0	30	0	0	29	0
Aberdeen ...	2	15	0	3	18	0	2	18	0
Inchkeith (Edin.)	15	11	0	17	11	1	16	12	0
Renfrew	2	26	0	3	27	0	2	23	0
Eskdalemuir ...	14	17	0	10	18	0	13	13	0
Dublin ... ... (Phœnix Park)	*	*	*	*	*	*	*	*	*
Birr Castle ...	0	26	0	0	25	0	0	20	0
Valentia ... ... (Cahirciveen)	6	24	0	9	21	1	10	20	0
Tynemouth ...	8	23	0	4	27	0	4	25	0
Holyhead	3	24	1*	3	25	0	4	24	1
Liverpool... ... (Bidston)	3	28	0	4	26	0	5	24	0
Cranwell	8	15	0	14	15	0	10	15	2
Gorleston ...	4	18	0	5	21	0	7	16	0
Ross-on-Rye ...	8	22	0	4	25	0	8	21	0
Leafield	9	16	1	12	13	5	8	19	2
London ... ... (Kew Obsy.)	8	19	0	11	16	1	8	18	0
Croydon	16	7	0	17	11	0	16	10	0
Shoeburyness ...	3	22	1	3	18	0	4	16	0
Lympne	12	13	2	12	14	0	13	9	0
Calshot ... ... (Southampton)	10	21	0	9	20	0	7	17	0
Falmouth ... (Pendennis)	1	30	0	0	30	1	0	31	0

FOG, MIST and GOOD VISIBILITY.

Number of observations within fixed limits.

Stations.	7 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.	13 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.
‡ Stornoway (C.G)	0	0	0	0	22	0	0	0	0	23
Aberdeen ...	0	0	0	0	16	0	0	1	3	12
Inchkeith (Edin.)	0	1	0	1	25	0	0	1	5	14
Renfrew	0	1	2	1	12	1	2	6	0	8
Eskdalemuir ...	0	1	1	4	9	0	0	1	1	19
Dublin ... ... (Phœnix Park)	*	*	*	*	*	*	*	*	*	*
Birr Castle ...	0	0	0	0	29	0	0	1	0	22
Valentia ... ... (Cahirciveen)	0	0	0	0	26	0	0	0	1	25
Tynemouth ...	0	1	3	2	13	0	0	8	4	6
Holyhead	0	0	1	3	14#	0	0	1	0	14
Liverpool... ... (Bidston)	0	0	6	1	21	0	0	5	2	15
Cranwell	0	2	6	4	0	0	3	2	5	1
Gorleston ...	0	3	2	0	6	0	3	1	3	2
Ross-on-Rye ...	0	2	5	2	7	0	0	4	4	17
Leafield	0	3	2	3	9	1	1	3	2	12
London ... ... (Kew Obsy.)	0	5	2	1	7	0	2	6	6	0
Croydon	1	3	5	4	2	0	4	5	6	0
Shoeburyness ...	2	2	2	4	11	0	2	3	4	9
Lympne	0	4	3	4	5	0	2	2	2	6
Calshot ... ... (Southampton)	0	2	3	1	13	0	1	2	1	8
Falmouth ... (Pendennis)	0	0	1	0	22	0	0	0	0	23

UPPER AIR TEMPERATURE.

Pressure. mb.	Normal Height. Feet.	Normal Temperature. °F.	Duxford. Mean. °F.	Duxford. No. of Reports.	S. Farnborough. Mean. °F.	S. Farnborough. No. of Reports.	Worthy Down. Mean. °F.	Worthy Down. No. of Reports.
950	1730	35	42	10	41	7	42	5
850	4640	29	34	10	31	6	40	5
750	7870	21	25	10	23	5	29	5
650	11,490	9	14	10	21	1	–	–
550	15,620	−4	2	10	–	–	–	–

UPPER WINDS.

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

Station.	Renfrew. Height. Feet.	No. of Obs.	9 or less	10 to 25	26 to 45	46 to 75	Above 75	Plymouth (Mt. Batten). No. of Obs.	9 or less	10 to 25	26 to 45	46 to 75	Above 75	Lympne. No. of Obs.	9 or less	10 to 25	26 to 45	46 to 75	Above 75	Holyhead. No. of Obs.	9 or less	10 to 25	26 to 45	46 to 75	Above 75	Station. Height. Feet.
			miles per hour.						miles per hour.						miles per hour.						miles per hour.					
	2,000	21	4	10	6	1	–	31	2	19	9	1	–	39	8	24	7	–	–	48	7	25	14	2	–	2,000
	5,000	3	–	1	2	–	–	4	–	3	1	–	–	13	2	7	4	–	–	21	5	13	3	–	–	5,000
	10,000	–	–	–	–	–	–	–	–	–	–	–	–	1	1	–	–	–	–	12	2	5	5	–	–	10,000
	15,000	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3	–	3	–	–	–	15,000

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

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

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

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

30 observations only.

SUNSHINE, RAINFALL, AND HUMIDITY — DECEMBER, 1930.

SUNSHINE.

Stations.	Number of Days with duration: Nil.	0·1—3h.	3·1—6h.	6·1—9h.	Above 9h.	Maximum Duration: Hours.	Date.	Total for past 12 months.	Difference from average.	Total for Month.	Difference from average.	Highest and Lowest Totals on record for Month: First year of record.	Highest.	Year.	Lowest.	Year.
								Hours.	Hours.	Hours.	Hours.		Hrs.		Hrs.	
‡‡ Stornoway (C.G.)	15	13	3	0	0	5·3	7	1308	+49	25	+2	1881	50	'90	6	'84
Aberdeen	14	10	7	0	0	4·2	31	1428	+41	38	+2	1881	68	'91	7	'03
**Inchkeith (Edin.)	13	14	4	0	0	4·5	31	1452	*	38	*	1923	51	{'24 '29	22	'27
Renfrew	16	14	1	0	0	4·4	31	1120	*	21	*	1921	43	{'23 '29	12	'27
Eskdalemuir ...	17	12	2	0	0	4·8	15	1128	−87	18	−6	1910	56	'25	3	'12
Dublin ... ... (Phœnix Park)	12	13	6	0	0	5·9	31	1426	−81	44	−4	1881	79	'57	20	'10
Birr Castle ...	14	13	4	0	0	5·4	16	1198	−145	41	−2	1881	68	'81	22	'84
Valentia ... ... (Cahirciveen)	12	13	6	0	0	4·8	9	1358	−87	41	0	1880	64	'81	18	'02
Tynemouth ..	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead .	14	14	3	0	0	4·9	3	1529	−77	31	−6	1914	71	'16	24	'22
Liverpool ... (Bidston)	14	13	4	0	0	3·7	15	1259	−197	28	−15	1908	70	'29	17	'27
Cranwell	17	10	4	0	0	5·3	21	1468	−80	33	−7	1921	62	'29	34	'27
Gorleston ...	18	5	7	1	0	6·9	4	1587	−118	41	−4	1908	64	'25	21	'08
Ross-on-Wye ...	12	17	2	0	0	5·3	9	1379	−107	31	−9	1914	73	'29	30	{'15 '27
Leafield	15	13	3	0	0	5·1	21	1396	*	27	*	1924	73	'29	22	'27
London ... ... (Kew Obsy.)	19	9	3	0	0	5·0	14	1402	−73	22	−15	1880	72	'86	0	'90
Croydon	22	7	2	0	0	5·8	14	1434	*	19	*	1922	58	'29	33	'23
Shoeburyness ...	14	9	8	0	0	5·5	21	1709	*	43	*	1919	73	'26	32	'19
Lympne	12	11	8	0	0	5·7	14	1718	*	47	*	1921	85	'26	41	'21
**Calshot ... ... (Southampton)	10	14	5	2	0	6·8	21	1703	*	52	*	1881	86	'86	21	'90
Falmouth ... (Observatory)	9	13	9	0	0	6·0	21	1680	−79	58	+3	1881	82	'86	19	'90

RAINFALL.

Stations.	‡Number of days with amount: 0, trace or 0·1 mm.	0·2—1 mm.	1·1—5 mm.	5·1—15 mm.	15·1—25 mm.	Above 25 mm.	Maximum fall in 24 hrs.: mm.	Date.	Total for past 12 months.	Difference from Average.	Total for Month.‡	Difference from Average.	Highest and Lowest Totals on record for Month: First year of record.	Highest.	Year.	Lowest.	Year.	Days with Thunder.	Days with Snow or Sleet.
							mm.		mm.	mm.	mm.	mm.		mm.		mm.			
‡‡ Stornoway (C.G.)	5	2	18	6	0	0	13	27	1110	−156	122	−36	1870	378	'98	30	'27	1	0
Aberdeen	17	2	5	4	3	0	20	26	839	+91	101	+19	1871	227	'76	20	'05	0	0
**Inchkeith (Edin.)	19	5	4	3	0	0	8	11	626	+72	32	−3	1870	145	'76	7	'26	0	0
Renfrew	10	8	5	6	2	0	19	28	1076	+151	105	−6	1921	230	'29	35	'27	0	1
Eskdalemuir ...	6	7	9	7	1	1	32	28	1728	+299	137	−41	1910	331	'29	51	'26	0	7
Dublin ... ... (Phœnix Park)	14	3	9	4	1	0	25	10	983	+278	79	+14	1877	166	'14	19	'85	0	0
Birr Castle ...	12	3	11	4	1	0	21	10	973	+144	88	+4	1872	165	'29	24	'85	1	0
Valentia ... ... (Cahirciveen)	5	6	7	9	4	0	20	15	1662	+248	159	−10	1870	295	'29	37	'26	0	0
Tynemouth ..	15	5	7	4	0	0	15	11	743	+122	65	+10	1915	133	'15	18	'26	0	0
Holyhead .	9	3	10	8	1	0	18	10	1053	+165	130	+24	1871	206	'15	21	'26	0	0
Liverpool ... (Bidston)	12	4	10	4	1	0	16	30	925	+216	95	+28	1867	156	'18	13	'05	0	2
Cranwell	15	9	4	3	0	0	14	11	703	+113	46	−10	1917	92	'29	13	'17	0	2
Gorleston ...	17	2	9	3	0	0	10	30	729	+107	50	−12	1871	151	'14	15	'90	0	0
Ross-on-Wye ...	11	6	7	6	1	0	20	28	826	+108	84	+8	1818	196	'29	8	'40	0	1
Leafield	10	4	11	5	1	0	17	11	750	+56	88	+19	1924	121	'24	11	'26	0	1
London ... ... (Kew Obsy.)	16	3	9	3	0	0	11	11	643	+37	46	−12	1871	162	'14	6	'26	0	0
Croydon	13	9	6	2	1	0	22	11	692	+13	55	−14	1921	174	'29	8	'26	0	1
Shoeburyness ...	15	6	8	2	0	0	8	26	574	+94	37	−7	1920	82	'28	17	'26	0	1
Lympne	14	4	8	4	1	0	18	30	842	+118	76	−6	1920	181	'29	23	'26	0	0
**Calshot ... ... (Southampton)	10	7	8	6	0	0	10	11	754	+108	79	+5	1871	251	'14	10	'26	0	0
Falmouth ... (Observatory)	10	0	11	8	2	0	18	10	1259	+152	115	−44	1871	280	'15	21	'26	0	0

MINIMUM SURFACE HUMIDITY.

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

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

STATE OF GROUND AT 18h.

No. of Days each type was recorded.

Stations.	0	1	2	3	4	5	6	7	8	9
Aberdeen ...	0	27	0	0	4	0	0	0	0	0
Renfrew ...	0	23	4	0	4	0	0	0	0	0
Eskdalemuir	1	21	1	7	0	1	0	0	0	0
Valentia ...	0	30	1	0	0	0	0	0	0	0
Ross-on-Wye	0	30	0	0	1	0	0	0	0	0
London (Kew)	0	30	0	0	1	0	0	0	0	0

CODE for State of Ground.

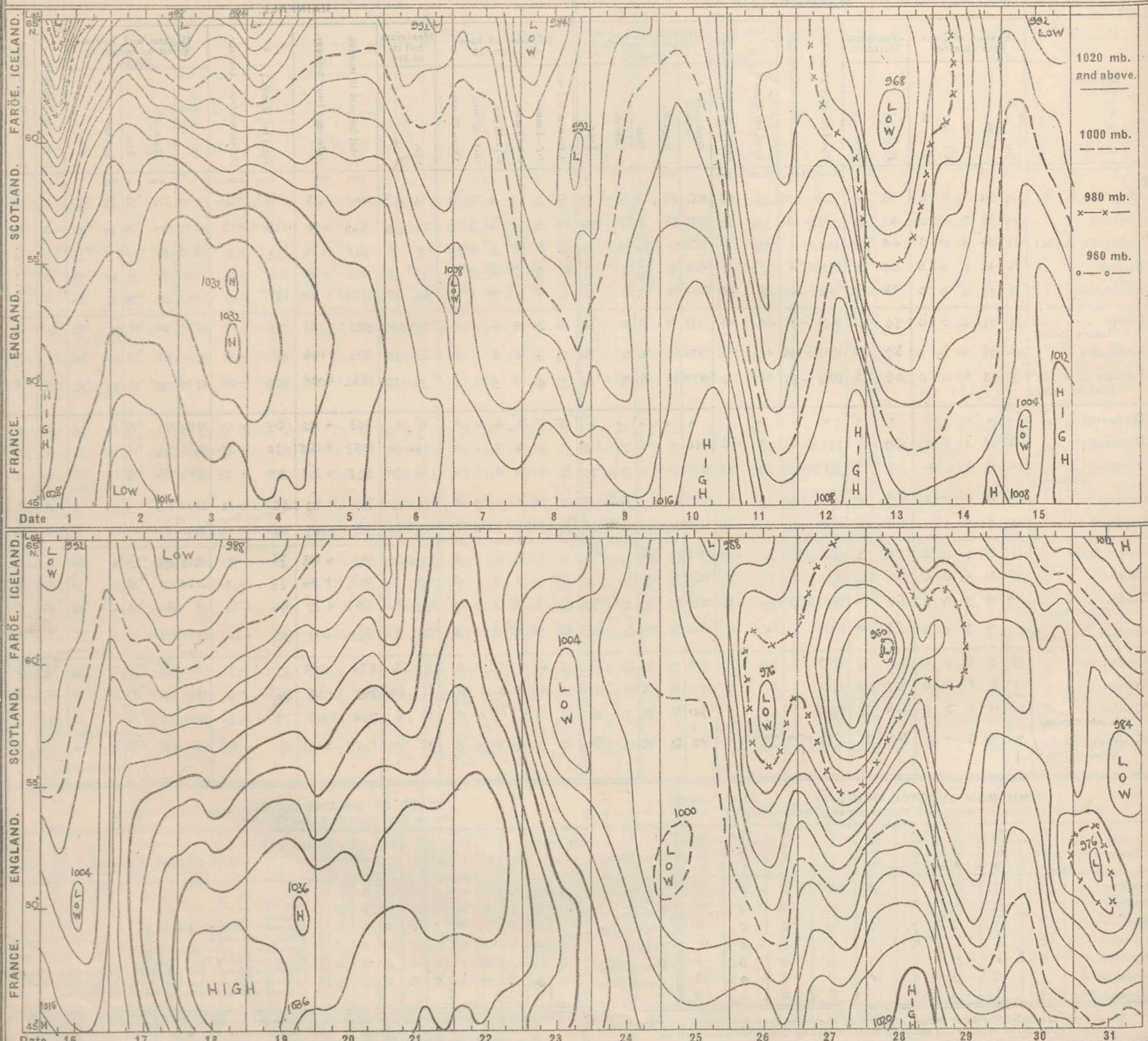
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

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

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

PRESSURE: ICELAND TO GULF OF LIONS DECEMBER, 1930.

ISOPLETHS* BASED ON SIX-HOURLY OBSERVATIONS.



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

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

P.- 2529/2175. We. 181. D.6005. 6p. 908. 870. 1/31.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 1st December 1930.

No. 25211

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

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)
Lerwick	1017.6	+2.4	W	1	c	47	85	7	5	9	-	4-6	7-8	1500
Stornoway	1017.4	0	SSW	3	id₀	49	95	6	6	-	-	10	10	4000
Wick	1020.2	+2.0	SW	4	c	44	96	9	8	2	-	7-8	9	1500
Tiree	1020.7	0	S'E	5	id₀	47	95	6	5	-	-	10	10	800
Nairn	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aberdeen	1021.8	+2	SW	1	6cf	39	85	4	-	7	1	0	4-6	-
Malin Head	1020.8	-1.2	SW	4	c	45	85	8	5	4	-	7-8	9+	2500
Renfrew	1023.7	-.8	-	0	cf	33	95	2	5	-	-	9	9	4000
Inchkeith (Edin.)	1024.1	+.6	WSW	3	x	40	85	5	5	8	-	4-6	9+	800
Leuchars	1022.8	0	SW	2	c	40	85	6	-	7	-	0	9+	-
Eskdalemuir	1024.9	-.2	SSW	2	c	38	85	8	5	1	-	4-6	10	4000
Tynemouth	1024.6	+.8	WSW	1	f	44	85	2	5	-	-	10	10	800
Blacksod Point	1020.9	-.6	S	4	c	49	85	8	8	-	-	9+	9+	220
Aldergrove	1024.4	-.1.0	S	2	c	42	85	6	5	7	-	2-3	7-8	4000
Donaghadee	1024.1	+.2	WSW	1	6c	41	85	7	7	-	2	4-6	4-6	4000
Birr Castle	1025.0	-.4	S'E	1	6c	41	85	7	-	3	-	0	4-6	-
Holyhead	1025.5	-.2	SSW	1	c	43	75	6	5	-	6	7-8	9+	2500
Liverpool (Bidston)	1026.1	0	-	0	c	46	85	7	4	-	6	2-3	9	4000
Chester (Sealand)	1025.8	+.2	SW'W	1	c	49	65	6	1	3	6	7-8	7-8	2500
Harrogate	1026.2	+.6	-	0	c	44	85	7	5	-	2	2-3	7-8	4000
Spurn Head	1025.2	+.8	NW'N	2	c	45	95	7	5	2	-	7-8	10	4000
Birmingham	1026.8	+.6	NNW	1	m	45	85	4	5	-	-	9	9	4000
Cranwell	1026.1	+.6	NW'N	2	c	45	95	6	2	-	-	10	10	2500
Gorleston	1023.8	+2.4	N'W	3	id₀	47	95	4	6	-	-	10	10	800
Valentia Obs.	1024.6	-.8	S	3	c	49	75	8	7	3	-	4-6	7-8	1500
Roches Point	1026.3	-.6	SW	1	6c	48	75	8	5	-	-	2-3	2-3	1500
Pembroke	1025.9	0	E	2	6c	48	85	8	4	7	9	4-6	4-6	2500
Ross-on-Wye	1026.4	+.4	W	1	c	46	85	8	5	-	-	10	10	2500
Leafield	1026.3	+1.4	NNW	2	c	44	95	6	5	-	-	10	10	2500
Cardington	1025.6	+.10	NNW	2	m	46	95	4	5	-	-	10	10	4050
Winchester	1026.0	+.6	N'W	2	0	46	95	7	5	-	-	10	10	800
S. Farnborough	1025.8	+.10	NW	2	d₀d₀	46	95	5	6	-	-	10	10	4050
London (Kew)	1026.5	+.12	NW	2	c	47	95	5	5	2	-	7-8	10	1800
Croydon	1025.8	+1.4	NW	2	df	47	95	3	5	-	-	10	10	220
Shoeburyness	1024.9	+.20	N'W	2	d₀d₀	48	95	4	5	-	-	10	10	800
Clacton-on-Sea	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Felixstowe	1024.9	+1.4	N'W	2	id₀	48	95	6	5	-	-	10	10	800
Scilly (St. Mary's)	1026.2	-.6	NE	3	c	49	95	8	5	-	-	9+	9+	4000
Falmouth	1027.0	0	-	0	0	48	95	8	5	-	-	10	10	4000
Plymouth	1026.1	-.6	ENE	2	7	48	85	6	-	3	-	0	9+	-
Portland Bill	1024.9	0	NE	3	c	49	85	6	7	-	-	7-8	7-8	2500
Calshot, S'hampton	1025.7	+1.4	N	3	c	47	95	6	5	-	-	10	10	1500
Dungeness	-	-	NW	2	id₀	-	-	5	5	-	-	10	10	2500
Lympne	1024.7	+1.4	NW'N	2	id₀	47	95	4	5	-	-	10	10	4150
Guernsey	1025.8	+.6	-	0	6c	50	75	7	5	-	-	4-6	4-6	2500

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

STATIONS.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°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)
Lerwick	1017.7	0	S'W	1	c	47	95	6	5	2	-	4-6	10	1500	1	*
Stornoway	1014.6	-1.6	S	7	r₀r₀	48	95	6	6	-	-	10	10	4000	1	4
Wick	1018.0	-.8	SW	6	c	45	95	8	8	2	-	4-6	7-8	1500	0	2
Tiree	1018.3	-.2	S'E	5	id₀	46	85	7	5	-	-	10	10	1500	1	2
Nairn	1018.5	*	-	0	c	42	85	8	3	9	-	4-6	7-8	2500	0	*
Aberdeen	1021.3	-.4	SW	1	6cf	44	95	6	-	6	8	0	4-6	-	1	0
Malin Head	1019.6	-.4	S	4	c	45	85	8	5	6	-	7-8	9+	2500	5.0	2
Renfrew	1023.4	-.4	NE	1	cf-	36	95	6	5	-	-	9+	9+	4000	4	4*
Inchkeith (Edin.)	1023.5	+.2	WSW	1	c	41	95	6	5	6	-	2-3	9+	800	0	0
Leuchars	1022.8	+.2	SW	2	c	39	85	6	-	7	-	0	9+	-	1	*
Eskdalemuir	1025.6	+.4	S	2	0	37	95	6	5	-	-	10	10	4050	1	*
Tynemouth	1025.0	+.2	WSW	2	6c	43	85	6	5	-	-	4-6	4-6	1500	0	1
Blacksod Point	1019.0	-.2	ESE	5	c	50	85	X6	3	-	-	9+	9+	220	0	4
Aldergrove	1023.0	-.8	SSE	4	c	40	85	7	5	7	-	4-6	7-8	5700	1	*
Donaghadee	1023.1	-.6	W	1	c	41	85	7	5	-	-	7-8	7-8	2500	0	0
Birr Castle	1023.7	-.6	SSE	1	c	40	85	8	-	3	-	0	9+	-	1	*
Holyhead	1025.2	0	S'W	3	c	46	85	6	5	3	-	7+	9+	2500	1	1
Liverpool (Bidston)	1026.2	0	SE	2	c	43	85	6	5	-	-	9+	9+	2500	0	*
Chester (Sealand)	1025.8	+.2	S'W	1	c	38	95	5	-	3	-	0	9	-	0	*
Harrogate	1026.6	+.10	-	0	m	39	95	4	5	8	-	1	2-3	4050	1	*
Spurn Head	1026.6	+.6	NW'N	1	0	45	95	6	5	-	-	10	10	2500	0	2
Birmingham	1027.0	+.6	SW	1	m	45	85	4	5	-	-	10	10	4000	1	*
Cranwell	1027.2	+.8	-	0	m	43	95	4	5	-	-	10	10	2500	1	*
Gorleston	1026.4	+2.4	N	1	0f-	47	95	5	6	-	-	10	10	1500	1	2
Valentia Obs.	1023.0	-.6	S'E	3	c	47	85	8	5	-	-	7-8	7-8	1500	1	2
Roches Point	1025.6	-.6	SW	1	6c	43	85	8	5	-	-	4-6	4-6	1500	0	1
Pembroke	1025.2	0	SE	1	c	46	95	8	4	6	1	2-3	7-8	4000	0	1
Ross-on-Wye	1026.7	+.6	-	0	c	45	85	5	5	-	-	10	10	2500	1	*
Leafield	1027.0	+.10	-	0	0	43	95	5	5	-	-	10	10	2500	1	*
Cardington	1026.9	+1.4	-	0	c	45	95	6	5	2	-	9	10	800	2	*
Winchester	1026.9	+.8	N	1	0	45	95	7	5	-	-	10	10	800	1	*
S. Farnborough	1026.4	+.6	N'E	1	2	46	95	5	5	-	-	10	10	1500	2	*
London (Kew)	1027.1	+.10	N	1	m	47	95	4	5	-	-	10	10	2500	1	*
Croydon	1026.6	+.8	ENE	2	m	46	95	4	5	-	-	10	10	4050	1	*
Shoeburyness	1026.7	+.12	-	0	d₀d₀	46	95	4	5	-	-	10	10	800	1	*
Clacton-on-Sea	1026.3	+.10	NNW	2	0	47	85	6	5	-	-	10	10	4050	1	1
Felixstowe	1027.0	+.6	-	0	id₀	47	95	5	5	-	-	10	10	4050	1	2
Scilly (St. Mary's)	1025.9	0	SE	1	c	48	85	7	5	-	-	9+	9+	4000	0	1
Falmouth	1026.6	+.2	-	0	0	48	85	7	5	-	-	10	10	4000	0	0
Plymouth	1026.2	+.4	E	2	7	47	85	6	5	-	-	10	10	2500	1	0
Portland Bill	1025.9	+.8	NNE	3	c	49	75	6	4	2	-	7-8	10	2500	1	3
Calshot, S'hampton	1026.4	+.6	N	2	c	47	95	6	5	-	-	10	10	1500	0	0
Dungeness	-	-	N	2	7	-	-	5	5	-	-	10	10	2500	*	1
Lympne	1025.8	+.6	N	2	0/d	46	95	5	5	-	-	10	10	800	1	*
Guernsey	1025.4	+.4	ENE	2	0	50	75	7	5	-	-	10	10	2500	1	2

PAST 24 HOURS. WEATHER.

STATIONS.	7h.–13h. 30th (37)	13h.–18h. 30th (38)	18h. 30th to 1h. 1st (39)	1h.–7h. 1st (40)
Lerwick	c p r₀ c	c o m₀	o m i r	o i r₀
Stornoway	o i d₀	o r o r	o d d	o d d
Wick	b c c	c	c r r	c r r i r
Tiree	o m₀ d₀	o m₀ i d₀ c₂	c p r	c D r D
Nairn	c	c	c p r	c
Aberdeen	c z b c f	c b c f f f	b c f c r	c i r₀ c
Malin Head	c	c	c	c
Renfrew	b, c f f	c f f f	c f f	c f c m₀
Inchkeith (Edin.)	b m c m₀ m₀	c m₀ m₀	m m c	c b c
Leuchars	b c c z c	b m₀	c m₀	c m₀
Eskdalemuir	b c z c	c o m₀	o	c
Tynemouth	b c o f f f	o f f	b e f f	b c
Blacksod Point	c	c	c	c
Aldergrove	b c z m p c m₀	c m₀ c	c b c	b c b
Donaghadee	b c	b c c	c b c b	b
Birr Castle	b b c	b c c	c	c b c b
Holyhead	c	c z₀ m₀	c m₀	c m₀
Liverpool (Bidston)	b c c	c	c b	b b c c
Chester (Sealand)	b m c z₀	c b c m₀	c b c m₀	b c c m₀
Harrogate	c b c	b c m	b c b	c o m r₀
Spurn Head	o p d c	c z o	o	o
Birmingham	c m	c m	c	c o
Cranwell	o d₀ d₀ m₀	c m₀ m	c m m₀	c o i d₀
Gorleston	o m m i d	o i d₀ m m	o m i d	o i d₀ m₀
Valentia Obs.	c b c c	c	C	c p r₀ c
Roches Point	b b c	b c	b c c w	c w
Pembroke	b c	b c	c	C
Ross-on-Wye	o c	c	o m₀	o m₀
Leafield	i d₀ o	o m₀	o c	o f
Cardington	o i d₀ m o m	o m c m₀	c m₀	o m₀ o i d₀ m₀
Winchester	o m₀ i d₀ o	d₀ o m₀	o i d₀ m₀	o i d₀ m₀
S. Farnborough	d₀ d m d₀	″ o m₀	o m₀ i d₀	o m₀ i d₀
London (Kew)	c m₀ d₀	o m	o m i d₀	o m₀ o m₀ w
Croydon	o m d₀ d₀ f f	o d₀ d₀ f f m	o m d₀ m₀	o d₀ m₀
Shoeburyness	o m d₀ d	o m d₀ d	o m i d₀	o m₀
Clacton-on-Sea	o g m e	o g e	o g e	o g e
Felixstowe	o d₀ m o i d₀	o m₀	o m i d₀	o m i d₀ c
Scilly (St. Mary's)	c	c	c	c i d₀
Falmouth	0	0	o c	0
Plymouth	b c w m c	c o m₀	o m₀	o m₀
Portland Bill	c z₀	c z₀	c z₀	C
Calshot, S'hampton	c m₀ i d₀	c m₀	c m₀	c w c i d₀ m₀
Dungeness	d	0	*	0
Lympne	o f d₀ d₀ m	o d₀ d₀ m	o d d₀ m₀	o d₀ d₀ m₀
Guernsey	o c b c	b c c o	o	o c b c 3

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

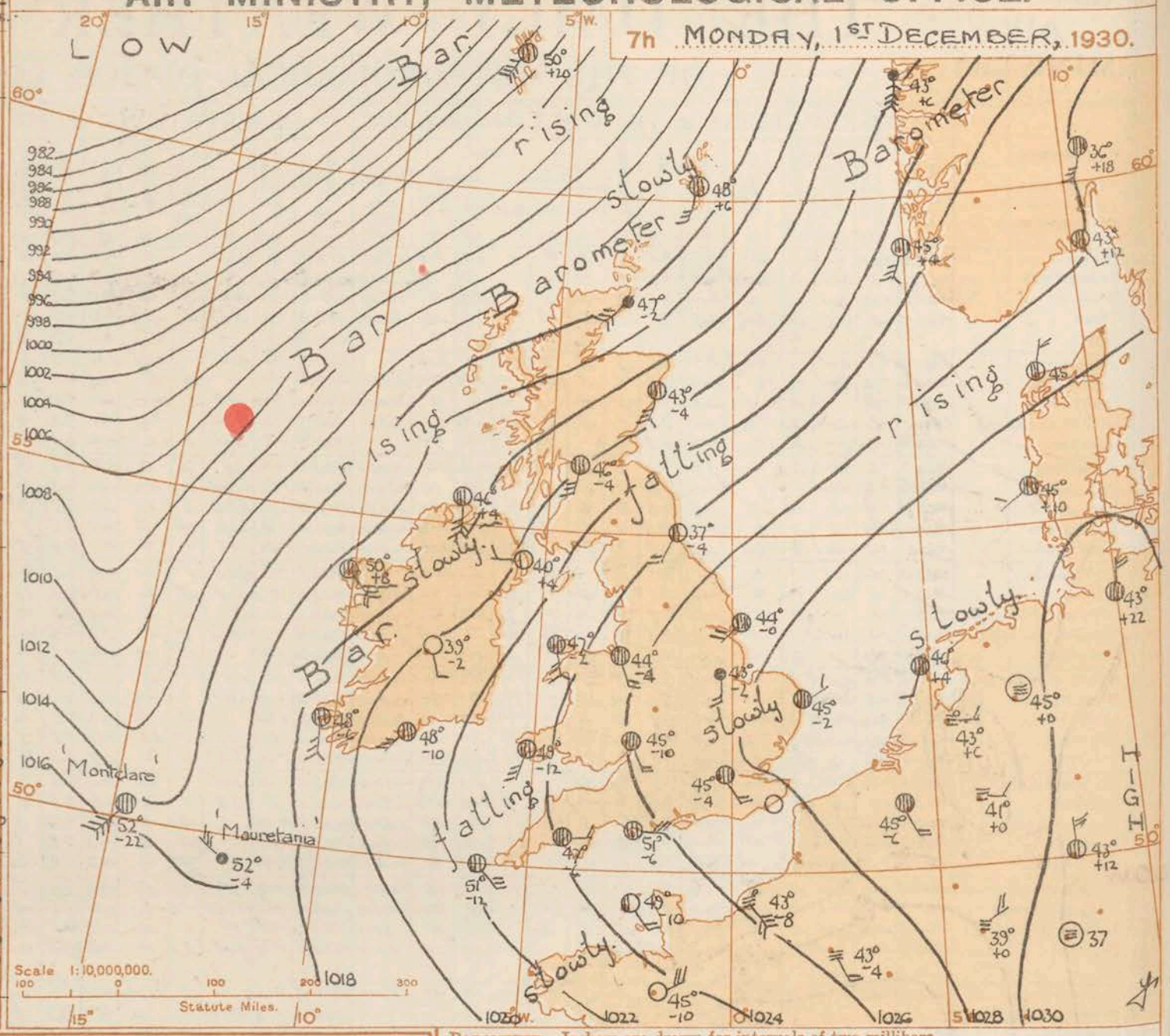
REPORTS from HEALTH RESORTS for ....30th November.... 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 21st to 9h. 30th	TEMPERATURE. Max. 9h.—17h. 30th	RAINFALL. Night. 17h. 22nd to 9h. 30th	RAINFALL. Day. 9h.—17h. 30th	SUNSHINE. Sunrise to Sunset. 30th.
Dunbar	c	c	34	42	-	-	0·3
Berwick-on-T.	c	c	34	42	-	-	0·3
Douglas	bcxc	bcb	34	45	-	-	1·2
Llandudno	c	bc	38	48	-	-	1·3
Colwyn Bay	obbcc	cbcc	38	49	-	-	1·8
Rhyl	bmbc	bc	38	48	-	-	2·0
Wallasey	fcbc	bccf	39	48	-	-	2·2
Southport	bbcm	abccc	38	45	-	-	1·7
Blackpool	c	c	36	44	-	-	0·9
Morecambe	cbc	bcc	35	43	-	-	1·1
Ilkley	bc	cm	39	47	-	-	1·0
Cleethorpes	rfod	dom	42	46	0·3	Trace	0·0
Mablethorpe	omo	omo	46	47	-	-	0·0
Skegness	od	o	45	47	Trace	Trace	0·0
Aberystwyth	cbc	bcc	38	49	-	-	5·7
Bath	c	c	42	48	0·3	-	0·0
Cheltenham †	om	om	42	46	/	-	0·0
Leamington Spa	om	o	44	47	/	-	0·0
Lowestoft	omid	omid	46	47	-	0·2	0·0
Dovercourt	fdoc	doc	47	50	Trace	Trace	0·0
Maldon	mod	odo	46	48	/	0·3	0·0
Southend	ofmd	omd	47	49	3	0·3	0·0
Ilfracombe	oc	bc	46	50	-	-	0·6
Bude	c	bccc	42	52	-	-	2·2
St. Ives	o	o	47	52	-	-	0·0
Penzance	c	c	46	51	-	-	0·0
Torquay	om	om	41	48	-	-	0·0
Jersey	cz	c	49	51	/	-	0·0
Weymouth	oc	coc	43	48	-	-	0·0
Bournemouth	o	o	42	47	-	-	0·0
Ventnor	ozdoz	oz	44	47	0·3	Trace	0·0
Southsea	o	o	41	48	-	-	0·0
Bognor Regis	o	o	45	48	0·3	-	0·0
Littlehampton	c	c	46	48	/	-	0·0
Worthing	od	o	47	48	6	Trace	0·0
Brighton	cdc	dcoc	47	49	10	Trace	0·0
Eastbourne †	od	o	47	49	3	Trace	0·0
Hastings †	omo	o	47	50	/	-	0·0
Folkestone	omod	oid	47	49	3	0·2	0·0
Dover	omfmid	oidm	47	48	4	0·2	0·0
Deal	o	od	46	48	3	Trace	0·0
Tunbridge Wells	odo	o	45	47	13	Trace	0·0
Ramsgate	odo	o	46	49	3	0·2	0·0
Margate	cfd	c	47	48	/	Trace	0·0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h MONDAY, 1st DECEMBER, 1930.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 1st Dec. 1930.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Moderate or fresh southeasterly winds, veering later; mainly cloudy, occasional rain or showers; temperature about normal.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate or fresh southeasterly winds, veering northwesterly; cloudy with bright intervals but occasional showers; temperature lower than of late.

GENERAL INFERENCE.

An intense depression northwest of Iceland will move northeastward and an associated trough of low pressure off Western Ireland will cross the British Isles. Weather will be mainly cloudy and occasional rain or showers be experienced in most districts.

FURTHER OUTLOOK.

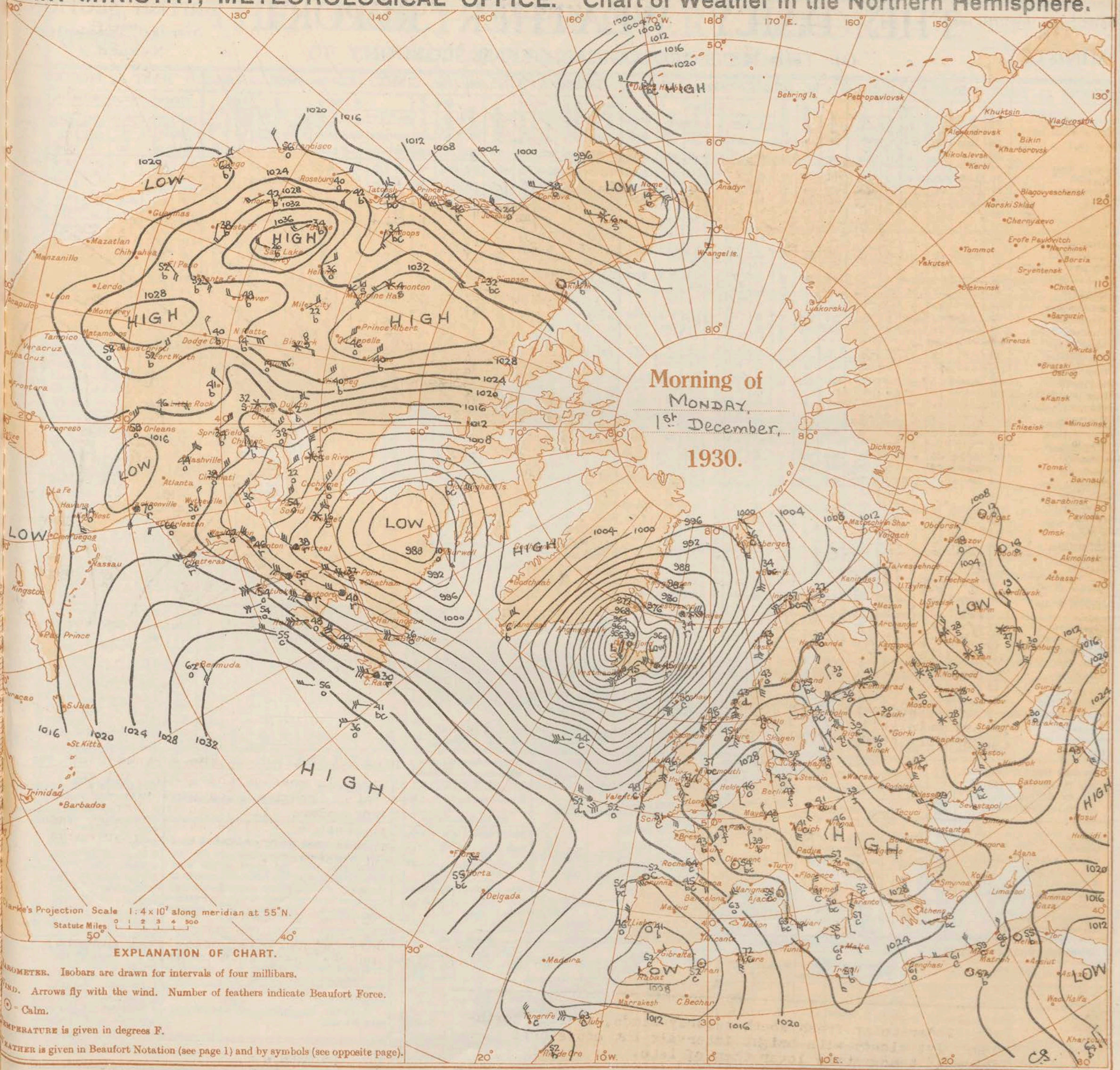
Bright intervals, occasional showers; temperature lower than of late.

Forecasts issued at 1010 G.M.T.

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

H.M. Stationery Office Press, Kingsway W.C.2. F= 2497/2185. Wt. 26. D.8026. Gp. 908. 3/31. 12/30.

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 1st December 1930.

No. 26211

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

Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
Lerwick	54	1012.4	-2.0	S'W	3	ir.	47	95	7	5	2	-	4-6	10	1500
Stornoway	34	1011.5	-6	S	8	dd	47	93	6	6	-	-	10	10	4000
Wick	81	1014.8	-12	SW	5	r.	46	85	8	6	2	-	4-6	10	1500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51	1018.4	-2	S	5	c	46	85	8	5	3	-	7-8	9+	2500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	1023.2	+2	WSW	3	c	44	85	8	5	8	-	4-6	7-8	800
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	1024.9	-4	WSW	2	bc	37	95	7	5	-	-	2-3	2-3	1500
Blacksod Point	10	1017.1	-6	SSW	8	c	50	85	7	9	-	-	10	10	220
Aldergrove	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	1024.8	-2	S	4	c	46	95	6	5	3	-	1	7-8	2500
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	1027.5	+2	WSW	2	0	45	95	6	5	-	-	10	10	2500
Birmingham	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1028.8	+6	SW	2	c	44	95	5	5	-	-	10	10	1500
Gorleston	14	1028.5	+8	-	0	id.	46	95	6	6	-	-	10	10	1500
Valentia Obs.†	30	1021.5	-6	SE	3	c	48	75	8	1	-	-	7-8	7-8	2500
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke	150	1025.7	0	SSW	3	c	49	95	7	4	2	-	2-3	9	4000
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew)	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1028.5	0	-	0	id.	46	95	5	5	-	-	10	10	450
		•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1025.5	-10	E'S	2	C	49	85	8	5	-	-	9+	9+	4000
Falmouth	200	1026.4	-2	NE	1	c	47	85	7	5	-	-	10	10	4000
Plymouth	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	1026.3	-2	E'N	2	c	50	85	6	4	-	-	10	10	1500
Calshot, S'hampton	8	1027.5	+2	NE'N	2	c	47	85	6	5	-	-	10	10	2500
Dungeness	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1027.9	+2	-	0	dd.	45	95	5	5	-	-	10	10	450
Guernsey	173	1026.1	-4	ESE	1	0	50	75	6	5	-	-	10	10	2500

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	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)
1012.3	+6	SSW	3	c/r	48	95	5	6	2	-	4.6	9	1500	1	*
1012.4	+10	S	8	dd	48	95	6	6	-	-	10	10	4000	1	5
1014.0	-2	SW	5	ir	47	75	8	6	2	-	7-8	9	1500	1	3
1017.1	+14	SSE	5	Dr	45	95	6	5	-	-	10	10	800	1	3
1015.8	•	-	0	c	47	85	8	8	-	-	7-8	7-8	2500	0	*
1019.2	-4	SSW	4	c	43	85	6	-	7	-	0	7-8	-	1	1
1017.0	+4	S	6	c	46	85	7	5	-	-	9+	9+	2500	0	4
1021.8	-4	S'W	3	c	43	85	7	5	-	-	9	9	2500	1	*
1021.8	-2	WSW	3	c	45	85	8	5	1	-	2.3	7.8	800	0	1
1021.5	0	SSW	2	c	41	95	8	-	7	-	0	9+	-	1	*
1023.8	-4	SSW	3	0	41	85	6	5	-	-	10	10	1500	1	*
1024.0	-4	SW	2	bc	37	95	6	5	-	-	2.3	2.3	800	0	2
1017.2	+8	SE	5	c	50	85	7	5	-	-	9+	9+	220	0	4
1022.1	0	SE'S	3	c	41	85	7	5	-	-	2.3	2.3	4000	1	*
1021.9	-4	W	1	c	40	95	7	5	-	-	1	1	4000	0	0
1021.3	-2	SSE	1	b	39	95	8	-	-	-	0	0	-	1	*
1023.3	-2	S'E	4	0	47	95	6	5	3	-	10	10	2500	1	2
1025.8	0	SE	3	c	43	85	6	5	-	-	7-8	7-8	4000	0	*
1025.6	-4	S'E	2	o3.	44	85	6	5	-	-	10	10	1500	0	*
1026.8	0	S	1	m	40	95	4	6	-	-	10	10	4150	1	*
1027.1	0	SW	2	0	44	85	6	5	-	-	10	10	2500	0	2
1027.0	-4	S	2	0	43	95	6	6	-	-	10	10	1500	1	*
1027.5	-2	S'E	2	id.	43	95	5	5	-	-	10	10	1500	1	*
1028.4	-2	NE'E	1	0	45	95	6	6	-	-	10	10	1500	1	2
1029.3	-6	S'E	4	c	48	75	8	6	-	-	9+	9+	2500	1	x
1021.6	-10	SW	3	c	48	85	8	7	-	-	9	9	1500	0	3
1023.0	-12	SSW	3	c	49	95	7	5	-	-	10	10	2500	0	1
1026.1	-10	SE	2	o3.	45	95	6	5	-	-	10	10	2500	0	*
1026.5	-6	SE'S	3	fj	43	95	6	5	-	-	10	10	4150	1	*
1027.6	-2	SSE	2	id.	44	95	6	5	-	-	10	10	800	2	*
1026.4	-4	E	3	o/d	45	95	6	5	-	-	10	10	800	1	*
1026.9	-6	E	2	o/d	45	95	5	6	-	-	10	10	800	1	*
1027.6	-6	ESE	1	c	45	95	6	5	2	-	7-8	10	2500	1	*
1028.0	-4	SE'S	2	o3.	45	95	6	5	-	-	10	10	1500	1	*
1028.3	0	NE	1	o/d	45	95	6	5	-	-	10	10	1500	1	*
1028.1	0	NE	2	b	46	95	6	5	-	-	10	10	4150	1	1
1028.6	0	-	0	o3.	45	95	6	5	-	-	10	10	2500	1	2
1022.8	-12	ESE	3	c	51	85	7	5	-	-	9+	9+	4000	0	2
1023.9	-6	ESE	4	c	51	85	7	5	2	-	7-8	10	4000	0	2
1024.1	-6	E	1	o3.	47	95	6	6	-	-	10	10	2500	1	0
1024.3	-6	E'S	4	c	51	85	7	4	-	-	10	10	1500	1	3
1026.3	-10	ENE	3	o/d	48	95	6	5	-	-	10	10	1500	1	2
•	•	-	0	o3.	•	•	•	5	-	-	10	10	2500	•	!
1027.4	-4	NE'N	3	o/d	45	95	6	5	-	-	10	10	1500	1	*
1024.1	-10	ESE	2	bc	49	85	7	5	-	-	4.6	4.6	2500	1	2

PAST 24 HOURS.

Stations.	Temperature. Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 30m. Hrs. (36)
Lerwick	47	46	•	0.1	0.5	0.3
Stornoway	50	47	•	0.2	0.4	0.0
Wick	45	44	•		1	•
Tiree	47	45	44	0.4	2	0.0
Nairn	45	42	•	-	0.1	0.0
Aberdeen	41	33	30	-	0.6	0.1
Malin Head	45	44	•	-	-	0.0
Renfrew	36	35	33	-	-	0.0
Inchkeith (Edin.)	42	40	38	-	-	0.0
Leuchars	40	38	32	-	-	0.0
Eskdalemuir	39	36	33	-	-	0.5
Tynemouth	45	36	29	-	-	•
Blacksod Point	50	36	•	-	-	•
Aldergrove	43	37	32	Tr.	-	0.9
Donaghadee	45	40	•	•	-	•
Birr Castle	42	38	30	-	-	2.2
Holyhead	49	45	41	-	-	1.1
Liverpool (Bidston)	46	39	36	-	-	2.2
Chester (Sealand)	49	31	27	-	-	2.3
Harrogate	45	35	30	-	Tr.	0.2
Spurn Head	47	43	•	Tr.	-	0.0
Birmingham	45	43	42	-	-	0.0
Cranwell	45	42	41	Tr.	Tr.	0.0
Gorleston	48	45	44	0.1	0.1	0.0
Valentia Obs.†	49	47	45	-	0.1	0.1
Roches Point	48	40	•	-	Tr.	•
Pembroke	51	45	•	-	-	3.2
Ross-on-Wye	46	44	42	-	-	0.0
Leafield	44	42	41	Tr.	-	0.0
Cardington	46	44	43	0.2	Tr.	0.0
Winchester	46	44	43	Tr.	Tr.	0.0
S. Farnborough	46	44	44	0.2	0.2	0.0
London (Kew)	47	45	44	0.2	Tr.	0.0
Croydon	47	45	44	0.1	0.2	0.0
Shoeburyness	48	44	44	0.1	Tr.	0.0
Clacton-on-Sea	48	46	45	-	Tr.	0.0
Felixstowe	48	45	44	Tr.	Tr.	0.0
Scilly (St. Mary's)	49	47	•	-	Tr.	0.0
Falmouth	49	46	•	-	-	0.0
Plymouth	49	46	46	Tr.	-	0.1
Portland Bill	50	47	•	-	-	•
Calshot, S'hampton	48	46	45	Tr.	Tr.	0.0
Dungeness	52	45	•	Tr.	-	•
Lympne	47	44	44	0.5	0.4	0.0
Guernsey	50	49	45	-	-	0.3

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	cm.d.o	om	o.id.m.cw	47	45	44	0.2	Tr.	0.0	•	•	3
Croydon	244	om.d.f	d.d.fm	om.d.m.d	47	45	44	0.1	0.2	0.0	•	•	•
Greenwich (Royal Observatory)	149	cd.f.	cd.o	cd.d.o.f	47	44	42	Tr.	0.3	0.0	91	94	•
City (Bunhill Row)	—									0.0	•	•	•
Westminster (St. James' Park)	27	•	•	•	49	46	45	-	-	0.0	89	86	•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	116	o.d.o	0	•	47	45	44	-	0.3	•	At 18h. 95	95	•
Kensington Palace	80	om	om	•	47	45	44	Tr.	0.3	•	97	92	•
Hampstead Observatory	450	o.d	o.d.f.o.d	•	45	41	40	0.5	Tr.	0.0	•	95	•

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	11h 30m	<0.3	1-7h 1st

Kew Observatory. Max.	Time.	Min.	Time.
0.3	20h 30m	0.1	4h 1st

FOREIGN OBSERVATIONS.

18h. G.M.T. 30th November — 7h. G.M.T. 1st December

Stations.	18h. Barom. mb.	18h. Wind. Direc.	18h. Wind. Force.	18h. Weather.	18h. Temp. °F.	7h. Barom. mb.	7h. Wind. Direc.	7h. Wind. Force.	7h. Weather.	7h. Temp. °F.
Paris	1025.5	-	0	c	46	1027.1	ESE	2	f-	43
Brussels	1024.7	WSW	1	b	48	1029.1	ESE	2	o.fm.	43
Berlin						1029.2	NNW	2	f	43
Zürich						1031.5	ENE	1	f	39
Rome										

Past 24 Hours.

Stations.	Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
Paris	50	43	0.3	-
Brussels		39		
Berlin	54	43	-	-
Zürich		37		0.3
Rome				

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 „
2 Fog	550 „
3 Moderate fog	1,100 „
4 Mist or haze	1¼ miles.
5 Poor visibility	2⅓ „
6 Moderate „	6¼ „
7 Good „	12½ „
8 Very good „	31 „
9 Excellent „	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 2nd December 1930.

No. 25212

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

STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
Lerwick	1017.1	+10	W	2	c	49	95	7	5	2	-	4-6	9+	1500
Stornoway ...	1017.1	+14	WNW	3	d d	45	95	6	6	-	-	10	10	4000
Wick	1018.1	+16	SSW	4	bc	47	75	8	8	5	8	4-6	4-6	2500
Tiree	1018.9	+ 2	SSE	5	c	46	95	7	5	2	-	7-8	10	2500
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1020.9	+4	-	0	c	46	75	7	-	3	9	0	9	-
Malin Head ...	1018.9	-6	SSW	6	bc	46	85	8	5	8	-	2-3	2-3	4000
Renfrew	1022.5	-4	SW	3	bc	48	75	7	8	-	1	4-6	4-6	1500
Inchkeith (Edin.)	1023.4	+2	WSW	2	c	46	95	7	5	7	-	2-3	9	1500
Leuchars	1022.5	-2	SW	2	c	47	85	6	5	3	1	4-6	7-8	2500
Eskdalemuir ...	1024.0	-4	SW	2	d d	41	95	6	5	-	-	10	10	1500
Tynemouth ...	1026.5	+4	S	2	c	44	85	5	5	-	-	7-8	7-8	1500
Blacksod Point ...	1017.0	+2	SE	5	c	50	75	8	-	5	-	0	7-8	450
Aldergrove ...	1022.4	-2	SSE	2	c	46	85	7	5	-	-	9+	9+	2500
Donaghadee ...	1022.2	-4	SW	1	c	46	85	7	5	-	-	7-8	7-8	1500
Birr Castle ...	1020.8	-6	S	1	c	46	85	7	5	-	-	9+	9+	2500
Holyhead	1023.0	-10	SE'S	3	c	48	85	6	5	-	-	10	10	4000
Liverpool (Bidston)	1024.9	-8	E'S	3	of	44	95	3	5	-	-	10	10	2500
Chester (Sealand)	1025.1	-10	SE	2	o	45	95	5	5	-	-	10	10	2500
Harrogate	1026.2	0	S	1	m	43	95	4	5	-	-	9+	9+	4150
Spurn Head ...	1027.2	0	S	1	c	45	95	6	5	3	-	4-6	10	2500
Birmingham ...	1026.2	-6	E'N	2	m	45	95	4	5	-	-	10	10	1500
Cranwell	1026.9	-12	SSE	1	o	44	95	6	5	-	-	10	10	800
Gorleston	1027.5	-10	SE	3	bc	47	95	6	-	-	8	0	4-6	-
Valentia Obs. ...	1018.4	-14	SSE	3	c	50	75	8	5	-	-	7-8	7-8	2500
Roches Point ...	1020.1	-10	S	3	c	49	85	8	5	-	-	9	9	2500
Pembroke	1022.5	-12	ESE	3	c	49	95	5	8	-	-	10	10	2500
Ross-on-Wye ...	1024.6	-8	E'S	3	m	46	95	4	5	-	-	10	10	1500
Leafield	1025.2	-8	ESE	3	o	45	95	6	5	-	-	10	10	2500
Cardington ...	1026.6	-6	E'S	1	o	47	95	6	5	-	-	10	10	1500
Winchester ...	1024.8	-14	E'S	3	o	49	85	7	5	-	-	10	10	1500
S. Farnborough ...	1025.2	-2	E'N	2	d	48	95	5	5	-	-	9+	9+	2500
London (Kew) ...	1026.0	-14	NE	2	f	49	85	3	5	-	-	10	10	800
Croydon	1025.8	-14	E'N	2	m	49	95	4	5	3	-	7-8	9+	2500
Manston														
Shoeburyness ...	1026.7	-6	ESE	2	c	48	95	6	5	-	-	9	9	1500
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	1027.5	-6	ESE	3	o	48	95	7	5	-	-	10	10	1500
Scilly (St. Mary's)	1020.2	-20	E'S	4	c	52	85	7	8	-	-	7-8	7-8	4000
Falmouth	1021.8	-14	E	4	c	51	85	7	5	-	-	9	9	4000
Plymouth	1021.6	-22	ESE	3	bc	52	75	7	5	-	-	4-6	4-6	2500
Portland Bill ...	1021.0	-20	E'S	5	c	50	85	7	8	-	-	9+	9+	1500
Calshot, S'hampton	1024.5	-2	E'S	5	c	50	85	6	5	-	-	9+	9+	1500
Dungeness ...	•	•	SE'E	3	d	•	•	56	1	-	•	4-6	4-6	2500
Lympne	1025.7	-12	ESE	3	d	48	95	5	5	-	-	9+	9+	800
Guernsey	1021.7	-20	ENE	2	bc	51	85	6	-	1	-	0	4-6	-

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1020.2	+20	-	0	id	48	95	6	6	1	-	4-6	10	1500	1	*
1019.1	+8	-	0	d	44	95	6	6	-	-	10	10	4000	2	1
1020.3	+10	SW	2	c	45	85	8	5	-	-	7-8	7-8	2500	0	2
1019.8	+6	SSE	3	dd	46	95	7	5	2	-	7-8	10	2500	1	3
1018.8	•	-	0	bc	41	85	8	2	-	9	4-6	4-6	4000	0	*
1022.3	+4	SSW	3	b	42	85	5	-	4	-	0	tr.	-	1	1
1019.4	+4	S	3	b	43	95	7	4	-	-	1	1	4000	0	3
1023.0	+2	S	2	c	39	95	6	5	-	-	7-8	7-8	2500	1	*
1023.1	0	SW	1	o	45	95	7	5	-	-	10	10	800	0	0
1023.2	+10	SW	1	c	43	95	6	5	-	-	9+	9+	4000	1	*
1024.7	+10	S'W	1	d	47	95	5	5	-	-	10	10	800	1	*
1025.1	+2	SSW	1	f	42	95	3	5	7	-	4-6	9	800	0	2
1017.7	+4	SE	4	c	49	75	7	-	5	-	0	7-8	450	0	3
1021.6	+2	SE'E	3	id	46	85	6	5	-	-	10	10	2500	1	*
1021.6	+2	SW	1	c j p	47	95	7	5	-	-	9	9	800	1	0
1020.2	+2	S	1	o	46	95	7	5	-	-	10	10	2500	1	*
1021.3	-2	ESE	3	c	47	95	5	5	-	-	10	10	4000	1	1
1024.1	-2	E	2	o f	45	95	2	5	-	-	10	10	800	0	*
1024.0	-2	SE'S	1	o f	45	95	3	5	-	-	10	10	1500	1	*
1025.7	0	S'E	1	m	43	95	4	5	-	-	10	10	<150	1	*
1026.5	0	SE'S	3	c	46	95	7	4	2	-	4-6	10	4000	0	2
1024.8	-2	ESE	3	o	45	95	5	5	-	-	10	10	2500	1	*
1026.2	-2	E'S	2	f	44	95	3	5	-	-	10	10	450	1	*
1026.5	-8	SE'E	3	c	47	95	7	5	-	3	0	10	-	0	2
1017.6	+12	SE'E	2	c	49	75	8	5	-	-	10	10	1500	1	1
1018.4	-14	SE	2	c	49	95	8	3	-	-	9	9	1500	1	2
1020.4	-4	E'S	4	c	49	95	5	8	-	-	9+	9+	4000	0	2
1023.3	-6	ESE	2	o	46	85	5	5	-	-	10	10	1500	1	*
1023.6	0	E'N	3	o	45	85	5	5	-	-	10	10	2500	1	*
1025.1	-4	ESE	2	o	46	85	6	5	-	-	10	10	1500	1	*
1023.0	-4	NE	3	b	44	85	6	-	-	-	0	0	-	1	*
1023.6	-2	E	2	d	45	85	5	5	-	-	9+	9+	2500	1	*
1024.6	0	E	3	o	48	85	5	5	-	-	10	10	1500	1	*
1024.3	-4	E	2	d	46	95	5	5	-	-	10	10	1500	1	*
1025.0	-6	ESE	2	c	47	95	6	5	-	-	9+	9+	1500	1	*
1025.2	-6	ESE	3	o	47	85	7	5	-	-	10	10	800	0	2
1026.6	-2	E'N	3	o	47	95	7	5	-	-	10	10	2500	0	1
1017.3	-10	E	4	o	50	95	6	5	-	-	10	10	4000	0	2
1018.6	-16	ENE	7	c	51	95	7	5	2	-	7-8	10	4000	0	3
1019.1	-10	E	5	c	49	85	6	5	-	-	7-8	7-8	1500	1	1
1020.0	-12	E'N	6	c	50	85	7	4	-	-	10	10	1500	1	4
1022.7	-	ENE	3	bc	46	95	6	5	-	-	2-3	2-3	1500	0	2
•	•	E	4	m	•	•	4	5	-	•	10	10	1500	•	2
1024.1	-4	ENE	4	d	45	95	5	5	-	-	10	10	800	1	*
1018.9	-8	ENE	3	bc	50	85	6	5	-	-	4-6	4-6	2500	0	3

PAST 24 HOURS.

WEATHER. 7h.–13h. 1st (37)	13h.–18h. 1st (38)	18h. 1st to 1h. 2nd (39)	1h.–7h. 2nd (40)
c i d c	c i d m	o i d m	o i d
o d d	c o d o	b c	b c
c i r b c	b c c	c b c	b c
o D r D r d c	c i d o	c i d c	c
c	c b c	b c x	c
c	c b z o	b 3 o	b c c 3 o
c b c	b c b	b b c c 3 3 o	c 3 o 3 o
c b c	b c c m o	c m o	c o m o
c	c m i r o	o	o
c m o	c b c c r m	c m o	c m o
c o d o m o	o i d o	o	c
b c c f f	c f f	c o f f o	o
c e	o	c	o c
b b c c	c	c d o c m o	c m o
b c c	c	o i d o C	c
b b c c	c o	o d o C	c o r o
c m o c	c m o	c b m o w	b m o w
m f c o	o f f	o m m o	o m o
o d o m o	d o f f	o f m	o m o
o c m	c o m	o m m	o m m
c b d	o c	b c	b c
o m	o m	o	o
d f d o o m	c m o m	o f i d o	o m o c m
o m o b c	b c c	c q	c b c q
c	c	c	c
c	c p o c	c w	c w o 3 o
o m o o	o m o c	o m o q	o m o
o m o	o m o	o m o c	c o m o
o f c	c m o	c	c
o i d o r o c m o	c m o	c m o	c m o
o c	c b c b m o	b m o b c c	c b c m o
o m c m o	c m o m b c m o	c m o m	c m
c m o f	o f o m o w	o m o	c b c m o
o c m o m	c m b c c m o	c m o	c m o b m
c b c c m o	c m o	c m o	b c w
o g e c	c o	o	o c b c b
c m o	c	c b c b	b w b c m o
c	c o	o c	c
o c	o b c o	o c q	c o q
c m o b c	b m o c	c o m o	o i r o m o
c	c	c 3 o	c 3 o
c d o c m o	c m o b w m o	c m o q	c m o w
b c	o	f	f - 3
c o c m m o	c o m o	o c b m o c m	c m b m o w
b c c b c	b c b b c	b c	b c c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

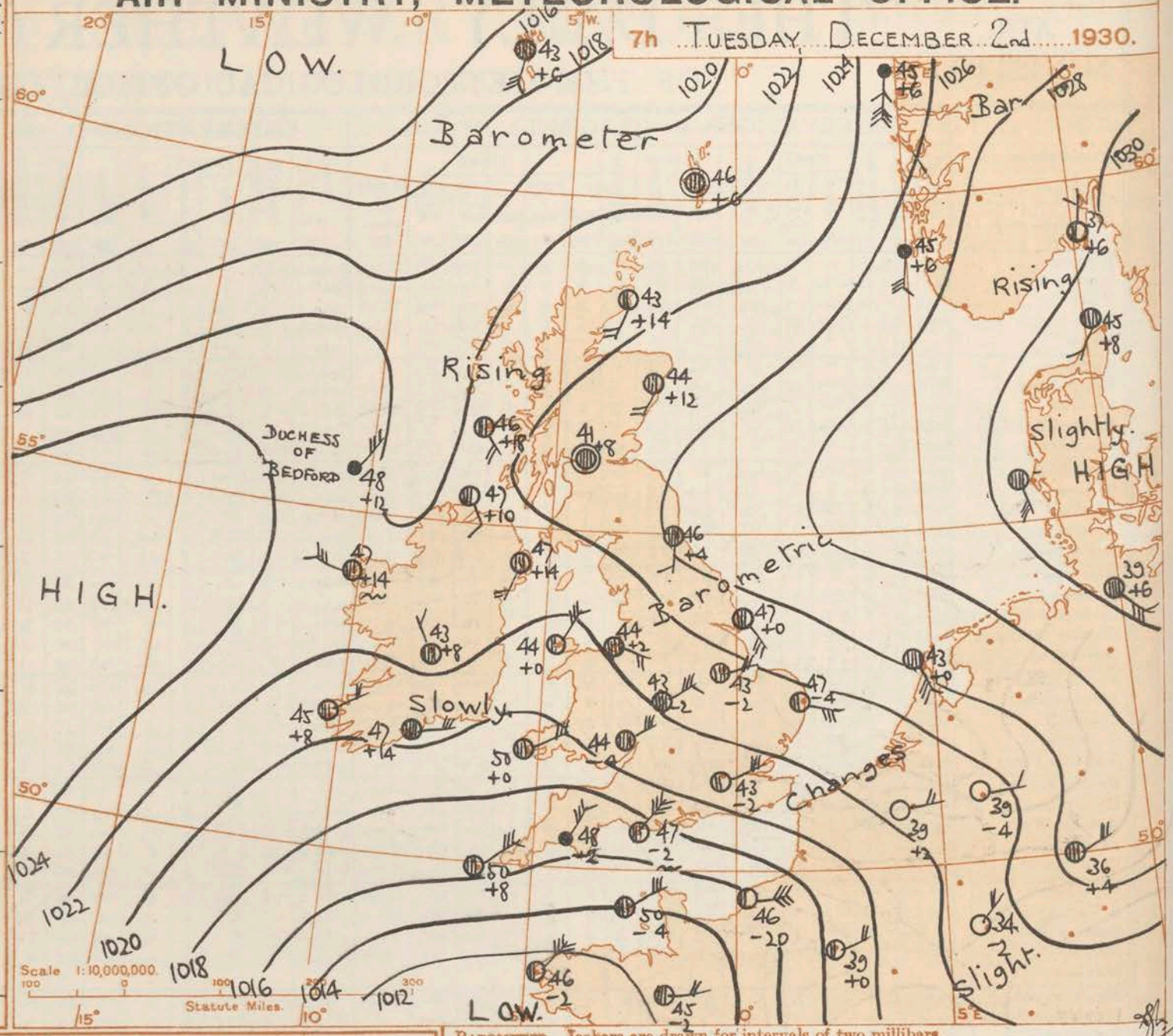
REPORTS from HEALTH RESORTS for 1st December 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 30th to 9h. 1st	TEMPERATURE. Max. 9h.—17h. 1st	RAINFALL. Night. 17h. 30th to 9h. 1st	RAINFALL. Day. 9h.—17h. 1st	SUNSHINE. Sunrise to Sunset. 1st
Dunbar	bc	c	39	47	-	-	1.1
Berwick-on-T.	bc	co	38	46	-	-	1.3
Douglas	cm.	or mom	35	48	-	0.3	0.0
Llandudno	c	c	37	48	-	-	0.0
Colwyn Bay	o	o	40	47	-	-	0.0
Rhyl	cm.	cmp.	36	47	-	-	0.0
Wallasey	of	f	40	46	-	-	0.0
Southport ... ‖ ...	o	o	34	45	-	-	0.0
Blackpool	o	o	34	45	0.1	-	0.0
Morecambe	c	c	36	46	-	-	0.0
Ilkley	mco	of	29	46	Trace	-	0.0
Cleethorpes	fodm	o	43	45	0.3	Trace	0.0
Mablethorpe	od.o	om.e	46	46	Trace	Trace	0.0
Skegness...	mo.o	o	43	45	-	Trace	0.0
Aberystwyth	c	cz	39	49	-	-	0.0
Bath	c	c	45	49	Trace	-	0.0
Cheltenham ... † ...	om.	ocm.	44	48	Trace	-	0.0
Leamington Spa	o	o	44	47	-	-	0.0
Lowestoft	id.om	ocbc c	45	48	0.4	-	2.6
Dovercourt	o	ocbc	45	50	Trace	-	0.8
Maldon	ocb	bcco	45	50	0.3	-	1.9
Southend	cmbcb	co	45	51	0.2	-	2.7
Ilfracombe	c	c	44	51	-	-	0.0
Bude	o	bcb	46	52	-	-	1.4
St. Ives	o	c	46	52	-	-	0.4
Penzance	cbc	cbc	47	53	-	-	1.5
Torquay	oeoz	oco	43	52	-	-	0.2
Jersey	czb	bz	45	52	-	-	6.0
Weymouth	c	c	45	52	-	-	0.0
Bournemouth	ob	co	44	50	-	-	0.5
Ventnor	bc oco	oco	44	52	-	-	1.6
Southsea	cbc	cbec	41	52	-	-	0.8
Bognor Regis	bc	cbc	46	50	-	-	1.1
Littlehampton	cbc	bcbc	46	51	-	-	1.1
Worthing	cbc	coc	46	52	-	-	1.9
Frighton...	bco	bc	46	52	-	-	2.0
Eastbourne ... † ...	cbcc	co	46	51	-	-	2.3
Hastings ... † ...	cmobc	coc	45	51	-	-	0.6
Folkestone	co	oco	46	51	Trace	-	1.3
Dover	cidc	c	46	50	0.1	-	0.0
Deal	bco	o	46	49	-	-	0.5
Tunbridge Wells	co	o	44	50	0.3	-	0.4
Ramsgate	bcc	c	46	49	0.2	-	1.7
Margate	bcc	c	46	51	-	-	1.2

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. TUESDAY, DECEMBER 2nd 1930.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 2nd Dec. 1930.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Moderate easterly to northeasterly winds; mainly fair, day temperature normal; ground frost at night.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. {A. W. Scotld. B. N.W. Scotland.} 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands. 17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light or moderate variable winds; mainly fair, day temperature normal; local fog and ground frost at night.

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

GENERAL INFERENCE.

Barometric pressure is irregular but comparatively high over the British Isles. Weather will be mainly fair and temperature normal.

FURTHER OUTLOOK.

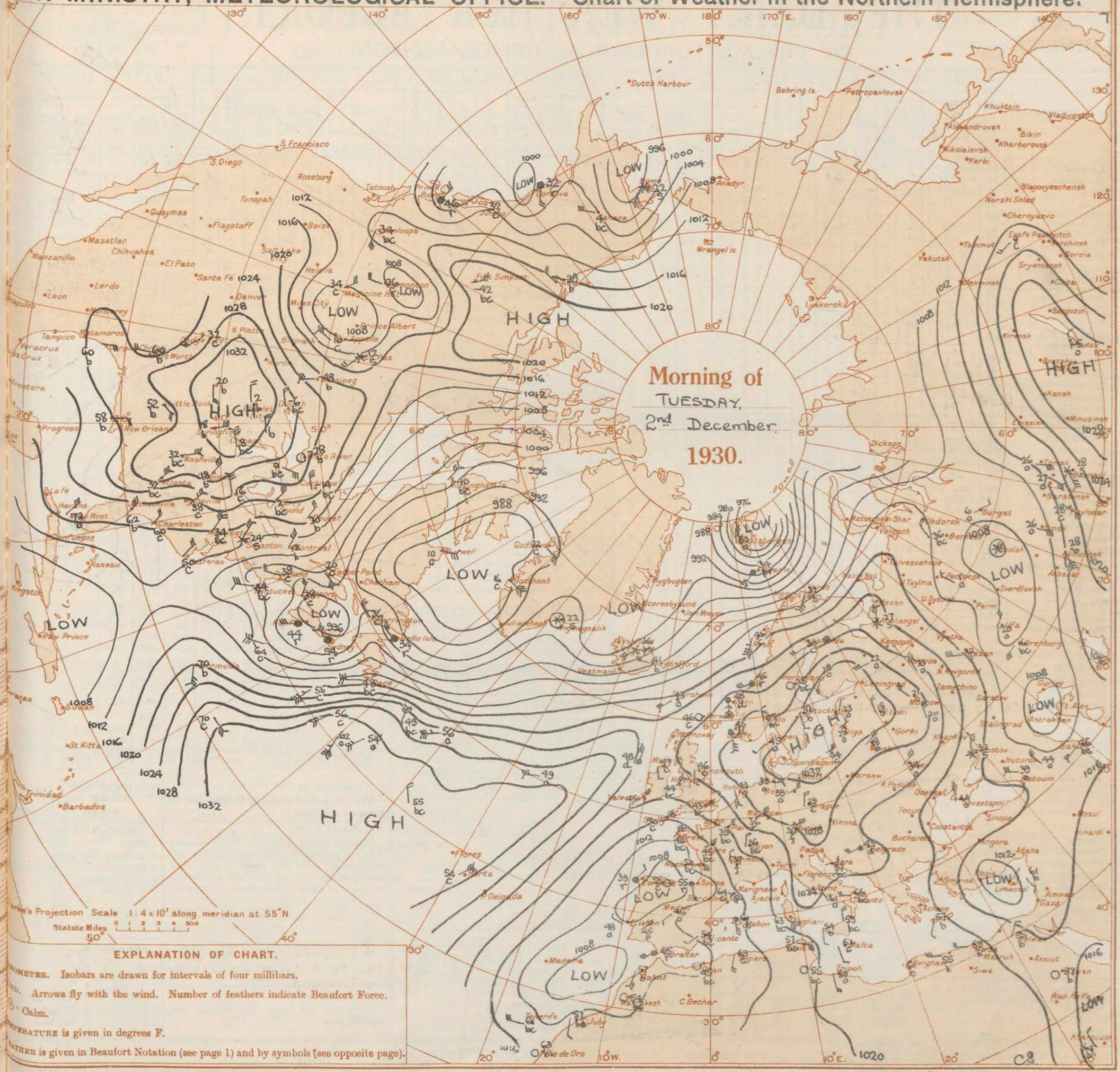
Mainly fair generally at first but doubtful in Western Scotland and Northwestern Ireland.

Forecasts issued at 0900 G.M.T.

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

H.M. Stationery Office Press, Kingsway W.C.2. Fr. 2497/2165. m.26. D.6028. Gp.908.

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

(0) = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 2nd December 1930.

No. 25212

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

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)
Lerwick	54	1020·9	0	-	0	id.	47	95	6	6	2	-	4·6	10	1500
Stornoway ...	34	1019·9	+2	S	4	c	47	85	7	6	3	-	2-3	7-8	4000
Wick	81	1021·1	+2	SSW	2	bc	41	85	8	5	-	8	2·3	2·3	2500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head ...	51	1021·2	+6	-	0	0	46	95	6	5	-	-	10	10	1500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	1025·1	+8	S	2	0	45	85	7	5	-	-	10	10	800
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir ...	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth ...	67	1025·2	0	SSW	2	0	44	95	6	5	-	-	10	10	800
Blacksod Point ...	10	1019·5	+4	SE	3	c	47	85	7	-	5	-	0	7-8	-
Aldergrove ...	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee ...	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle ...	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead... ...	26	1021·1	-8	E'N	2	b	44	95	5	-	-	-	0	0	-
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate... ...	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head ...	29	1024·9	-2	SSE	4	c	46	95	6	6	2	-	2·3	10	4000
Birmingham ...	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1024·3	-4	ESE	3	0	43	95	5	5	-	-	10	10	450
Gorleston	14	1025·0	-12	SE	4	c	46	95	6	4	-	-	10	10	2500
Valentia Obs.† ...	30	1018·8	0	SE	2	b	47	75	9	-	-	-	0	0	-
Roches Point ...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke... ...	150	1019·1	-6	E	4	0	47	95	6	5	-	-	10	10	1500
Ross-on-Wye ...	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington ...	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester ...	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew) ...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1022·0	-14	ENE	3	om.	45	95	5	5	-	-	10	10	1500
Manston	135	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness ...	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1016·2	-8	E	4	c	51	95	6	5	1	-	4·6	7·8	4000
Falmouth... ...	200	1017·4	+6	ENE	6	c	51	95	7	5	-	-	9	9	4000
Plymouth... ...	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill ...	32	1017·4	-12	E'N	6	c	50	85	6	4	-	-	10	10	1500
Calshot, S'hampton	8	1020·3	-16	NE'N	4	0	46	85	6	5	-	-	10	10	1500
Dungeness ...	20	•	•	NE'E	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1021·4	-16	ENE	4	m	43	95	4	5	-	-	9	9	800
Guernsey	173	1017·3	-12	ENE	1	bc	48	95	7	5	-	-	4·6	4·6	2500

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

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)
Lerwick	1021·7	+6	-	0	c	46	95	7	5	2	-	4·6	7·8	1500	1	•
Stornoway ...	1021·3	+14	W	1	c	47	85	7	2	-	-	9+	9+	4000	1	1
Wick	1022·8	+14	SW	2	bc	43	95	8	8	7	8	4·6	4·6	2500	0	2
Tiree	1023·1	+18	S'E	2	c	46	95	7	8	7	-	4·6	9+	2500	1	2
Nairn	1023·8	•	-	0	c	41	95	7	8	-	-	9	9	1500	0	•
Aberdeen	1025·4	+12	S'W	2	c	44	85	6	-	7	-	0	9+	-	1	1
Malin Head ...	1022·6	+10	SSE	1	c	47	95	6	5	1	-	4·6	10	1500	0	3
Renfrew	1025·1	+8	-	0	c	41	95	6	5	1	-	10	10	1500	1	•
Inchkeith (Edin.)	1025·3	+10	S	1	0	45	85	6	5	-	-	10	10	800	0	0
Leuchars	1025·8	+12	-	0	c	40	95	6	8	-	-	9+	9+	4000	1	•
Eskdalemuir ...	1025·6	+4	ENE	3	0	41	85	6	8	-	-	10	10	1500	1	•
Tynemouth ...	1026·2	+4	S	1	0	46	85	7	8	-	-	10	10	800	0	1
Blacksod Point ...	1022·4	+14	W'N	4	c	47	95	7	8	5	-	0	9+	-	0	4
Aldergrove ...	1023·6	+8	ENE	1	0	45	85	6	8	-	-	10	10	4000	1	•
Donaghadee ...	1023·3	+14	SW	2	c	47	85	7	8	-	-	7-8	7-8	1500	0	1
Birr Castle ...	1022·3	+8	NW	1	o/r	43	95	7	5	-	-	10	10	2500	1	•
Holyhead... ...	1021·2	0	NE	4	bc	44	95	7	8	-	5	0	2·3	-	1	1
Liverpool (Bidston)	1022·9	0	ENE	3	0	44	85	6	8	-	-	10	10	1500	0	•
Chester (Sealand)	1022·8	+2	SE'E	2	om.	44	85	5	8	-	-	10	10	1500	0	•
Harrogate... ...	1025·1	0	SE	1	m.	42	95	4	8	-	-	10	10	4150	1	•
Spurn Head ...	1024·1	0	SE'S	3	c	47	85	6	8	2	-	7-8	10	2500	0	3
Birmingham ...	1022·2	-2	ENE	4	0	43	85	6	8	-	-	10	10	1500	1	•
Cranwell	1023·9	-2	E	2	m	43	95	4	8	-	-	10	10	1500	1	•
Gorleston	1023·4	-4	E'S	4	bc	47	95	6	8	6	-	1	4·6	2500	0	3
Valentia Obs.† ...	1020·7	+8	ENE	2	c	45	85	8	8	-	-	9	9	2500	1	x
Roches Point ...	1020·4	+14	E	3	0	47	95	6	8	-	-	10	10	1500	1	2
Pembroke... ...	1019·6	0	NE	4	0	44	95	6	8	-	-	10	10	1500	0	2
Ross-on-Wye ...	1021·2	-4	ENE	3	om.	44	85	6	8	-	-	10	10	1500	1	•
Leafield	1020·9	-4	E'N	4	0	42	95	6	8	-	-	10	10	2500	1	•
Cardington ...	1022·3	-2	E'N	3	0	44	95	6	8	-	-	10	10	1500	1	•
Winchester ...	1019·4	-6	NNE	3	c	43	95	6	5	2	-	4·6	7·8	4000	1	•
S. Farnborough ...	1019·0	-2	NE	3	cm	43	95	4	5	3	1	2·3	7·8	800	1	•
London (Kew) ...	1020·6	-6	ENE	3	bc	46	95	5	5	7	-	4·6	4·6	1500	1	•
Croydon	1020·8	-2	E'N	3	bcm	43	95	4	5	-	1	2·3	2·3	800	1	•
Manston																•
Shoeburyness ...	1021·8	0	E	2	bc	44	95	8	1	-	-	4·6	4·6	5700	1	•
Clacton-on-Sea ...	1021·9	-6	ENE	4	bc	46	95	7	1	-	-	2·3	2·3	800	0°	2
Felixstowe ...	1024·4	-2	ENE	3	bcm.	46	95	6	-	-	1	0	4·6	-	1	1
Scilly (St. Mary's)	1016·3	+8	NEE	4	c	50	95	6	5	-	-	9+	9+	4000	0	2
Falmouth... ...	1016·8	+6	N'E	2	c	50	85	7	8	2	-	4·6	10	4000	0	2
Plymouth... ...	1015·9	-2	NE	4	ir.	48	85	6	6	1	-	9	10	1500	1	1
Portland Bill ...	1016·1	-2	NE	6	c	47	85	6	4	-	-	10	10	1500	0	5
Calshot, S'hampton	1018·7	-8	NE	3	c	45	85	6	5	-	-	9	9	2500	0	1
Dungeness ...	•	•	ENE	3	bc	•	•	6	5	-	•	2·3	2·3	4000	•	2
Lympne	1019·8	-6	ENE	4	bcm.	44	85	6	4	-	4	Tr.	4·6	7200	1	3
Guernsey	1014·7	-4	ENE	3	c	50	85	6	5	-	-	7·8	7·8	2500	1	3

PAST 24 HOURS.

Stations.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 1st Hrs. (36)
Lerwick	49	45	•	Tr.	0.6	0.0
Stornoway ...	48	43	•	3	2	0.0
Wick	49	37	•	0.4	-	•
Tiree	47	43	39	5	0.1	0.0
Nairn	47	33	•	-	-	0.0
Aberdeen	47	40	33	-	-	0.0
Malin Head ...	47	41	•	-	-	5.9
Renfrew	49	38	31	-	-	1.6
Inchkeith (Edin.)	47	44	43	Tr.	-	0.6
Leuchars	49	39	33	-	-	1.7
Eskdalemuir ...	42	39	37	Tr.	-	0.0
Tynemouth ...	44	42	33	-	-	•
Blacksod Point ...	51	45	•	-	-	•
Aldergrove ...	46	43	42	Tr.	0.1	1.8
Donaghadee ...	48	41	•	-	0.4	•
Birr Castle ...	46	43	40	-	Tr.	0.0
Holyhead... ...	49	42	29	-	-	0.0
Liverpool (Bidston)	45	44	43	-	-	0.0
Chester (Sealand)	45	44	42	Tr.	-	0.0
Harrogate... ...	43	42	40	-	-	0.0
Spurn Head ...	46	45	•	Tr.	-	0.0
Birmingham ...	46	42	42	-	-	0.0
Cranwell	45	41	36	0.1	Tr.	0.0
Gorleston	49	45	45	-	-	2.6
Valentia Obs.† ...	51	42	37	-	-	0.0
Roches Point ...	50	46	•	Tr.	Tr.	•
Pembroke... ...	50	43	•	-	-	0.0
Ross-on-Wye ...	47	43	42	-	-	0.0
Leafield	46	49	41	-	-	0.0
Cardington ...	47	44	44	Tr.	-	0.0
Winchester ...	49	43	39	-	-	0.2
S. Farnborough ...	48	43	39	-	-	0.0
London (Kew) ...	50	45	44	-	-	0.0
Croydon	49	43	39	-	-	0.0
Manston						
Shoeburyness ...	50	41	35	-	-	2.4
Clacton-on-Sea ...	50	46	43	-	-	1.5
Felixstowe ...	49	45	42	-	-	0.6
Scilly (St. Mary's)	54	48	•	-	-	2.1
Falmouth... ...	52	50	•	-	-	1.2
Plymouth... ...	52	46	46	-	Tr.	2.3
Portland Bill ...	52	45	•	-	-	•
Calshot, S'hampton	51	44	40	Tr.	-	0.1
Dungeness ...	51	44	•	-	-	•
Lympne	48	42	40	0.1	Tr.	0.0
Guernsey	51	48	42	-	-	4.6

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	cmo f	ofom.w	om.cbcm.	50	45	44	-	-	0.0	•	•	3
Croydon	244	ocm.w	cmbcm.	cm.bm	49	43	39	-	-	0.0	89	97	4
Greenwich (Royal Observatory) ...	149	ofm	cmc	cw.m	49	42	36	-	Tr.	0.0	•	•	4
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	51	45	41	-	-	0.0	87	87	•
Regents Pk. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	omo	o	•	48	44	37	-	-	•	•	94	•
Kensington Palace	80	co	co	•	49	45	37	-	-	•	At 18h. 89	96	•
Hampstead Observatory	459	of	odo	•	47	40	37	Tr.	Tr.	0.0	•	97	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
1.0	10h 1st	0.3	5h 6h 2nd

Kew Observatory. Max.	Time.	Min.	Time.
0.6	10h 1st	0.1	3h 2nd

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 1st Dec. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 2nd Dec. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1022·1	NE	2	b	43	1018·7	ESE	1	c	45
Brussels	1025·4	NE'E	2	b	43	1022·2	E	2	b	39
Berlin	1031·3	NNW	1	0	43	1031·1	ENE	2	0	39
Zürich	1029·6	SW	1	0	43	1026·0	E	1	om.	41
Rome						1022·3	ENE	2	c	52

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
45	43	-	-
46	?	-	-
45	37	-	-
45	39	-	-
	48		

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

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

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 3rd December 1930.

No. 25213

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

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)
Lerwick	1023.6	+6	SSW	2	bc	47	85	7	5	8	-	2-3	4-6	1500
Stornoway ...	1026.8	+16	W	1	c	46	95	7	7	9	-	4-6	7-8	4000
Wick	1025.0	+8	SW	2	bc	47	85	8	5	7	-	4-6	4-6	4000
Tiree	1026.1	+10	SW'W	1	c	49	85	6	5	3	-	2-3	9+	4000
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1027.2	+6	SSW	3	c	47	75	5	5	-	-	9+	9+	2500
Malin Head ...	1025.3	+8	NE	1	c	49	95	5	5	3	-	7-8	9+	1500
Renfrew	1026.9	+6	-	0	of	44	85	3	5	-	-	10	10	2500
Inchkeith (Edin.)	1027.3	+4	SE	1	o	45	85	6	5	-	-	10	10	800
Leuchars	1027.3	+2	-	0	m	43	95	4	5	-	-	10	10	4000
Eskdalemuir ...	1026.8	0	ENE	2	o	42	85	6	5	-	-	10	10	800
Tynemouth ...	1027.1	+6	SE	2	o	48	85	7	5	-	-	10	10	1500
Blacksod Point ...	1025.7	+12	E	3	c	48	95	7	5	-	-	9+	9+	2500
Aldergrove ...	1026.1	+2	N'E	1	c	46	95	5	6	2	-	4-6	10	4000
Donaghadee ...	1025.7	+2	E	2	c	47	85	7	5	2	-	4-6	7-8	2500
Birr Castle ...	1024.8	+6	NE	1	c	46	95	6	-	1	-	0	10	-
Holyhead... ...	1021.9	-10	NE'E	5	c/pr	46	95	5	5	3	-	1	9+	1500
Liverpool (Bidston)	1024.2	-2	NNE	1	f	45	85	2	5	-	-	10	10	800
Chester (Sealand)	1023.8	-2	NE	1	fm	46	75	4	-	3	-	0	4-6	-
Harrogate... ...	1025.8	0	ESE	1	f	44	95	3	5	-	-	10	10	<150
Spurn Head ...	1024.5	0	SE'E	4	c	46	95	7	5	7	-	7-8	10	5700
Birmingham ...	1023.0	-2	ENE	3	m	44	85	4	5	-	-	9	9	1500
Cranwell	1024.2	-6	E	3	c	46	85	6	5	-	-	10	10	800
Gorleston	1023.6	-4	E'S	4	bc	48	95	6	7	-	-	4-6	4-6	4000
Valentia Obs. ...	1024.1	+2	N'E	4	bc	50	75	7	5	-	-	4-6	4-6	1500
Roches Point ...	1021.5	-6	N	3	bc	48	85	7	5	-	9	2-3	4-6	1500
Pembroke... ...	1019.1	-2	NE	3	c	47	95	6	5	7	-	7-8	9+	5700
Ross-on-Wye ...	1021.8	0	NE	3	cz	45	85	5	5	-	-	10	10	2500
Leafield	1024.6	+6	NE	4	c	44	95	6	5	-	-	7-8	7-8	5700
Cardington ...	1022.2	-4	ENE	3	c	47	85	6	5	-	-	9	9	800
Winchester ...	1018.4	-2	NE'N	3	bc	50	75	6	-	3	1	0	4-6	-
S. Farnborough ...	1019.8	+2	NE	3	m	48	85	4	5	3	-	4-6	4-6	800
London (Kew) ...	1024.0	0	ENE	2	m	48	85	4	-	-	9	0	4-6	-
Croydon	1026.8	0	NE'E	3	z	49	85	5	5	4	-	2-3	2-3	800
Shoeburyness ...	1021.5	-4	ENE	3	b	48	95	6	-	4	-	0	1	-
Clacton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe ...	1022.8	-6	NE'E	3	bc	47	85	7	-	3	9	0	4-6	-
Scilly (St. Mary's)	1016.1	-6	NE'N	5	c	49	95	6	8	-	-	9	9	4000
Falmouth... ...	1017.1	+16	NNE	2	c	48	95	6	5	2	-	7-8	10	4000
Plymouth... ...	1016.1	-8	NE	3	c	51	75	6	5	2	-	9	9+	2500
Portland Bill ...	1015.3	-10	NEE	6	c	52	75	6	4	5	2	4-6	9	1500
Calshot, S'hampton	1018.3	-6	NE	4	c	52	85	6	-	5	6	0	7-8	-
Dungeness ...	*	*	E	3	z	*	*	5	-	3	*	0	2-3	-
Lympne	1020.4	0	NE	3	z	48	75	6	-	3	-	0	1	-
Guernsey	1014.8	0	E	1	z	53	85	6	5	-	-	9+	9+	2500

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

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)
Lerwick	1026.5	+16	-	0	c	45	95	7	8	4	9	4-6	7-8	1500	1	*
Stornoway ...	1027.8	+14	-	0	bc	39	95	8	-	7	-	0	2-3	-	1	1
Wick	1027.8	+20	W	2	c	43	95	8	8	2	-	7-8	10	2500	0	2
Tiree	1028.8	+16	NNE	2	c	45	95	6	5	3	-	1	7-8	4000	1	2
Nairn	1027.9	*	-	0	c	41	95	6	8	-	-	7-8	7-8	2500	0	*
Aberdeen	1029.4	+18	-	0	c	44	85	4	5	-	-	9+	9+	4000	1	1
Malin Head ...	1028.2	+16	-	0	m	47	95	4	5	-	-	10	10	1500	0	2
Renfrew	1029.2	+24	NE	1	z	42	85	5	-	3	-	0	4-6	-	1	*
Inchkeith (Edin.)	1029.1	+8	NE	2	o	44	95	6	5	-	-	10	10	800	0	0
Leuchars	1029.4	+18	S	1	m	42	95	4	5	-	-	10	10	2500	1	*
Eskdalemuir ...	1028.8	+20	NE	3	o	42	95	6	5	-	-	10	10	800	1	*
Tynemouth ...	1029.2	+10	ESE	2	o	47	85	8	5	-	-	10	10	1500	0	2
Blacksod Point ...	1028.9	+18	N	5	c	47	85	7	8	-	-	7-8	7-8	450	1	4
Aldergrove ...	1028.4	+18	N	2	bc	43	95	5	5	7	-	2-3	4-6	4000	1	*
Donaghadee ...	1027.5	+16	E	2	c	48	85	7	5	2	-	4-6	7-8	2500	0	2
Birr Castle ...	1026.8	+16	NNE	1	c	44	95	7	-	3	-	0	9+	-	1	*
Holyhead... ...	1023.5	+8	NE	5	m	47	95	4	-	3	-	0	9+	-	1	3
Liverpool (Bidston)	1025.0	+6	E'N	4	cf	46	85	3	5	-	-	9	9	800	0	*
Chester (Sealand)	1024.3	+10	-	0	cf	43	95	2	5	3	-	4-6	10	2500	1	*
Harrogate... ...	1027.7	+10	E	1	m	44	95	4	5	-	-	10	10	<150	1	*
Spurn Head ...	1026.2	+2	ESE	4	o	46	95	7	5	-	-	10	10	5700	0	3
Birmingham ...	1024.5	+8	ENE	4	o	44	85	7	5	-	-	10	10	1500	1	*
Cranwell	1026.4	+18	E	2	o	44	85	6	5	-	-	10	10	800	1	*
Gorleston	1024.8	+10	E'S	4	c	47	85	6	4	2	-	4-6	10	2500	0	3
Valentia Obs. ...	1025.5	+10	NE'N	4	c	48	85	8	5	-	-	9	9	1500	1	3
Roches Point ...	1022.3	-6	N	4	c	47	85	7	3	-	-	7-8	7-8	1600	1	3
Pembroke... ...	1019.3	+2	NE	4	pr	47	95	6	3	2	-	4-6	10	2500	1	2
Ross-on-Wye ...	1022.6	+6	NE	3	oz	46	85	5	5	-	-	10	10	1500	1	*
Leafield	1022.8	+8	NE'E	2	c	44	95	6	5	-	-	10	10	2500	1	*
Cardington ...	1023.9	+10	NE'E	3	c	44	95	6	5	-	-	10	10	1500	1	*
Winchester ...	1020.6	+6	NE'N	4	m	45	95	4	5	-	1	4-6	9	5700	1	*
S. Farnborough ...	1020.9	+10	NE	3	m	45	95	4	5	-	-	9+	9+	800	0	*
London (Kew) ...	1022.3	+10	ENE	4	c	46	85	5	5	-	-	7-8	7-8	1500	1	*
Croydon	1021.7	+6	NE'E	3	m	45	95	4	5	-	-	10	10	800	1	*
Shoeburyness ...	1022.7	0	E'N	2	bc	44	95	6	-	7	-	0	4-6	-	1	*
Clacton-on-Sea ...	1023.2	+10	NE	4	bc	47	95	6	-	-	8	0	4-6	-	0	2
Felixstowe ...	1024.1	+10	NE'E	4	z	47	95	6	5	-	-	2-3	2-3	1500	0	2
Scilly (St. Mary's)	1016.4	0	NE'N	4	o	50	95	6	5	-	-	10	10	4000	0	2
Falmouth... ...	1017.1	+4	NE	4	r	50	85	6	6	2	-	7-8	10	2500	1	3
Plymouth... ...	1017.4	+14	ENE	5	o	51	75	6	5	-	-	10	10	2500	1	1
Portland Bill ...	1017.0	+10	NE'E	5	c	51	75	5	4	1	-	7-8	9	1500	0	4
Calshot, S'hampton	1019.0	+6	NE	3	bc	48	75	6	-	5	-	0	4-6	-	0	1
Dungeness ...	*	*	E	5	f	*	*	3	4	7	*	4-6	4-6	1500	*	3
Lympne	1021.1	+2	NE	5	z	44	95	5	-	7	6	0	7-8	-	1	*
Guernsey	1016.1	+10	ENE	1	o	52	85	6	5	-	-	10	10	2500	1	2

PAST 24 HOURS.

STATIONS. (For heights see p. 4.)	WEATHER. 7h.—13h. 2nd (37)	13h.—18h. 2nd (38)	18h. 2nd to 1h. 3rd (39)	1h.—7h. 3rd (40)
Lerwick	cbc	bcciro,c	cbc	bcc
Stornoway ...	c	bc	b	bc
Wick	bc	bcc	cbc	bc
Tiree	cbcmo	cmid	bcbf	bcx,
Nairn	cmo	c	cbc	bcx
Aberdeen	cjo	cjojj	cbcz	bzo
Malin Head ...	cjojo	cro m	cbcmmc	cmmOFF
Renfrew	omcmff	ff mbc	bcc,f	cff
Inchkeith (Edin.)	omomo	omomo	cc,m,pr	bccom,pr
Leuchars	cmcm	omofcm	cm	cbxm
Eskdalemuir ...	omo	opro	obbc	bco
Tynemouth ...	o	o	o	o
Blacksod Point ...	c	ir	c	bcb
Aldergrove ...	cmo	cmbcm	bcmo	bcm cmo
Donaghadee ...	c	c	cidic	c
Birr Castle ...	oc	c	c	c
Holyhead... ...	bcom,pr	cmom	cmmf W	cmbmo
Liverpool (Bidston)	fuFz	oFf	cof	off
Chester (Sealand)	ombcj	mrofff,c	bccff	coff
Harrogate... ...	omf	ofm	omm	o
Spurn Head ...	bc	bc	bc	co
Birmingham ...	oc	cmo	o	o
Cranwell	cmo	cmo	fmo	cmo
Gorleston	bcq	bccq	cq	cqc
Valentia Obs. ...	cbc	bcc	bc	bc
Roches Point ...	oc bc	civroc	cbccW	c
Pembroke... ...	orpc	cpo	cirmo	cbcmo
Ross-on-Wye ...	omcomo	como	omo	omo
Leafield	cbc	c	c	c
Cardington ...	cmo	bccmow	cwmbw	bwcmo
Winchester ...	bccbcmo	bcmcm	cmbcmo	bcmocmo
S. Farnborough ...	cmbcm	bcmcm	cmcmo	cmo omo
London (Kew) ...	ofbcz	bczbcmo	cmo	cmo
Croydon	cmbchmo	bccmom	om	omocmo
Shoeburyness ...	bc bmo	bmobcmo	bc	c
Clacton-on-Sea ...	bbc	bc	bcc	coc
Felixstowe ...	bczoc	bccmobc	bcmc	c
Scilly (St. Mary's)	cirro	c	rrm	orrm
Falmouth... ...	oirmo	oirmo	omarrq	omorrbcq
Plymouth... ...	cirromc	como	omoror	cbmo
Portland Bill ...	cjo	cmo	cirs mo	cirs cmo
Calshot, S'hampton	cbc cmo	cmbcmo	bcomo	cbc cmo
Dungeness ...	b	f	f	f
Lympne	bambzo	bbcmo	bccmw	cbcmom
Guernsey	cbccz	cpro	oidoc	co

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus, R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, solar halo. ☾, lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

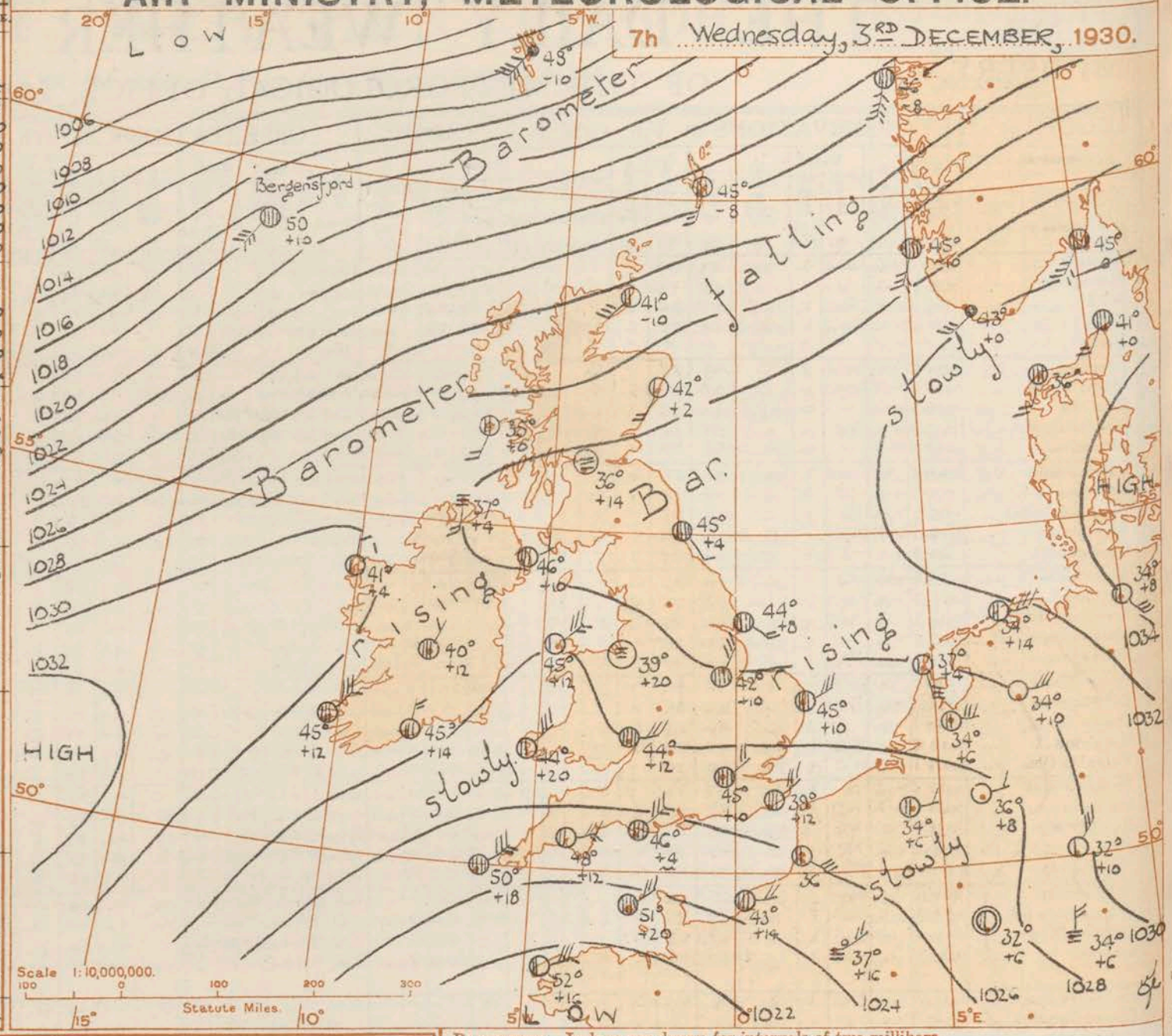
REPORTS from HEALTH RESORTS for 2nd December 1930.

Stations	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 1st to 9h. 2nd	Temperature. Max. 9h.—17h. 2nd	Rainfall. Night. 17h. 1st to 9h. 2nd	Rainfall. Day. 9h.—17h. 2nd	Sunshine. Sunrise to Sunset. 2nd
Dunbar	om$_o$	om$_o$	41	46	-	-	0·0
Berwick-on-T.	0	0	42	46	-	-	0·0
Douglas	om$_o$	o/$_o$-b	44	46	-	Trace	0·0
Llandudno	c	cd$_o$m$_o$	41	46	-	Trace	0·0
Colwyn Bay	0	0	38	45	-	-	0·0
Rhyl	cm$_o$	cm$_o$	42	46	-	-	0·0
Wallasey	fo	op$_o$f	44	47	-	Trace	0·0
Southport ‖	zoc	0	41	46	-	-	0·0
Blackpool	c	c	40	47	-	-	0·2
Morecambe	cb	cbc	39	47	-	-	0·5
Ilkley	om	omo	42	46	-	-	0·0
Cleethorpes	ndo	0	44	47	/	-	0·0
Mablethorpe	om$_o$	om$_o$	44	47	-	-	0·0
Skegness	ocb	0	43	47	-	-	0·2
Aberystwyth	cz	cz	42	49	-	-	0·6
Bath	cbc	bcc	44	49	-	-	1·4
Cheltenham †	cwm$_o$	c	43	47	-	-	0·0
Leamington Spa	0	0	43	47	-	-	0·0
Lowestoft	bc	bc	45	48	-	-	5·6
Dovercourt	bcc	bcoc	45	49	-	-	2·1
Malden	mocb	bbco	43	49	-	-	3·0
Southend	bcmb	bcmc	44	50	Trace	-	2·1
Ilfracombe	0	0	43	49	-	-	0·0
Bude	0	c	44	53	-	-	0·0
St. Ives	0	0	46	49	Trace	-	0·0
Penzance	c	com	48	50	0·1	-	0·0
Torquay	omq	omcm	45	51	-	-	0·0
Jersey	cbcz	cgz	45	53	-	-	1·5
Weymouth	cbc	c	45	52	-	-	1·3
Bournemouth	cbcc	oc	43	51	-	-	2·7
Ventnor	ocbz	ocz	45	52	-	-	2·7
Southsea	bbc	co	43	54	-	-	3·7
Bognor Regis	bc	bccbc	43	53	-	-	3·1
Littlehampton	bc	bcc	43	53	-	-	3·2
Worthing	bc	bcc	43	53	-	-	3·3
Brighton	ocb	bc	44	54	-	-	2·6
Eastbourne †	cbc	bcc	46	51	-	-	2·1
Hastings †	cbcbbc	bcc	44	51	-	-	3·8
Folkestone	wbam$_2$	bccbc	43	50	-	-	2·2
Dover	bc	bccbc	44	49	-	-	2·0
Deal	bc	bcc	44	48	0·3	-	2·2
Tunbridge Wells	cbc	bcc	41	51	-	-	2·6
Ramsgate	bbc	bc	44	49	-	-	2·9
Margate	bc	bc	44	48	-	-	3·8

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Wednesday, 3rd DECEMBER, 1930.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 3rd Dec. 1930.
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	Light or moderate variable winds, fair; day temperature normal; local fog and frost at night.
13. A. W. Scotld. / B. N.W. Scotland.	Moderate or fresh southwesterly winds falling light variable, mainly fair; day temperature normal; local fog at night.
14. Mid-Scotland	As 1 - 13A.
15. N.E. Scotland	As 13B.
16. Orkneys and Shetlands.	
17. N.W. Ireland 18. N.E. Ireland 19 S.E. Ireland 20. S.W. Ireland	Light or moderate variable to southwesterly winds; mainly fair, day temperature normal; some fog at night; ground frost inland.

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

GENERAL INFERENCE.

A ridge of high pressure across the country will maintain fair, quiet weather generally.

FURTHER OUTLOOK.

Becoming unsettled on the northwestern seaboard and perhaps also on the western one.

Forecasts issued at 0900 G.M.T.

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

H.M. Stationery Office Press, Kingsway, W.C.2. F.—2497/2165. m. 26. 0.6026. Gp. 908. 3/30.

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

Morning of
Wednesday,
3rd December,
1930.

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 the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 3rd December 1930.

No. 25213

OBSERVATIONS at 1 hr. G.M.T. 3rd Dec. — OBSERVATIONS at 7 hr. G.M.T. 3rd Dec. — PAST 24 HOURS.

Stations.	Height above M.S.L. in feet.	1 hr. Barom. at M.S.L. mb. (1)	1 hr. Change in 3 hours. (2)	1 hr. Wind. Direc. (3)	1 hr. Wind. Force. 0-12 (4)	1 hr. Weather. (5)	1 hr. Temp. °F. (6)	1 hr. % Humid. (7)	1 hr. Visibility 0-9 (8)	1 hr. 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)	7 hr. Barom. at M.S.L. mb. (15)	7 hr. Change in 3 hours. (16)	7 hr. Wind. Direc. (17)	7 hr. Wind. Force. 0-12 (18)	7 hr. Weather. (19)	7 hr. Temp. °F. (20)	7 hr. % Humid. (21)	7 hr. Visibility 0-9 (22)	7 hr. 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 hrs. 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)
Lerwick	54	1025.5	-12	SW	2	b	45	95	7	5	8	-	Tr.	1	2600	1023.0	-8	SW	3	c	45	95	7	5	1	-	2-3	3+	1500	0	*	48	43	*	Trace	-	1.2
Stornoway	34	1027.3	-16	W	3	b	42	95	7	-	-	-	0	0	-	1025.6	0	SW	4	c	45	85	8	4	2	-	4-6	9+	4000	1	2	48	35	*	-	-	1.0
Wick	81	1028.6	+2	WSW	2	bc	38	95	8	4	5	6	4-6	4-6	2600	1026.9	-10	WSW	3	bc	41	95	8	5	1	8	2-3	4-6	4000	1	2	47	36	*	-	-	*
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1029.9	0	SSW	2	bc	35	95	9	5	3	8	Tr.	4-6	4000	1	2	49	34	23	0.1	-	1.3
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1027.5	*	-	0	bc	39	86	8	5	-	-	4-6	4-6	4000	0	*	45	37	*	-	-	0.0
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1029.6	+2	SSW	2	b	41	85	6	-	3	1	0	Tr.	-	1	1	47	38	29	-	-	0.0
Malin Head	51	1029.6	+2	SSE	1	m	43	95	4	5	5	-	4-6	9+	2500	1030.8	+4	SSE	2	F	37	95	1	5	-	-	10	10	4150	0	2	49	35	*	Trace	-	0.0
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.8	+14	-	0	f	36	95	2	5	-	-	10	10	4150	1	*	45	34	26	-	-	0.0
Inchkeith (Edin.)	190	1029.3	+2	NE	1	z	43	95	5	5	8	-	2-3	7-8	800	1030.6	+4	W	1	z	42	95	5	5	-	-	10	10	800	1	0	46	42	35	-	1	0.0
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1030.6	+4	WSW	2	m	33	95	4	5	-	-	1	1	4000	1	*	43	32	25	-	-	0.0
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.3	+10	NE	1	0	40	95	6	5	-	-	10	10	800	1	*	42	37	31	0.1	-	0.0
Tynemouth	67	1029.6	+4	E	2	0	47	86	8	5	-	-	10	10	1500	1030.5	+4	ESE	1	0	45	85	8	5	-	-	10	10	1500	0	2	48	45	42	-	-	*
Blacksod Point	10	1030.2	+6	N	1	C	45	95	7	-	7	-	0	9+	-	1031.2	+4	N	1	b	41	95	7	5	-	-	1	1	4150	0	2	49	40	*	0.4	Tr.	*
Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.8	+14	NNW	1	C	39	95	5	5	-	-	7-8	7-8	1600	1	*	46	34	28	-	Tr.	0.0
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1030.3	+10	ENE	1	C	46	95	7	5	-	-	7-8	7-8	1500	0	1	48	45	*	-	0.2	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.7	+12	NNE	1	C	40	95	8	6	-	-	7-8	7-8	4000	1	*	47	39	34	-	-	0.4
Holyhead	26	1026.0	+10	ENE	4	m	45	95	4	-	-	9	0	7-8	-	1027.9	+12	NEE	5	b	45	95	5	-	3	-	0	Tr.	-	1	3	47	44	38	Trace	-	0.0
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1030.3	+14	NE	2	f	41	95	3	5	-	-	10	10	1500	0	*	46	39	35	-	-	0.0
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1029.8	+20	-	0	f	39	95	2	5	-	-	10	10	1500	*	*	46	34	30	Trace	-	0.0
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1031.5	+10	E	1	0	41	95	5	5	-	-	10	10	2500	1	*	45	41	40	-	-	0.0
Spurn Head	29	1027.7	+2	ESE	4	C	45	95	7	5	2	-	7-8	10 (7-8)	4000	1030.1	+8	E'S	2	0	44	95	6	5	-	-	10	10	2500	0	3	47	43	*	-	-	0.0
Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1029.7	+12	NE	3	0	42	95	5	5	-	-	10	10	1500	1	*	45	42	42	-	-	0.0
Cranwell	241	1028.0	+4	E	3	C	44	95	5	5	-	-	10	10	800	1030.3	+10	NE	3	C	42	95	5	5	-	-	10	10	800	1	*	47	42	41	-	-	0.0
Gorleston	14	1026.5	-4	ENE	4	C	46	86	6	4	-	-	10	10	2500	1028.8	+10	E'N	3	C	46	85	6	4	-	-	10	10	4000	0	3	48	45	43	-	-	2.3
Valentia Obs.†	30	1026.5	-6	NE	4	bc	46	85	9	8	-	-	2-3	2-3	4000	1028.6	+12	NE	4	C	45	85	8	7	-	-	7-8	7-8	2500	1	-	50	49	44	-	-	3.1
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.0	+14	N	2	C	45	95	7	5	-	-	7-8	7-8	1500	1	3	49	43	*	0.1	-	*
Pembroke	150	1024.0	+14	NE	4	C	46	95	6	5	7	-	4-6	9	4000	1026.3	+20	NE	3	bc	44	95	6	-	4	5	0	4-6	1500	1	2	49	43	*	0.2	3	0.0
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.5	+12	NE	3	0 Fm	44	85	6	5	-	-	10	10	4000	1	*	46	44	42	-	-	0.0
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.3	+14	NE	3	0	42	95	6	5	-	-	10	10	2500	1	*	45	42	41	-	-	1.2
Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.7	+10	NE	2	0	44	85	6	5	-	-	10	10	800	1	*	47	44	43	-	Tr.	0.0
Winchester	272	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1027.0	+8	NNE	2	0	43	95	6	5	-	-	10	10	1500	1	*	50	43	39	-	-	2.8
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1026.9	+12	NE	2	0	45	85	5	5	-	-	10	10	800	1	*	48	44	42	-	-	1.1
London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1027.7	+12	NE	3	C	46	85	6	5	-	-	9+	9+	1500	1	*	49	46	46	-	-	0.3
Croydon	244	1024.9	+10	ENE	3	z	46	95	5	5	-	-	10	10	800	1026.3	+10	NEE	2	z	45	85	5	5	-	-	10	10	800	0	*	49	46	43	-	-	1.3
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1027.4	+10	NE	2	C	46	95	7	5	-	-	9+	9+	2500	0	*	49	42	39	-	-	3.5
Clacton-on-Sea	55	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1027.3	+14	ENE	3	C	45	95	6	5	-	-	7-8	7-8	800	0	2	48	45	44	-	-	3.1
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.3	+10	NEN	3	0	45	95	7	5	-	-	10	10	2500	0	2	47	44	43	-	-	2.2
Scilly (St. Mary's)	163	1020.4	+12	NEE	4	RR	50	95	5	6	-	-	10	10	2500	1024.2	+18	ENE	5	0	50	95	5	5	-	-	10	10	4000	1	3	50	48	*	Trace	4	0.0
Falmouth	200	1021.7	+10	NEE	6	rr	49	95	6	6	-	-	10	10	2500	1025.2	+16	E	5	bc	49	95	6	5	-	-	4-6	4-6	4000	1	3	51	49	*	Trace	4	0.0
Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.3	+12	E	3	C	48	75	6	6	-	-	9	9	2500	1	1	52	46	45	Trace	1	0.0
Portland Bill	32	1021.9	+16	NE	5	bc	48	85	5	4	2	-	7-8	10	2500	1026.5	+4	NE	5	C	46	85	5	4	2	-	7-8	10	2500	1	4	53	45	*	-	Tr.	"
Calshot, S'hampton	8	1023.3	+6	NE	3	C	46	86	6	-	5	6	0	7-8	-	1026.4	+16	N	1	C	43	95	6	5	3	6	2-3	7-8	4000	0	0	53	43	36	-	-	2.9
Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	E	3	m	*	*	4	5	5	*	4-6	4-6	1500	*	2	60	43	*	-	-	*
Lympne	347	1023.9	+8	NE	4	z	44	95	5	5	-	-	9	9	2500	1026.7	+12	NEN	3	m	39	95	4	5	-	2	2-3	7-8	1500	1	*	49	35	30	-	-	3.4
Guernsey	173	1020.7	+12	-	0	C	53	95	6	5	1	-	4-6	7-8	2500	1023.1	+20	NE	3	0	61	95	6	6	-	-	10	10	2500	1	3	53	52	45	0.1	0.2	1.2

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather Morning.	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	bc f	bc bc m	c m	49	46	46	-	-	0.3	*	*	6
Croydon	244	c m bc m	bc c m m	o m c m	49	45	43	-	-	1.3	*	*	5
Greenwich (Royal Observatory)	149	c m	c m	c o m	49	45	40	-	-	0.2	87	84	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	50	46	43	-	-	0.2	87	81	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	c bc	bc	*	47	45	39	-	-	*	*	86	*
Kensington Palace	80	c bc	bc m	*	48	45	41	-	-	*	At 18h. 93	83	*
Hampstead Observatory	450	c bc o	o	*	47	41	39	-	-	1.4	*	88	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
1.0	10h 2nd	<0.3	0-7h 3rd

Kew Observatory. Max.	Time.	Min.	Time.
0.6	9h 2nd	0.1	2h 3rd

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 2nd Dec. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 3rd Dec. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1024.5	S	4	0	37	1024.7	E'N	2	m	37
Brussels	1022.0	E	2	b	43	1026.8	E	1	bc	34
Berlin	1034.1	SE	3	0	39	1035.8	ESE	2	m	32
Zürich	1026.2	SE	1	0	37	1027.8	NE	1	z	37
Rome	1021.5	ENE	2	f	48	1022.6	NNE	2	bc	45

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
39	36	-	-
48	34	-	-
41	32	-	-
46	36	-	-
59		-	

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 4th December 1930.

No. 25214

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

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)
Lerwick	1020.6	-12	SSW	4	r₀r₀	47	95	7	6	-	-	10	10	1500
Stornoway	1024.9	-4	SSW	5	c	48	95	7	4	-	-	9+	9+	4000
Wick	1024.6	-14	SW	4	c	45	85	7	8	2	-	7-8	10	1500
Tiree	1030.6	0	SSW	4	c	47	85	8	4	3	7	Tr.	9+	4000
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1028.3	-12	SW	2	c	46	75	5	-	7	-	0	9	-
Malin Head	1031.3	-6	SSE	2	c	45	95	5	-	5	-	0	7-8	-
Renfrew	1031.8	-6	-	0	F	38	95	1	5	-	-	10	10	<150
Inchkeith (Edin.)	1030.9	0	W	1	f	39	95	3	5	-	-	10	10	450
Leuchars	1029.9	-14	SW	3	c	42	95	6	-	-	6	0	7-8	-
Eskdalemuir	1032.0	-2	S'E	1	c	41	85	7	-	-	2	0	9	-
Tynemouth	1031.4	-8	S	2	o	44	85	6	5	-	-	10	10	1500
Blacksod Point	1031.7	+8	-	0	bc	47	85	8	-	-	5	0	4-6	800
Aldergrove	1032.3	-2	-	0	bc	44	95	5	-	-	2	0	4-6	-
Donaghadee	1031.3	-2	E	1	c	48	85	6	5	-	-	7-8	7-8	1500
Birr Castle	1031.8	+6	NE	1	c	45	95	6	5	-	-	9	9	2500
Holyhead	1029.6	0	E'N	4	c	46	95	6	-	-	2	0	7-8	-
Liverpool (Bidston)	1031.0	0	SE'E	3	c	43	85	5	5	1	-	4-6	7-8	2500
Chester (Sealand)	1031.4	-2	SE	2	o3	44	85	5	5	-	-	10	10	1500
Harrogate	1031.8	0	SSE	1	m	41	95	4	5	-	-	10	10	<150
Spurn Head	1031.8	0	-	0	o	44	85	6	5	-	-	10	10	4000
Birmingham	1031.2	+4	ENE	1	m	41	95	4	5	-	-	10	10	1500
Cranwell	1031.4	-2	E	1	o	42	85	6	5	-	-	10	10	800
Gorleston	1030.9	-2	NE	3	bc	48	85	6	7	-	-	4-6	4-6	4000
Valentia Obs.	1030.0	-2	-	0	b	50	75	7	5	-	-	1	1	5700
Roches Point	1030.6	+6	N	2	3o	47	85	6	5	-	-	7-8	7-8	1500
Pembroke	1028.6	+2	NE	3	bc	47	95	6	4	7	-	2-3	4-6	4000
Ross-on-Wye	1030.2	+4	NE	3	o	43	85	6	5	-	-	10	10	2500
Leafield	1030.0	0	NE	4	o	41	95	6	5	-	-	10	10	2500
Cardington	1030.3	0	NE'N	3	o	45	85	6	5	-	-	10	10	800
Winchester	1029.6	+2	NNE	4	o	44	85	6	5	-	-	10	10	800
S. Farnborough	1029.1	+2	ENE	2	o	45	85	5	5	-	-	10	10	1500
London (Kew)	1029.9	0	NE'N	3	m	45	75	4	5	-	-	10	10	1500
Croydon	1029.6	+2	NNE	3	m	44	85	4	5	-	-	10	10	1500
Manston														
Shoeburyness	1029.7	+4	NEN	3	o	45	85	6	5	-	-	10	10	1500
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1030.3	+2	NNE	3	3o	46	85	6	5	-	-	9+	9+	800
Scilly (St. Mary's)	1027.8	0	ESE	4	bc	49	95	6	5	-	-	4-6	4-6	4000
Falmouth	1028.5	+4	ENE	4	c	49	85	6	5	2	-	4-6	7-8	4000
Plymouth	1027.7	+4	E	3	bc	49	75	6	-	-	6	0	4-6	-
Portland Bill	1027.7	0	NE	4	c	47	85	6	4	8	-	4-6	7-8	2500
Calshot, S'hampton	1028.8	+2	NNE	3	3o	48	75	6	-	-	8	0	4-6	-
Dungeness	*	*	ENE	3	3	*	*	5	5	6	*	4-6	7-8	4000
Lympne	1028.3	0	NNE	4	3	45	85	5	4	-	-	4-6	4-6	1500
Guernsey	1026.4	+8	NE	3	3	52	85	5	5	-	-	10	10	2500

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

STATIONS.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	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)
Lerwick	1020.4	0	WSW	3	r₀r₀	49	95	7	6	-	-	10	10	1500	1	*
Stornoway	1026.0	+8	SW	3	c	50	95	7	4	1	9	4-6	7-8	4000	0	3
Wick	1025.1	+10	SW	3	c	47	85	8	8	2	-	7-8	10	1500	1	3
Tiree	1030.8	+8	SW	3	c	47	95	8	5	3	8	1	10	2500	0	2
Nairn	1027.7	*	W	2	c	47	85	8	3	-	-	7-8	7-8	2500	0	*
Aberdeen	1028.4	+2	SW	1	c	45	65	6	-	7	8	0	9+	-	1	1
Malin Head	1031.3	+2	SSE	1	bc	39	95	5	-	8	-	0	4-6	-	0	2
Renfrew	1031.9	+6	-	0	F	36	95	1	5	-	-	10	10	<150	1	*
Inchkeith (Edin.)	1030.3	0	WSW	3	f	40	95	3	5	-	-	10	10	800	1	1
Leuchars	1029.6	0	SW	2	c	40	85	6	-	3	6	0	7-8	-	1	*
Eskdalemuir	1032.9	+10	-	0	m	32	95	4	-	-	-	0	0	-	4	*
Tynemouth	1031.3	0	WSW	1	bcf	43	95	3	5	-	-	4-6	4-6	1500	0	1
Blacksod Point	1031.5	-2	-	0	bc	42	95	6	-	-	2	0	4-6	-	0	2
Aldergrove	1032.6	+6	E	1	m	39	95	4	-	-	8	0	Tr.	-	1	*
Donaghadee	1031.7	+4	-	0	3o	41	95	6	5	-	-	4-6	4-6	1500	0	0
Birr Castle	1031.2	0	NE	1	c	41	95	6	-	1	-	0	7-8	-	1	*
Holyhead	1030.5	+6	NE'E	3	m	45	95	4	-	-	8	0	1	-	1	2
Liverpool (Bidston)	1031.1	0	ESE	3	f	40	95	3	5	1	-	2-3	7-8	1500	0	*
Chester (Sealand)	1031.0	+4	SE	2	3m	42	95	5	5	-	-	9+	9+	800	0	*
Harrogate	1031.9	0	-	0	m	40	95	4	5	-	-	10	10	<150	1	*
Spurn Head	1031.5	0	-	0	c	43	85	7	5	-	-	9+	9+	4000	0	3
Birmingham	1032.1	+6	NE	2	o	40	90	5	5	-	-	10	10	1500	1	*
Cranwell	1032.3	+10	-	0	c	41	95	6	5	-	-	10	10	800	1	*
Gorleston	1031.0	-2	NE'N	2	bc	44	95	6	7	-	-	4-6	4-6	4000	0	2
Valentia Obs.	1030.1	+2	-	0	b	41	85	7	-	-	-	0	0	-	1	3
Roches Point	1030.8	+6	N	2	3o	43	95	6	5	-	-	2-3	2-3	1500	1	2
Pembroke	1029.9	+4	ENE	3	b	44	95	6	-	-	8	0	1	-	1	2
Ross-on-Wye	1031.2	+4	NE	2	3	42	95	5	5	-	-	10	10	1500	1	*
Leafield	1031.1	+6	ENE	3	o	40 (41)	95	6	5	-	-	10	10	2500	1	*
Cardington	1031.3	+8	NE'E	2	o	43	85	7	5	-	-	10	10	1500	1	*
Winchester	1030.6	+10	NNE	3	o	42	95	6	5	-	-	10	10	800	1	*
S. Farnborough	1030.4	+10	NE'N	3	3	42	85	5	5	-	-	10	10	800	1	*
London (Kew)	1031.0	+10	NE	3	o	44	85	5	5	-	-	10	10	1500	1	*
Croydon	1030.9	+12	NE'N	3	3	42	85	5	5	-	-	10	10	800	1	*
Manston																*
Shoeburyness	1030.6	+10	NE'N	3	o	44	95	6	5	-	-	10	10	1500	0	*
Clacton-on-Sea	1030.6	+6	NE	3	c	45	95	6	5	-	-	7-8	7-8	800	0	2
Felixstowe	1031.8	+12	N'W	1	3	39	95	5	-	-	-	0	0	-	0	1
Scilly (St. Mary's)	1028.8	+10	E'N	3	c	49	95	6	5	-	-	7-8	7-8	4000	0	2
Falmouth	1029.1	+6	ENE	4	c	48	85	6	8	-	-	7-8	7-8	4000	0	3
Plymouth	1029.2	+14	E	2	b	43	85	6	-	-	-	0	0	-	1	0
Portland Bill	1029.9	+6	NE	4	o/f	45	85	4	5	-	-	10	10	1500	0	3
Calshot, S'hampton	1029.9	+10	N	2	f-	42	95	3	5	-	-	10	10	<150	0	0
Dungeness	*	*	ENE	2	3o	*	*	6	5	-	*	7-8	7-8	2500	*	1
Lympne	1029.1	+4	N	4	3	42	95	5	5	-	-	9	9	800	1	*
Guernsey	1027.0	+6	ENE	3	3	49	85	5	5	-	-	4-6	4-6	2500	1	3

PAST 24 HOURS.

STATIONS. (For heights see p. 4.)	WEATHER. 7h.–13h. 3rd (37)	13h.–18h. 3rd (38)	18h. 3rd to 1h. 4th (39)	1h.–7h. 4th (40)
Lerwick	cor₀r₀	or₀r₀	o₁r₀d₀d₀m₀	o i d₀
Stornoway	c	c	cup	cup
Wick	bcc	c	bcc	cbc
Tiree	bcc	c	cw	cw
Nairn	bc	bcc	cbc	bc
Aberdeen	bbc3₀	c3₀	cbc3₀	bcbm₀
Malin Head	oFcm₀m₀	cbcm₀m₀	bcbm₀m₀	bbc3₀3₀
Renfrew	fFF	oFF	Fbf	fFF
Inchkeith (Edin.)	omff	ommw	oeff	cffmmw
Leuchars	bxmcm₀	cm₀	cbcwm₀	bcwm₀
Eskdalemuir	cm₀c	cbxm	bxfeF ~~befbx~~ bFbx	~~befbx~~
Tynemouth	o	off	beFF	bcf-eFe
Blacksod Point	bc	bc	b	b
Aldergrove	cbefbm	bcm₀bm₀	bmxif	bxfofefe
Donaghadee	cm₀	cbcm₀	offe	offem
Birr Castle	c	c	o f f m	off
Holyhead	bcm₀	bcm₀	mmw xx	bmmw
Liverpool (Bidston)	ofoc	bcm	fbcmm	bcmcm
Chester (Sealand)	ofmm	ocm₀	cm₀om	comf
Harrogate	ommm	ommm	omfF	oFF
Spurn Head	bc	bc	co	o
Birmingham	o	om	o	o
Cranwell	om₀	om₀	cm₀	cm₀om
Gorleston	cbc	bc	bc bw	bwx
Valentia Obs.	bcbcb	b	bbw	bwbx
Roches Point	e3₀	cbc3₀w	bcwbw	bwcow
Pembroke	bcm₀	bcbm₀	bom₀	om₀
Ross-on-Wye	om₀	o3₀om₀	om	om
Leafield	o	o	o	o
Cardington	cocm₀	om₀	ccw	c
Winchester	om₀cm₀	cm₀om₀	om bcbm	bmbecom₀
S. Farnborough	ocom₀	om₀m	~~bc~~ o ~~bc~~	bwoom
London (Kew)	cm₀oj	ojom₀	cm₀om₀	om₀
Croydon	cm₀m	omm₀	cm₀of	ofFe
Manston				
Shoeburyness	om₀	om₀	om₀ef	oF
Clacton-on-Sea	c	cm	bm	bm
Felixstowe	c	bcm₀bm₀w	bwmf	bfxc
Scilly (St. Mary's)	ocm	cm	cbcm₀	bccm
Falmouth	bcmoq	bcmoq	bccm₀q	cm₀q
Plymouth	cbcm₀	bcbm₀	bm₀o	om₀fe
Portland Bill	cj₀	cfomm	orf	of
Calshot, S'hampton	cbcm₀	bcm₀of	cbwofe	cfcm₀e
Dungeness	bc	bc		bc
Lympne	bccm₀	bccm₀	cbmw	bmfFe
Guernsey	cbcoj	3co	bc2b2	bbce

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

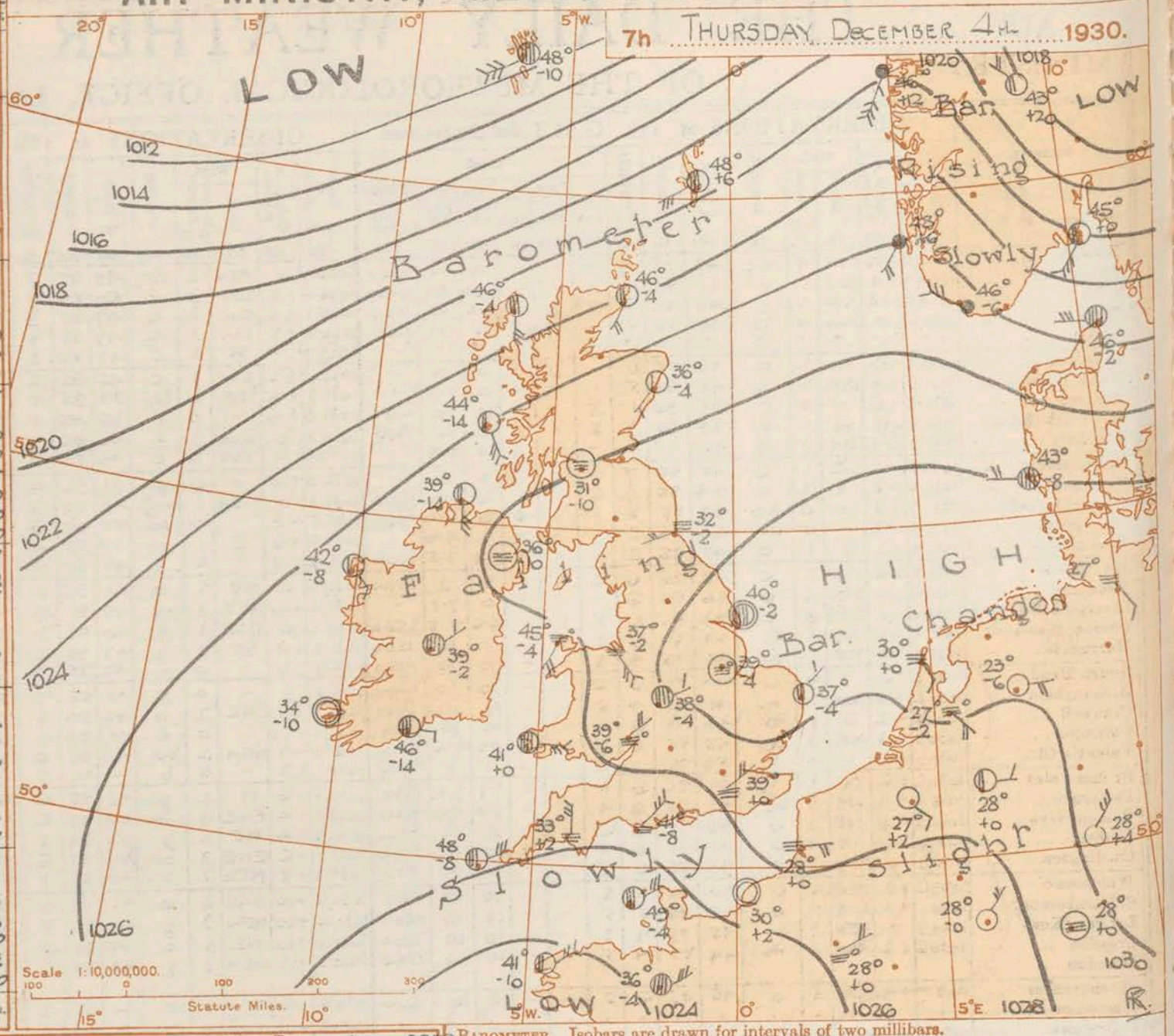
REPORTS from HEALTH RESORTS for 3rd December 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h 2nd to 9h 3rd	TEMPERATURE. Max. 9h.—17h. 3rd	RAINFALL. Night. 17h 2nd to 9h 3rd	RAINFALL. Day. 9h.—17h. 3rd	SUNSHINE. Sunrise to Sunset. 3rd
Dunbar	om$_o$	cm$_o$	41	46	-	-	1·6
Berwick-on-T.	o	o	42	44	-	-	0·0
Douglas	om$_o$	c6m$_o$	40	46	-	-	0·4
Llandudno	6c	6	41	47	-	-	5·0
Colwyn Bay	6c06	60	36	46	-	-	4·9
Rhyl	m6m$_o$	6m$_o$	37	46	-	-	1·8
Wallasey	foc	c	37	44	-	-	0·0
Southport ‖	0coz	of	37	43	-	-	0·2
Blackpool	c	c	38	44	-	-	0·8
Morecambe	c6c6	c6c	36	43	Trace	-	2·4
Ilkley	omo	fo	41	43	-	-	0·0
Cleethorpes	o	o	43	45	-	-	0·0
Mablethorpe	om$_o$o	om$_o$	43	45	-	-	0·0
Skegness	oco	o6co	42	46	-	-	0·0
Aberystwyth	czbcz	bczbz	40	49	-	-	6·5
Bath	·c	c	45	46	-	-	0·0
Cheltenham †	ocom$_o$	om$_o$	43	46	-	-	0·0
Leamington Spa	o	o	43	44	-	-	0·0
Lowestoft	6	6	44	46	-	-	4·6
Dovercourt	oc	6cc	44	48	-	-	0·0
Maldon	o	o	44	46	-	-	0·0
Southend	om	om	44	46	Trace	-	0·0
Ilfracombe	c6c	6c	46	47	-	-	2·7
Bude	6	6	44	52	-	-	4·2
St. Ives	c	c	49	57	6	-	2·5
Penzance	c6c	c6c	48	52	5	-	2·1
Torquay	p$_o$cm	c6com	45	48	1	-	1·4
Jersey	cz	cz	49	52	-	-	0·7
Weymouth	c6c	c6	44	47	-	-	1·2
Bournemouth	m6c	6cm	41	47	-	-	3·0
Ventnor	o6coz	6cocz	44	48	-	-	2·4
Southsea	6c6m	66cf	43	48	-	-	3·0
Bognor Regis	c6c	6c	42	47	-	-	2·6
Littlehampton	6c	6c	42	47	-	-	2·5
Worthing	c6c	co	42	47	-	-	1·6
Brighton	coc6	6coc	42	48	-	-	2·0
Eastbourne †	6cc	o	40	47	-	-	0·7
Hastings †	6cmc6	co	39	47	0·2	-	0·8
Folkestone	xcm$_o$	c6cc	40	48	-	-	1·8
Dover	6cc	c	41	48	-	-	0·3
Deal	oc6c	co	39	48	-	-	0·3
Tunbridge Wells	o	o	43	45	-	-	0·0
Ramsgate	c	c	44	47	-	-	0·3
Margate	c	c	44	47	-	-	0·0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h THURSDAY DECEMBER 4th 1930.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 4th December, 1930.
1. S.E. England 2. E. England... 3. E. Midlands	Light variable to fresh or strong southwesterly or southerly winds; fair to-day, some rain probably to-morrow; day temperature normal.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Light variable to strong southerly winds; fair at first, some rain later; day temperature normal.
9. N. Midlands 10. N.E. England	As 1 - 3.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands. 17. N.W. Ireland 18. N.E. Ireland 19 S.E. Ireland 20. S.W. Ireland	Moderate to strong southerly or southeasterly winds; strong at times locally; fair at first, some rain later; day temperature normal.

GENERAL INFERENCE.

A secondary depression off South-West Ireland will deepen and move north-eastward and cause unsettled conditions with some rain to spread from the West to most districts though conditions in Eastern England will remain mainly fair to-day.

FURTHER OUTLOOK.

Colder temporarily with showers of wintry type especially in the West and North

Time of Issue of Gale Warnings.

V South Cone at 1850 on 3rd in 13A, 13B, 15 and 16; and at 0835 on 4th in 12, 17 and 20.

Forecasts issued at 0925 G.M.T.

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

H.M. Stationery Office Press, Kingsway W.C.2. Fr. 2497/2185. M. 26. D.5026. Gp. 908. 3/1 1st ed?

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

Morning of Thursday, 4th December, 1930.

LOW
HIGH
LOW
LOW
HIGH
LOW
HIGH
LOW
HIGH
LOW
HIGH

Clarke's Projection Scale 1 : 4×10^7 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 the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 4th December 1930.

No. 252.4

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

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)
Lerwick	54	1020.4	-4	SW	4	d	48	95	6	6	-	-	10	10	800
Stornoway ...	34	1025.1	-4	SW	4	c	48	95	7	1	2	-	0	10	-
Wick	81	1025.1	-2	SSW	3	c	47	85	8	8	1	-	4-6	9	2500
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head ...	51	1028.8	-18	SW	1	b	40	85	5	5	8	-	1	1	4000
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Inchkeith (Edin.)	190	1029.6	-6	WSW	3	cf	40	95	3	5	1	-	2-3	7-8	800
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth ...	67	1029.9	-6	WSW	3	bc F	35	95	1	5	-	-	4-6	4-6	1500
Blacksod Point ...	10	1023.9	-10	-	0	b	41	95	6	-	-	-	0	0	-
Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead... ...	26	1028.8	-18	NE'E	2	b	43	95	5	-	-	1	0	Tr.	-
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate... ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head ...	29	1031.1	-2	NW'N	1	0	41	95	6	5	-	-	10	10	2500
Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	241	1031.4	-4	-	0	c	39	95	5	5	-	-	10	10	800
Gorleston	14	1030.8	-8	NE'N	1	b	44	95	6	-	-	-	0	0	-
Valentia Obs.† ...	30	1029.1	-6	-	0	b	44	85	9	-	-	-	0	0	-
Roches Point ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke... ...	150	1029.5	-6	NE	2	0	41	95	86	5	-	-	10	10	1500
Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester ...	272	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew) ...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Croydon	244	1029.8	-2	NE	1	of	42	95	3	5	-	-	10	10	450
Manston	136	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	55	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Scilly (St. Mary's)	163	1027.6	-12	E	4	bc	48	95	6	5	-	-	4-6	4-6	4000
Falmouth... ...	200	1028.9	-8	E'N	5	c	46	95	6	5	-	-	7-8	7-8	4000
Plymouth... ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill ...	32	1028.8	-2	NE'E	3	of	43	85	3	5	-	-	10	10	1500
Calshot, S'hampton	8	1029.9	-4	NNE	2	f-	41	88	3	5	-	-	9	9	800
Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	347	1028.9	-6	NE'N	3	m	39	95	4	-	-	-	0	0	-
Guernsey	173	1027.6	-2	ENE	3	b	47	85	5	1	-	-	1	1	2500

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1021.8	-6	WSW	3	c	48	95	7	8	1	-	4-6	7-8	1500	1	*
1023.8	-4	S	3	c	46	95	7	8	-	-	9	9	4000	1	3
1024.5	-4	SSW	2	bc	46	95	8	5	-	1	2-3	2-3	4000	0	2
1026.0	-14	SSE	4	bc	44	95	6	5	-	-	4-6	4-6	1500	1	3
1025.2	*	-	0	bc	40	85	8	5	-	-	4-6	4-6	4000	0	*
1026.2	-4	SW	1	b	36	95	6	-	4	-	0	1	-	1	1
1026.2	-14	S	3	bc	39	85	6	5	8	9	1	2-3	4000	0	2
1029.2	-10	-	0	F	31	95	1	-	-	*	10	10	<150	1	*
1028.3	-10	WSW	3	cF	36	95	1	5	1	*	4-6	7-8	800	1	1
1027.1	-2	SW	3	bc	35	95	6	-	3	1	0	4-6	-	1	*
1030.1	-4	-	0	b	25	95	6	5	-	-	1	1	800	4	*
1029.0	-2	WSW	2	bcF	32	95	1	5	-	-	4-6	4-6	800	1	1
1026.2	-8	SE'E	1	b	42	95	6	-	2	-	0	1	-	0	2
1029.3	-10	-	0	f	36	95	3	-	-	-	10	10	450	1	*
1028.1	-6	SW	1	m	42	95	4	5	-	-	10	10	800	1	0
1027.9	-2	NE	1	02	39	95	7	5	-	-	10	10	2500	1	*
1027.4	4	SW's	2	m	45	95	4	5	-	-	9+	9+	220	1	0
1028.3	-4	E	5	m	36	95	4	5	-	-	7-8	7-8	800	0	*
1029.2	-2	SE	4	of	37	95	3	5	-	-	10	10	450	0	*
1030.0	-6	-	0	F	36	95	1	5	-	-	10	10	<150	1	*
1029.3	-2	-	0	0	40	95	6	5	-	-	10	10	2500	0	3
1030.0	-4	ENE	1	0	38	95	5	5	-	-	10	10	1500	1	*
1030.3	-4	-	0	m	39	95	4	5	-	-	10	10	800	1	*
1030.0	-4	NE'E	1	bc	37	95	6	-	-	1	0	2-3	-	0	2
1036.9	-10	-	0	b	34	95	7	-	-	*	0	0	-	1	*
1027.2	-14	E	1	0	46	95	7	5	-	-	10	10	1500	1	2
1027.8	0	E	4	0	41	95	6	5	-	-	10	10	1500	0	2
1029.2	-6	NE'E	2	2	39	95	5	5	-	-	10	10	800	1	*
1029.2	-6	NE'E	3	0	36	95	5	5	-	-	10	10	450	1	*
1029.9	-2	ENE	2	c	39	85	7	5	-	-	10	10	1500	1	*
1028.6	0	NNE	2	0	40	95	6	5	-	-	10	10	800	1	*
1028.8	-2	ENE	3	m	40	95	4	5	-	-	10	10	800	1	*
1029.4	0	ENE	2	0	42	95	5	5	-	-	10	10	2500	1	*
1029.6	0	NE'E	2	0F	39	95	1	5	-	-	10	10	<150	1	*
1029.1	0	NNE	1	F-	33	95	1	-	-	-	10	10	<150	0	*
1029.3	0	N	2	bc	37	95	5	5	-	-	2-3	2-3	800	0	2
1030.7	0	N'E	2	bf	34	95	3	-	-	-	0	0	-	1	2
1026.2	-8	E'N	3	c	48	95	6	5	-	-	9+	9+	4000	0	2
1027.0	-4	ENE	4	c	47	85	6	5	2	-	4-6	10	4000	0	3
1027.6	+2	N	3	fo	33	95	3	5	-	-	10	10	<150	1	1
1026.6	-8	NE'E	4	fo	41	85	3	5	-	-	10	10	1500	0	3
1029.5	-4	NE'N	4	0	41	85	6	5	-	-	10	10	450	0	1
		ENE	2	m	-	-	4	5	-	•	4-6	4-6	2500	•	1
1028.2	-2	NE'E	3	bF	36	95	1	-	-	-	0	0	-	1	*
1025.6	-4	ENE	3	c	49	85	5	5	-	-	7-8	7-8	2500	0	3

PAST 24 HOURS.

Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 3rd Hrs. (36)
49	47	*	4	Tr.	0.0
50	46	*	-	0.1	0.0
49	45	*	-	-	*
48	42	32	Tr.	-	2.3
47	35	*	-	-	0.5
46	33	26	-	-	1.6
45	37	*	-	-	2.3
38	30	27	0.1	0.1	0.0
43	(36)	35	Tr.	Tr.	0.0
44	34	31	-	-	1.1
42	25	20	-	-	0.9
45	32	30	-	0.1	*
48	38	*	-	-	*
45	28	25	Tr.	0.1	1.8
48	33	*	-	0.2	*
46	35	31	-	-	1.6
46	37	30	-	Tr.	4.9
43	36	35	-	-	0.3
44	37	37	-	-	0.0
41	36	35	-	-	0.0
45	40	*	-	-	0.0
43	37	37	-	-	0.0
44	38	38	-	-	0.0
48	37	30	-	Tr.	3.2
51	34	31	-	Tr.	4.7
49	41	*	Tr.	Tr.	*
48	40	*	-	-	1.8
44	39	38	-	-	0.0
42	36	35	-	-	0.0
45	39	39	-	Tr.	0.0
45	34	29	-	-	0.0
45	38	27	-	-	0.0
46	42	39	-	-	0.0
45	39	40	-	Tr.	0.0
46	31	30	-	-	0.0
45	33	33	-	-	0.0
47	32	28	-	-	0.0
52	47	*	-	-	1.7
46	*	*	-	-	3.0
51	33	32	-	Tr.	5.6
48	39	*	-	-	*
48	37	30	-	-	1.1
49	40	*	-	-	*
46	31	28	-	Tr.	3.8
52	47	40	-	-	0.0

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day mm.	Rainfall. Night mm.	Sunshine to Sunset, hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility 9h. To-day.
KEW	18	cm o3	03 om	cm om	46	42	39	-	-	0.0	*	*	3
CROYDON	244	cm m	o mm	cm o fe	45	39	40	-	Tr.	0.0			1
GREENWICH (Royal Observatory) ...	149	o	o	o co of	45	38	38	-	Tr.	0.0	85	99	2
CITY (Bunhill Row)	—	*	*	*	*	*	*			0.0			*
WESTMINSTER (St. James' Park) ...	27	*	*	*	47	41	40	-	-	0.0	80	91	*
REGENTS PK. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	0.0	*	*	*
CAMDEN SQUARE	110	o	o	*	46	41	39	-	-	*	At 18h.	96	*
KENSINGTON PALACE	80	o om	o	*	45	40	38	-	-	*	*	96	*
HAMPSTEAD OBSERVATORY	450	o	o	*	43	36	36	-	Tr.	0.0	*	96	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.
0.8	11h 3rd	<0.3	3h. 5h 4th

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
0.3	15h 3rd	0.1	4h 4th

FOREIGN OBSERVATIONS.

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

STATIONS.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS	1028.1	NE	1	m	43
BRUSSELS	1028.8	NE	2	2	36
BERLIN	1033.7	ESE	2	b	36
ZÜRICH	1029.8	NE	1	2	36
ROME	1021.1	N	4	b	45

7h. G.M.T. 4th December

STATIONS.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS	1027.4	NE	1	2	28
BRUSSELS	1029.1	ESE	1	2	27
BERLIN	1031.9	SE	2	fo	30
ZÜRICH	1028.6	E	1	2	34
ROME	1029.9	NNE	2	c	43

Past 24 Hours.

STATIONS.	Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
PARIS	45	28	-	-
BRUSSELS	43	25	-	-
BERLIN	41	28	-	-
ZÜRICH	41	34	-	-
ROME	61	39	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 5th December 1930.

No. 25215

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

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)
Lerwick	1020.7	-10	SW	2	bc	48	95	7	5	4	-	2-3	4-6	1500
Stornoway ...	1021.4	-14	SSW	4	c	47	95	7	8	-	-	10	10	4000
Wick	1022.3	-12	S	3	bc	47	95	8	5	7	2	4-6	4-6	2500
Tiree	1024.1	-14	S	3	Mo	45	95	6	5	-	-	10	10	2500
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1023.6	-20	S	1	m	47	75	4	-	7	-	0	9	-
Malin Head ...	1024.9	- 8	SSW	2	c	43	95	6	5	3	-	2-3	9+	4000
Renfrew	1026.3	-14	-	0	f	33	97	1	5	-	-	10	10	4150
Inchkeith (Edin.)	1026.1	-10	WSW	2	m	39	95	4	5	1	-	4-6	10	800
Leuchars	1024.8	-16	-	0	c	41	86	6	-	7	-	0	10	-
Eskdalemuir ...	1026.9	-14	-	0	c	34	95	8	-	1	-	0	9+	-
Tynemouth ...	1025.9	-14	SW	2	f	40	95	3	8	-	-	4-6	4-6	1500
Blacksod Point ...	1025.0	-10	S'E	2	m	44	85	5	-	2	-	0	10	-
Aldergrove ...	1026.4	-14	S	2	f	40	95	3	5	-	-	10	10	4150
Donaghadee ...	1025.8	-16	SW	1	m	44	95	4	5	-	-	10	10	800
Birr Castle ...	1025.9	-12	SE	1	c	42	95	6	-	2	-	0	10	-
Holyhead... ...	1025.8	-14	SE'S	2	c	44	95	5	5	-	-	4-6	9+	800
Liverpool (Bidston)	1026.8	- 8	ESE	3	f	38	95	3	5	-	-	7-8	7-8	1500
Chester (Sealand)	1027.0	-14	SE	3	f	39	85	4	-	6	-	1	9	800
Harrogate... ...	1027.9	-10	SSE	1	f	38	95	2	5	-	-	10	10	450
Spurn Head ...	1028.1	- 4	S	2	c	43	95	6	4	-	-	7-8	7-8	4000
Birmingham ...	1027.7	-14	SE	1	m	38	95	4	5	-	-	2-3	2-3	1500
Cranwell	1028.2	-14	SE'S	2	o	40	95	5	5	-	-	10	10	800
Gorleston	1028.4	-16	SE	1	b	49	95	6	-	-	-	0	0	-
Valentia Obs. ...	1025.1	-18	-	0	f	44	95	5	1	-	-	Tr.	Tr.	4000
Roches Point ...	1025.7	-14	SE	2	o	47	95	7	5	-	-	10	10	1500
Pembroke... ...	1025.4	-14	SE	3	c	43	95	6	5	-	-	7-8	7-8	1500
Ross-on-Wye ...	1027.1	-14	ENE	2	c	40	85	5	5	-	-	9+	9+	1500
Leafield	1027.3	-10	E'S	3	c	39	95	6	5	-	-	9	9	1500
Cardington ...	1027.8	-16	ESE	1	c	42	85	6	5	-	-	9+	9+	1500
Winchester ...	1026.7	-20	NE	2	f	43	85	5	-	-	-	0	0	-
S. Farnborough ...	1026.9	-14	ENE	2	m	41	95	4	5	-	-	9	9	800
London (Kew) ...	1027.5	-18	-	0	f	42	85	2	5	-	-	10	10	4150
Croydon	1027.4	-18	NE	1	bf-	40	95	3	-	-	-	0	0	-
Manston														
Shoeburyness ...	1027.3	-16	ENE	1	m	46	95	4	-	-	-	0	0	-
Clacton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe ...	1027.7	-10	E'N	1	b	48	85	7	-	-	-	0	0	-
Scilly (St. Mary's)	1025.2	- 6	E	4	c	49	95	6	5	-	-	9+	9+	4000
Falmouth... ...	1026.2	-12	E'N	4	c	45	85	6	5	2	-	4-6	10	4000
Plymouth... ...	1026.1	-14	E'N	3	f	43	85	6	5	3	-	4-6	4-6	2500
Portland Bill ...	1024.8	-18	NE'S	4	c	44	85	5	5	7	-	4-6	7-8	1500
Calshot, S'hampton	1026.5	-20	E'N	2	c	44	85	6	5	-	-	7-8	7-8	800
Dungeness ...	*	*	NE	2	f	*	*	5	-	-	*	0	0	-
Lympne	1026.4	-18	N	1	f	44	85	5	-	-	-	0	0	-
Guernsey	1024.1	-18	ENE	1	f	49	75	5	-	1	-	0	1	-

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

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)
Lerwick	1018.9	-10	SW	2	c	49	85	7	5	1	-	4-6	9	1500	0	*
Stornoway ...	1020.4	0	SW	2	c	48	95	6	3	-	-	9+	9+	4000	0	2
Wick	1020.1	- 8	SSW	2	bc	45	85	8	5	5	-	4-6	4-6	1500	0	2
Tiree	1023.1	0	SW'S	3	Mo	45	95	6	5	-	-	10	10	1500	0	2
Nairn	1020.2	*	W	1	c	45	75	8	8	3	-	4-6	7-8	4000	0	*
Aberdeen	1021.9	- 6	-	0	m	38	95	4	-	7	-	0	2-3	-	1	1
Malin Head ...	1023.6	- 4	SSW	1	c	40	95	5	5	3	-	4-6	9+	4000	0	2
Renfrew	1024.6	- 6	W	1	of-	37	95	3	5	-	-	10	10	1500	1	*
Inchkeith (Edin.)	1024.1	- 6	WSW	2	cf	39	95	3	5	1	-	4-6	10	800	0	0
Leuchars	1022.9	- 8	SW	2	c	37	85	6	-	7	2	0	9+	-	1	*
Eskdalemuir ...	1025.9	-2	-	0	c	32	95	4	-	7	-	0	9+	-	4	*
Tynemouth ...	1024.1	- 6	SW	2	cf	40	95	3	5	7	-	4-6	9+	800	0	1
Blacksod Point ...	1024.0	-2	S	2	do	45	95	5	6	-	-	10	10	450	1	3
Aldergrove	1024.5	-10	SE'S	2	m	40	95	4	5	-	-	10	10	450	1	*
Donaghadee ...	1024.1	-12	SSW	1	c	44	95	6	5	-	-	9	9	800	1	0
Birr Castle ...	1024.8	-2	S SSE	1	c	42	95	6	-	2	-	0	10	-	1	*
Holyhead... ...	1024.7	-6	NE	1	c	44	95	5	5	1	-	9+	9+	1500	1	0
Liverpool (Bidston)	1025.3	-8	SE'E	4	f	38	95	3	5	-	-	4-6	4-6	1500	0	*
Chester (Sealand)	1025.4	-8	SE'S	4	m	39	95	4	5	-	-	9+	9+	800	0	*
Harrogate... ...	1026.2	-6	-	0	f	37	95	2	5	-	-	10	10	450	1	*
Spurn Head ...	1026.2	- 4	SW'S	2	f	40	95	1	5	-	-	10	10	450	1	2
Birmingham ...	1026.9	- 4	SSE	1	o	37	95	6	5	-	-	10	10	2500	1	*
Cranwell	1026.8	-10	S'W	2	f	37	95	2	5	-	-	10	10	450	1	*
Gorleston	1026.5	-10	NE'E	1	f	41	95	6	5	-	-	0	0	-	0	1
Valentia Obs. ...	1024.8	+ 4	SE'S	1	fd	45	95	6	5	-	-	10	10	800	1	3
Roches Point ...	1024.5	- 6	SSE	2	c	45	85	7	5	-	-	9+	9+	1500	0	2
Pembroke... ...	1024.7	- 4	ESE	3	c	43	95	6	5	-	-	9+	9+	1500	0	2
Ross-on-Wye ...	1026.5	0	E	1	cf	33	95	2	5	-	-	9+	9+	800	1	*
Leafield	1026.1	0	NE'E	2	of	37	95	1	5	-	-	10	10	4150	1	*
Cardington ...	1026.6	-4	E'S	1	m	39	95	4	5	-	-	10	10	450	1	*
Winchester ...	1025.8	+ 2	NNE	2	f	37	95	3	5	-	-	10	10	4150	1	*
S. Farnborough ...	1025.5	- 6	NE	2	f	38	95	2	5	-	-	10	10	4150	1	*
London (Kew) ...	1026.0	-10	-	0	f	39	95	1	5	-	-	10	10	4150	1	*
Croydon	1026.0	- 6	E	2	f	39	95	1	5	-	-	10	10	4150	1	*
Manston																
Shoeburyness ...	1025.7	- 6	E'N	1	bf	36	95	2	-	-	-	0	0	-	0	*
Clacton-on-Sea ...	1026.2	-10	NE	2	b	43	85	6	-	-	-	0	0	-	0	1
Felixstowe ...	1026.7	- 6	NE'N	1	f	38	95	6	-	-	-	0	0	-	0	2
Scilly (St. Mary's)	1023.9	-2	NE'N	3	o	47	95	5	5	-	-	10	10	2500	0	2
Falmouth... ...	1024.6	- 6	NNE	3	o	44	85	6	5	-	-	10	10	4000	0	3
Plymouth... ...	1024.3	- 4	-	0	f	37	95	6	-	-	-	0	0	-	1	0
Portland Bill ...	1023.8	- 6	NE'E	4	c/f	44	85	5	5	1	-	4-6	7-8	1500	0	3
Calshot, S'hampton	1025.6	+2	NE'N	3	b	40	85	6	-	-	-	0	0	-	0	1
Dungeness ...	*	*	E	3	f	*	*	5	-	-	*	0	0	-	*	1
Lympne	1025.1	- 6	NE'N	3	f	35	85	5	-	-	-	0	0	-	1	*
Guernsey	1023.0	- 4	ENE	1	f	46	75	5	-	-	-	0	0	-	0	2

PAST 24 HOURS.

WEATHER. 7h.–13h. 4th (37)	13h.–18h. 4th (38)	18h. 4th to 1h. 5th (39)	1h.–7h. 5th (40)
cbc	bcc	c	coir$_{r_0}$
bcc	c	od$_o$	corr
bc	bc	c$_{r_0}$rc	c$_{r_0}$rc
com.	om.	om$_o$d$_o$	oc
bcc	c	cbc	bc
bmocff	cf bcm	bcmff	bcmoc
bcof$_{3}$f$_{3}$.	cf$_{3}$f$_{3}$.	c$_{3}$o$_{3}$c$_{2}$m$_{2}$m$_{o}$	cm$_o$c
FcF	oFF	cffcm$_o$	cm$_o$
Fmm	cfmm	ommm$_o$	commpr
cwcm.	cwmo	cbcwm$_o$	bccwm$_o$
bxc	cmx	bFocom	bfoc
bcFF	bccff	cff	cbcff
do	do	c	pc
Fcfc	ofcomc	ome	off
cem	cmo	offo	om$_o$
oc	c	c	cod$_o$
cm$_o$	cm$_o$	cm$_o$	cm$_o$
mfcoc	cfcwf	om$_o$m	ommf
ofcm	cm	comm	ocmm
off	off	off	ofom
bc	coFf	offe	oFf$_{3}$
oc	bcom	o	ord$_o$
om.	omf	ofFe	oFe
beaf$_{3}$b	bw	bwbcffoc	bFfa
bxbf$_o$	bcocoiw	oid$_o$	oid$_o$
o	oc	cw	cow
om$_o$	cm$_o$	cm$_o$	cm$_o$
om$_o$	cmbcmcf	off	off
oc	cbF	fe	cf
cm$_o$	om$_o$	omef	fFdf
cm$_o$bm$_o$	bm$_o$mf	ff	ff
omcm$_o$m	cmf	of	of
om$_o$ofg	oFg	off	offw
ofcFbf	bcfFF	oFFe	oFeFe
bfm	bmbf	bF	bFe
bmz	bz	bzm	bmof
bf×bm	bz$_o$bm$_o$	bbm	bmFexc
c	com	ocm	cm$_o$
comq	omoq	om$_o$	om$_o$
ofxbcm	bcz$_o$b	bo Fe	ofexb
ofom$_o$	cfm$_o$	mof	offf
cxm$_o$	cbcbm$_o$	bm$_o$oFeFe	oFeFe
b	b	f	f
bofcmb	bm$_o$	bm$_o$Ff	bfmx
cbcbz	bbc	bcbwz	bwzbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus, R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, solar halo. ☽, lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r, fair weather after rain; −, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

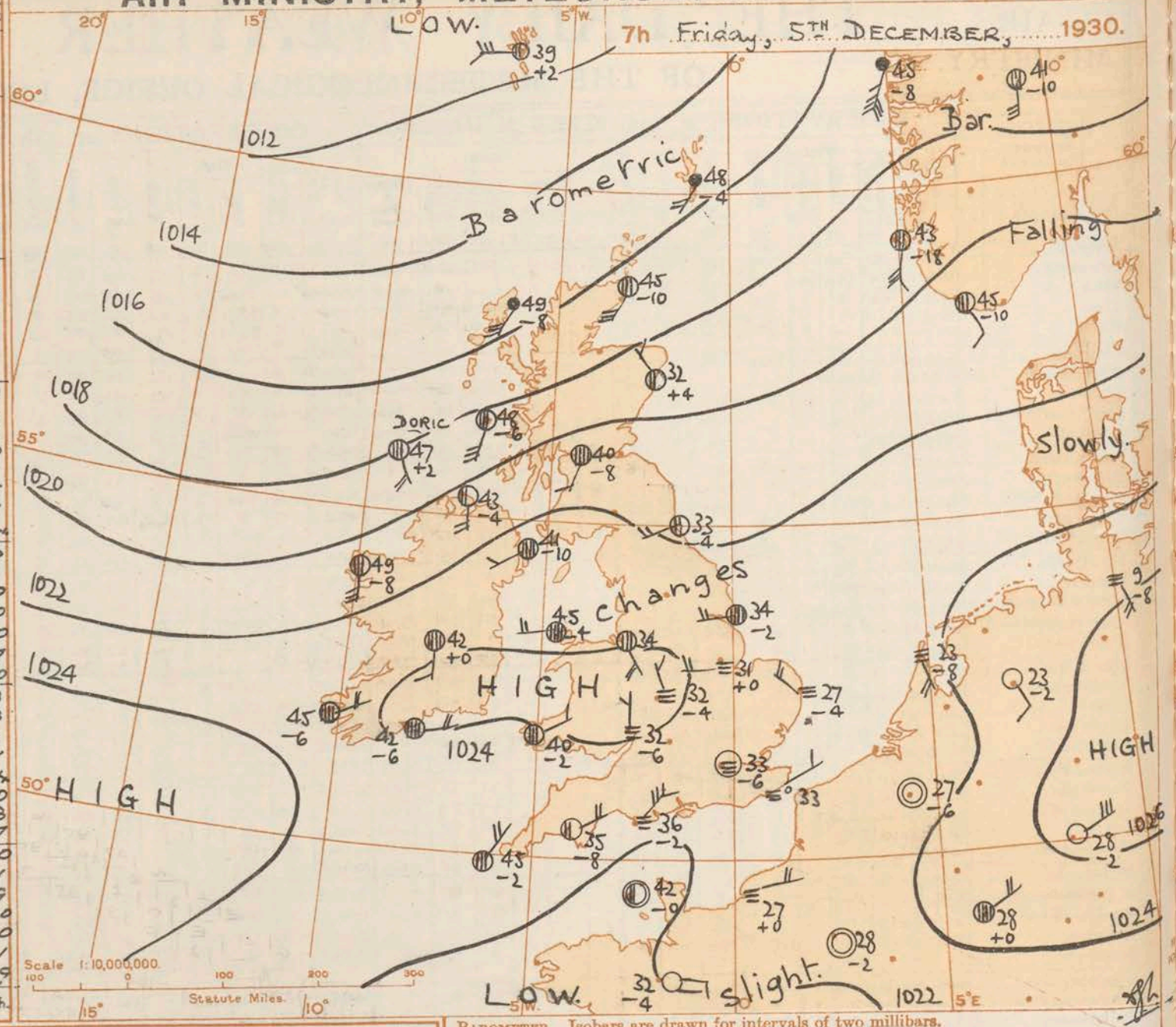
REPORTS from HEALTH RESORTS for 4th December 1930.

Stations	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 3rd to 9h. 4th	Temperature. Max. 9h.–17h. 4th	Rainfall. Night. 17h. 3rd to 9h. 4th	Rainfall. Day. 9h.–17h. 4th	Sunshine. Sunrise to Sunset. 4th
Dunbar	cm₀	6cm	34	42	-	-	0·0
Berwick-on-T.	0	0	32	39	-	-	0·0
Douglas	om₀	cm₀	38	45	-	-	0·0
Llandudno	no	om	33	42	-	-	0·0
Colwyn Bay	ffo	ffo	32	43	-	-	0·0
Rhyl	c×f	6cm₀f	31	40	-	-	0·0
Wallasey	fo	ocf	36	44	-	-	0·0
Southport ‖	om	6m	36	40	-	-	0·0
Blackpool	om	cm	35	39	-	-	0·0
Morecambe	ffo	cof	32	37	Trace	-	0·0
Ilkley	fof	of	34	38	-	-	0·0
Cleethorpes	fmoc	6cm	38	44	-	-	1·9
Mablethorpe	ocm₀	6cfc	39	45	-	-	1·8
Skegness	c6c	cofc	40	44	-	Trace	0·3
Aberystwyth	6zcxx	cz	31	43	-	-	0·0
Bath †	c	c6c6	39	42	-	-	1·0
Cheltenham †	ozc6c	6com	37	45	-	-	2·1
Leamington Spa	0	0	39	40	-	-	0·0
Lowestoft	6	6	35	48	-	-	7·1
Dovercourt	xf6	6	33	49	-	-	6·5
Maldon	f6	6	34	47	-	-	4·7
Southend	6fc	6fc	34	45	Trace	Trace	4·4
Ilfracombe	c6c	6c	34	42	-	-	1·6
Bude	mc	cm	37	42	-	-	1·1
St. Ives	0	0	44	45	-	-	0·0
Penzance	0	0	46	47	-	-	0·0
Torquay	omg	om	40	46	-	-	0·0
Jersey	cz	6z	42	47	-	-	5·7
Weymouth	oc	c6m₀	38	44	-	-	0·0
Bournemouth	0	ocm	36	42	-	-	0·8
Ventnor	ocoz	o66cz	39	46	-	-	1·8
Southsea	oc	6c6m	36	45	-	-	2·3
Bognor Regis	c6c6	6	38	45	-	-	4·1
Littlehampton	6c	6c6	36	45	-	-	4·4
Worthing	c6c	6c	39	45	Trace	-	4·0
Brighton	c6c	6c	40	45	-	-	4·8
Eastbourne †	6c6	6m	38	46	-	-	4·7
Hastings †	cmc6c	6c	36	45	(0.3)	-	6·0
Folkestone	xomc	6	38	46	-	-	5·1
Dover	mc6	6	37	47	-	-	5·9
Deal	6	6	42	44	-	-	6·0
Tunbridge Wells	ofo	of	37	41	-	-	0·0
Ramsgate	6	6	43	47	-	-	6·1
Margate	6c6	66c	43	48	-	-	6·9

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Friday, 5TH DECEMBER, 1930.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 5th Dec. 1930.
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	Light or moderate variable winds; mainly cloudy; rather cold; considerable fog at night and in early morning with frost.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. / B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands. 17. N.W. Ireland	Moderate southerly or southwesterly winds; cloudy, occasional rain; rather cold with frost at night; fog locally.
18. N.E. Ireland 19 S.E. Ireland 20. S.W. Ireland	As 1 - 11.

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

GENERAL INFERENCE.

Barometric pressure over the British Isles is comparatively high and fairly uniform. Weather will continue mainly fair generally but occasional rain is to be expected locally especially in the West and North. Fog will occur in many places.

FURTHER OUTLOOK.

Similar.

Forecasts issued at 0930 G.M.T.

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

H.M. Stationery Office Press Kingsway W.C.2
Fc. 2497/2185. Pe. 26. D.6026. 6p. 908. 31/

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

Morning of
FRIDAY,
5th December
1930.

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 the wind. Number of feathers indicate Beaufort Force.
⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 5th December 1930.

No. 25215

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

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)
Lerwick	54	1017.2	-6	SW	3	c	49	85	7	5	1	-	4-6	9+	1500
Stornoway	34	1017.3	-2	SW	4	c	48	95	6	6	-	-	10	10	4000
Wick	81	1015.1	-14	SW	2	r₀r₀	46	95	8	6	2	-	7-8	10	2500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51	1021.8	-2	S	2	c	41	95	5	6	7	-	4-6	10	1500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	1022.5	-18	WSW	3	0	41	95	6	5	-	-	10	10	800
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	1022.3	-10	SW	2	cf	35	95	2	5	-	-	7-8	7-8	800
Blacksod Point	10	1022.3	-4	S	4	c	47	95	7	-	2	-	0	10	-
Aldergrove	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	1023.5	-6	WSW	2	c	44	85	6	5	-	-	10	10	1500
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	1024.3	-4	SSW	1	f-	36	95	3	-	-	-	10	10	<150
Birmingham	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1025.3	-8	SW'S	1	F	35	95	1	-	-	-	10	10	<150
Gorleston	14	1025.4	-8	NW	1	bcF	32	85	1	5	-	-	4-6	4-6	220
Valentia Obs.†	30	1024.8	0	-	0	o/d	46	98	7	5	-	-	10	10	800
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke	150	1024.2	-4	NE	1	c	41	95	5	5	2	-	4-6	10	2500
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew)	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1025.0	-8	-	0	F+	34	95	1	5	-	-	10	10	<150
Manston	136	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1023.8	-4	NNE	3	c	45	95	6	5	-	-	9+	9+	4000
Falmouth	200	1024.5	+6	NNE	4	0	43	95	6	5	-	-	10	10	4000
Plymouth	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	1022.7	-8	NE	4	of	40	95	3	5	-	-	10	10	1500
Calshot, S'hampton	8	1023.7	-16	N	3	F	34	95	1	-	-	-	10	10	<150
Dungeness	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1024.0	-10	ENE	2	bf	31	95	3	-	-	-	0	0	-
Guernsey	173	1022.6	-6	E	1	2	42	95	5	-	-	-	6	0	-

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1015.8	-4	SW	2	r₀r₀	48	95	7	6	-	-	10	10	1500	1	*
1015.0	-8	SW	3	rr	49	95	6	6	-	-	10	10	4000	2	2
1017.3	-10	SW	3	c	45	95	8	8	7	-	7-8	7-8	2500	1	2
1019.4	-6	S'W	3	c	48	95	6	5	2	-	7-8	10	2500	1	2
1017.8	•	SW	1	bc	41	85	8	5	-	-	4-6	4-6	4000	0	*
1019.0	+4	NW	1	bc	32	95	6	-	4	8	0	4-6	-	1	1
1020.6	-4	S	2	bc	43	95	7	5	3	-	2-3	4-6	2500	0	2
1021.6	-8	SW	1	c	40	95	6	5	-	-	10	10	1500	1	*
1021.6	+4	WSW	4	o	40	95	7	5	-	-	10	10	800	0	1
1019.9	-2	SW	3	c	39	95	5	-	2	8	0	9	-	1	*
1022.4	-6	WSW	2	m	36	95	4	5	-	-	10	10	450	1	*
1021.1	-4	WSW	2	bcf	33	85	3	5	-	-	4-6	4-6	1500	4	1
1021.5	-8	S	3	c	49	95	7	5	-	-	9+	9+	<150	0	3
1022.1	-10	SSE	2	f	40	95	3	-	-	-	10	10	<150	1	*
1022.1	-10	WSW	1	o	41	65	6	5	-	-	10	10	800	0	0
1023.7	0	S	1	o/d	42	95	7	6	-	-	10	10	2500	1	*
1022.4	-4	W	2	c	45	85	6	5	-	-	10	10	1500	1	0
1023.3	0	SE'E	2	of	35	95	3	5	-	-	10	10	800	0	*
1023.4	-8	SE'S	2	m	34	95	4	5	-	-	9+	9+	1500	0	*
1023.2	-6	SW	1	m	30	95	4	5	-	-	1	1	<150	1	*
1023.2	-2	W	2	2	34	95	5	5	-	-	10	10	800	0	2
1024.1	-4	NNW	1	of	32	95	3	5	-	-	10	10	1500	1	*
1023.7	0	W	2	F	31	95	1	-	-	-	10	10	<150	1	*
1023.9	-4	NW	2	bF	27	95	1	-	-	-	0	0	-	5	1
1023.4	-6	NE'E	2	0	45	95	6	5	-	-	10	10	800	1	1
1024.0	-6	E	2	0	42	95	7	5	-	-	10	10	1500	0	2
1023.9	-2	NE	1	c	40	95	6	5	-	-	9+	9+	2500	0	1
1024.0	-6	N'W	1	of	32	95	3	5	-	-	10	10	220	1	*
1023.3	-4	NNE	1	oF	32	95	1	5	-	-	10	10	<150	1	*
1023.8	-4	N	1	dF	35	95	1	5	-	-	10	10	<150	1	*
1023.2	-2	N	2	f	33	95	2	-	-	-	10	10	<150	1	*
1023.1	-2	NNE	1	f	34	95	2	-	-	-	10	10	<150	1	*
1023.5	0	NW	1	F-	33	95	1	-	-	-	10	10	<150	1	*
1023.6	-6	-	0	oF	33	95	1	5	-	-	10	10	<150	1	*
1023.4	-2	-	0	bF	32	95	0	-	-	-	10	10	<150	1	*
1023.1	0	NW	3	if	32	95	3	5	-	-	10	10	<150	1	1
1023.8	-2	WNW	1	F	31	95	0	-	-	-	10	10	<150	1	0
1022.9	-2	NNE	2	c	45	85	6	5	-	-	9+	9+	4000	0	2
1024.0	-6	N'W	3	0	43	85	6	5	-	-	10	10	4000	0	2
1022.8	-8	ENE	2	m	35	95	4	5	-	-	2-3	2-3	220	1	0
1021.9	-2	NE	4	oF	36	95	1	5	-	-	10	10	220	1	3
1023.0	-6	NNW	3	F	35	95	1	-	-	-	10	10	<150	1	0
•	•	N 1 0		F	•	•	1	-	-	-	10	10	<150	•	0
1022.3	-10	E'N	1	m	33	95	4	-	-	-	0	0	-	4	*
1021.6	0	-	0	2	42	95	5	5	-	-	4-6	4-6	2500	0	2

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 4th Hrs. (36)
49	47	*	-	1	1.1
49	47	*	-	5	0.0
48	41	*	-	0.3	*
46	45	44	-	0.5	0.0
45	39	*	-	-	0.0
47	32	25	-	-	0.0
44	38	*	-	-	2.6
37	36	26	-	-	0.0
41	40	35	-	Tr.	0.0
42	34	31	-	-	0.0
36	28	26	-	-	0.0
41	32	28	-	-	*
45	44	*	Tr.	0.1	*
41	37	37	Tr.	Tr.	0.0
45	37	*	0.1	-	*
44	41	39	-	Tr.	0.0
48	42	39	-	-	0.0
39	35	34	-	-	0.0
39	34	33	-	-	0.0
38	28	23	-	-	0.0
44	34	*	-	Tr.	1.7
38	31	31	-	-	1.1
42	30	30	-	Tr.	0.0
49	25	24	Tr.	-	6.9
47	44	43	Tr.	0.2	4.2
48	42	*	-	Tr.	*
44	40	*	-	-	0.0
40	31	31	-	-	0.1
40	32	32	-	-	0.1
42	35	35	-	0.2	0.2
43	33	33	-	-	3.7
41	34	34	-	-	0.0
42	33	33	-	-	0.0
41	33	35	-	Tr.	0.0
48	30	24	-	Tr.	4.9
49	31	29	-	-	6.9
48	28	20	-	Tr.	6.9
50	44	*	-	-	0.0
48	43	*	-	-	0.0
45	35	31	-	Tr.	2.1
46	35	*	-	-	*
45	33	30	-	-	2.9
46	25	*	-	-	*
45	27	16	Tr.	Tr.	5.0
50	41	30	-	-	6.4

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather Morning.	Weather Afternoon.	Weather Night.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
Kew	18	om of q	o F q	of f w	42	33	33	-	-	0.0	•	•	1
Croydon	244	o Fe F bf	bof F F	o Fe Fe	41	33	35	-	Tr.	0.0	•	•	1
Greenwich (Royal Observatory)	149	of	of F	o Fe Fe	41	33	33	-	Tr.	0.0	95	98	1
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Park)	27	•	•	•	43	35	34	-	-	0.0	91	98	•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•	•	•	•	•
Camden Square	116	o	om of	•	41	31	33	-	-	•	•	100	•
Kensington Palace	80	of mf	of	•	41	32	29	-	-	•	At 18h. 100	99	•
Hampstead Observatory	450	of	of	•	40	25	26	tr	tr	0.0	•	100	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
1.3	11h-16h 4th	0.3	3h-4h 5th

Kew Observatory. Max.	Time.	Min.	Time.
1.3	20h 4th	0.3	8h 5th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 4th December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 5th December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1024.9	-	0	b	34	1022.7	-	0	b	28
Brussels	1025.0	E	2	m	34	1023.4	-	0	2	27
Berlin						1028.2	-	0	F	27
Zürich	1027.2	E	1	2	34	1022.8	SE	1	2	32
Rome						1019.0	NE	4	c	41

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
39	28	-	-
41	27	-	-
	25		-
36	32	-	-
	36		-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 6th December 1930.

No. 25216

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

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)
Lerwick	1013.6	-10	SW	3	ir$_o$	48	95	7	6	2	-	4-6	10	1500
Stornoway ...	1016.6	+2	W	2	c	45	95	8	7	8	-	4-6	7-8	4000
Wick	1016.1	-6	SW	2	bc	47	85	8	5	4	-	2-3	4-6	2500
Tiree	1018.9	-2	NW'W	4	o d$_o$d$_o$	46	95	6	5	-	-	10	10	~~1500~~
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	800
Aberdeen	1018.3	0	SW	1	bcf	41	75	3	-	-	1	0	Tr.	-
Malin Head ...	1019.7	-4	SSW	2	c/d	47	95	6	5	5	-	4-6	7-8	1500
Renfrew	1020.9	-6	SW	2	c	44	95	6	5	-	-	10	10	1500
Inchkeith (Edin.)	1020.7	0	WSW	4	c	43	95	6	5	1	-	2-3	9	800
Leuchars	1019.5	-2	SW	23	b	43	85	6	-	-	1	0	1	-
Eskdalemuir ...	1021.6	-6	WSW	2	o	40	95	6	5	-	-	10	10	1500
Tynemouth ...	1020.3	-10	W	2	bc	43	85	6	5	-	-	4-6	4-6	1500
Blacksod Point ...	1021.5	+4	WSW	3	c	49	85	8	5	-	-	9+	9+	220
Aldergrove ...	1022.1	-4	S'W	2	F	41	95	1	5	-	-	10	10	<150
Donaghadee ...	1021.3	-8	SW	1	m	43	95	4	5	-	-	10	10	800
Birr Castle ...	1023.0	-2	SW	1	f	44	95	3	5	-	-	10	10	1500
Holyhead... ...	1021.9	-6	N	1	b	46	85	6	5	-	-	1	1	2500
Liverpool (Bidston)	1021.8	-10	-	0	m	41	95	4	5	-	-	10	10	1500
Chester (Sealand)	1022.0	-12	SE	1	m	40	85	4	5	-	-	9+	9+	2500
Harrogate... ...	1021.9	-6	-	0	bcf-	32	75	2	5	-	-	4-6	4-6	4150
Spurn Head ...	1021.5	-4	W'S	1	f	33	95	2	5	-	-	10	10	<150
Birmingham ...	1022.5	-8	NNW	2	bcf-	37	95	3	5	-	-	2-3	2-3	1500
Cranwell	1021.8	-14	W	2	F	32	95	1	5	-	-	10	10	<150
Gorleston	1021.7	-18	NW'N	2	F	32	95	1	5	-	-	10	10	<150
Valentia Obs. ...	1023.1	-6	-	0	c	50	95	7	5	-	-	9	9	1500
Roches Point ...	1023.3	-10	SE	2	bc	45	95	5	5	-	-	9+	9+	1500
Pembroke... ...	1022.2	-14	NE	1	bc	43	95	6	5	7	-	7-8	9+	2500
Ross-on-Wye ...	1023.1	-8	N	2	m	31	95	4	5	-	-	10	10	450
Leafield	1022.3	-10	N'W	3	F	30	95	1	5	-	-	10	10	<150
Cardington ...	1023.4	-10	NNW	1	f-	33	95	3	5	-	-	10	10	<150
Winchester ...	1021.1	-10	N	2	F	31	95	1	5	-	-	10	10	<150
S. Farnborough ...	1022.1	-14	N	1	f	33	95	3	~~5~~	-	-	~~10~~	~~10~~	~~<150~~
London (Kew) ...	1021.2	-12	-	0	f	34	95	2	5	-	-	10	10	<150
Croydon	1022.0	-12	WNW	1	F	33	95	1	5	-	-	10	10	<150
Manston														
Shoeburyness ...	1022.1	-6	-	0	F	32	95	1	5	-	-	10	10	<150
Clacton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe ...	1022.6	-10	WNW	1	F	33	95	1	5	-	-	10	10	<150
Scilly (St. Mary's)	1022.3	-4	NNE	2	c	46	85	6	5	-	-	9+	9+	4000
Falmouth... ...	1023.0	-4	N'E	2	c	44	85	6	5	-	-	9	9	4000
Plymouth... ...	1022.0	-8	ENE	1	m	35	95	-	5	-	-	10	10	<150
Portland Bill ...	1021.6	-4	NE	3	F	35	95	1	5	-	-	10	10	<150
Calshot, S'hampton	1021.5	-10	N'W	3	F	37	95	1	5	-	-	10	10	<150
Dungeness ...	*	*	NNW	3	F	*	*	1	5	-	*	10	10	<150
Lympne	1021.3	-14	N	2	F	35	95	1	5	-	-	10	10	<150
Guernsey	1021.0	-8	ENE	1	m	41	95	4	5	-	-	10	10	1500

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

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)
Lerwick	1014.3	+8	WSW	2	c	44	85	7	5	8	9	2-3	7-8	1500	1	*
Stornoway ...	1017.0	+2	WSW	2	c	42	95	7	9	6	-	4-6	7-8	4000	1	1
Wick	1016.8	+12	NW	1	c	40	95	8	9	6	8	4-6	7-8	1500	1	2
Tiree	1019.4	+6	WNW	2	c/d$_o$	43	85	7	5	3	6	2-3	7-8	1500	1	3
Nairn	1018.0	*	W	1	d$_o$r	44	95	7	6	-	-	7-8	7-8	2500	1	*
Aberdeen	1018.0	+2	-	0	bc	38	85	6	-	5	9	0	2-3	-	1	1
Malin Head ...	1019.7	+2	W	1	c	45	95	7	5	9	-	4-6	7-8	1500	1	2
Renfrew	1020.2	0	SW	2	o	45	95	6	5	-	-	10	10	800	1	*
Inchkeith (Edin.)	1021.2	0	WSW	2	½	44	95	5	5	-	-	10	10	800	0	0
Leuchars	1019.3	+2	WSW	2	bc	40	95	5	5	-	8	2-3	4-6	4000	1	*
Eskdalemuir ...	1021.3	+6	-	0	F	34	95	1	5	-	-	10	10	<150	1	*
Tynemouth ...	1019.9	0	W	2	bc	39	85	5	5	-	-	4-6	4-6	1500	0	1
Blacksod Point ...	1021.2	0	NW	2	c	44	75	8	-	7	-	0	9	-	0	3
Aldergrove ...	1021.1	-4	S	2	F	42	95	1	5	-	-	10	10	<150	1	*
Donaghadee ...	1020.5	-10	-	0	f	43	95	3	5	-	-	10	10	800	0	0
Birr Castle ...	1021.3	-4	SW	1	0	44	95	7	5	-	-	10	10	2500	1	*
Holyhead... ...	1020.9	-2	-	0	c	45	85	5	5	-	-	10	10	2500	1	0
Liverpool (Bidston)	1020.9	-4	NNW	3	½	43	85	5	5	-	-	10	10	1500	0	*
Chester (Sealand)	1020.9	-6	NW'N	2	½	42	85	5	5	-	-	9+	9+	2500	0	*
Harrogate... ...	1021.0	0	SSW	1	m	31	95	4	5	-	-	Tr.	Tr.	<150	4	*
Spurn Head ...	1020.6	-2	-	0	f	34	95	2	5	-	-	10	10	<150	0	1
Birmingham ...	1021.6	-2	NNW	2	bf-	36	95	2	-	-	-	0	0	-	1	*
Cranwell	1021.4	0	W	1	F	32	95	1	5	-	-	10	10	<150	1	*
Gorleston	1020.7	-2	WNW	1	F	33	95	1	5	-	-	10	10	<150	1	0
Valentia Obs. ...	1021.4	-4	-	0	c	49	95	7	5	-	-	10	10	800	1	3
Roches Point ...	1021.6	-6	SW	2	½	45	95	5	5	-	-	9	9	1500	0	2
Pembroke... ...	1020.9	-2	N	1	c	45	95	6	5	7	-	7-8	10	2500	0	1
Ross-on-Wye ...	1021.5	-6	NW	1	of	34	95	2	5	-	-	10	10	220	1	*
Leafield	1021.4	-6	N	3	F	32	95	1	5	-	-	10	10	<150	1	*
Cardington ...	1021.4	-4	W'N	2	f	30	95	3	5	-	-	10	10	<150	1	*
Winchester ...	1021.4	+2	N	2	f	32	95	3	5	-	-	10	10	<150	1	*
S. Farnborough ...	1021.0	-2	NNW	1	f-	32	95	3	5	-	-	10	10	220	1	*
London (Kew) ...	1021.2	-6	N	1	m	33	95	4	5	-	-	10	10	1500	1	*
Croydon	1020.9	-2	WNW	1	F-	33	95	1	5	-	-	10	10	<150	1	*
Manston																*
Shoeburyness ...	1021.0	-4	-	0	F	32	95	1	5	-	-	10	10	<150	1	*
Clacton-on-Sea ...	1021.0	-6	NW	1	F	32	95	1	5	-	-	10	10	~~1500~~	1	1
Felixstowe ...	1021.6	0	N'W	1	F	31	95	1	5	-	-	10	10	<150	1	1
Scilly (St. Mary's)	1020.8	-6	NNE	2	c	46	85	6	5	-	-	9+	9+	4000	0	2
Falmouth... ...	1021.8	-4	NE	3	0	39	95	6	5	-	-	10	10	4000	0	2
Plymouth... ...	1021.0	-4	NNE	1	½	35	95	5	5	-	-	10	10	220	1	0
Portland Bill ...	1020.3	-4	N'E	2	F	36	95	1	5	-	-	10	10	<150	1	3
Calshot, S'hampton	1021.5	+4	N'E	3	f-	32	95	2	5	-	-	10	10	<150	1	1
Dungeness ...	*	*	N	3	F	*	*	0	5	-	*	10	10	<150	*	0
Lympne	1020.3	0	N	2	F-	30	95	1	5	-	-	10	10	<150	1	*
Guernsey	1020.1	0	ENE	1	m	41	95	4	5	-	-	10	10	1500	0	1

PAST 24 HOURS.

WEATHER. 7h.–13h. 5th (37)	13h.–18h. 5th (38)	18h. 5th to 1h. 6th (39)	1h.–7h. 6th (40)
or$_o$r$_o$ir$_o$	oir$_o$	cpr	cpr$_o$
c p$_o$r	bc	c	cpr
cbc d$_o$	cddc	bc𝕌	bcc
com$_o$d$_o$d	od$_o$d$_o$fc	cird	ird$_o$
bcjp	bcdbc	d$_o$cbc	bcxcc
bcbjfff	bfjbc	bcc3$_o$	cir$_o$
cd$_o$m$_o$	cm$_o$	cidm$_o$m$_o$	cidmm
cm$_o$	co$_i$d$_o$	d$_o$om$_o$	oir$_o$m
pc	com$_o$m$_o$	om$_o$m$_o$	ocm$_o$m$_o$
cbc bcwbm$_o$	bcm$_o$𝕌	bccm$_o$	cm$_o$cr$_o$m
cmuom$_o$	cbfoFw	oFe	ojeojr
bcff	bcm	bcfjf	bcijo
prc	c	c	id
FeFe	oFeFe	Feom	omid$_o$
om$_o$	ojf	ojfjo	om$_o$
occojf	offeo	o$_i$r$_o$	orr$_o$c
bc cm$_o$	bj$_o$cm$_o$	cbmcw$_o$	cbcm$_o$
omm	omj	m$_o$ccm	ofje
cmm	cmm	cm	oFF
bmoFbcfv	iFbmx	bmb	ojjd
oFF	oFF	oFje	omz
cf	bcbjF	bjc	co
oFe	Fe	ofe	ofed$_o$
bcjfx	oFfex	oFf	ojj
oj$_o$c	c	cid$_o$	cid$_o$
cj	cj	cj	cje
cm$_o$	cm$_o$	cm$_o$	cm$_o$x
ofom	omof	ofom	om
oFF	oFFex	oFcm	cm$_o$o
d$_o$d$_o$fcfcf	ojfe	ojfexc	ojfexc
ff	ff	ff	ff
ojj	ojj	ojj	ojje
of	ofom	omof	ofw
oFeF	oFF	oFF	oFF
bFeFe	FeFe	Femx	om$_o$x
ojfe	ojfe	ojj	ojjgm
Fex	Fe	Feje	om$_o$
c	c	c	c
occmo	com$_o$	om$_o$	om$_o$
bmeccom	om	om	om
Ff	Ff	FFmcm$_o$	cFf
oFeFe	oFeFe	oFeFe	ofejem$_o$
f	f	f	f
bfof	oFF	ofex	ofe
bcjom	obcom	omoj	ojoj

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

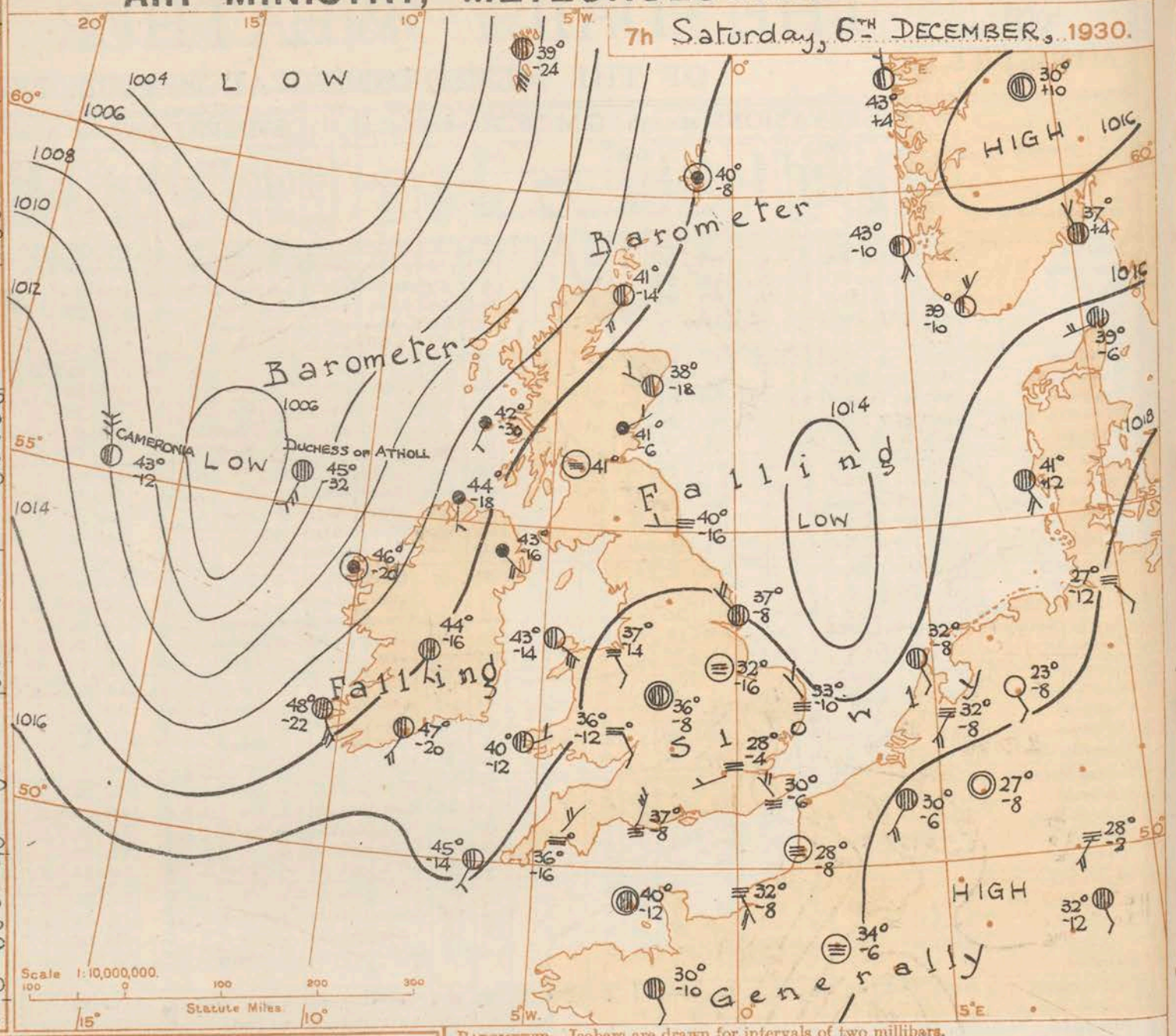
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 5th December 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 4th to 9h. 5th	TEMPERATURE. Max. 9h.—17h. 5th	RAINFALL. Night 17h. 4th to 9h. 5th	RAINFALL. Day. 9h.—17h. 5th	SUNSHINE. Sunrise to Sunset. 5th.
Dunbar	bm$_o$	bm$_o$	35	44	–	–	4.3
Berwick-on-T.	ocbc	bc	34	42	–	–	0.0
Douglas	cbm$_o$	cm$_o$	40	46	–	–	0.6
Llandudno	o	om	36	44	–	–	0.0
Colwyn Bay	o	o	37	44	–	–	0.0
Rhyl	cm$_o$	cm$_o$	33	42	–	–	0.0
Wallasey	f$_o$	f$_o$	35	44	–	–	0.0
Southport ‖	om	om	35	41	–	–	0.0
Blackpool	om	om	35	40	–	–	0.0
Morecambe	f$_o$	oc	31	39	–	–	0.0
Ilkley	mo	cbc	31	41	–	–	0.0
Cleethorpes	f$_o$	f$_o$f$_o$	30	34	–	–	0.0
Mablethorpe	ffe	ffe	32	33	–	–	0.0
Skegness	fe f$_o$fe	fe	24	35	0.4	Trace	0.0
Aberystwyth	c3	c3	33	43	–	–	0.0
Bath	mo	mo	31	33	–	–	0.0
Cheltenham †	ome	omfc	30	34	–	–	0.0
Leamington Spa	o	f	30	35	–	–	0.0
Lowestoft	b	fe	24	32	–	–	0.0
Dovercourt	xF	F	29	34	Trace	–	0.0
Maldon	xFF	FF	29	35	–	–	0.0
Southend	offe	offe	29	42	0.2	Trace	0.0
Ilfracombe	o	o	35	41	–	–	0.0
Bude	om	mmo	32	43	–	–	0.0
St. Ives	o	o	43	47	–	–	0.0
Penzance	com	om	43	47	–	–	0.0
Torquay	om	om	36	37	–	–	0.0
Jersey	c3	c3	36	40	–	–	0.0
Weymouth	ff	ffe	32	35	–	Trace	0.0
Bournemouth	f	f	32	34	–	–	0.0
Ventnor	ofbf	bfof	34	40	Trace	Trace	2.3
Southsea	pcfb	ofe	30	38	–	–	0.7
Bognor Regis	bcfb	b	31	38	–	–	5.0
Littlehampton	cfb	c	31	35	–	–	0.0
Worthing	bcb	b	31	38	Trace	–	5.2
Brighton	bf	bco	30	36	–	–	5.3
Eastbourne †	f	f	29	36	–	–	0.0
Hastings †	xFf	Ff	33	40	0.4	0.2	0.0
Folkestone	xofbm	bmof	32	38	–	–	4.4
Dover	fbco	fbco	28	46	–	–	0.0
Deal	f	f	27	38	–	–	0.0
Tunbridge Wells	of	of	25	31	–	–	0.0
Ramsgate	abcbf	bcomf	30	41	Trace	Trace	1.3
Margate	cfm	cmf	33	42	–	–	0.0

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 1/5 clouded. ◕ Sky 1/5 to 1/2 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡° Mist. ϒ Thunder. ϒ⚡ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 6th Dec. 1930.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Light or moderate variable winds; cloudy, rather cold, considerable fog locally; frost at night.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland	Moderate southerly winds veering northwesterly; cloudy, at first, bright intervals later; rather cold, with frost at night; local mist or fog.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland	Moderate or fresh southerly winds veering northwesterly; cloudy with some rain at first, bright intervals and occasional showers later; rather cold, with frost at night.
15. N.E. Scotland 16. Orkneys and Shetlands.	Moderate or fresh southerly winds; cloudy, some rain; rather cold.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 12 - 14.

GENERAL INFERENCE.

A trough of low pressure off the western seaboard will move slowly east-northeastward. Some rain is to be expected in Ireland and Scotland but over most of England and Wales weather will continue mainly cloudy, with fog locally in the East and South.

FURTHER OUTLOOK.

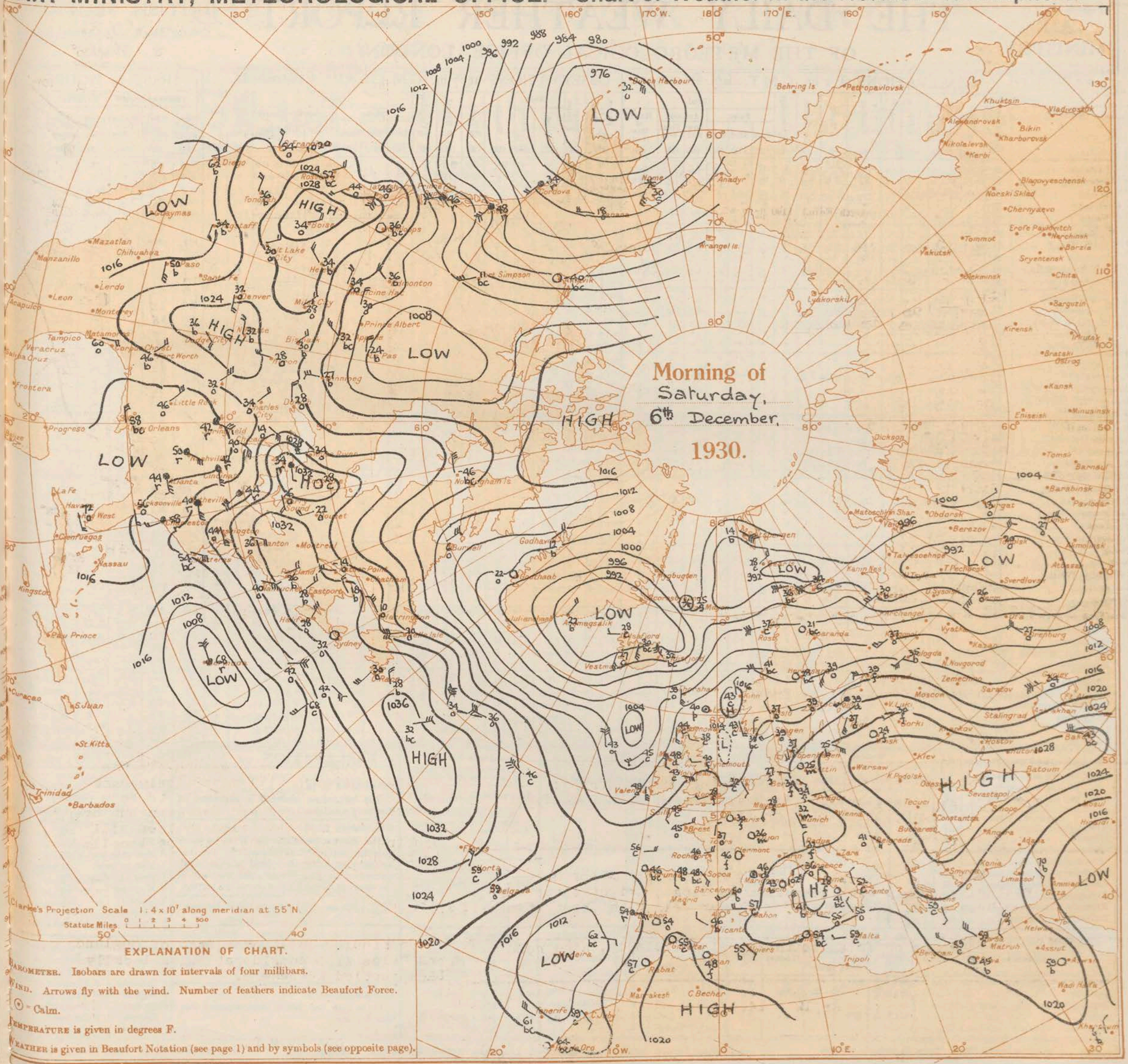
Continuing quiet over most of England and Wales with considerable fog locally. Less settled elsewhere.

Forecasts issued at 0930 G.M.T.

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

H.M. Stationery Office Press, Kingsway W.C.2.
Fr. 2497/2165. M. 26. D.6026. Gp. 908.

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 6th December 1930.

No. 25216

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

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)
Lerwick	54	1015.3	+4	-	0	c	42	85	8	8	-	8	4.6	7.8	1500
Stornoway ...	34	1016.2	- 6	-	0	c	38	95	8	9	1	-	2.3	10	4000
Wick	81	1017.2	+4	SW	2	c	36	95	8	5	4	1	2.3	4.6	4000
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head ...	51	1017.3	-18	SSE	2	cd	43	95	7	6	7	-	7.8	9+	1500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	1018.7	-4	WSW	2	o	45	95	7	5	-	-	10	10	800
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir ...	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth ...	67	1019.7	-6	W	2	bcf	35	95	2	5	-	-	4.6	4.6	1500
Blacksod Point ...	10	1017.4	-26	SSE	2	c	44	95	8	1	3	-	0	9	-
Aldergrove ...	228	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee ...	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle ...	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead... ...	26	1016.5	-12	-	0	c	44	95	5	5	-	-	10	10	1500
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate... ...	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head ...	29	1018.7	-4	NW'N	3	f-	37	95	3	-	-	-	10	10	<150
Birmingham ...	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1019.2	-16	N'N'E	1	f	33	95	1	-	-	-	10	10	<150
Gorleston	14	1019.8	-6	NNE	2	f	32	95	2	-	-	-	10	10	<150
Valentia Obs.† ...	30	1013.3	-20	NNE	2	pr	50	95	9	6	-	-	10	10	2500
Roches Point ...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke... ...	150	1018.8	-8	ESE	1	c	38	95	6	5	-	-	9+	9+	2500
Ross-on-Wye ...	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington ...	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester ...	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew) ...	18	1020.0	-6	-	0	oF	31	95	1	8	-	-	10	10	<150
Croydon	244	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Manston	136	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness ...	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1019.2	-12	NNE	1	c	45	85	6	5	-	-	9+	9+	4000
Falmouth... ...	200	1020.1	-6	NE	1	o	42	85	6	5	-	-	10	10	4000
Plymouth... ...	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill ...	32	1018.6	-10	N'E	3	c	37	95	5	4	-	-	10	10	1500
Calshot, S'hampton	8	1019.9	-6	N'W	2	f	32	85	2	-	-	-	10	10	<150
Dungeness ...	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1019.2	-14	NNW	1	of	30	95	1	5	-	-	10	10	<150
Guernsey	173	1019.1	-10	-	0	ome	41	95	5	5	-	-	10	10	1500

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1014.0	-8	-	0	pro	40	95	7	8	7	-	4.6	7.8	1500	1	*
1011.7	-22	S	2	c	44	95	7	9	1	-	9	10	4000	1	1
1013.8	-14	SW	2	c	41	95	8	5	1	-	7.8	10	2500	1	2
1012.1	-30	SSW	1	rr	42	95	8	5	7	-	7.8	9r 10	800	1	2
1013.8	•	-	0	c	33	85	8	8	-	-	7.8	7.8	2500	0	*
1014.9	-18	WNW	1	c	38	95	6	6	-	-	9+	9+	1500	1	1
1013.2	-18	S	1	dd	44	95	4	6	2	-	9	10	800	1	2
1015.6	-14	-	0	fo+	41	95	3	5	-	-	10	10	1500	1	*
1015.3	-24	S	1	z	44	95	6	5	-	-	10	10	800	0	0
1015.3	-6	ENE	1	iro	41	95	4	5	-	-	10	10	2500	1	*
1015.8	-18	-	0	rf	37	75	2	5	-	-	10	10	<150	1	*
1015.6	-16	W	1	fo	40	95	3	5	-	-	10	10	1500	1	1
1011.6	-20	-	0	ido	46	95	8	3	-	-	10	10	800	1	2
1014.4	-16	SE'E	2	ido	43	95	5	5	-	-	10	10	800	1	*
1014.3	-8	-	0	m	44	95	4	5	-	-	10	10	800	1	0
1014.0	-16	S	1	c	44	95	7	5	-	-	10	10	2500	1	*
1015.0	-14	E'S	3	c	43	95	5	5	-	-	9+	9+	1500	1	1
1015.7	-10	E	2	fo	37	95	2	5	-	-	10	10	450	0	*
1016.3	-14	SSE	1	F	37	95	1	-	-	-	10	10	<150	0	*
1016.1	-14	-	0	f	37	95	2	5	-	-	10	10	<150	1	*
1016.0	-8	NW	2	z	37	95	5	5	-	-	10	10	800	0	2
1016.6	-8	-	0	o	36	85	6	5	-	-	10	10	1500	1	*
1016.6	-16	-	0	qf	32	95	2	-	-	-	10	10	<150	1	*
1016.7	-10	NW	1	f	33	95	2	-	-	-	10	10	<150	0	1
1013.3	-22	SSE	3	c	48	95	8	5	-	-	10	10	800	1	.
1014.8	-20	SW	2	c	47	95	8	5	-	-	9	9	1500	0	3
1015.6	-12	ENE	1	c	40	95	5	5	-	-	9+	9+	2500	0	1
1016.7	-12	SE'S	1	z	36	85	5	5	-	-	10	10	800	1	*
1016.5	-10	SE	1	v	31	95	5	5	-	-	10	10	450	1	*
1017.1	-10	-	0	f	31	95	3	-	-	-	10	10	<150	1	*
1017.2	-8	NNE	1	f	29	95	3	-	-	-	10	10	<150	1	*
1017.3	-8	-	0	f	29	95	2	-	-	-	10	10	<150	1	*
1017.7	-8	WNW	1	f	28	95	2	-	-	-	10	10	<150	1	*
1018.4	-9	WSW	1	fo-	28	95	2	5	-	-	10	10	<150	1	*
1017.5	-6	W	1	o	29	95	5	5	-	-	10	10	800	0	*
1017.6	-10	N	1	z	30	95	6	5	-	-	10	10	450	0	0
1017.7	-8	-	0	o	30	95	5	5	-	-	10	10	1500	1	0
1015.9	-14	SW's	1	c	45	85	6	5	-	-	9+	9+	4000	0	1
1016.8	-12	-	0	o	42	85	6	5	-	-	10	10	4000	0	0
1016.5	-16	NE	2	m	36	85	4	5	-	-	10	10	450	1	0
1016.0	-8	N'E	3	fo-	37	95	2	5	-	-	10	10	1500	1	2
1017.1	-14	NNW	3	z	33	95	5	5	-	-	10	10	450	1	0
•	•	NNW	3	F	•	•	1	5	-	•	10	10	<150	•	0
1017.2	-6	N'N'W	2	Fo	30	95	1	5	-	-	10	10	<150	1	1
1016.4	-12	-	0	z	40	95	5	5	-	-	10	10	1500	0	1

PAST 24 HOURS.

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)
49	38	*	2	1	0.0
50	37	*	1	1	1.7
48	34	*	0.2	-	*
49	37	27	0.6	2	0.0
47	30	*	0.6	0.2	1.8
41	37	31	-	0.1	3.3
47	42	*	0.2	2	0.1
45	37	32	Tr.	0.4	0.0
44	48	41	-	-	0.2
43	37	33	-	Tr.	2.9
40	34	33	Tr.	0.2	1.0
43	35	30	-	-	*
50	38	*	2	0.5	*
43	41	40	Tr.	0.1	0.0
44	41	*	-	-	*
44	43	42	-	2	1.2
47	42	28	-	-	1.5
43	33	30	-	-	0.0
42	32	26	-	-	0.0
33	29	25	-	0.2	0.0
36	33	*	Tr.	Tr.	0.0
38	35	35	-	-	0.1
33	31	31	-	0.1	0.0
34	32	32	0.1 Tr	Tr.	0.0
51	46	44	-	0.2	0.2
46	40	*	-	-	*
45	37	*	-	-	0.0
34	33	34	-	-	0.0
32	30	30	0.1	0.1	0.0
35	29	29	Tr.	Tr.	0.0
35	27	27	-	-	0.0
34	27	28	-	Tr.	0.0
35	28	28	-	-	0.0
34	28	32	Tr.	-	0.0
35	28	28	Tr.	Tr.	0.0
37	33	33	Tr.	-	0.0
34	27	28	-	Tr.	*
35	28	28	-	-	0.0
34	28	32	Tr.	-	0.0
37	31	*	Tr.	Tr.	*
35	29	30	0.2	0.1	2.1
44	30	31	-	-	0.3

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility 9h.
Kew	18	of	ofom	omofw	35	28	28	-	-	0.0	•	•	1
Croydon	244	oFeF	oFF	oFF	34	28	32	Tr.	-	0.0	•	•	3
Greenwich (Royal Observatory) ...	149	oFF	oFf	ofemFe	35	28	29	Tr.	-	0.0	96	97	1
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	36	27	30	-	-	0.0	94	95	•
Regents Pk. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	0.0	•	96	•
Camden Square	116	ofom	of	•	34	29	29	-	-	•	At 18h.		•
Kensington Palace	80	of	of	•	34	27	30	-	-	•	89	92	•
Hampstead Observatory	450	of	of	•	33	23	25	tr.	tr.	0.0		98	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
1.3	12h 5h	<0.3	5h-6h 6h

Kew Observatory. Max.	Time.	Min.	Time.
0.6	12h 5h	0.3	5h 6h

FOREIGN OBSERVATIONS.

18h. G.M.T. 5th December

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1020.9	SSW	1	f	34
Brussels	1020.8	-	0	m	30
Berlin					
Zürich	1022.0	SW	1	z	37
Rome					

7h. G.M.T. 6th December

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
1017.9	-	0	f	34
1018.2	SSW	2	z	30
1019.8	SE	1	bcf	34
1021.7	SW	1	vdo	36
1025.7	NNE	2	bcf	28

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
39	30	-	-
41	27	-	-
	28		-
39	34	-	7
	25		-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

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

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2⅛	,,
6	Moderate ,,	6¼	,,
7	Good ,,	12½	,,
8	Very good ,,	31	,,
9	Excellent ,,	beyond 31m.	

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 7th December 1930.

No. 25217

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

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)
Lerwick	1010.5	-18	S	2	c/p	45	95	7	6	-	-	9+	9+	1500
Stornoway	1007.1	-26	S	3	c	45	95	8	3	1	-	4-6	9+	4000
Wick	1009.8	-20	SSW	4	c	43	95	8	2	7	3	4-6	7-8	2500
Tiree	1007.8	-28	S	3	c/r	46	95	7	6	2	-	7-8	10	800
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1011.7	-22	SW	2	c	44	95	6	5	3	4	7-8	9	800
Malin Head	1008.0	-26	S	3	id.	47	95	5	6	1	-	7-8	9+	800
Renfrew	1011.6	-26	SW	1	f	43	95	2	5	-	-	10	10	1500
Inchkeith (Edin.)	1012.3	-18	ESE	1	m.	44	95	5	5	2	-	4-6	9+	800
Leuchars	1011.9	-24	-	0	F	43	95	1	5	-	-	10	10	<150
Eskdalemuir	1012.9	-20	S	1	m	37	95	4	5	-	-	10	10	<150
Tynemouth	1012.3	-18	WNW	1	f	45	85	3	5	7	-	4-6	7-8	800
Blacksod Point	1008.0	-16	S	1	RR	48	95	7	6	-	-	10	10	<150
Aldergrove	1010.9	-20	S'E	3	o/r	46	95	5	5	-	-	10	10	800
Donaghadee	1011.1	-20	SSW	1	ir.	46	95	6	5	-	-	9	9	1500
Birr Castle	1010.8	-20	SW	1	o	46	95	7	6	-	-	10	10	2500
Holyhead	1012.3	-18	E'S	3	c	44	95	6	5	-	-	10	10	1500
Liverpool (Bidston)	1013.4	-14	SE'S	2	o	37	95	6	5	-	-	10	10	1500
Chester (Scaland)	1014.4	-18	SE'S	2	m.	38	85	5	5	-	-	10	10	1500
Harrogate	1013.2	-14	-	0	f	39	95	2	5	-	-	10	10	<150
Spurn Head	1013.7	-4	SW'S	1	c	36	95	5	5	2	-	7-8	10	1500
Birmingham	1014.2	-14	SW	1	m	35	86	4	5	-	-	10	10	1500
Cranwell	1014.2	-20	SW'W	1	m	33	95	4	5	-	-	10	10	450
Gorleston	1015.3	-10	W'S	2	m	33	95	4	5	-	-	10	10	1500
Valentia Obs.	1008.6	-34	S'E	3	c	50	95	8	5	2	-	9	10	800
Roches Point	1011.1	-26	SW	2	c	48	95	7	3	-	-	9	9	1500
Pembroke	1012.7	-16	S	2	m.	41	95	6	5	-	-	10	10	1500
Ross-on-Wye	1014.3	-14	SW	2	m	33	85	4	5	-	-	10	10	800
Leafield	1014.4	-12	S	1	f	29	96	2	5	-	-	10	10	<150
Cardington	1015.2	-14	SSW	1	o	30	95	5	5	-	-	10	10	450
Winchester	1015.0	-20	E	1	m	33	96	4	5	-	-	10	10	220
S. Farnborough	1015.1	-18	NE	1	f	32	95	3	5	-	-	10	10	<150
London (Kew)	1015.4	-16	-	0	f-	32	95	3	5	-	-	10	10	<150
Croydon	1015.6	-18	-	0	f	33	95	2	5	-	-	10	10	220
Manston														
Shoeburyness	1016.5	-18	NW	1	f	32	95	3	5	-	-	10	10	800
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1016.1	-16	SW	3	m	29	96	4	5	-	-	10	10	450
Scilly (St. Mary's)	1013.6	-12	S'W	1	c	46	95	6	5	-	-	9+	9+	4000
Falmouth	1014.5	-18	SSE	1	c	45	85	7	5	2	-	4-6	10	4000
Plymouth	1013.9	-20	NE	1	m.	42	75	6	5	-	-	10	10	800
Portland Bill	1013.6	-10	N'E	2	c	42	95	5	5	-	-	10	10	1500
Calshot, S'hampton	1014.9	-16	ENE	2	m.	36	95	5	5	-	-	10	10	450
Dungeness	*	*	N	1	f-	*	*	2	5	-	*	10	10	<150
Lympne	1015.3	-12	SSW	1	m.	36	95	5	-	-	-	0	0	-
Guernsey	1015.8	-2	SSE	2	z	41	85	5	5	1	-	2-3	4-6	2500

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

STATIONS.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	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)
Lerwick	1006.5	-12	S'E	2	c	45	95	7	8	3	-	4-6	7-8	1500	1	*
Stornoway	1004.0	-16	S	3	r	46	95	7	3	2	-	7-8	10	4000	1	2
Wick	1006.5	-18	SSW	4	c	44	85	8	8	2	-	7-8	10	2500	1	2
Tiree	1005.8	-12	SSW	3	rr	45	95	6	6	2	-	9	10	800	1	2
Nairn	1006.5	*	-	0	c	37	95	7	5	2	-	4-6	7-8	4000	0	*
Aberdeen	1008.7	-16	SSE	3	c	45	95	6	5	3	-	4-6	9+	2500	1	1
Malin Head	1005.9	-10	S	3	c/d	46	95	6	6	2	-	7-8	10	800	1	2
Renfrew	1009.5	-6	SSE	2	c	44	85	6	5	2	-	9	10	1500	1	*
Inchkeith (Edin.)	1009.8	-6	SSE	1	c	42	95	6	5	3	-	2-3	7-8	800	1	0
Leuchars	1009.7	-10	-	0	F	41	95	1	5	7	-	7-8	9	4000	1	*
Eskdalemuir	1009.3	-10	S	2	dF	39	95	1	5	-	-	10	10	<150	1	*
Tynemouth	1010.1	-16	NNW	1	m	44	95	4	5	-	-	10	10	1500	0	1
Blacksod Point	1008.2	0	NW	7	c	43	95	7	6	-	-	10	10	<150	2	5
Aldergrove	1008.1	-24	SE	3	c	45	85	6	5	-	-	9+	9+	800	1	*
Donaghadee	1008.7	-10	SSW	2	m.	45	95	6	5	-	-	9	9	1500	1	0
Birr Castle	1007.4	-14	S	1	c/r	45	96	7	6	2	-	9	10	2500	1	*
Holyhead	1010.0	-10	S'W	4	o	43	95	5	5	-	-	10	10	1500	1	*
Liverpool (Bidston)	1010.6	-10	ESE	3	o	37	85	6	5	-	-	10	10	1500	0	*
Chester (Scaland)	1012.1	-12	S'W	1	m	38	85	4	5	-	-	10	10	1500	0	*
Harrogate	1011.1	-10	S	1	f-	35	95	2	5	-	4	2-3	2-3	<150	1	*
Spurn Head	1011.8	-4	SW'S	2	o	33	95	5	5	-	-	10	10	800	0	1
Birmingham	1012.0	-12	SW	3	m	31	85	4	5	-	-	10	10	1500	1	*
Cranwell	1012.0	-12	SSE	2	m	32	95	4	5	-	-	10	10	450	1	*
Gorleston	1013.7	-14	-	0	o	29	95	5	5	-	-	10	10	1500	0	1
Valentia Obs.	1008.8	+6	NW'W	3	r.	46	95	6	5	2	-	7-8	10	800	1	3
Roches Point	1008.3	+10	SW	3	c	49	95	8	3	-	-	9	9	1500	1	4
Pembroke	1010.1	-12	E	3	pr	42	95	6	5	-	-	10	10	800	1	2
Ross-on-Wye	1012.1	-10	WSW	2	m.	34	95	5	5	-	-	10	10	800	1	*
Leafield	1012.2	-10	SE'S	3	F	31	95	1	5	-	-	10	10	<150	1	*
Cardington	1013.3	-8	-	0	f	31	95	3	5	-	-	10	10	<150	1	*
Winchester	1012.9	-4	W	1	m	35	95	4	5	-	-	10	10	450	1	*
S. Farnborough	1012.9	-10	SE	1	f	34	95	3	5	-	-	10	10	<150	1	*
London (Kew)	1013.2	-10	-	0	f	35	95	3	5	-	-	10	10	<150	1	*
Croydon	1013.6	-10	-	0	f-	36	95	3	5	-	-	10	10	<150	1	*
Manston																*
Shoeburyness	1013.7	-6	-	0	f	33	95	2	5	-	-	10	10	800	1	*
Clacton-on-Sea	1013.9	0	WSW	1	m	32	95	4	5	-	-	10	10	800	0	0
Felixstowe	1015.5	-6	WSW	1	m	31	95	4	5	-	-	10	10	450	1	0
Scilly (St. Mary's)	1010.7	-10	SSW	1	id.	46	95	7	5	-	-	9+	9+	4000	1	1
Falmouth	1011.8	-6	S'E	4	c	46	86	6	5	2	-	7-8	10	4000	0	2
Plymouth	1011.7	-14	-	0	m.	43	75	6	6	-	-	10	10	450	1	0
Portland Bill	1011.8	-6	N	1	m	42	85	4	5	-	-	10	10	1500	1	2
Calshot, S'hampton	1012.8	-8	E	3	m	42	95	4	5	-	-	10	10	800	1	0
Dungeness	*	*	SSE	3	m	*	*	4	5	-	*	10	10	1500	*	0
Lympne	1013.3	-8	SE'S	3	m.	37	95	5	5	-	-	9+	9+	2500	1	*
Guernsey	1013.0	-10	SE	1	z	40	95	5	5	-	-	10	10	2500	0	1

PAST 24 HOURS. WEATHER.

STATIONS. (For heights see p. 4.)	7h.–13h. 6h. (37)	13h.–18h. 6h. (38)	18h. 6h. to 1h. 7h. (39)	1h.–7h. 7h. (40)
Lerwick	c.p.r	c.p.r.c	c.p.r.r.o	o.r.o
Stornoway	c.p.d	c.o.r.o	o.r.c	c.j.b.c
Wick	c.p.r.c	c	c.r.r	c.r.r.o.r
Tiree	c.i.d.	c.d.d.r.r	c.R.R	c
Nairn	c.b.c	b.c	c.d.	d.o
Aberdeen	c.i.r.f.b.c.c	c.m.	c.m.	c.o.r.r
Malin Head	g.i.d.i.m.d.m	c.i.d.c.m.m.c.c.r.r.c.m.m	c.r.d.b.c	
Renfrew	i.d.r.f.f	f.f.c.m.	c.j.r.o.r.o	c.r.o.r.o
Inchkeith (Edin.)	o.c.m.m	c.m.m.i.r.	c	c.o.r.o
Leuchars	o.i.r.m.F.F	o.f.c.m.F.F	c.F.b.c.m.o.m.	o.d.o.d.o.m.
Eskdalemuir	o.f.i.r.o.m	o.m.o.f.d.	o.f.d.c.m.	c.c.m.r
Tynemouth	o.c.f.f	o.f.f	o.f.f. (b.d.r.)	o.i.f
Blacksod Point	r.r	r.r.c		b.c
Aldergrove	o.m.r.	o.m.c.m	c.c.r.r	c.r.r.c
Donaghadee	c.i.r.	c.i.r.c.m.	o.i.d.	c.i.r
Birr Castle	o.r.o	o.c.r.	c.o.r.r	o.r.r.c.b.c.b.c
Holyhead	c.m.j.p	o.m.	o.m.r.	r.o.r.
Liverpool (Bidston)	o.f.m.o	o	o	o.o.i.r.
Chester (Scaland)	F.f.o	o.m.m	o.m.m.	o.m.
Harrogate	o.f.f.e	o.b.c.f.f.e	b.c.o.f.f	o.f.f
Spurn Head	o.m.z.c	o.m.f.o	o.d.2	o.d.o.m.f
Birmingham	o	o.o.m	o.i.d.	o.i.d.
Cranwell	o.d.o.f.e	o.m	o.w.d.f	o.d.o.f.o.f
Gorleston	o.f.f.r.m.m	o.m.m	o.m.f.f.c.m	c.o.m.o.m.
Valentia Obs.	c.i.r.c.p.c	c.p.c.r.r.	i.r.o.i.d.	p.r.
Roches Point	c.o.d.d.c	c.i.r.c	c.o.i.r.c	c.b.c.b
Pembroke	c.m.	o.m.e.p.	o.d.o.f.f	o.r.r.m.
Ross-on-Wye	o.m	o.m	o.m	o.m
Leafield	o.m	o.f	F.c.m	c.m
Cardington	f.f.e.m.o.m.x	o.m.f.e.	o.m.f.m.m.	o.m.
Winchester	f.f.x.m	o.m.m.e.m	o.m.i.d	c.d.o.d.m.
S. Farnborough	o.f.f	o.f.f	o.f.i.n.d.	o.m.i.d.o
London (Kew)	o.f	o.f	o.f.w.c.m.w	c.m.w.c.m
Croydon	o.f.c.m	o.f.f	o.f.f.m.c.m.	c.m.
Manston				
Shoeburyness	o.m.x	o.f.f	o.f.f	c.m.
Clacton-on-Sea	o.g.f.m	o.g.m	o.g.m.f.m	o.g.m.c
Felixstowe	o.m	o.m	o.m	c.m.
Scilly (St. Mary's)	c	c.i.d.	c.i.d.	c.i.r.p.
Falmouth	o.m.	o.m.	o.r.c	c.i.r.p.m.
Plymouth	o.m.m.	c.o.m.	o.m.	o.m.d.D
Portland Bill	f.i.d.c.m.	c.o.m	c.d.z.	d.o.i.r.z.
Calshot, S'hampton	o.m.m.	o.m.f.e.m	o.m.i.d.m.	c.d.d.i.d.r.
Dungeness	f	o.	&	d
Lympne	o.f.f.b.m.	b.b.c.m.	c.m.	c.m.r
Guernsey	o.z.b.c.z	b.c.z.o.z	o	o.d.o.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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

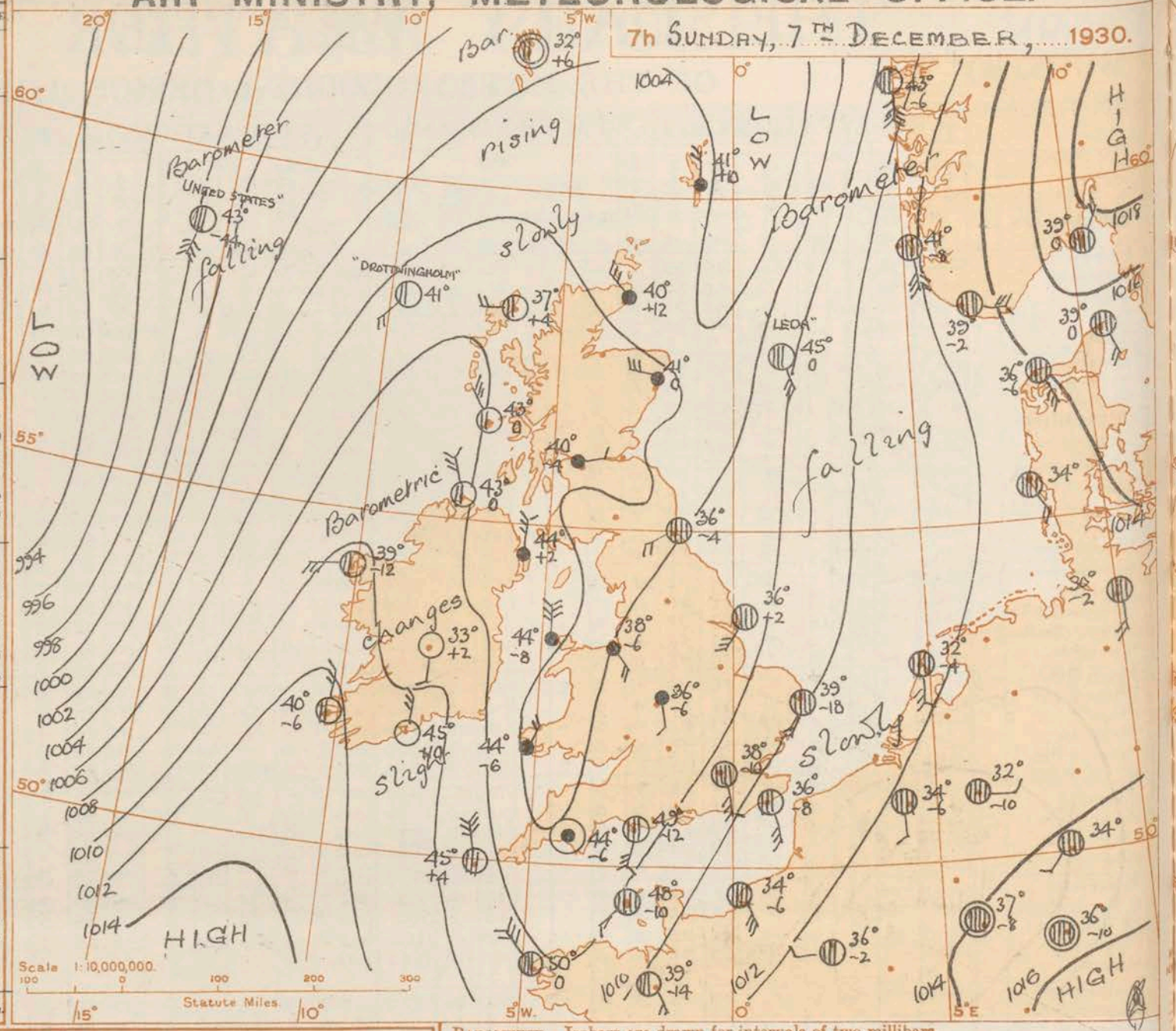
REPORTS from HEALTH RESORTS for 6th December 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 5th to 9h. 6th	TEMPERATURE. Max. 9h.—17h. 6th	RAINFALL. Night 17h. 5th to 9h. 6th	RAINFALL. Day. 9h.—17h. 6th	SUNSHINE Sunrise to Sunset 6th
Dunbar	cr.m.	om.	39	46	1	0.3	0.0
Berwick-on-T.	oc	cbc	35	44	-	-	0.3
Douglas	om.	om.	41	45	0.3	-	0.0
Llandudno	o	o	37	43	-	-	0.0
Colwyn Bay	o	o	38	42	-	-	0.0
Rhyl	om.	om.	36	42	-	-	0.0
Wallasey	feo	o	32	39	-	-	0.0
Southport ‖	fo	foc	31	38	-	-	0.0
Blackpool	ome	ome	31	39	-	-	0.0
Morecambe	fo	fofeo	30	39	Trace	Trace	0.0
Ilkley	feo	fe	28	39	-	-	0.0
Cleethorpes	ffofo	fom	31	37	-	-	0.0
Mablethorpe	ome	ome	31	33	-	-	0.0
Skegness	ofe	feom	29	32	0.2	Trace	0.0
Aberystwyth	czcz	czcz.	35	39	-	-	0.4
Bath	mo	mo	31	36	Trace	Trace	0.0
Cheltenham †	om.	om.	32	44	-	-	0.0
Leamington Spa	o	o	32	35	-	-	0.0
Lowestoft	fo	fo	27	32	-	-	0.0
Dovercourt	foc	ocf	29	31	-	-	0.0
Maldon	fo	of	28	32	-	-	0.0
Southend	off	offe	29	39	Trace	Trace	0.0
Ilfracombe	o	o	31	41	-	-	0.0
Bude	cm.	cm.	32	43	-	-	0.0
St. Ives	o	o	41	46	-	-	0.0
Penzance	of	of	43	46	-	-	0.0
Torquay	feof	ofomom	32	42	Trace	-	0.0
Jersey	cz	cz	36	40	-	-	0.0
Weymouth	fmm	m	32	38	-	-	0.0
Bournemouth	m	m	29	36	-	-	0.0
Ventnor	of	ouf	32	41	-	-	0.0
Southsea	oF	of	31	39	-	-	0.0
Bognor Regis	o	o	30	36	-	-	0.0
Littlehampton	c	c	30	34	0.2	-	0.0
Worthing	o	g	30	38	Trace	-	0.0
Brighton	cof	coc	31	38	-	-	0.0
Eastbourne †‖	fo	of	30	38	-	-	0.0
Hastings †	xfcm	cmcm	30	40	0.4	0.1	0.4
Folkestone	om	ocom.	31	41	Trace	-	0.2
Dover	fomc	mbefeo	29	40	Trace	-	0.7
Deal	ffc	ef	30	35	-	-	0.4
Tunbridge Wells	of	ofm	26	34	-	-	0.0
Ramsgate	of	of	30	37	Trace	Trace	0.0
Margate	cfm	cm	30	35	-	-	0.0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h SUNDAY, 7TH DECEMBER, 1930.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 7th Dec. 1930.
1. S.E. England 2. E. England... 3. E. Midlands	Wind south veering west or northwest, cloudy, some rain or drizzle, then fairer; temperature about normal, perhaps local ground frost at night.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Moderate northerly winds, falling light temporarily then backing to southwest or south and freshening, fair to dull probably some rain or drizzle tomorrow; temperature about normal.
9. N. Midlands 10. N.E. England 11. S.E. Scotland	Light variable winds becoming northerly temporarily; cloudy, some rain or drizzle then fairer, temperature about normal, perhaps local ground frost at night.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland.	Moderate to strong southwest winds, veering tomorrow; cloudy, some rain or showers, temperature about normal.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	As 9 - 11.
17. N.W. Ireland 18. N.E. Ireland 19 S.E. Ireland 20. S.W. Ireland	Light or moderate variable winds becoming southwest or south, moderate to fresh; mainly cloudy, some rain or showers, temperature about normal.

GENERAL INFERENCE.

An elongated low pressure trough over Great Britain is moving east and is being followed by a feeble wedge of high pressure. A new secondary disturbance is indicated some 400 miles westward of Ireland, and will probably move northeast. Some rain or drizzle will occur in eastern districts and a temporary improvement in the West will soon deteriorate again.

FURTHER OUTLOOK.

None issued.

Forecasts issued at 1130 G.M.T.

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

H.M. Stationery Office Press Kingsway W.C.2. Fr. 2497/2165. Pa. 26. D.8028. Gp. 308. 313/0. 12/30.

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

Morning of
SUNDAY,
7th December,
1930.

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 the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 7th December 1930.

No. 25217

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

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)
Lerwick	54	1004·3	-6	S	3	r₀	47	95	7	6	–	–	10	10	1500
Stornoway	34	1005·1	+10	W	2	c	38	95	7	6	2	–	4-6	10	4000
Wick	81	1004·6	-6	SSW	4	c/r	45	95	8	6	2	–	4-6	10	1500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51	1008·1	+8	N	4	id₀	43	85	7	6	1	–	2-3	10	1500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	1008·7	-8	W	1	c	42	95	6	5	8	–	4-6	9+	800
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	1008·0	-8	SW	2	o	42	95	6	5	–	–	10	10	1500
Blacksod Point	10	1011·4	+12	N	3	bc	42	65	6	2	–	–	4-6	4-6	2500
Aldergrove	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	173	•	•	•	•	r₀r₀	•	•	•	•	•	•	•	•	•
Holyhead	26	1008·0	-10	S	4	c/r	43	95	5	6	–	–	10	10	800
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	1009·7	-6	SW	2	d₀d₀	33	95	5	5	–	–	10	10	450
Birmingham	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1009·9	-10	S'W	3	df	33	95	3	5	–	–	10	10	800
Gorleston	14	1012·2	-8	–	0	c	32	95	3	5	–	–	9+	9+	2500
Valentia Obs.†	30	1012·5	+0	NNW	7	r	42	95	7	5	–	–	10	10	2500
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke	150	1006·8	-10	S	2	c/d	47	95	7	3	2	–	7-8	10	800
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew)	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1011·7	-10	S	3	c m₀	38	85	5	5	–	–	9+	9+	2500
Manston	186	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1008·3	-12	NW	4	ir₀	48	95	7	5	–	–	9	9	4000
Falmouth	200	1009·3	-8	SW	1	c	47	85	7	6	3	–	4-6	9	4000
Plymouth	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	1009·4	-8	N'W	3	d₀d₀	42	85	6	4	–	–	10	10	1500
Calshot, S'hampton	8	1010·7	-10	S'E	3	d₀d₀	43	85	6	5	2	–	9	10	800
Dungeness	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1012·2	-6	SSW	2	cm₀	38	95	5	5	–	–	9+	9+	800
Guernsey	173	1010·3	-20	SSE	2	o	45	95	5	5	–	–	10	10	1500

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1004·5	+10	N	2	r₀r₀	41	95	7	6	–	–	10	10	1500	1	•
1007·0	+4	W	2	bc	37	95	7	–	4	–	0	4-6	–	1	1
1005·6	+12	NW	3	r₀r₀	40	95	8	6	–	–	10	10	1500	1	3
1007·9	0	NW'N	3	bc	43	75	8	8	3	–	2-3	4-6	2500	0	2
1007·0	•	–	0	d	37	95	7	6	–	–	9+	9+	800	1	•
1006·4	0	WNW	3	rr	41	95	6	6	–	–	10	10	2500	1	1
1008·3	0	NNW	4	bc	43	65	8	2	–	–	4-6	4-6	2500	0	3
1006·9	-4	E	1	dr₀	40	95	6	6	–	–	10	10	1500	1	•
1006·4	-2	WSW	1	r₀r₀	41	95	7	6	–	–	10	10	800	1	0
1006·6	-2	–	0	d₀d₀	39	95	5	6	–	–	10	10	<150	1	•
1005·6	-4	SW'W	2	ir	37	95	4	6	–	–	10	10	450	1	•
1006·0	-4	WSW	2	o	36	95	6	5	–	–	10	10	800	0	1
1010·6	-12	W	3	bc	39	75	8	–	7	–	0	4-6	–	0	3
1008·1	0	NW	2	c	38	95	8	5	7	–	2-3	7-8	4000	1	•
1006·9	+2	N	4	ir	44	85	7	6	–	–	7-8	7-8	800	1	3
1009·3	+2	S	1	b	33	95	8	–	4	–	0	1	–	1	•
1006·3	-8	N'W	6	r₀r₀	44	95	6	6	–	–	10	10	1500	1	3
1006·2	-8	E	3	ir₀	36	95	5	6	–	–	10	10	1500	1	•
1007·7	-6	SE	2	ir₀	38	95	6	6	–	–	10	10	2500	0	•
1014·6	-6	S	1	f	33	95	3	5	–	–	10	10	<150	1	•
1007·6	-2	SW'S	3	f	36	95	3	5	–	–	10	10	<150	0	2
1007·9	-6	S	1	id₀	36	95	7	5	–	–	10	10	1500	1	•
1007·7	-10	SSE	2	f	35	(95)	2	5	–	–	10	10	<150	1	•
1009·7	-18	SSW	2	o	39	95	5	5	–	–	10	10	2500	0	1
1012·3	-6	N'W	3	bc	40	95	8	7	–	–	4-6	4-6	2500	1	–
1011·2	+10	N	3	b	45	95	8	–	–	–	0	0	–	1	2
1005·4	-6	NNE	2	rr	44	95	6	9	2	–	7-8	10	800	2	2
1007·7	-12	SE	1	m	39	85	4	5	–	–	10	10	1500	1	•
1007·8	-10	S'E	3	m	36	95	4	5	–	–	10	10	2500	1	•
1008·5	-4	SSW	2	o	38	95	6	5	–	–	10	10	1500	1	•
1008·3	-20	SE'S	3	d₀d₀	40	95	6	5	–	–	10	10	450	1	•
1008·7	-12	SSE	2	o	38	95	5	5	–	–	10	10	800	1	•
1009·0	-10	S'E	1	o	38	85	6	5	–	–	10	10	1500	1	•
1009·7	-10	S'E	4	z	38	85	6	5	–	–	10	10	4000	1	•
1010·0	-6	SSW	3	c	36	95	6	5	–	–	9+	9+	1500	1	•
1010·0	-6	WSW	3	c	41	85	6	5	–	–	7-8	7-8	800	0	1
1011·0	-10	SW	2	c	40	85	6	5	3	–	7-8	9	4000	1	1
1008·9	+4	NNW	6	c	45	85	8	8	–	–	9	9	4000	1	3
1007·9	+2	NW'W	5	ir₀	45	95	7	6	1	–	7-8	10	2500	1	2
1006·1	-6	–	0	d d	44	95	6	5	–	–	10	10	<150	2	0
1006·2	-12	SSW	4	c/r	49	95	6	4	–	–	10	10	1500	1	3
1008·3	-12	SE'E	4	o	44	85	6	5	–	–	10	10	1500	1	2
•	•	S	3	c	•	•	7	5	7	•	7-8	9+	1500	•	2
1010·4	-8	S'E	3	z	36	85	5	5	–	–	9+	9+	1500	1	2
1008·4	-10	SW	1	o	48	95	6	5	–	–	10	10	2500	1	2

PAST 24 HOURS.

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 6 h. Hrs. (36)
45	41	•	0·4	8	0·1
47	36	•	1	2	0·0
45	39	•	Tr.	2	•
46	40	35	5	12	0·0
38	37	•	–	1	0·9
45	41	37	0·6	1	0·8
47	41	•	1	6	0·0
45	40	39	1	5	0·0
46	41	36	0·3	0·3	0·0
44	37	32	0·2	0·2	0·0
40	36	36	1	1	0·0
45	35	34	–	–	•
48	38	•	15	1	•
46	37	36	0·1	4	0·0
46	41	•	1	5	•
46	33	26	0·2	5	0·0
45	42	41	–	8	0·0
37	34	34	–	Tr.	0·0
38	35	34	–	Tr.	0·0
39	32	31	–	–	0·0
38	30	•	Tr.	Tr.	0·0
36	31	31	–	Tr.	0·0
33	30	30	0·1	Tr.	0·0
34	27	26	–	–	0·0
50	3738	33	7	2	0·0
49	39	•	3	2	•
42	41	•	Tr.	11	0·0
36	34	33	–	–	0·0
31	31	31	0·1	–	0·0
31	31	31	Tr.	Tr.	0·0
36	35	35	0·1	1	0·0
34	34	34	Tr.	Tr.	0·0
35	35	36	–	–	0·0
35	35	36	–	–	0·0
37	29	26	0·1	–	0·9
43	40	39	–	0·1	2·0

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility 9h. To-day.
Kew	18	of	of	ofrcmw	35	35	36	–	–	0·0	•	•	5
Croydon	244	ofcm	off	offmcm₀	36	36	37	–	–	0·0	•	•	6
Greenwich (Royal Observatory)	149	off	of	ofd₀m₀c	39	2836	3033	–	Tr.	0·0	94	85	5
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0·0	•	•	•
Westminster (St. James' Park)	27	•	•	•	41	30	25			0·0			•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•	•	•	•	•
Camden Square	110	ofe	of	•	37	37	34	–	–	•	•	88	•
Kensington Palace	80	of	of	•	40	36	36	–	–	•	At 18h. 100	83	•
Hampstead Observatory	450	of	of	•	35	32	32	Tr.	Tr.	0·0	•	83	•

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

South Kensington.

Max.	Time.	Min.	Time.
2.0	18h 6m	<0.3	3-7h 7-8h

Kew Observatory.

Max.	Time.	Min.	Time.
0·4	20h 6h	<0·1	6h 7h

FOREIGN OBSERVATIONS.

18h. G.M.T. 6th December

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1015·5	WSW	1	o	39
Brussels	1020·8	–	0	cf	30
Berlin	1016·4	SE	2	f	36
Zürich	1019·1	S	1	z	37
Rome	1021·9	NE	1	b	37

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

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
1012·9	SW	1	z	37
1010·6	S	3	z	32
1015·0	SSE	1	m	34
1018·6	SW	2	o	41
1021·5	SSE	2	z	52

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
37	36	–	–
39	30	–	–
36	34	Tr.	0·2
36	34	1	–
52	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 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.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 8th December 1930.

No. 25218

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

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)
Lerwick	1005·8	-4	N	2	ir.	41	95	7	6	-	-	10	10	1500
Stornoway	1006·0	-14	WSW	1	bc	42	95	9	1	1	1	1	2·3	4000
Wick	1006·2	+4	WNW	2	c	39	85	8	8	7	-	7·8	9	2500
Tiree	1007·1	-8	-	0	bc	46	55	9	4	-	8	2·3	2·3	4000
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1006·0	-10	WNW	3	rr	39	95	6	6	-	-	10	10	2500
Malin Head	1007·7	-4	SW'S	3	bcjp	43	75	8	8	-	-	4·6	4·6	2500
Renfrew	1006·7	-4	W	1	z	40	95	5	5	-	-	10	10	800
Inchkeith (Edin.)	1005·9	-6	NE	3	rr	41	95	7	6	-	-	10	10	800
Leuchars	1006·1	-6	NW	1	r.r.	40	95	7	6	2	-	7·8	10	2500
Eskdalemuir	1005·7	-8	-	0	ir	38	95	5	5	-	-	10	10	220
Tynemouth	1005·0	-4	NE	1	f	38	95	3	6	-	-	10	10	800
Blacksod Point	1007·0	-18	SSE	4	bc	46	65	9	8	-	-	4·6	4·6	2500
Aldergrove	1008·0	-6	W	1	b	41	75	9	8	4	8	Tr	1	4000
Donaghadee	1006·8	-4	NW	4	bc	45	75	8	7	-	9	4·6	4·6	4000
Birr Castle	1010·3	-6	S	1	b	43	56	8	-	-	1	0	1	-
Holyhead	1006·3	-6	N'W	7	ir.	43	95	6	6	-	-	10	10	1500
Liverpool (Bidston)	1005·4	-4	E'S	2	rf	39	95	3	6	-	-	10	10	450
Chester (Sealand)	1006·7	-6	SE'S	1	r.r.	39	95	5	6	-	-	10	10	1500
Harrogate	1006·1	-6	S	1	f	36	95	3	5	-	-	10	10	<150
Spurn Head	1005·4	-4	SSW	3	f	39	95	3	-	-	-	10	10	<150
Birmingham	1006·3	-8	S	1	id.	40	95	4	6	2	-	7·8	10	1500
Cranwell	1006·3	-12	SSW	2	df	39	95	3	5	-	-	10	10	450
Gorleston	1008·4	-6	SW	2	c	39	95	6	4	-	-	10	10	2500
Valentia Obs.	1010·5	-22	SSE	2	bc	45	75	8	7	-	6	2·3	4·6	2500
Roches Point	1011·4	-10	NW	2	bc	45	85	8	5	-	-	2·3	2·3	2500
Pembroke	1007·4	+8	NW	4	q	44	95	7	3	7	-	4·6	9+	1500
Ross-on-Wye	1006·0	-10	N'W	1	z	42	95	5	5	-	-	10	10	800
Leafield	1005·9	-12	ESE	2	f	40	95	3	5	-	-	10	10	<150
Cardington	1006·1	-22	S	1	r.r.	40	95	6	5	-	-	10	10	1500
Winchester	1005·1	-28	SE	3	r.r.	45	95	6	6	-	-	10	10	450
S. Farnborough	1006·3	-4	SE	2	d.d.	42	85	4	6	-	-	10	10	1500
London (Kew)	1006·9	-20	SSE	3	id.	43	85	5	6	-	-	10	10	1500
Croydon	1007·9	-16	SSE	4	z	42	85	5	5	-	-	10	10	2500
Manston														
Shoeburyness	1008·4	-16	SW	4	RC	41	85	6	5	-	-	10	10	1500
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1009·6	-2	SSW	3	c	(41)	85	7	5	-	-	10	10	2500
Scilly (St. Mary's)	1011·7	+12	NW	6	bc	47	65	8	2	-	-	4·6	4·6	4000
Falmouth	1010·3	+4	NW'W	6	bc	45	85	8	2	3	-	2·3	4·6	4000
Plymouth	1007·6	+10	WNW	3	ir.	45	85	6	6	-	-	10	10	450
Portland Bill	1004·6	-10	W'S	4	c/r	48	95	7	4	8	-	7·8	9+	1500
Calshot, S'hampton	1005·0	-26	SW	3	c/d	48	95	6	5	2	-	7·8	9+	1500
Dungeness	*	*	S	3	c	*	*	7	5	7	*	4·6	9+	1500
Lympne	1008·7	-14	SSE	3	z	39	85	6	5	-	-	9+	9+	1500
Guernsey	1007·8	-2	WSW	3	bc	50	75	7	5	-	-	4·6	4·6	2500

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

Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	°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)
Lerwick	1004·9	-6	NE	2	ir.	42	95	7	6	-	-	10	10	1500	1	*
Stornoway	1003·6	-12	S	3	c	48	95	7	2	-	-	7·8	7·8	4000	1	1
Wick	1004·7	-8	WNW	2	c	39	95	8	8	7	8	4·6	7·8	2500	1	2
Tiree	1004·4	-14	S'E	3	c	32	85	9	4	5	7	1	7·8	5700	0	2
Nairn	1004·7	*	-	0	c	36	85	7	5	2	-	4·6	7·8	1500	1	*
Aberdeen	1004·2	-14	WNW	2	r.r.	39	95	6	6	-	-	10	10	2500	1	1
Malin Head	1004·9	-12	S	2	b	37	85	8	4	-	9	Tr	1	4000	0	2
Renfrew	1005·7	-8	NNW	1	d.d.	39	95	5	5	-	-	10	10	450	1	*
Inchkeith (Edin.)	1005·3	-2	NE	2	o	40	95	8	5	-	-	10	10	1500	0	1
Leuchars	1005·1	-6	WSW	1	c/r	39	95	6	6	2	-	4·6	10	1500	1	*
Eskdalemuir	1004·6	-6	ENE	1	o	37	95	5	5	-	-	10	10	450	1	*
Tynemouth	1004·3	-4	WNW	2	r.r.	39	95	6	6	-	-	10	10	1500	1	1
Blacksod Point	1001·6	-28	SSE	6	PR	45	85	7	9	-	-	9+	9+	220	1	5
Aldergrove	1006·7	-6	S'W	2	bc	35	85	8	-	2	8	0	2·3	-	1	*
Donaghadee	1006·1	-4	NW	2	bc	36	85	7	5	3	-	2·3	4·6	4000	0	1
Birr Castle	1007·2	-12	SE	2	c	35	95	8	-	4	9	0	7·8	-	1	*
Holyhead	1007·5	+8	NW'W	5	bc	44	75	8	7	-	-	2·3	2·3	4000	1	3
Liverpool (Bidston)	1005·9	+6	W	2	rf	39	95	3	5	-	-	10	10	450	1	*
Chester (Sealand)	1006·8	+8	WNW	2	f	40	95	3	5	-	-	10	10	1500	1	*
Harrogate	1005·5	0	-	0	r.r.	35	95	5	5	-	-	10	10	2500	1	*
Spurn Head	1004·9	0	SW	3	dd	39	95	5	5	-	-	10	10	450	1	1
Birmingham	1006·0	0	WNW	2	ir.	40	95	4	6	-	-	10	10	1500	1	*
Cranwell	1005·6	-2	S'E	1	d.d.	39	95	4	5	-	-	10	10	450	1	*
Gorleston	1007·7	-6	S	2	o	40	85	6	5	-	-	10	10	2500	0	2
Valentia Obs.	1005·6	-30	S	5	c/pc	45	85	8	5	-	-	9	9	1500	1	3
Roches Point	1008·9	-14	NW	3	c	43	85	8	3	-	-	7·8	7·8	1500	0	2
Pembroke	1008·6	+6	NW	4	b	44	85	8	4	7	-	1	2	4000	1	2
Ross-on-Wye	1006·5	+4	W	2	o	40	95	6	5	-	-	10	10	2500	1	*
Leafield	1005·7	0	NW	2	fo/r	40	95	5	5	-	-	10	10	<150	1	*
Cardington	1006·2	-2	ENE	1	rr	39	95	5	6	-	-	10	10	800	1	*
Winchester	1005·3	+14	W	3	c/r	43	95	7	5	-	-	7·8	7·8	1500	1	*
S. Farnborough	1004·3	-10	W'N	2	c	43	95	7	8	-	-	7·8	7·8	2500	1	*
London (Kew)	1004·6	-16	E'S	1	f	42	95	3	5	-	-	10	10	800	1	*
Croydon	1005·6	-10	S	3	bc/r	41	95	5	4	-	-	4·6	4·6	1500	1	*
Manston																*
Shoeburyness	1006·4	-6	S'E	3	rr	39	95	6	6	-	-	10	10	800	1	*
Clacton-on-Sea	1006·9	-10	S	4	r.r.	42	85	6	5	-	-	10	10	800	0	2
Felixstowe	1007·1	-10	SSE	4	ir.	41	85	7	6	-	-	10	10	1500	1	2
Scilly (St. Mary's)	1011·9	+4	WNW	4	c	44	75	8	2	-	8	4·6	7·8	4000	0	3
Falmouth	1011·8	+4	WNW	3	bc	42	75	8	3	-	1	4·6	4·6	4000	0	1
Plymouth	1010·3	+20	NW	4	b	43	65	8	3	-	-	Tr	Tr	2500	1	0
Portland Bill	1006·2	+16	NW	5	c	46	85	7	4	8	-	4·6	7·8	1500	1	3
Calshot, S'hampton	1005·2	+6	WSW	3	ir.	46	95	6	5	2	-	9	10	2500	1	1
Dungeness	*	*	SSW	4	RR	*	*	5	8	-	*	10	10	1500	*	2
Lympne	1005·8	-16	S	4	rf	41	95	3	6	-	-	10	10	450	1	*
Guernsey	1009·3	+16	NW	4	c	47	65	9	5	-	-	7·8	7·8	2500	1	3

PAST 24 HOURS.

Stations. (For heights see p. 4.)	Weather. 7h.—13h. 7th (37)	Weather. 13h.—18h. 7th (38)	Weather. 18h. 7th to 1h. 8th (39)	Weather. 1h.—7h. 8th (40)
Lerwick	ocsir	oir	oir.	oirr.r.
Stornoway	bcx	bc	bc	cb
Wick	or.re	c	c	cbc
Tiree	bcby	bbc x.	bcx	oRR
Nairn	d.cxbc	c	cbc	b
Aberdeen	orr	ocr.	or.r.	ob
Malin Head	bcjp	bcb	bcc	cirm.
Renfrew	r.d.om.	d.d.m	oddcbc	bccx
Inchkeith (Edin.)	or.r.mr.r	ir.o	oc	cbcw
Leuchars	o.r.m.r.r.	c.r.r.m.	cm.	cm.bcx
Eskdalemuir	cmrofcir	cir.o	oc	ccs.
Tynemouth	OFF	offoir	oiro	obc
Blacksod Point	bc	prqc	ir	pshq
Aldergrove	cbcxb	bbx	bx	bxbcxcrr.
Donaghadee	pr.bc	bc	bcco	oir.o
Birr Castle	b	bbcc	cbcxc	corrc
Holyhead	r.r.r.c	r.r.bcb	bbc	ir.
Liverpool (Bidston)	irfrr	ofrc	ir.cb	bbc
Chester (Sealand)	or.r.m.	or.r.m.rf	cmprbcb	bx
Harrogate	off	of or.r.	or.d.o	bx
Spurn Head	ofd	ofmdz	odmor.c	bc
Birmingham	ocid.m	old.m	oddc	cbx
Cranwell	ofd.	od.d.rfd.m	oiamcf	cfb mx
Gorleston	om.c	com.m.	omrrc	cbm.m.
Valentia Obs.	bc	bcc.c	pr.R	pr
Roches Point	bbc	bcc	cpbc	bcpbc
Pembroke	orrcq	cbcb	bbcc	ps.dcr
Ross-on-Wye	d.r.omo	omrmoc	cbcb	bbc
Leafield	oef	orr	fbcc	bcx
Cardington	cm.r.rm	corrm.	orrcb	bx
Winchester	od.d.r.r.m.	oir.m.	crc	bcbx
S. Farnborough	od.d.m	od.d.r.m.m	bcopc	c.bx
London (Kew)	em.om.d.	orrfof	ofc.d.mby	b m x
Croydon	cm.	com.d.bcm.	bcomor.	od.cmbcm
Manston				
Shoeburyness	cm.	om.orrm.	or.m.mc	bcb
Clacton-on-Sea	coq	ogr.	ogrc	cbc
Felixstowe	c	cr.	ororr	bm.
Scilly (St. Mary's)	cpbc	bcc	cb.	cprrc
Falmouth	eirbcq	bcq	bc	bcc.q
Plymouth	od.r.m.c	om.r.b	bc	cqprqc
Portland Bill	cir	eir.c	bbc	bc
Calshot, S'hampton	cid.d.m.	cm.ir.	crm.bcw	bcwmpr
Dungeness	c	r	r	bc
Lympne	cm.	cod.r.r.f	or.r.fom.	ocm.bx
Guernsey	orcbc	cproc	cbcbc	bcbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,
R, heavy rain. r., slight rain.
rr, continuous rain.
<, less than (for cloud height).
⊕, solar halo. ☾, lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

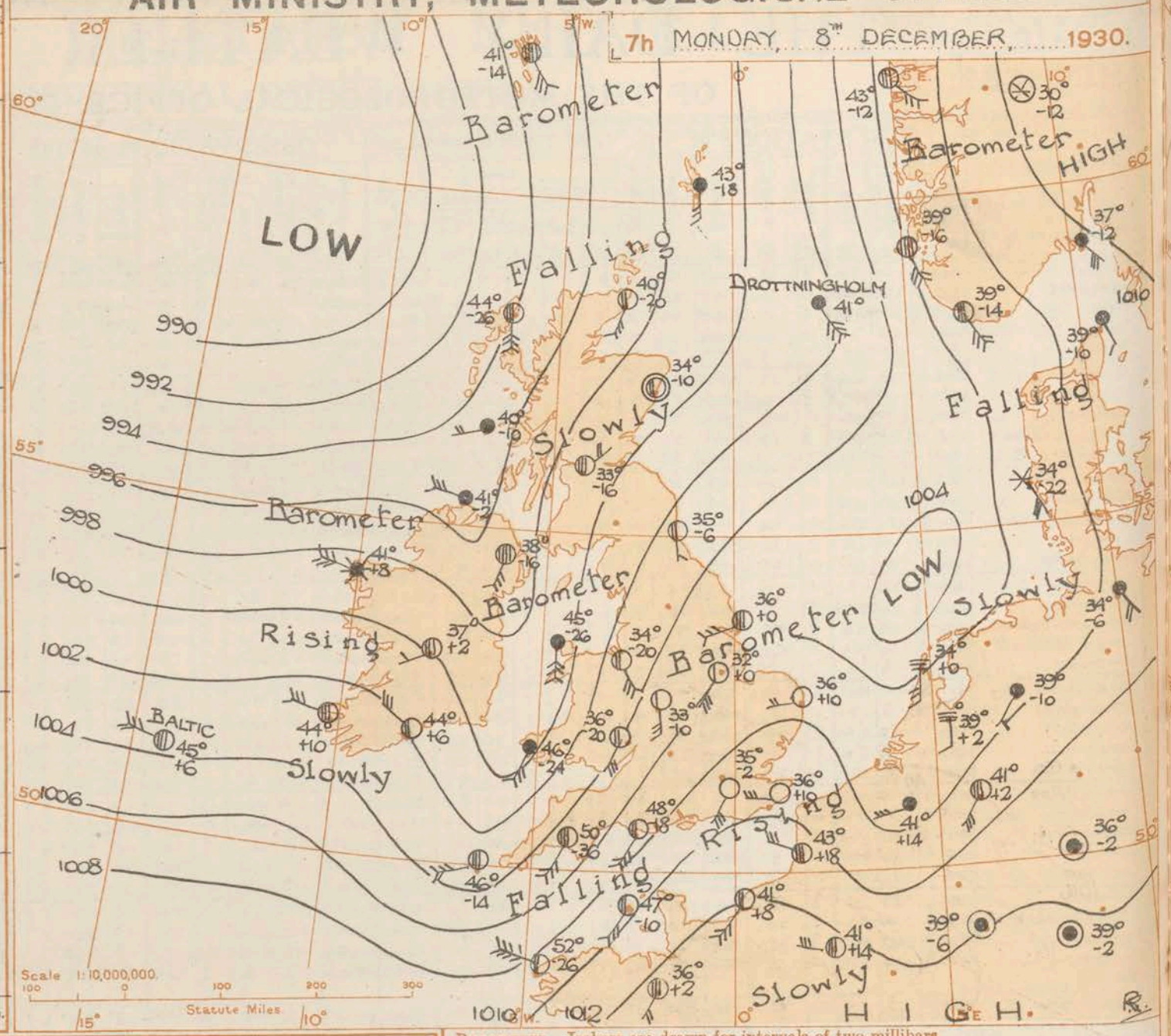
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 7th December 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 6th to 9h. 7th	TEMPERATURE. Max. 9h.—17h. 7th	RAINFALL. Night 17h. 6th to 9h. 7th	RAINFALL. Day. 9h.—17h. 7th	SUNSHINE. Sunrise to Sunset 7th
Dunbar	odrm.	odr	39	43	1	3	0.0
Berwick-on-T.	or	or	39	41	5	3	0.0
Douglas	oRRm.	mcbbc	40	43	6	1	0.4
Llandudno	r.r	r.ro	39	45	4	4	0.0
Colwyn Bay	rrorr	rr	38	44	3	6	0.0
Rhyl	orrm.	orrm.	38	43	2	8	0.0
Wallasey	fr	fr	35	40	1	6	0.0
Southport ‖	oerm	oerm	34	38	1	7	0.0
Blackpool	orm	od	34	38	1	4	0.0
Morecambe	frdo	dro	33	38	2	4	0.0
Ilkley	om	orm	33	36	-	2	0.0
Cleethorpes	ffeo	ffod.f	31	38	Trace	1	0.0
Mablethorpe							
Skegness	m.o	om.	31	40	-	-	0.0
Aberystwyth	cz.er	erepr	36	44	3	5	0.0
Bath	crrm	mrr	32	44	Trace	5	0.0
Cheltenham †	om.	om.or	34	43	-	1	0.0
Leamington Spa	o	o	32	43	-	-	0.0
Lowestoft	c	c	27	40	-	-	0.0
Dovercourt	xoc	oc	29	41	-	-	0.0
Maldon	o	or	32	41	-	0.3	0.0
Southend	om	omor	30	42	Trace	4	0.0
Ilfracombe	o	or	34	47	3	3	0.0
Bude	roz	bc	39	46	1	5	0.4
St. Ives	c	c	42	46	3	-	2.4
Penzance	cb	b	44	48	4	-	3.8
Torquay	odrpc	mrcbcb	35	47	1	Trace	1.8
Jersey	cr	cq	37	52	Trace	3	2.2
Weymouth	pepoc	pcbc	35	51	0.6	3	0.6
Bournemouth	ro	ocor	35	50	3	0.3	0.2
Ventnor	ouor	octlc	34	49	-	2	0.5
Southsea	or.o	ocbc	35	49	0.2	1	0.6
Bognor Regis	or.	ro	34	49	Trace	3	0.0
Littlehampton	rd.	orcbc	33	49	-	4	0.0
Worthing	ocod.	or.c	32	50	-	2	0.0
Brighton	oco	rc	32	49	-	-	0.0
Eastbourne †	or.rr	ocbc	38	49	-	2	0.0
Hastings †	omo	od.oro	38	46	-	2	0.0
Folkestone	o	od	35	42	-	Trace	0.0
Dover	co	od.	33	41	-	Trace	0.0
Deal	oco	od.	30	41	-	Trace	0.0
Tunbridge Wells	omo	or	28	42	Trace	1	0.0
Ramsgate	em	cmd	31	41	-	0.2	0.5
Margate	bcc	cd	30	41	-	Trace	1.2

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



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 8th Dec., 1930.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Wind south, veering west, moderate or fresh, falling light; a short period of rain at first, then mainly fine; normal day temperature, frost at night.
5. S.W. England 6. South Wales 7. North Wales	Moderate westerly wind, fresh locally at first showers and bright intervals; normal temperature; frost locally at night.
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind southerly to variable, finally west or southwest mainly light or moderate: some sleet, snow, or rain, then improving with bright periods; cold, frost at night; local fog night and morning.
13. A. W. Scotld. B. N.W. Scotland.	Moderate or fresh westerly wind; showers of rain, hail or sleet; bright intervals; rather cold.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	As 8 - 12.
17. N.W. Ireland 18. N.E. Ireland 19 S.E. Ireland 20. S.W. Ireland	As 13.

GENERAL INFERENCE.

A deep depression centred off western Iceland is beginning to fill up and a trough of low pressure is moving eastward over Great Britain. Its passage will be accompanied by rain in most districts and snow locally in the north. In its rear a temporary improvement is indicated, though showers will occur in the west.

FURTHER OUTLOOK.

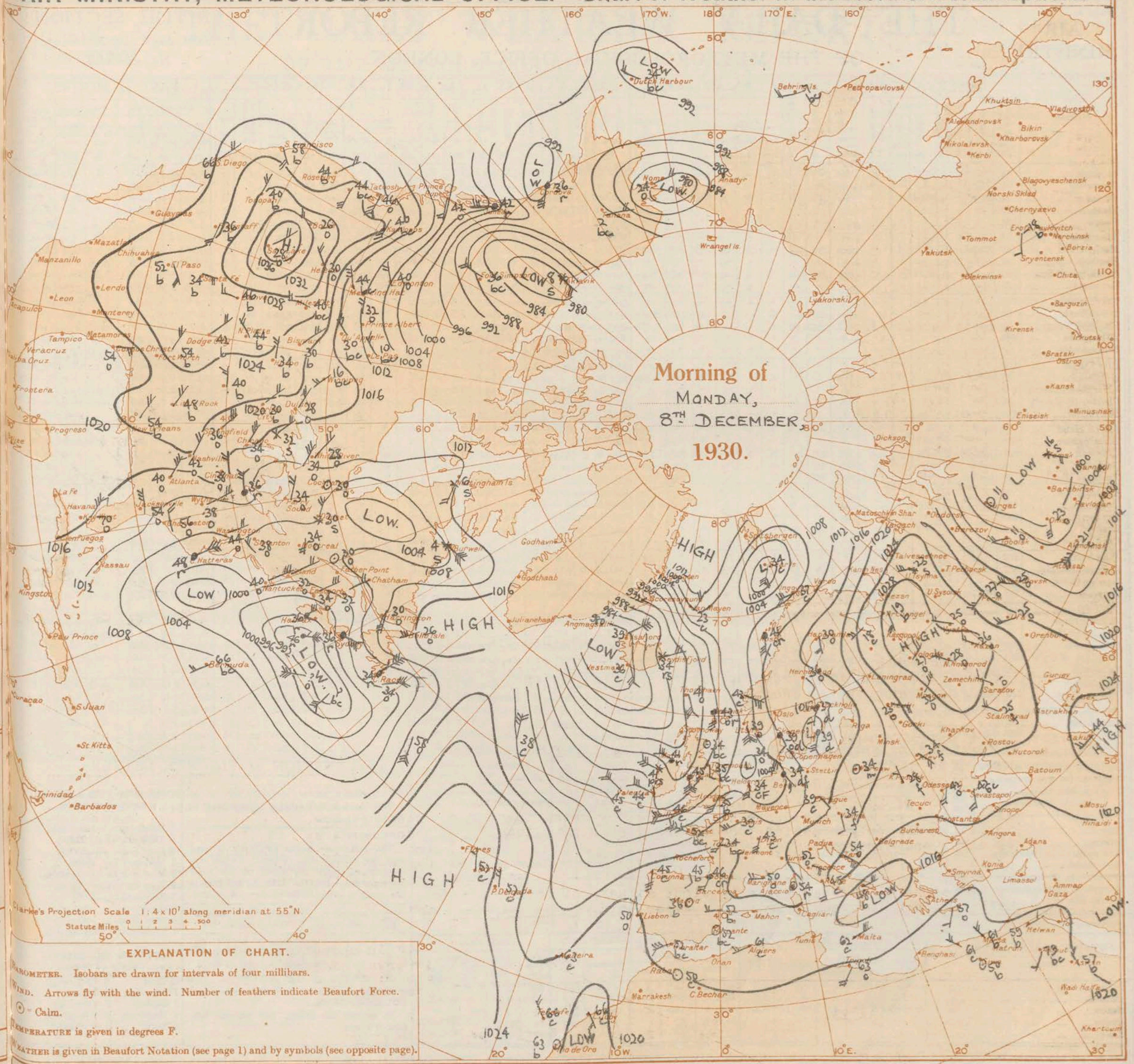
Rain spreading eastward after a short interval of fairer weather with night frost a good chance of a fine day in the east tomorrow.

Forecasts issued at 1000 G.M.T.

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

H.M. Stationery Office Press Kingsway W.C.2. F.— 2497/2155. M. 26. D.5026. Gp. 908. 3/3/30. 12/30.

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 8th December 1930.

No. 25218

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

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)
Lerwick	54	1001.4	-12	SSE	2	ir₀	42	95	7	6	2	-	4-6	10	1500
Stornoway ...	34	998.3	-18	S	5	bc	42	95	8	2	-	-	2-3	2-3	4000
Wick	81	1000.7	-22	WNW	1	c	36	95	8	3	3	-	4-6	9+	2500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head ...	51	997.8	-26	S'E	S	c	39	85	8	4	9	9	2-3	7-8	4000
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	1002.8	-8	WSW	3	c	40	95	6	5	-	-	9+	9+	800
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir ...	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth ...	67	1002.9	-2	W	2	0	40	95	6	6	-	-	10	10	1500
Blacksod Point ...	10	997.8	-4	-	0	ir	42	95	7	6	-	-	10	10	4150
Aldergrove ...	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee ...	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle ...	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	1005.6	-20	SW'S	4	c	44	75	8	5	-	8	7-8	7-8	2500
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head ...	29	1004.7	0	W'S	2	c	39	95	5	5	3	-	4-6	10	1500
Birmingham ...	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1006.2	+2	W'S	3	c	37	95	3	5	3	-	7-8	9+	1500
Gorleston	14	1006.1	-4	NW'N	1	c	39	95	7	4	-	-	10	10	2500
Valentia Obs.† ...	30	1001.9	0	SW	6	PR	44	95	8	3	-	-	10	10	4000
Roches Point ...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke	150	1006.2	-18	SW	4	c	48	85	8	7	-	1	7-8	7-8	2500
Ross-on-Wye ...	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington ...	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester ...	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew) ...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1008.1	+14	W	3	id₀	41	95	6	5	-	-	10	10	800
Manston	186	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness ...	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1008.4	-24	SW	5	c	47	85	8	8	-	-	7-8	7-8	4000
Falmouth	200	1010.5	-6	SW'S	3	bc	43	85	8	3	6	-	2-3	4-6	4000
Plymouth	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill ...	32	1009.8	+4	W	5	bc	45	65	8	4	8	-	4-6	4-6	2500
Calshot, S'hampton	8	1009.3	+14	W'S	4	c	38	85	7	5	8	6	1	7-8	2500
Dungeness ...	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1007.5	+12	W'N	4	om₀	40	95	5	5	-	-	10	10	450
Guernsey	173	1011.3	+2	W	1	bc	44	75	9	5	-	-	4-6	4-6	2500

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

STATIONS.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
Lerwick	998.2	+8	S	3	rr₀	43	85	7	6	-	-	10	10	1500	1	*
Stornoway ...	993.4	-26	S	6	c	44	95	7	3	-	-	9+	9+	4000	0	4
Wick	997.0	-20	SSW	4	bc	40	95	8	1	4	1	2-3	4-6	4000	1	2
Tiree	994.9	-10	W'S	2	RR	40	95	6	6	-	-	10	10	1500	1	2
Nairn	997.1	•	-	0	bc	28	85	7	5	-	-	2-3	2-3	4000	4H	*
Aberdeen	998.6	-10	-	0	bc	34	95	6	-	-	9	0	2-3	-	1	1
Malin Head ...	995.1	-2	WNW	4	ir	41	95	6	6	1	-	4-6	10	1500	1	2
Renfrew	999.1	-16	NE	2	c	33	85	6	5	2	-	7-8	9+	4000	1	*
Inchkeith (Edin.)	1000.1	-18	SE	2	bc	37	85	8	5	4	-	2-3	2-3	800	0	0
Leuchars	1000.8	-10	SW	2	bc	30	95	7	-	3	1	0	2-3	-	4	*
Eskdalemuir ...	1001.0	-20	S'W	1	is₀	28	95	8	5	4	-	7-8	9	1500	4H	*
Tynemouth ...	1002.2	-6	S	1	bc	35	85	7	1	-	-	2-3	2-3	2500	4	1
Blacksod Point ...	999.1	+8	WNW	6	prs	41	75	8	3	-	-	4-6	4-6	2500	1	4
Aldergrove ...	996.9	-16	SSW	4	o/r	38	95	7	6	-	-	10	10	800	1	*
Donaghadee ...	995.9	-30	WSW	2	o	44	95	6	6	-	-	10	10	800	1	1
Birr Castle ...	999.9	+2	WSW	1	c	37	95	7	5	-	-	7-8	7-8	4000	1	*
Holyhead	999.8	-26	S	6	ir₀	45	95	8	6	-	-	10	10	800	1	3
Liverpool (Bidston)	1001.6	-24	SE'E	5	c	35	85	8	5	-	-	7-8	7-8	2500	0	*
Chester (Sealand)	1003.5	-20	SSE	4	bc	34	85	7	5	-	4	2-3	4-6	4000	5	*
Harrogate	1003.7	-6	S	1	bc	32	85	5	5	-	1	1	2-3	4000	4	*
Spurn Head ...	1004.9	0	WSW	4	c	36	95	6	5	3	-	4-6	7-8	1500	1	2
Birmingham ...	1005.9	-10	S	3	b	33	85	8	-	-	1	0	1	-	1	*
Cranwell	1006.0	0	SSW	3	b	32	95	6	-	8	-	0	Tr.	-	1	*
Gorleston	1006.9	+10	W'S	2	b	36	95	6	-	-	-	0	0	-	0	1
Valentia Obs.† ...	1002.2	+10	W'N	4	c	44	75	8	3	-	-	7-8	7-8	2500	1	*
Roches Point ...	1001.5	+6	NW	3	bc	44	95	8	3	-	-	2-3	2-3	1500	1	3
Pembroke	999.5	-24	SSE	4	rr	46	95	7	9	-	-	10	10	1500	1	3
Ross-on-Wye ...	1005.4	-20	SSW	3	bc	36	85	6	5	-	6	Tr.	4-6	4000	1	*
Leafield	1006.6	-14	SE'E	3	b	30	95	8	5	-	8	Tr.	1	4000	4	*
Cardington ...	1007.7	-4	SW's	3	b	32	95	7	-	3	1	0	1	-	5	*
Winchester ...	1008.2	-8	SE	2	bc	29	95	7	5	-	-	2-3	2-3	4000	4	*
S. Farnborough ...	1008.5	-4	SSE	2	b	33	95	7	5	-	-	Tr.	Tr.	4000	1	*
London (Kew) ...	1008.5	0	SSW	1	b	33	95	6	-	4	1	0	Tr.	-	1	*
Croydon	1009.0	-2	SSW	3	z	35	85	6	-	-	-	0	0	-	1	*
Manston																*
Shoeburyness ...	1008.8	+4	WSW	3	b	36	95	6	-	-	-	0	0	-	0	*
Clacton-on-Sea ...	1008.3	+10	W	3	bc	39	95	6	5	6	-	2-3	4-6	1500	0	1
Felixstowe ...	1008.4	+10	W'S	2	z	39	95	6	-	3	-	0	2-3	-	1	1
Scilly (St. Mary's)	1003.5	-14	W'S	5	c	46	95	7	8	-	-	7-8	7-8	4000	1	4
Falmouth	1004.1	-40	SW's	7	ir	49	95	7	6	2	-	7-8	10	2500	1	3
Plymouth	1004.9	-36	SW	5	c	50	75	8	5	-	-	9+	9+	1500	2	3
Portland Bill ...	1007.1	-18	SW's	5	bc	48	75	58	8	-	-	4-6	4-6	2500	1	3
Calshot, S'hampton	1008.6	-6	E	3	c	40	95	7	5	9	-	4-6	7-8	2500	1	1
Dungeness ...	•	•	WNW	2	bc	•	•	7	4	-	•	2-3	2-3	2500	•	1
Lympne	1009.6	+10	W	3	b	36	95	7	-	-	-	0	0	-	1	*
Guernsey	1010.1	-10	SSW	4	bc	47	75	8	5	-	-	2-3	2-3	2500	0	3

PAST 24 HOURS.

STATIONS.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 7h. Hrs. (36)
Lerwick	42	41	*	4	4	0.0
Stornoway ...	44	41	*	-	-	5.3
Wick	40	34	*	1	0.3	*
Tiree	47	31	21	-	5	5.7
Nairn	38	28	*	0.6	-	0.0
Aberdeen	41	33	25	4	1	0.0
Malin Head ...	45	34	*	-	2	3.7
Renfrew	40	28	23	0.6	0.2	0.0
Inchkeith (Edin.)	42	35	35	3	Tr.	0.0
Leuchars	40	29	21	2	-	0.0
Eskdalemuir ...	38	26	19	2	0.1	0.0
Tynemouth ...	40	34	26	3	4	*
Blacksod Point ...	47	39	*	0.5	10	*
Aldergrove ...	43	31	26	Tr.	1	6.1
Donaghadee ...	45	32	*	0.5	2	*
Birr Castle ...	43	35	27	-	3	4.8
Holyhead	45	40	33	1	1	0.2
Liverpool (Bidston)	39	33	31	7	0.2	0.0
Chester (Sealand)	40	30	25	7	0.4	0.0
Harrogate	36	31	24	1	0.4	0.0
Spurn Head ...	39	35	*	1	0.5	0.0
Birmingham ...	41	32	28	0.6	0.4	0.0
Cranwell	40	31	28	1	0.6	0.0
Gorleston	40	36	33	-	6	0.0
Valentia Obs.† ...	46	41	39	0.2	7	3.3
Roches Point ...	46	40	*	-	2	*
Pembroke	45	42	*	7	2	1.4
Ross-on-Wye ...	42	32	21	1	-	0.0
Leafield	40	30	26	5	0.1	0.0
Cardington ...	40	31	27	1	6	0.0
Winchester ...	47	28	21	1	0.5	0.0
S. Farnborough ...	43	30	19	1	0.3	0.0
London (Kew) ...	43	33	22	3	Tr.	0.0
Croydon	42	35	29	0.4	Tr.	0.0
Manston						
Shoeburyness ...	41	35	31	4	0.1	0.0
Clacton-on-Sea ...	42	38	36	0.1	4	0.0
Felixstowe ...	41	38	35	Tr.	2	0.0
Scilly (St. Mary's)	47	43	*	1	2	5.2
Falmouth	49	41	*	1	0.4	2.8
Plymouth	47	34	32	0.3	0.2	1.1
Portland Bill ...	50	44	*	1	-	*
Calshot, S'hampton	49	33	25	2	1	0.1
Dungeness ...	47	37	*	Tr.	4	*
Lympne	42	36	26	0.5	2	0.0
Guernsey	50	43	32	2	-	1.5

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility 9h. To-day.
KEW	18	cm₀ om₀ d₀	or r f o f	of d₀ m b₀ x	43	33	22	3	Tr.	0.0	•	•	6
CROYDON	244	cm₀	com r d b₀ x	bc c m d s m	42	35	29	0.4	Tr.	0.0	•	•	6
GREENWICH (Royal Observatory) ...	149	om₀	or d m₀	c f d₀ b x	43	31	22	2	0.3	0.0	95	67	5
CITY (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.0	•	•	•
WESTMINSTER (St. James' Park) ...	27	•	•	•	44	33	30	3	•	0.0	83	73	•
REGENTS PK. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	0.0	•	•	•
CAMDEN SQUARE	110	o	q r o	•	42	34	•	4	-	•	•	91	•
KENSINGTON PALACE	80	or	or o	•	43	33	23	3	0.2	•	55 at 18h.	85	•
HAMPSTEAD OBSERVATORY	450	om r f	o f	•	40	31	23	3	Tr.	0.0	•	81	•

FOREIGN OBSERVATIONS.

STATIONS.	18h. G.M.T. 7th. December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 8th. December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS	1011.0	SSW	1	rr	45	1013.8	W	3	c	41
BRUSSELS	1009.5	S	2	z	36	1007.1	WSW	3	id₀	41
BERLIN	1013.9	SE	1	o	36	1011.0	SSW	2	m	37
ZÜRICH						1015.4	E	1	z	37
ROME						1020.2	S	2	c	45

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
45	41	1	1
36	36	-	0.5
36	36	-	-
	36		-
	41		-

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 8th.

SOUTH KENSINGTON. Max.	Time.	Min.	Time.
1.2	19h 7th	<0.3	1-6h 8th

KEW OBSERVATORY. Max.	Time.	Min.	Time.
0.2	18h 7th	<0.1	0-6h 8th

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 3, 22.—Code for surface visibility.

0 Dense fog	Objects not visible at 55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2⅛ ,,
6 Moderate ,,	6¼ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tues. day 9th December 1930.

No. 25,219.

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

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)
Lerwick	995.9	-10	S'E	3	ir.	44	85	7	6	2	-	4-6	10	1500
Stornoway ...	993.2	-2	NW	1	c	39	95	8	6	2	-	7-8	9+	4000
Wick	994.4	-12	S	4	c	42	75	8	8	2	8	4-6	7-8	2500
Tiree	995.0	+2	NW	2	c	42	75	8	8	7	8	4-6	9+	1500
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	996.1	-18	SSE	2	rn	38	85	4	2	7	3	4-6	9	2500
Malin Head ...	996.4	+4	SW	3	c|p	42	85	7	9	8	9	7-8	9	1500
Renfrew	995.2	-18	S	2	c	43 95	85	6	5	9	-	9	9+	1500
Inchkeith (Edin.)	996.1	-14	S	3	c	40	85	8	5	2	-	4-6	10	800
Leuchars	996.5	-26	ESE	3	ir	38	85	6	6	2	-	2-3	10	1500
Eskdalemuir ...	996.5	-24	S'E	3	o|s	34	95	6	5	-	-	10	10	220
Tynemouth ...	999.0	-18	S	2	m	38	85	4	6	-	-	10	10	1500
Blacksod Point ...	1000.1	0	WSW	3	PH(R)	40	85	9	3	-	-	9+	9+	<150
Aldergrove ...	998.2	+8	SW'W	3	ir.	38	95	6	6	2	-	4-6	9+	800
Donaghadee ...	997.4	+6	SW	2	id.	40	85	7	6	-	-	9	9	800
Birr Castle ...	1001.4	+8	WNW	1	c|pr	40	85	8	8	3	-	4-6	7-8	2500
Holyhead	1000.2	+4	W'N	5	c	44	85	8	5	-	9	9	9	1500
Liverpool (Bidston)	999.0	-8	SW	3	rr	40	85	6	6	-	-	10	10	2500
Chester (Sealand)	1000.0	-10	WSW	1	ir.	43	85	6	5	1	-	9	9+	1500
Harrogate... ...	1000.2	-34	S'E	2	rrf	35	95	3	5	-	-	10	10	<150
Spurn Head ...	1001.1	-10	S'W	5	c	42	85	6	6	3	9	4-6	9+	4000
Birmingham ...	1001.1	-26	SSW	4	c|p	42	95	6	6	2	-	9	10	1500
Cranwell	1001.4	-32	S'E	4	rr	40	85	6	5	2	-	4-6	10	2500
Gorleston	1006.2	-8	SSW	4	bc	41	85	6	-	3	-	0	2-3	-
Valentia Obs. ...	1003.3	0	S	3	bc|ph(r)	41	86	9	3	-	3	1	4-6	1500
Roches Point ...	1004.7	+10	NW	2	bc	43	85	8	5	-	-	2-3	2-3	1500
Pembroke... ...	1002.0	0	WSW	4	bc	45	85	8	8	-	-	4-6	4-6	2500
Ross-on-Wye ...	1001.8	-10	WSW	2	bc	46	86	8	8	-	-	2-3	2-3	4000
Leafield	1001.9	-20	S'W	4-6	c	43	95	8	5	-	-	10	10	2500
Cardington ...	1003.0	-30	S'W	5	ir	44	85	6	6	2	-	4-6	10	2500
Winchester ...	1004.3	-22	SW'S	4	iR	43	96	6	6	-	-	10	10	450
S. Farnborough ...	1004.0	-34	S	4	rr	46	85	6	6	-	-	10	10	800
London (Kew) ...	1004.5	-30	S'W	4	c	47	86	6	5	-	-	10	10	5700
Croydon	1006.0	-22	S'W	4	c|pr	47	75	6	6	-	2	9	9+	800
Manston														
Shoeburyness ...	1006.3	-24	S	3	bc	47	85	8	5	7	4	4-6	4-6	2500
Clacton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe ...	1006.7	-22	WSW	4	bc	46	75	8	5	3	1	2-3	4-6	4000
Scilly (St. Mary's)	1005.1	+4	W'N	5	bc	49	75	8	2	-	-	4-6	4-6	4000
Falmouth... ...	1006.1	+4	W'S	4	bc	48	75	8	2	3	-	4-6	4-6	4000
Plymouth	1004.2	0	WNW	4	bc|pr	48	75	8	9	-	3	4-6	4-6	2500
Portland Bill ...	1003.1	-14	SW'W	5	c|r	48	85	8	6	7	-	7-8	9	1500
Calshot, S'hampton	1004.1	-30	S'W	6	RR	48	85	6	6	-	-	10	10	800
Dungeness ...	*	*	SW	5	c	*	*	7	8	7	*	4-6	7-8	2500
Lympne	1007.3	-22	SSW	6	c	46	85	8	8	-	-	9	9	1600
Guernsey	1006.4	-14	SW	4	rr	48	85	6	6	-	-	10	10	1600

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

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)
Lerwick	994.9	-6	S'E	3	c|r	44	85	7	8	8	-	4-6	7-8	1500	1	*
Stornoway ...	994.1	+2	W	1	bc	35	95	7	5	-	-	4-6	4-6	4000	1	1
Wick	993.4	-4	S	4	rr	41	95	8	6	2	-	7-8	10	1500	1	4
Tiree	995.8	+6	NW'W	1	bc|pr	40	75	8	8	7	8	2-3	4-6	1500	1	2
Nairn	993.7	*	-	0	c	34	95	7	3	-	-	7-8	7-8	2500	5	*
Aberdeen	994.2	-8	SW	2	r.	38	95	7	6	-	-	10	10	1500	1	1
Malin Head ...	997.4	+12	S	2	bc|p	35	95	7	3	-	-	2-3	2-3	1500	1	2
Renfrew	997.1	+18	WSW	3	c|r	38	95	7	6	-	-	10	10	1500	1	*
Inchkeith (Edin.)	994.7	0	SW	4	c	41	95	7	5	2	-	7-8	10	1500	0	2
Leuchars	995.2	+2	WNW	1	c|r	38	95	7	5	2	-	7-8	10	1500	1	*
Eskdalemuir ...	997.2	+8	W	3	r.	34	95	6	6	-	-	10	10	800	1	*
Tynemouth ...	997.1	-6	SW	2	m	38	95	4	6	-	-	10	10	1500	1	1
Blacksod Point ...	998.5	-8	WSW	4	c	38	85	7	9	-	-	9+	9+	<150	1	4
Aldergrove ...	999.3	+22	SW'S	3	b	34	95	8	6	-	-	Tr.	Tr.	4000	1	*
Donaghadee ...	998.6	+6	WSW	1	b	35	95	7	-	-	-	0	0	-	0	0
Birr Castle ...	1001.1	0	SW	1	c	34	95	8	8	-	-	7-8	7-8	2500	1	*
Holyhead... ...	1001.8	+6	W	4	bc	42	75	8	1	-	-	2-3	2-3	2500	1	2
Liverpool (Bidston)	1000.5	+8	SW'W	4	bc	38	85	7	8	-	-	2-3	2-3	2500	1	*
Chester (Sealand)	1001.9	+10	W'S	1	m.	37	85	6	8	-	-	2-3	2-3	2500	1	*
Harrogate... ...	999.3	0	SSW	3	b	37	95	5	6	-	-	1	1	2500	1	*
Spurn Head ...	999.4	-4	WSW	4	bc	43	95	7	6	-	-	4-6	4-6	4000	1	3
Birmingham ...	1003.3	+8	SW	3	b	38 95	95	8	-	-	-	0	0	-	1	*
Cranwell	1001.4	+10	SW	3	b	39	95	6	5	-	-	1	1	2500	1	*
Gorleston	1003.0	-10	SSW	6	ir.	45	95	6	6	-	-	10	10	2500	1	3
Valentia Obs. ...	1002.1	-6	SW	2	c|pr	38	86	8	6	-	-	9	9	2500	1	4
Roches Point ...	1004.5	0	NW	3	bc	40	85	8	5	-	9	2-3	4-6	1500	1	2
Pembroke... ...	1002.5	+6	W	4	bc|ph(r)	45	85	8	2	-	-	4-6	4-6	2500	1	3
Ross-on-Wye ...	1003.7	+10	SW	2	b	37	85	6	5	-	-	Tr.	Tr.	4000	1	*
Leafield	1003.6	+10	SW'W	3	b	38	85	7	4	-	1	Tr.	Tr.	4000	1	*
Cardington ...	1003.3	+8	SW	3	b	37	95	7	5	-	-	1	1	2500	1	*
Winchester ...	1004.8	+14	SW'W	2	b	38	95	7	-	-	-	0	0	-	1	*
S. Farnborough ...	1004.3	+6	SW'W	1	b	37	95	7	5	-	-	Tr.	Tr.	1500	1	*
London (Kew) ...	1004.3	0	SW'W	2	b	42	95	5	5	-	-	1	1	2500	1	*
Croydon	1005.1	0	SW'W	3	m.	44	95	6	8	-	-	7-8	7-8	1500	1	*
Manston																*
Shoeburyness ...	1004.2	-10	SSW	4	bc	46	95	8	5	-	-	4-6	4-6	2500	1	*
Clacton-on-Sea ...	1003.9	-10	S	5	c	46	95	7	6	-	-	7-8	7-8	800	1	3
Felixstowe ...	1004.2	-14	WSW	5	c|r	46	95	7	5	-	-	9	9	1500	1	4
Scilly (St. Mary's)	1006.1	0	NW'W	4	bc	43	95	8	8	-	1	2-3	4-6	4000	1	3
Falmouth... ...	1006.3	0	WSW	3	bc	43	75	8	3	-	-	4-6	4-6	4000	1	1
Plymouth	1005.1	+4	W	3	b	44	75	7	3	-	-	Tr.	Tr.	2500	1	2
Portland Bill ...	1004.1	+6	W'N	4	bc	47	65	8	4	4	-	2-3	2-3	2500	1	4
Calshot, S'hampton	1004.6	+2	W'S	2	b	41	95	7	5	-	-	1	1	2500	1	1
Dungeness ...	*	*	SW	6	pr	*	*	7	9	-	*	7-8	7-8	2500	*	4
Lympne	1005.2	-6	SW	5	RR	44	85	7	6	-	-	10	10	800	1	*
Guernsey	1006.1	0	W	1	c	46	75	9	5	-	-	7-8	7-8	1500	1	3

PAST 24 HOURS.

STATIONS. (For heights see p. 4.)	Weather. 7h.—13h. 8th (37)	Weather. 13h.—18h. 8th (38)	Weather. 18h. 8th to 1h. 9th (39)	Weather. 1h.—7h. 9th (40)
Lerwick	or.r.ir.	oir.c	c	coir.
Stornoway ...	orrc	c, bc	bc	bc
Wick	bcc	corr	orro	orrbc
Tiree	oRrcir	d prh.	RRc	bcc pr
Nairn	bccprs	cprs	c6cx	6c
Aberdeen	bc, cz	or.r.	orc	c
Malin Head ...	cir bc	c phr bc	6cjp	6c pr.
Renfrew	cxir. bccm	bcc, r.	c66cx	66cxm.
Inchkeith (Edin.)	bcc	c	cir.	c6c
Leuchars	o,rrrsr,c	crm cr.c	c6cx	6cx
Eskdalemuir ...	corr ss	or.s.	or.s.6xf	ofx
Tynemouth ...	btom	oir off	66cm	6c
Blacksod Point ...	phr	phq	prq	phrq
Aldergrove ...	cir.	bc p. bx	6x6x	cxc
Donaghadee ...	cid.	cbcb	6c	6cx
Birr Castle ...	cbcbcpr	cbcc	c6c	6cxc
Holyhead... ...	kq, Rr.c	cbcu	6cc	c, pr
Liverpool (Bidston)	cor.r	cp.bc	6cwbc	c
Chester (Sealand)	bccrm	prq bcm.	6cm.6	6ccxm.
Harrogate... ...	bofrsrr	ofrrb	66cri.	6x
Spurn Head ...	bc	crr bc	6c	6cxc
Birmingham ...	borr	ob	66cx	6ccmx
Cranwell	bm. cr.	rrcmbc	6m. 6cmx	6ccmx
Gorleston	bm bc	bc cor.q	oir. 6c	cm.c
Valentia Obs. ...	bcp. bcph	bcphcpg.c	cpht pr	PH pr
Roches Point ...	bc	bc	6w	66cw
Pembroke... ...	ir bcq,	bcp.h	6cc irq	ccrh
Ross-on-Wye ...	cdorbc	bc b	66cc	cors
Leafield	bccr	c b	6xm.	6bccm
Cardington ...	bxcm.r	crm cbcb	6, 6x	6xbcfq
Winchester ...	bccprRor	Rm. pRr.b	66cx	6cxc
S. Farnborough ...	xbmcrrm	orrRrscpb	6, cxm.	cxmbxf
London (Kew) ...	bmxcpr.	crm. bm.	cmxf	fx
Croydon	bm.cpr	cor.rbc	6cc bm.	c6bxmx
Manston				
Shoeburyness ...	bm. bc	bcorrbc	6c	6m. 6m
Clacton-on-Sea ...	bc	bcorc	c	cm
Felixstowe ...	bm. bc	bcc irc	c6ir.c	cf
Scilly (St. Mary's)	cp bc	bccp	6cp.c	cp6cf
Falmouth... ...	oirq bc	bcp.	6cp	6cPq
Plymouth	cqRr bcpc	bcb	6xc	cPR6ir.c
Portland Bill ...	bc RR	cbc	c6c	6cp.c
Calshot, S'hampton	bcprbccRm	oRRrbcmb	6cxm.	ofcfe
Dungeness ...	p	p		6cf
Lympne	bcdd pr	crr RRq,	orrir.m	or.mcbc
Guernsey	bcoR	oircv	c6c	cobrc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus, R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, solar halo. ☾, lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

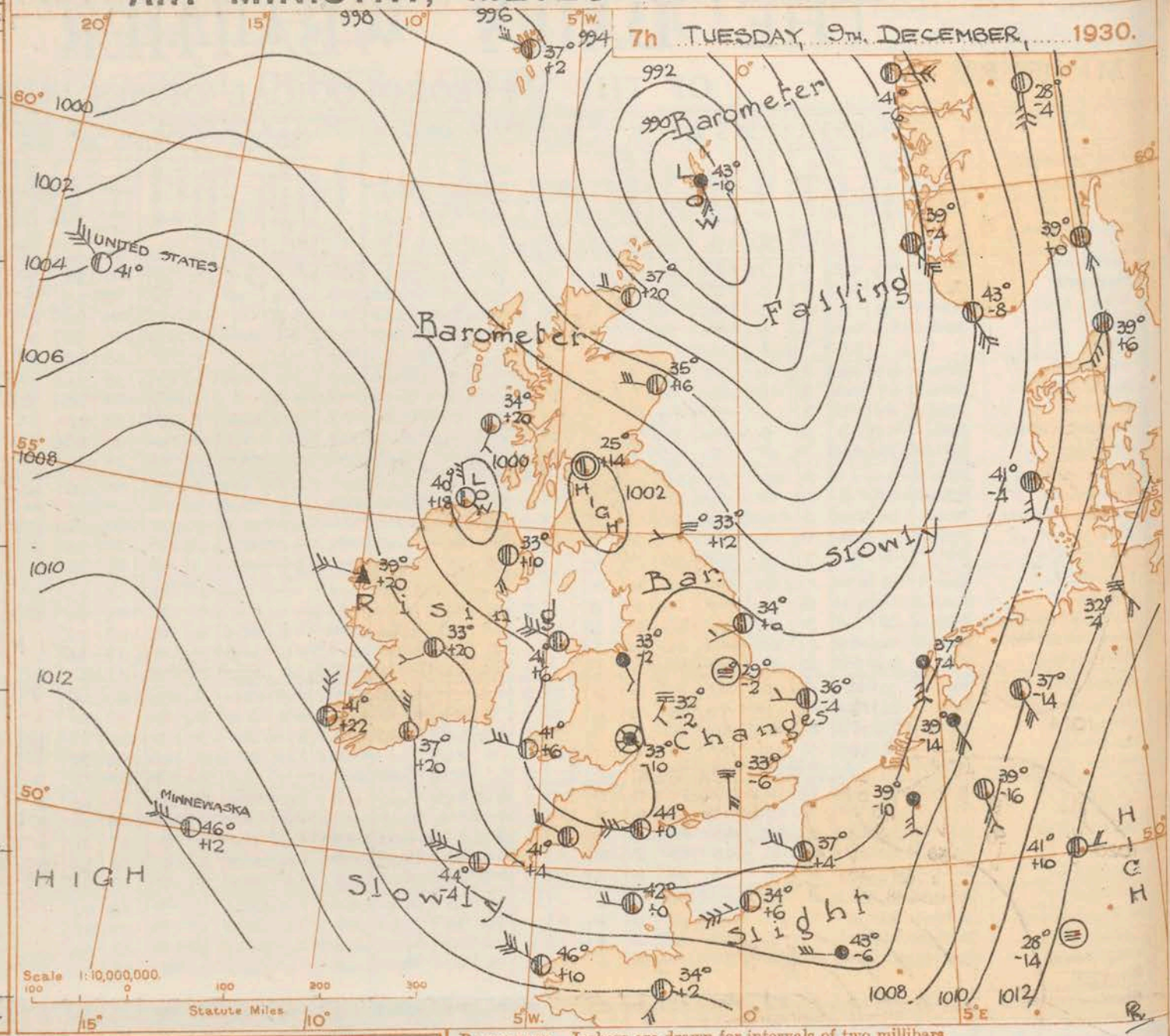
REPORTS from HEALTH RESORTS for 8th December, 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 7th to 9h. 8th	TEMPERATURE. Max. 9h.—17h. 8th	RAINFALL. Night, 17h. 7th to 9h. 8th	RAINFALL. Day. 9h.—17h. 8th	SUNSHINE. Sunrise to Sunset. 8th
Dunbar	bc×	bc	33	42	0.5	Trace	0.0
Berwick-on-T. ..	bcr	rc	32	41	2	2	0.8
Douglas	or$_m$	cp$_o$hcb	33	41	6	1	0.2
Llandudno	rorc	cpcbc	36	45	1	3	0.5
Colwyn Bay	rro	rcobc	34	43	2	3	0.0
Rhyl	corr	crbc	32	43	0.3	3	0.1
Wallasey	orr	crbcb	34	43	1	3	0.2
Southport ... ‖ ...	or	rochc	33	42	–	6	0.1
Blackpool	or	orcph	34	43	2	5	0.2
Morecambe	doc	crro	33	43	0.5	6	0.0
Ilkley	×bcor	ror	30	40	0.6	6	0.0
Cleethorpes	b	bcoro	31	43	1	1	2.6
Mablethorpe	bx bcor$_o$	corm$_o$	31	43	1	2	2.8
Skegness...	orryc	cor	32	44	0.5	2	2.4
Aberystwyth	cpmr	cprbc	37	46	2	1	3.2
Bath	bccr	pcbcb	30	47	0.5	4	1.7
Cheltenham ... † ...	corrc	cpbcm	30	44	1	4	2.6
Leamington Spa	bcbr	cpr	30	45	–	2	0.0
Lowestoft	corc	bbcid	33	46	5	0.2	5.2
Dovercourt	rcb	bcocr	35	46	3	Trace	5.1
Maldon	cbbc	corro	33	47	3	2	2.9
Southend	bbcr$_o$	cor	35	49	3	2	3.9
Ilfracombe	odc	bcod	40	48	2	0.5	2.2
Bude	wbcrp	prbc	35	49	2	1	2.7
St. Ives	b	c	40	48	5	0.3	3.6
Penzance	cb	bpr	41	51	4	0.3	4.8
Torquay	ororp	cpbm$_o$	31	50	0.2	4	4.0
Jersey	rbc	crc	44	50	0.3	8	3.5
Weymouth	cbcrr	cb	35	50	Trace	6	0.9
Bournemouth	obco	bbcor	32	49	2	1	1.7
Ventnor	bcow	orbcc	38	49	0.3	6	0.4
Southsea	bcor	orrc	33	49	2	3	0.7
Bognor Regis	bc	crrbc	33	49	1	7	1.2
Littlehampton	bcc	crbc	30	49	1	6	0.7
Worthing	bcrbc	cro	31	50	1	5	1.4
Brighton...	or	rc	33	50	0.3	5	1.3
Eastbourne ... † ...	crcbc	bcorrbr	33	49	–	10	2.2
Hastings ... † ...	bcbbc	bccor	33	49	2	0.6	2.8
Folkestone	xbbcc	cob	35	49	3	1	3.3
Dover	bbc	coirlc	39	49	3	0.5	3.8
Deal	b	bcor	35	48	2	0.5	3.9
Tunbridge Wells	bbcb	orro	33	47	–	6	1.5
Ramsgate	bbc	bcod	37	47	0.6	0.5	4.0
Margate	bbc	bccr	37	49	2	1	3.7

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h TUESDAY, 9TH. DECEMBER, 1930.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 9th Dec. 1930.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Moderate to light northwest wind, backing southwest, freshening tomorrow; fine at first apart from local showers; some rain tomorrow; local fog night and morning; rather cold, with night frost; becoming milder tomorrow.
5. S.W. England 6. South Wales 7. North Wales	Wind northwest, fresh or strong locally, moderating temporarily; freshening from southwest later; fine at first, apart from local showers; rain tomorrow; rather cold, frost inland at night, milder tomorrow.
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Light or moderate northwest or variable wind, freshening from south tomorrow; fine at first apart from local sleet or snow shower; rain tomorrow with perhaps snow or sleet locally at its commencement; local fog night and morning; cold, frost at night, becoming milder tomorrow.
13. {A. W. Scotld. B. N.W. Scotland.	Wind west to northwest, backing southwest, becoming strong to gale later; fair at first apart from local showers, rain later; rather cold, then milder.
14. Mid-Scotland 15. N.E. Scotland	As 8 - 12.
16. Orkneys and Shetlands.	Wind west, fresh or strong, moderating and backing: showers.
17. N.W. Ireland	As 13.
18. N.E. Ireland 19 S.E. Ireland 20. S.W. Ireland	Moderate west to northwest wind, backing southwest or south and freshening considerably; fair at first, rain later; rather cold, then milder.

GENERAL INFERENCE.

A wedge of high pressure off West Ireland is moving eastward, followed by a deep depression on the Atlantic. Weather will be fair at first apart from local showers, but rain will spread eastward later. A change to milder weather indicated after tonight.

FURTHER OUTLOOK.

Unsettled and mild.

Forecasts issued at 1015 G.M.T.

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

H.M. Stationery Office Press, Kingsway, W.C.2. P. 2437/2165. Wt. 26. D.6026. Gp. 908. 3/31. 12/30.

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

Morning of
Tuesday,
9th December,
1930.

Clarke's Projection Scale 1.4 x 10^7 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 the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tues. day 9th December 1930.

No. 25,219.

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

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)
Lerwick	54	993·1	-6	SE	3	c	44	85	7	5	2	-	4·6	9	1500
Stornoway ...	34	997·4	+1·6	W	1	bc	34	95	8	1	8	-	2 3	4·6	4000
Wick	81	992·4	-4	NW	3	44	39	95	8	6	-	-	10	10	1500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	-	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head ...	51	997·8	+2	SSE	3	6c,j/p	44	95	8	3	6	9	2 3	4·6	1500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	998·1	+10	SW	3	c	37	95	7	5	8	-	2 3	7-8	1500
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir ...	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth ...	67	1000·0	+10	WSW	1	6c	36	95	7	5	-	-	4·6	4·6	800
Blacksod Point ...	10	999·8	+8	W	4	c	38	95	7	9	-	-	10	10	4450
Aldergrove ...	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee ...	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle ...	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead... ...	26	1001·9	-6	W'S	3	c	41	85	8	4	-	8	4·6	9	2500
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate... ...	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head ...	29	1001·9	+2	W	2	6c	36	95	5	5	1	8	2 3	4·6	1500
Birmingham ...	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1002·7	+4	WSW	1	m	33	95	4	-	-	6	0	7-8	-
Gorleston	14	1003·9	+4	W'S	2	c	39	95	6	-	1	-	0	7-8	-
Valentia Obs.† ...	30	1001·1	-6	W	6	PR	42	75	8	9	-	-	7-8	7-8	2500
Roches Point ...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke... ...	150	1001·9	-6	WSW	3	c/p	42	95	8	3	7	9	4·6	9	1500
Ross-on-Wye ...	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington ...	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester ...	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew) ...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1005·0	-4	NW	1	2	37	95	5	5	2	-	2 3	10	2500
Manston	136	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness ...	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1004·8	-4	WNW	5	c/p	41	95	8	8	-	-	7-8	7-8	4000
Falmouth... ...	200	1005·2	-2	W'S	3	PR	40	95	8	3	-	-	4·6	4·6	4000
Plymouth... ...	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill ...	32	1003·7	-6	W'N	3	6c	45	75	8	-	4	-	0	4·6	-
Calshot, S'hampton	8	1004·2	-6	WNW	1	F	36	95	1	-	-	-	-	-	-
Dungeness ...	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1004·5	-10	-	0	c/r	40	95	6	5	2	-	7-8	10	4000
Guernsey	173	1005·4	-4	W	1	6c	43	75	9	5	-	-	4·6	4·6	4000

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

STATIONS.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
Lerwick	999·4	-10	SE	2	c/r	44	95	7	6	2	-	4·6	10	1500	1	•
Stornoway ...	999·2	+12	W	1	bc	38	95	8	2	-	-	4·6	4·6	4000	4	1
Wick	995·2	+20	NNW	2	6c	37	85	8	2	6	/	2 3	4·6	2500	1	2
Tiree	1000·5	+20	SW	1	c	44	95	8	6	7	-	7-8	10	800	4	2
Nairn	998·8	•	-	0	6c	42	85	8	-	3	-	2 3	2-3	4000	4	•
Aberdeen	998·6	+16	W	3	c	35	75	8	-	3	-	0	7-8	-	1	1
Malin Head ...	999·3	+18	NNW	3	6c,j/p	40	85	7	3	-	-	4·6	4·6	1500	1	2
Renfrew	1002·0	+14	-	0	2	25	95	5	-	-	/	0	2-3	-	4	•
Inchkeith (Edin.)	1001·1	+12	WSW	2	6c	36	95	7	5	-	-	2 3	2-3	1500	0	0
Leuchars	1000·3	+10	WSW	3	6c	41	95	8	5	3	/	/	4·6	4000	4	•
Eskdalemuir ...	1002·3	+14	-	0	F	24	95	1	5	-	-	10	10	4450	4	•
Tynemouth ...	1000·8	+12	WSW	1	m	43	95	4	5	-	-	4·6	4·6	1500	4	1
Blacksod Point ...	1004·3	+20	W	5	pH(R)	49	85	8	9	-	-	9	9	4450	2	4
Aldergrove ...	1001·3	+10	SW	2	c	43	95	7	5	-	-	9+	9+	800	4	•
Donaghadee ...	1000·9	+10	SW	1	6c	43	85	7	5	-	-	4·6	4·6	1500	0	0
Birr Castle ...	1004·3	+20	WSW	1	c	43	95	7	5	-	-	9	9	1500	4	•
Holyhead... ...	1001·8	+6	NW	6	c/p	41	85	8	8	-	-	9	9	2500	1	3
Liverpool (Bidston)	1000·8	0	SW	2	c	35	85	7	5	-	-	9+	9+	1500	0	•
Chester (Sealand)	1001·7	-2	SE S	1	r	33	95	6	6	1	-	4·6	10	2500	1	•
Harrogate... ...	1002·0	0	E	1	6	29	85	5	5	-	/	Tr.	1	4000	5	•
Spurn Head ...	1001·7	0	SW W	1	c	44	95	6	-	1	8	0	7-8	-	0	2
Birmingham ...	1002·2	-2	SSW	1	c f	42	95	1	-	-	8	0	7-8	-	1	•
Cranwell	1002·2	-2	-	0	m	29	95	4	-	2	6	0	9	-	4	•
Gorleston	1002·7	-4	W	1	c	36	95	6	-	2	-	0	10	-	1	2
Valentia Obs.† ...	1007·2	+22	N	5	c/p	41	75	8	3	-	-	7-8	7-8	1500	1	4
Roches Point ...	1005·3	+20	N	3	6c	37	95	8	3	-	-	2 3	2-3	1500	0	2
Pembroke... ...	1001·2	+6	WNW	4	c/p	41	85	8	2	4	-	4·6	4·6	2500	1	3
Ross-on-Wye ...	1002·0	-10	-	0	rs	43	95	5	6	-	-	10	10	800	1	•
Leafield	1002·1	-10	S	3	m	29	95	4	-	7	5	0	4·6	-	4	•
Cardington ...	1003·1	-4	SW	3	fg	29	95	5	5	4	8	1	4·6	4000	5	•
Winchester ...	1002·7	-8	SE	2	p	29	95	6	5	1	-	7-8	9+	1500	4	•
S. Farnborough ...	1003·3	-6	SSE	1	bcm	28	95	4	5	7	-	1	2-3	4000	4	•
London (Kew) ...	1002·9	-6	-	0	F	30	95	1	-	-	-	-	-	-	5	•
Croydon	1003·5	-6	S	3	m	33	95	4	-	3	/	0	2-3	-	5	•
Manston																•
Shoeburyness ...	1003·0	-4	-	0	m	36	95	4	5	-	-	1	1	2500	1	•
Clacton-on-Sea ...	1002·6	0	WNW	3	c	38	95	6	5	-	-	7-8	7-8	1500	0	1
Felixstowe ...	1003·1	0	-	0	c f	37	95	3	5	3	-	7-8	9	4000	1	1
Scilly (St. Mary's)	1004·5	-4	WNW	8	6c	44	85	7	8	-	-	4·6	4·6	4000	1	4
Falmouth... ...	1005·4	0	WSW	4	6c	37	95	8	3	3	-	2 3	4·6	4000	1	2
Plymouth... ...	1003·9	+4	NW W	3	c	41	85	7	9	3	-	4·6	7-8	1500	2	2
Portland Bill ...	1002·0	0	W	5	c	44	65	8	4	1	-	4·6	7-8	1500	1	3
Calshot, S'hampton	1003·1	-6	SSE	1	c f	34	95	3	5	3	-	7-8	7-8	220	1	0
Dungeness ...	•	•	SW	1	6c F	•	•	X2	1	4	•	2 3	4·6	2500	•	1
Lympne	1003·2	0	NNW	2	6c	38	95	7	5	-	-	4·6	4·6	5700	1	•
Guernsey	1004·8	0	W	2	c/p	42	85	7	5	-	-	7-8	7-8	2500	2	4

PAST 24 HOURS.

STATIONS.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 8 a.m. Hrs. (36)
Lerwick	45	42	•	2	3	0·0
Stornoway ...	40	33	•	5	-	0·0
Wick	43	34	•	0·3	2	•
Tiree	43	32	25	5	7	0·1
Nairn	35	32	•	2	-	0·0
Aberdeen	43	35	30	1	1	0·4
Malin Head ...	43	33	•	3	1	1·0
Renfrew	43	24	16	1	-	0·8
Inchkeith (Edin.)	42	35	30	-	Tr.	0·1
Leuchars	40	30	22	2	-	0·0
Eskdalemuir ...	37	24	20	5	1	0·0
Tynemouth ...	39	33	27	0.6	-	•
Blacksod Point ...	43	34	•	4	4	•
Aldergrove ...	41	29	25	0.4	Tr.	1·6
Donaghadee ...	44	30	•	0.2	-	•
Birr Castle ...	41	29	22	0·1	-	4·5
Holyhead... ...	45	39	32	5	0·2	1·3
Liverpool (Bidston)	42	33	31	2	-	0·1
Chester (Sealand)	44	31	27	0·2	Tr.	0·4
Harrogate... ...	38	29	24	4	1	0·0
Spurn Head ...	43	34	•	1	-	3·0
Birmingham ...	43	32	26	0.6	-	1·5
Cranwell	42	27	21	1	-	2·7
Gorleston	46	36	33	1	0·1	4·8
Valentia Obs.† ...	44	38	35	2	2	2·6
Roches Point ...	44	35	•	-	Tr.	•
Pembroke... ...	46	40	•	1	2	5·1
Ross-on-Wye ...	47	30	20	3	1	3·1
Leafield	43	28	23	1	-	2·1
Cardington ...	45	27	23	2	-	2·3
Winchester ...	47	25	20	6	0·1	0·6
S. Farnborough ...	46	27	17	7	-	2·2
London (Kew) ...	47	29	25	4	0·1	2·3
Croydon	48	33	29	3	Tr.	2·3
Manston						
Shoeburyness ...	47	35	26	3	-	4·4
Clacton-on-Sea ...	46	37	35	1	-	4·4
Felixstowe ...	46	37	34	0.6	Tr.	5·2
Scilly (St. Mary's)	46	40	•	0.6	1	6·1
Falmouth... ...	45	37	•	4	3	4·6
Plymouth... ...	44	33	32	5	1	4·4
Portland Bill ...	44	34	•	5	-	•
Calshot, S'hampton	49	30	26	7	0·2	1·1
Dungeness ...	43	35	•	0·1	6	•
Lympne	47	37	30	2	7	2·4
Guernsey	50	41	31	4	3	1·7

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather Morning.	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	bm,xap,o	cm,bm,o	cm,f,fa	47	29	25	4	0·1	2·3	•	•	1
CROYDON	244	bm,ap,r	cor,r,bc	bc,bm,f,bc	48	33	29	3	Tr.	2·5	•	•	3
GREENWICH (Royal Observatory) ...	149	6,a,p	a,p,r,c	c,bc,af	49	30	19	3	Tr.	2·6	90	92	3
CITY (Bunhill Row)	—	•	•	•	•	•	•	•	•	0·8	•	•	•
WESTMINSTER (St. James' Park) ...	27	•	•	•	49	30	27	4		1·8	94	?	•
REGENTS PK. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	•	•	•	•
CAMDEN SQUARE	110	x,6c	c,or,c	•	47	33	24	5	-	•	•	100	•
KENSINGTON PALACE	80	bm,6c,or	or,6	•	48	33	25	4	0·2	•	At 18h. 91	99	•
HAMPSTEAD OBSERVATORY ...	450	bc,no,for	o,f,o,f	•	45	30	20	4	0·1	1·3	•	97	•

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	9h. 7-10h. 8a	0·3	11·6h. 9a

KEW OBSERVATORY.	Max.	Time.	Min.	Time.
	0·4	21h. 8a	0·1	8h. 8a

FOREIGN OBSERVATIONS.

18h. G.M.T. 8th December 1930.

STATIONS.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS	1010·6	S	3	6	37
BRUSSELS					
BERLIN					
ZÜRICH	1018·8	N	1	c,r,o	41
ROME	1017·5	SW	2	c	55

7h. G.M.T. 9th December 1930.

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
1005·7	S	2	1010	41
1004·7	S	4	1010	33
1013·6	SW	1	f	37
1011·4	SE	1	z	37
1016·2	SSE	2	c	54

Past 24 Hours.

	Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
PARIS		39		5
BRUSSELS		37	Tr.	Tr.
BERLIN		37		Nil
ZÜRICH	43	36	2	0·1
ROME	59	50	-	10

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

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

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 10th December 1930.

No. 25220.

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

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)
Lerwick	989.8	-12	W'S	1	pr	42	85	8	5	6	-	4-6	7-8	1500
Stornoway	1002.1	+12	WSW	3	bc jp	36	95	9	3	9	-	2-3	4-6	4000
Wick	999.9	+20	W	2	pr	38	85	8	3	6	-	2-3	4-6	2500
Tiree	1004.3	+14	WNW	1	c	41	75	9	8	-	3	7-8	7-8	1500
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1002.7	+12	W	2	c	38	75	8	-	6	3	0	7-8	-
Malin Head	1004.2	+18	NNW	3	bc jp	42	85	8	2	-	-	4-6	4-6	2500
Renfrew	1005.2	+10	-	0	F	27	95	0	5	-	-	10	10	<150
Inchkeith (Edin.)	1003.7	+10	WSW	3	m	37	95	4	5	1	-	2-3	4-6	800
Leuchars	1003.2	+6	WSW	3	bc	40	75	8	-	3	2	0	4-6	-
Eskdalemuir	1004.7	+14	-	0	bc	29	95	8	5	1	2	1	4-6	800
Tynemouth	1003.0	0	WNW	1	bc	37	76	6	5	-	1	2-3	2-3	1500
Blacksod Point	1007.8	+14	W	4	bc	43	75	9	4	9	-	4-6	7-8	2500
Aldergrove	1005.4	+14	-	0	c	36	95	7	8	-	-	9	9	800
Dunaghadee	1004.4	+10	W'N	1	bc	38	85	7	2	3	-	2-3	4-6	4000
Birr Castle	1007.1	+14	SW	1	b	40	75	8	1	1	-	1	1	(2500)
Holyhead	1005.0	+14	NW'N	6	ph(r)	42	85	8	3	-	-	9	9	1500
Liverpool (Bidston)	1003.9	+12	NNW	2	o	37	95	8	6	-	-	10	10	2500
Chester (Sealand)	1004.4	+10	NNW	2	ir.	37	95	6	6	7	-	4-6	9	800
Harrogate	1003.4	+6	-	0	b	34	75	5	-	4	-	0	1	-
Spurn Head	1002.5	0	NW	2	c	40	96	5	5	-	8	2-3	7-8	800
Birmingham	1003.4	+6	NW	2	SSF	33	96	1	6	-	-	10	10	<150
Cranwell	1002.9	0	WNW	1	c	35	95	6	5	7	9	2-3	7-8	4000
Gorleston	1002.7	-2	-	0	bc	42	95	6	2	-	4	1	4-6	4000
Valentia Obs.	1010.1	+6	NNW	3	bc	46	65	9	1	-	2	1	4-6	2500
Roches Point	1009.3	+14	N	2	bc	41	85	8	5	-	-	2-3	2-3	2500
Pembroke	1006.2	+12	NNW	4	q	41	95	8	8	-	-	7-8	7-8	2500
Ross-on-Wye	1004.3	+12	NW	3	bc	40	75	8	7	-	3	2-3	2-3	4000
Leafield	1003.3	+6	WNW	5	c	35	95	7	6	7	3	4-6	9	800
Cardington	1002.8	-2	W'S	1	f	32	95	2	5	6	-	7-8	9	<150
Winchester	1003.7	0	W'S	3	bc/f	38	95	7	5	1	1	Tr.	2-3	1500
S. Farnborough	1003.1	-2	W'S	2	bc	40	85	6	1	3	-	4-6	4-6	1500
London (Kew)	1003.2	-4	WSW	3	m	37	85	4	5	-	1	7-8	9	1500
Croydon	1003.7	0	W	2	c/f	38	95	5	5	7	-	4-6	9+	800
Manston														
Shoeburyness	1002.8	-4	N'W	1	f	39	95	3	5	-	-	7-8	7-8	4000
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1003.4	0	-	0	c	40	86	5	3	-	6	1	7-8	4000
Scilly (St. Mary's)	1009.5	+18	NW	6	bc	46	65	8	2	-	5	4-6	4-6	4000
Falmouth	1009.1	+8	NW'W	5	bc	45	75	8	3	3	-	2-3	4-6	4000
Plymouth	1007.5	+20	WNW	3	pr	40	86	6	9	-	-	9	9	1500
Portland Bill	1005.3	+4	NW	4	bc	44	75	8	7	7	8	4-6	4-6	2500
Calshot, S'hampton	1004.0	+6	NW'W	4	bc	41	75	7	1	-	1	1	2-3	4000
Dungeness	*	*	WNW	2	rr	*	*	6	6	-	*	9	10	1500
Lympne	1003.3	0	SW'W	3	rr	37	95	5	6	-	-	10	10	800
Guernsey	1005.8	+4	NW	4	PH(R)	43	75	8	8	-	-	9	9	1500

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

STATIONS.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground 0-9 (29)	Sea 0-9 (30)
Lerwick	995.7	+20	W	5	r	40	85	7	6	-	-	10	10	1500	1	1
Stornoway	1004.3	+18	W	2	bc	36	95	7	9	-	-	4-6	4-6	4000	1	1
Wick	1002.7	+22	W	3	bc	35	85	8	3	8	-	2-3	4-6	2500	1	3
Tiree	1006.4	+14	SW	1	c/ph	37	85	9	8	-	3	7-8	7-8	1500	4	2
Nairn	1004.6	*	W	1	bc	33	85	8	4	6	-	8	2-3	4000	4	*
Aberdeen	1005.8	+18	NW	2	b	35	75	8	-	-	-	0	0	-	4	1
Malin Head	1007.8	+14	NW	3	bc/pr	41	85	7	3	-	-	2-3	2-3	1500	1	2
Renfrew	1007.0	+16	W	2	m	26	95	5	-	-	-	0	0	-	4	*
Inchkeith (Edin.)	1006.0	+18	WSW	3	m	35	96	4	5	-	-	4-6	4-6	800	0	0
Leuchars	1006.7	+22	WSW	2	b	31	85	8	-	-	1	0	Tr.	-	4	*
Eskdalemuir	1008.6	+22	-	0	b	20	95	6	-	-	-	0	0	-	4	*
Tynemouth	1006.2	+16	W	2	bc	33	85	6	5	-	1	2-3	2-3	1500	4	1
Blacksod Point	1003.0	+12	SE	3	c	41	75	7	-	3	-	0	9	-	1	3
Aldergrove	1008.6	+18	SSE	2	b	29	95	6	5	-	-	1	1	2500	1	*
Dunaghadee	1007.7	+14	NW	1	b	34	95	7	-	-	-	0	0	-	0	0
Birr Castle	1009.3	+14	SSW	1	bc	54	95	8	-	4	-	0	2-3	-	1	*
Holyhead	1008.5	+20	N	4	bc u	41	85	8	8	-	-	2-3	2-3	1500	1	3
Liverpool (Bidston)	1007.4	+24	NE'N	2	m	36	95	4	5	-	-	4-6	4-6	1600	1	*
Chester (Sealand)	1008.3	+24	NW	2	m	35	95	5	8	-	-	7-8	7-8	2500	1	*
Harrogate	1007.2	+20	SW	1	b	31	85	7	-	-	-	0	0	-	5	*
Spurn Head	1005.6	+10	N'W	3	bc	38	95	6	5	-	-	2-3	2-3	1500	0	2
Birmingham	1008.0	+22	NW	3	f	34	95	3	5	-	-	10	10	800	7	*
Cranwell	1007.0	+26	WNW	2	F	30	95	1	-	-	-	0	0	-	4	*
Gorleston	1004.6	+10	NW	2	bc	37	85	5	-	3	-	0	2-3	-	0	1
Valentia Obs.	1010.6	+2	E'N	2	bc	38	85	8	7	-	2	2-3	4-6	2500	1	4
Roches Point	1011.1	+14	NW	3	bc	40	85	8	5	-	9	2-3	4-6	1500	0	2
Pembroke	1009.3	+10	NNW	3	bc	42	95	8	8	8	-	2-3	2-3	2500	1	2
Ross-on-Wye	1008.5	+24	NW	1	b	35	85	8	5	-	-	Tr.	Tr.	4000	1	*
Leafield	1007.4	+26	NW'N	4	r.s.	34	95	8	6	-	-	10	10	1500	1	*
Cardington	1006.6	+26	NW'N	2	o/s	34	95	5	5	-	-	10	10	450	6	*
Winchester	1007.4	+26	W'N	4	c	37	85	7	5	-	-	9+	9+	4000	1	*
S. Farnborough	1006.5	+26	WNW	3	r.r.	38	85	7	6	-	-	10	10	1500	1	*
London (Kew)	1006.8	+28	NW'W	2	m	36	95	4	5	-	-	10	10	1500	1	*
Croydon	1006.5	+18	WNW	3	ir.	36	95	6	6	-	-	10	10	800	1	*
Manston																*
Shoeburyness	1006.7	+20	NW	1	c	37	86	6	5	-	-	10	10	4000	1	*
Clacton-on-Sea	1005.2	+10	NW	2	o	36	96	6	5	-	-	10	10	800	0	1
Felixstowe	1005.3	+14	N'W	1	z.	38	85	6	5	-	-	10	10	4000	1	1
Scilly (St. Mary's)	1012.2	+16	NW'N	4	bc	44	75	8	7	-	-	4-6	4-6	4000	0	3
Falmouth	1011.8	+14	NW'W	3	bc	42	85	7	3	-	-	4-6	4-6	4000	1	1
Plymouth	1010.5	+14	NW	3	b	40	76	6	3	-	-	Tr.	Tr.	2500	2	1
Portland Bill	1007.9	+20	NW'W	4	bc	43	75	8	4	-	-	2-3	2-3	2500	1	3
Calshot, S'hampton	1007.6	+28	WNW	4	b	37	85	7	5	-	-	Tr.	Tr.	2500	0	1
Dungeness	*	*	WNW	2	m.	*	*	6	-	-	*	0	0	-	*	2
Lympne	1005.6	+14	WNW	2	m.	34	95	6	-	-	-	0	0	-	1	*
Guernsey	1010.1	+30	NW	4	c	43	65	8	5	-	-	4-6	7-8 (4-6)	1500	2	4

PAST 24 HOURS. WEATHER.

STATIONS. (For heights see p. 4.)	7h.—13h. 9th (37)	13h.—18h. 9th (38)	18h. 9th to 1h. 10th (39)	1h.—7h. 10th (40)
Lerwick	oir. cpr	cpr or r.	orr cpr	c bc
Stornoway	bc pr	bc	ba b	bx
Wick	bc pr	bc p. r	bc	bc
Tiree	bc pr	bc pr h	c ph x bc i d.	c d. c d.
Nairn	bc c bc	bc x	bc n	bc
Aberdeen	bc	bc b	bx	bx
Malin Head	bc c pr bc	bc c pr	bc c pi. bc x	bac Ø
Renfrew	bc x FF x	o FF bm. x	bm. c m. x	c m. m x
Inchkeith (Edin.)	bc mm	bc m m	bc im. F	bc c ff mm
Leuchars	bc b x bc	bc b x	bx	bx
Eskdalemuir	o f x bc x	bc x F bx	bx	bx om x
Tynemouth	bc ff	bc	bc	bc f
Blacksod Point	ph q	c	c	c
Aldergrove	c bc c mi d.	c bc bm. x	bx m. o f Ø	bc x
Dunaghadee	bc°	bc b	bbc	bc n
Birr Castle	c bc b	bbc	bc bx	bx bac
Holyhead	cjp	p. r h pr	bc	ba m. x
Liverpool (Bidston)	r s d o	p. r c	bc m	bc bf x
Chester (Sealand)	r s s f or m	pr s bc m	bc m bff x	bm x
Harrogate	bi F b	bx	bx	bx
Spurn Head	bc	cz. bc	bc x z	ba n o f
Birmingham	co F ss	f os i s.	o f bf	bf F
Cranwell	c m x bc	c m. F b	bo F x	bf x
Gorleston	c bc m m	bc m m	bc x m. m.	bc m o ff x
Valentia Obs.	bc ph bc v	bc v y bc	bc	r r z
Roches Point	bc	bc	bc bw	bb c o r r
Pembroke	bc p. q	c bc q	bc	bcc
Ross-on-Wye	r s f bc b	b bc b	bx	bm F x
Leafield	c m i s.	c r. s. o	o r. o bx	bm x
Cardington	bc f g x c f	o ff s s o f s	o sm	fe fe
Winchester	c pr bc m r f	b bc c	bx	bn F F x
S. Farnborough	bc x f r. o c	bc m. o r. r.	o r. r. o	bm bc o ff
London (Kew)	o f c m	c m. p o m	o m	o m o f
Croydon	bc m x ff c m	c m. o r.	o r. r s d. m	o m ff f F F
Manston				
Shoeburyness	bm F bc f	bc f c m	c m	c m o f
Clacton-on-Sea	c m bc m	bc m o m	o m p bc m	co g m
Felixstowe	bF bc	bc m c z.	c z. o bc	of
Scilly (St. Mary's)	bcc	bcc	bcc	~~c o n c~~
Falmouth	bc Ph q	bc p.	bc	bc
Plymouth	bc r s m p r	c m. i r. b	bm.	bb c m.
Portland Bill	c bc	bc	bb c	bc
Calshot, S'hampton	c f p r. c bc m	bb c w m b w	bw bx	bx bm ff x
Dungeness	r°	bc		f
Lympne	co r r r m.	c bm.	bom. bc m	bc m o f
Guernsey	bc PH	co bc	bc v	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 Nc medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

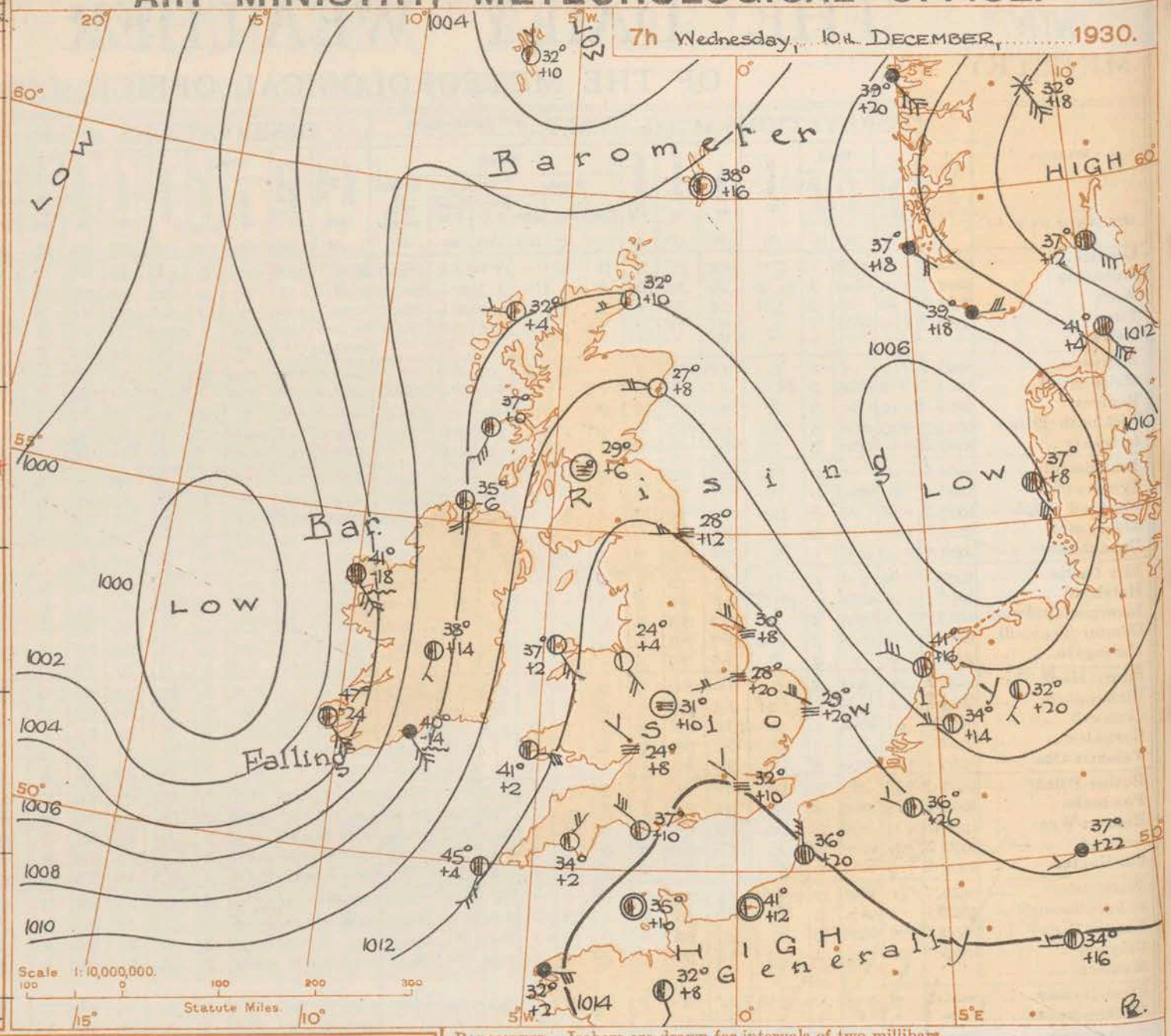
REPORTS from HEALTH RESORTS for 9th December 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 8th to 9h. 9th	TEMPERATURE. Max. 9h.—17h. 9th	RAINFALL. Night. 17h. 8th to 9h. 9th	RAINFALL. Day. 9h.—17h. 9th	SUNSHINE. Sunrise to Sunset. 9th.
Dunbar	b	bm$_o$	32	37	-	-	4.7
Berwick-on-T.	bc	bc	30	35	-	-	5.0
Douglas	xcbc	pScbx	33	39	6	1	3.3
Llandudno	rc	c	35	42	2	2	0.4
Colwyn Bay	rroc	rcbco	35	40	1	2	0.0
Rhyl	om$_o$rr	cphr	33	41	2	5	0.0
Wallasey	orr	roc	34	40	2	2	0.0
Southport ‖	odosd	oFoc	32	36	0.3	1	0.0
Blackpool	oro	odo	32	37	3	1	0.0
Morecambe	hfdo	oom	32	38	3	-	0.0
Ilkley	xbc	bm	27	36	3	-	1.5
Cleethorpes	xef	cfcf	30	36	-	-	0.9
Mablethorpe	bcmx	bcmmx	29	43	Tr.	-	3.9
Skegness	bcfbm	m$_o$b	30	43	0.1	Tr.	3.6
Aberystwyth	bc	pfs	34	42	6	0.3	4.1
Bath	bcb	b	28	41	-	-	6.1
Cheltenham †	sore	cm$_o$	30	39	1	1	0.4
Leamington Spa	ops	so	27	34	-	3	0.0
Lowestoft	bc	bc	34	43	1	-	4.8
Dovercourt	xbf	ocf	32	41	Tr.	-	3.0
Maldon	xff	ff	28	37	-	-	0.0
Southend	bmbc	cofbc	37	(41)	Tr.	-	1.3
Ilfracombe	roc	bbc	37	44	7	0.3	2.1
Bude	pbc	prshb	38	48	6	1	2.1
St. Ives	c	c	37	46	6	-	2.8
Penzance	cb	bcpr	38	47	5	0.2	4.7
Torquay	pcpbcp	b	30	42	0.2	1	4.7
Jersey	rqc	rqc	42	47	12	2	0.7
Weymouth	cbcb	b	31	44	1	-	5.8
Bournemouth	b	b	29	42	8	-	6.5
Ventnor	xthrb	b	37	42	2	-	5.1
Southsea	ocb	bbc	31	41	2	-	4.5
Bognor Regis	orrbc	bc	33	40	1	1	3.5
Littlehampton	cr$_o$bc	bcc	30	41	1	1	3.3
Worthing	orco	bc	32	42	Tr.	2	2.7
Brighton	roc	bc	33	42	-	1	2.3
Eastbourne †	fcoro	cbcb	34	45	7	2	2.1
Hastings †	bcmorr	opco	37	45	13	3	1.4
Folkestone	xorc	cohop	36	43	10	3	0.2
Dover	fbcrom	irbco	37	42	9	3	0.3
Deal	bcor	do	36	41	7	1	0.6
Tunbridge Wells	cop o	oco	32	39	-	Tr.	0.4
Ramsgate	bbcc	crc	38	44	4	0.3	1.4
Margate	bcmc	mcd	38	46	5	Tr.	1.2

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Wednesday, 10th DECEMBER, 1930.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 10th Dec. 1930.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind south to southwest, light to moderate or fresh; dull, occasional rain or drizzle; local fog at first; becoming slowly milder.
5. S.W. England 6. South Wales 7. North Wales	Wind south to southwest, moderate to fresh or strong; cloudy, rain at times; milder.
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 13. B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland	Wind south to southeast, light to moderate or fresh; fair at first apart from fog; probably some rain, sleet, or snow later; cold.
16. Orkneys and Shetlands.	Light variable wind: mainly fair; cold.
17. N.W. Ireland 18. N.E. Ireland	Wind southerly to variable, fresh at times; cloudy, some rain or sleet; becoming milder.
19. S.E. Ireland 20. S.W. Ireland	As 5 - 7.

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

GENERAL INFERENCE.

A wedge of high pressure is moving eastward over Great Britain and a depression is spreading from the Atlantic. Rain will spread eastward rather slowly and fog will persist today in parts of Great Britain. Snow may occur locally in the North but milder weather will spread slowly from southwest.

FURTHER OUTLOOK.

Unsettled and milder.

Time of Issue of Gale Warning.

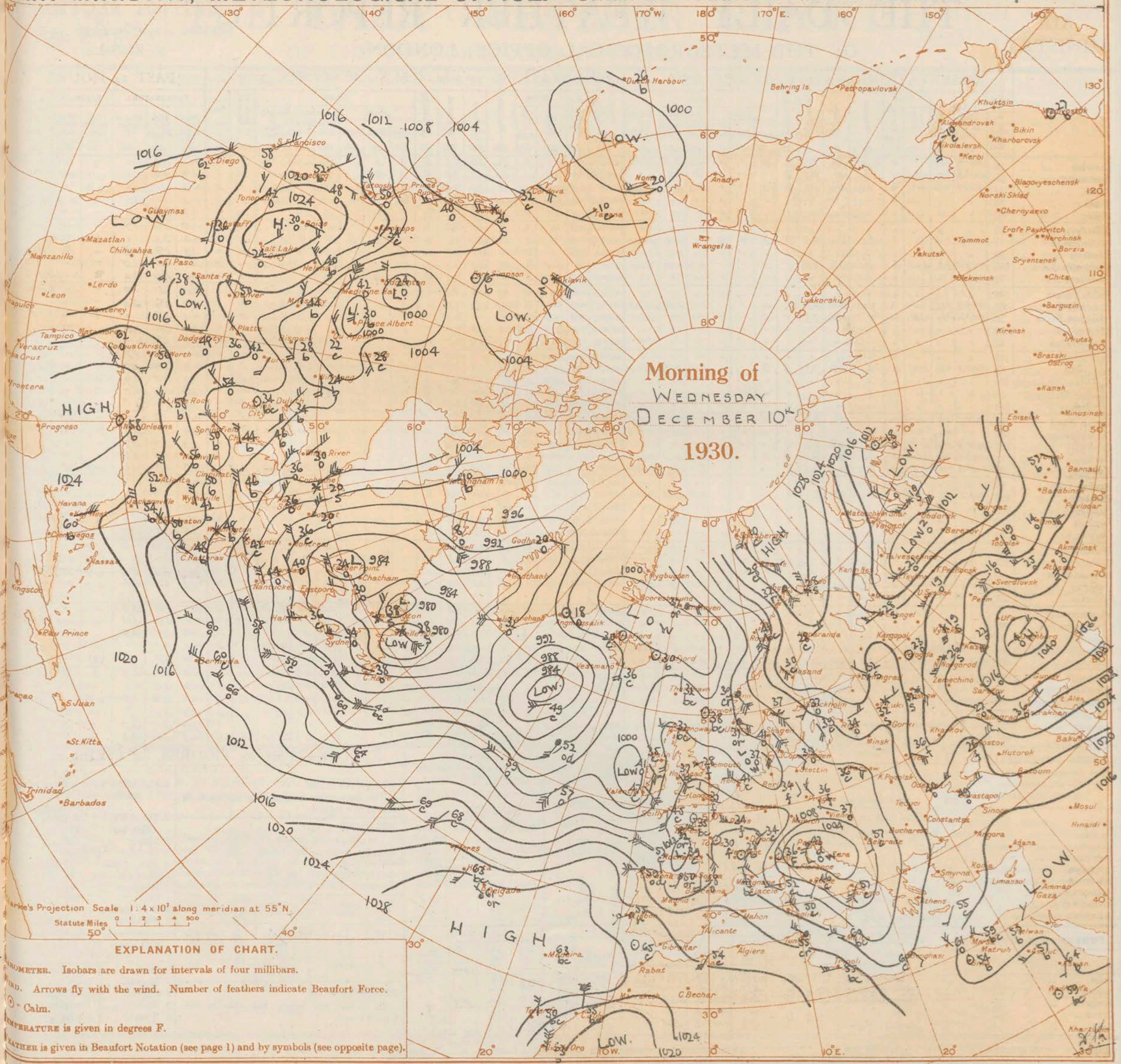
▼ South Cone at 1500 on 9th. in districts 13A., 13B., 17 and 20.

Forecasts issued at 1005 G.M.T.

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

H.M. Stationery Office Press, Kingsway W.C.2
Fr. 2497/2165. Pa. 26. D.6026. Gp. 808. 3/30. 12/30.

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 10th December 1930.

No. 25220

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

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)
Lerwick	54	1001·8	+20	-	0	c/pr	41	75	8	8	/	-	4·6	7-8	1500
Stornoway ...	34	1006·6	+6	WSW	/	5	41	95	8	-	-	-	0	0	-
Wick	81	1005·9	+16	W	2	6c	34	95	8	5	-	-	2-3	2-3	2500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head ...	51	1008·3	+2	S	/	6c	34	95	8	2	8	9	/	2-3	2500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	1009·0	+2	SW	3	7	42	95	5	5	-	-	4·6	4·6	800
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir ...	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth ...	67	1009·3	+12	W	2	6c	40	95	7	2	-	-	2-3	2-3	2500
Blacksod Point ...	10	1007·4	-4	SE	4	C	42	75	7	5	-	-	9+	9+	220
Aldergrove ...	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee ...	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle ...	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	1010·5	+4	SSE	2	C	46	95	6	8	-	-	7-8	7-8	1500
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head ...	29	1008·7	+2	NW'N	4	7	43	95	5	5	-	-	4·6	4·6	4·50
Birmingham ...	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1010·9	+16	W'S	3	F	28	95	1	-	-	-	-	-	-
Gorleston	14	1008·6	+12	W'N	2	6c	43	85	6	/	-	-	2-3	2-3	4000
Valentia Obs. † ...	30	1007·5	-10	SE	4	C	4·6	65	9	4	-	-	9+	9+	2500
Roches Point ...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke	150	1010·5	0	NNE	/	6c	40	95	8	/	-	/	4·6	4·6	4000
Ross-on-Wye ...	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington ...	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester ...	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew) ...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1011·3	+14	NW'N	2	m	43	95	4	5	-	-	10	10	800
Manston	135	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness ...	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1011·7	-10	SSW	3	C	41	75	8	4	5	9	4·6	9	4000
Falmouth	200	1012·3	-6	WSW	/	6c	40	85	8	5	3	-	2-3	4·6	4000
Plymouth	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill ...	32	1011·2	+4	NW'W	3	6c	41	75	8	4	/	-	2-3	2-3	2500
Calshot, S'hampton	8	1011·6	+12	NW'N	2	6	43	95	8	-	-	-	0	0	-
Dungeness ...	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1010·8	+26	NW	3	m	43	95	4	5	-	-	4·6	4·6	800
Guernsey	173	1012·2	-4	-	0	6c	38	85	9	5	-	-	4·6	4·6	2500

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

STATIONS.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
Lerwick	1006·4	+16	-	0	6c	38	95	8	8	4	-	2-3	4·6	2500	/	•
Stornoway ...	1007·6	+4	W	/	6c	42	95	8	2	8	-	/	2-3	4000	5	/
Wick	1008·0	+10	WSW	2	6	42	85	8	4	-	/	Tr.	/	2500	5	2
Tiree	1008·5	0	SSW	4	c/pb	37	95	9	8	7	8	4·6	9+	1500	5	2
Nairn	1008·6	•	W	/	6c	39	85	8	-	4	/	0	2-3	-	4	•
Aberdeen	1010·3	+8	W	2	6	37	85	6	-	-	-	0	0	-	4	/
Malin Head ...	1007·8	-6	S	2	C	43	95	8	4	8	6	Tr.	9	5700	4	2
Renfrew	1011·2	+6	-	0	m	39	95	4	5	-	-	10	10	1500	4	•
Inchkeith (Edin.)	1010·9	0	SW	2	m	43	95	4	5	/	-	2-3	7-8	800	4	0
Leuchars	1010·9	+10	WSW	3	6	28	95	8	-	3	-	0	/	-	4	•
Eskdalemuir ...	1013·3	+6	-	0	m	48	95	4	5	-	-	10	10	4·50	4	•
Tynemouth ...	1011·5	+12	W	2	6cf	28	95	3	5	-	-	4·6	4·6	800	5	/
Blacksod Point ...	1003·5	-18	SE	5	O	41	85	7	5	-	-	10	10	220	0	4
Aldergrove ...	1010·4	-2	SE'E	3	6c	30	95	7	5	-	-	/	4·6	2500	4	•
Donaghadee ...	1010·3	0	WNW	/	6c	32	85	7	5	-	-	4·6	4·6	2500	0	0
Birr Castle ...	1007·8	+14	SSW	/	C	38	85	8	-	2	-	0	10	-	4	•
Holyhead	1011·4	+2	SE'S	4	6c	37	95	8	/	-	-	2-3	2-3	2500	/	/
Liverpool (Bidston)	1012·1	+2	SE'E	3	f	30	98	3	5	4	-	/	2-3	4000	0	•
Chester (Sealand)	1012·3	+4	SE	2	6	24	95	6	-	-	/	0	/	-	4	•
Harrogate	1012·7	+6	SW	/	6	28	85	8	/	-	/	Tr.	Tr.	4000	5	•
Spurn Head ...	1012·2	+8	WNW	2	F	30	95	/	-	-	-	-	-	-	5	2
Birmingham ...	1013·9	+10	-	0	F	31	95	/	5	-	-	10	10	4·50	7	•
Cranwell	1013·3	+20	WSW	2	F	28	95	/	-	-	-	-	-	-	4	•
Gorleston	1012·4	+20	WNW	3	f	29	95	2	-	-	-	-	-	2500	4	/
Valentia Obs. † ...	1002·3	-24	SE	6	C	47	85	8	5	2	-	7-8	9+	5700	/	•
Roches Point ...	1007·5	-14	SE	5	rr	40	95	7	6	-	-	10	10	800	/	5
Pembroke	1011·2	+2	E	3	C	41	95	8	/	8	-	2-3	7-8	4000	0	/
Ross-on-Wye ...	1013·7	+8	NW	/	6f	24	95	/	5	-	/	Tr.	Tr.	220	4	•
Leafield	1013·4	+10	WSW	/	fg	25	95	5	-	4	-	0	Tr.	-	4	•
Cardington ...	1013·5	+10	WSW	2	f	30	95	2	-	-	-	-	-	-	5	•
Winchester ...	1014·4	+6	-	0	6f	24	95	/	-	-	-	0	0	-	4	•
S. Farnborough ...	1014·0	+12	-	0	f	31	95	2	-	-	-	-	-	-	/	•
London (Kew) ...	1014·3	+12	-	0	f	32	95	/	-	-	-	-	-	-	/	•
Croydon	1013·8	+10	NW	/	f	32	95	0	-	-	-	-	-	-	/	•
Manston	1013·9	+16	-	0	4f	31	95	0	5	-	-	10	10	220	/	0
Shoeburyness ...	1013·0	+14	NW	4	f5	31	85	4	5	-	-	10	10	4·50	0	1
Clacton-on-Sea ...	1013·6	+20	NW	2	f	30	95	2	-	-	-	-	-	-	/	2
Felixstowe ...	1011·0	+4	SW	4	C	45	95	7	5	-	-	9	9	4000	/	2
Scilly (St. Mary's)	1013·1	+4	ENE	/	6c	38	95	7	2	3	-	2-3	4·6	4000	0	0
Falmouth	1013·0	+2	NE	2	6c	34	85	7	5	3	/	2-3	4·6	4000	4	/
Plymouth	1012·3	+10	NW	3	6c	37	75	8	4	-	-	4·6	4·6	2500	/	3
Portland Bill ...	1013·6	+10	N	/	6f	29	95	/	5	-	-	4·6	4·6	<150	0	0
Calshot, S'hampton	-	-	NW	2	f	-	-	0	5	-	-	10	10	150	-	1
Dungeness ...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	/	3
Lympne	1013·4	+10	NW	3	f	31	95	/	-	-	-	-	-	-	/	•
Guernsey	1014·2	+10	-	0	6c	35	85	9	5	-	-	4·6	4·6	2500	4	3

PAST 24 HOURS.

STATIONS.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 9th Hrs. (36)
Lerwick	43	37	•	2	/	0·4
Stornoway ...	39	30	•	0·1	0·4	•
Wick	39	31	•	0·5	-	•
Tiree	43	31	30	1	0·3	3·5
Nairn	35	28	•	-	-	3·1
Aberdeen	40	26	19	-	-	1·6
Malin Head ...	43	33	•	2	Tr.	1·9
Renfrew	28	19	13	-	Tr.	0·0
Inchkeith (Edin.)	41	30	30	-	-	2·9
Leuchars	40	26	22	Tr.	-	5·8
Eskdalemuir ...	(30)	15	10	-	-	0·6
Tynemouth ...	38	28	25	-	-	•
Blacksod Point ...	45	37	•	1	-	•
Aldergrove ...	37	24	20	0·1	Tr.	2·1
Donaghadee ...	39	28	•	-	-	•
Birr Castle ...	40	29	17	-	-	5·2
Holyhead	43	34	28	1	-	2·3
Liverpool (Bidston)	39	30	29	4	-	0·0
Chester (Sealand)	38	24	20	3	-	0·0
Harrogate	36	26	20	-	-	3·5
Spurn Head ...	40	30	•	-	Tr.	3·8
Birmingham ...	34	30	27	9	-	0·0
Cranwell	39	27	27	-	-	2·2
Gorleston	44	29	28	-	-	3·7
Valentia Obs. † ...	47	37	36	0·3	5	4·8
Roches Point ...	44	35	•	-	5	•
Pembroke	43	38	•	0·5	-	4·3
Ross-on-Wye ...	40	24	15	1	-	5·3
Leafield	36	22	12	1	Tr.	0·6
Cardington ...	34	30	30	3	/	1·1
Winchester ...	40	24	16	0·2	-	4·3
S. Farnborough ...	41	30	24	0·2	0·2	2·0
London (Kew) ...	39	32	30	0·3	Tr.	0·4
Croydon	39	32	34	0·3	0·1	0·0
Manston	41	34	•	-	•	•
Shoeburyness ...	44	30	30	-	0·1	2·6
Clacton-on-Sea ...	42	30	30	-	-	1·3
Felixstowe ...	40	29	29	-	-	•
Scilly (St. Mary's)	47	41	•	-	/	6·7
Falmouth	46	37	•	(3)	-	5·9
Plymouth	43	31	29	3	Tr.	2·6
Portland Bill ...	48	35	•	-	-	•
Calshot, S'hampton	42	28	19	0·3	-	5·4
Dungeness ...	43	31	•	13	Tr.	•
Lympne	39	31	27	2	Tr.	0·8
Guernsey	44	34	23	4	-	2·6

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
KEW	18	ofcm	cm,pcm	cmof	39	38	30	0·3	Tr.	0·4	•	•	/
CROYDON	244	bcmofffm	cm,or,	or,rsdmff	39	32	34	0·3	0·1	0·0	•	•	/
GREENWICH (Royal Observatory) ...	149	bofff	ofcdcm	cdmofm	38	32	24	Tr.	Tr.	0·0	84	99	/
CITY (Bunhill Row)	—	•	•	•	•	•	•	-	-	0·0	•	•	•
WESTMINSTER (St. James' Park) ...	27	•	•	•	41	32	29	-	-	0·0	•	•	•
REGENTS PK. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	•	•	•	•
CAMDEN SQUARE	110	fec	c	•	37	31	26	Tr.	-	•	•	98	•
KENSINGTON PALACE	80	ofcof	codr	•	38	31	29	0·2	0·1	•	At 18h. 94	•	•
HAMPSTEAD OBSERVATORY	450	bcmodm	ofof	•	37	27	25	0·3	0·1	0·3	94	•	94

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.
2·3	10h. 9h.	0·3	1h.-7h. 10h.

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
1·0	11h. 9h.	0·3	16h. 9h.

FOREIGN OBSERVATIONS.

STATIONS.	18h. G.M.T. 9th DECEMBER. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 10th DECEMBER. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS	1008·1	WSW	3	10r0	39	1014·9	W	2	m	36
BRUSSELS	1005·1	SSW	2	C	39	1012·6	WNW	/	C	36
BERLIN	1010·3	ESE	3	7	39	1010·4	SSE	/	f	34
ZÜRICH						1015·6	N	2	C/S	34
ROME	1013·9	SSW	3	C	52	1007·3	SW	/	c/pb	46

STATIONS.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
PARIS	45	36	/	0·6
BRUSSELS	41	34	/	/
BERLIN	39	34	0·1	-
ZÜRICH		32		2
ROME	61	46	-	23

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	1⅓	miles.
5	Poor visibility	2½	,,
6	Moderate ,,	6½	,,
7	Good ,,	12½	,,
8	Very good ,,	31	,,
9	Excellent ,,	beyond 31m.	

COLUMN 30.—Code for State of Sea.

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

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

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

† The observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 11th December 1930.

No. 25221

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

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)
Lerwick	1008.6	0	W	1	bc/pr	39	95	8	8	-	-	4-6	4-6	2500
Stornoway ...	1007.1	+6	SW	2	c	40	95	9	4	7	-	7-8	9+	4000
Wick	1009.3	+2	SW	3	bc	39	75	8	8	7	1	2-3	4-6	2500
Tiree	1006.3	-26	SSE	5	c	41	75	8	5	7	8	2-3	10	1500
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1010.8	-6	WNW	1	m	32	85	4	-	-	5	0	2-3	-
Malin Head ...	1005.5	-24	SSE	6	c	38	85	8	5	7	-	4-6	9+	4000
Renfrew	1012.1	+2	-	0	f	32	95	2	5	-	8	4-6	4-6	4000
Inchkeith (Edin.)	1011.9	-4	SW	1	m.	35	95	5	5	1	1	2-3	10	800
Leuchars	1011.8	-2	-	0	c	32	95	6	-	4	6	0	7-8	-
Eskdalemuir ...	1013.0	-8	-	0	c	30	95	6	5	-	1	9+	9+	1500
Tynemouth ...	1012.9	+4	WSW	1	f	33	85	2	5	4	-	4-6	4-6	800
Blacksod Point ...	1001.9	-16	SE	4	c	43	95	8	5	-	-	9+	9+	220
Aldergrove ...	1008.4	-14	SE'E	3	c	40	75	8	-	7	-	0	9+	-
Donaghadee ...	1009.2	-10	SW	1	c	41	85	8	5	-	6	4-6	7-8	2500
Birr Castle ...	1005.6	-16	SSW	1	c	44	85	7	5	-	-	9	9	2500
Holyhead	1010.7	-14	S'E	4	c	42	85	8	4	7	9	Tr	9+	1500
Liverpool (Bidston)	1012.0	-6	ESE	4	bc	32	95	5	-	-	8	0	2-3	-
Chester (Sealand)	1013.4	+4	SE'S	3	m.	33	95	6	-	-	1	0	2-3	-
Harrogate	1013.2	+6	-	0	f	35	75	3	5	-	1	1	2-3	<150
Spurn Head ...	1013.9	+4	W	1	m	33	95	4	5	-	2	9+	9+	2500
Birmingham ...	1014.1	-4	SSE	2	F	30	95	1	5	-	-	10	10	<150
Cranwell	1014.3	-6	-	0	F	29	95	1	5	-	-	10	10	<150
Gorleston	1014.4	+2	WNW	3	F	30	85	1	5	-	-	10	10	<150
Valentia Obs. ...	1003.0	+6	S'E	3	c/pr	51	95	8	5	-	-	9+	9+	800
Roches Point ...	1005.2	-12	SW	5	dd	47	95	6	5	-	-	10	10	800
Pembroke	1009.0	-10	SSE	4	q	47	95	8	1	7	-	1	9+	2500
Ross-on-Wye ...	1013.7	-4	NW	1	f-	30	95	3	-	5	-	0	7-8	-
Leafield	1014.2	+16	SEG NEW	3	F	27	95	0	-	-	-	0	0	-
Cardington ...	1015.1	-4	SWW	2	f	30	95	2	-	-	-	0	0	-
Winchester ...	1014.8	-6	E'S	1	c	36	95	6	-	3	1	0	7-8	-
S. Farnborough ...	1015.1	-2	SSE	1	F-	31	95	1	~~5~~	-	-	~~10~~	~~10~~	~~<150~~
London (Kew) ...	1015.8	0	WSW	1	F	33	95	1	5	-	-	10	10	<150
Croydon	1015.5	-2	SSW	1	F	32	95	1	5	-	-	10	10	<150
Manston														
Shoeburyness ...	1015.7	+4	NNW	1	F	32	95	1	5	-	-	10	10	<150
Clacton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe ...	1016.0	+10	NNW	2	f.	30	95	2	5	-	-	10	10	<150
Scilly (St. Mary's)	1007.9	-14	S'E	6	c	49	95	6	5	-	-	9+	9+	4000
Falmouth	1011.4	-4	SE'E	5	pr	48	75	7	5	-	-	10	10	4000
Plymouth	1012.0	-10	S	4	c	48	65	8	5	2	-	4-6	9+	2500
Portland Bill ...	1012.9	-12	SE	3	c	47	65	8	4	8	-	4-6	7-8	2500
Calshot, S'hampton	1015.0	-2	E'N	3	if	38	95	3	5	5	-	4-6	9	450
Dungeness ...	*	*	N	1	F	*	*	0	5	-	*	10	10	~~<150~~ (GSTED)
Lympne	1015.3	+2	SW	1	F	31	95	1	5	-	-	10	10	<150
Guernsey	1014.2	-4	SSE	1	c	47	75	8	5	-	-	9	9	2500

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

STATIONS.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
Lerwick	1008.9	+6	-	0	bc	38	95	8	8	-	-	2-3	2-3	2500	1	*
Stornoway ...	1004.1	-16	S	5	c	42	95	7	6	-	-	10	10	4000	1	3
Wick	1008.5	-4	SSW	3	bc	38	85	8	5	-	8	2-3	2-3	4000	4	2
Tiree	1003.1	-20	SE'S	6	rr	43	85	7	6	2	-	9	10	800	1	4
Nairn	1007.7	*	-	0	bc	31	85	8	5	1	-	2-3	4-6	4000	4	*
Aberdeen	1010.9	+2	SW	1	c	34	86	5	-	-	7	0	10	-	4	1
Malin Head ...	1001.3	-24	SSE	4	r.	41	95	5	6	2	-	7-8	10	1500	1	2
Renfrew	1009.7	-10	ENE	2	c/f	34	95	5	5	-	-	10	10	2500	4	*
Inchkeith (Edin.)	1010.8	-6	S	1	c	37	85	6	5	-	-	10	10	800	4	0
Leuchars	1011.1	-2	SW	1	m	27	95	4	5	7	-	2-3	9	4000	4	*
Eskdalemuir ...	1011.9	-4	-	0	c	29	95	6	5	-	-	10	10	1500	4	*
Tynemouth ...	1011.8	-2	SSW	2	m	32	95	4	5	-	-	4-6	4-6	800	4	1
Blacksod Point ...	998.9	-6	SE	4	rr	49	95	7	6	-	-	10	10	220	1	3
Aldergrove ...	1005.2	-18	SE'E	4	rr	43	95	6	6	-	-	10	10	2500	1	*
Donaghadee ...	1006.4	-12	S'W	4	ir	44	95	7	6	-	-	10	10	800	1	2
Birr Castle ...	1002.4	-10	S	1	o	47	95	7	5	-	-	10	10	2500	1	*
Holyhead	1008.0	-18	SSE	4	ir.	43	85	7	6	-	-	10	10	4000	1	2
Liverpool (Bidston)	1010.5	-8	ESE	4	f	31	95	3	5	-	-	10	10	800	4	*
Chester (Sealand)	1012.0	-12	SE'S	4	m	31	95	4	5	-	-	10	10	450	4	*
Harrogate	1013.5	0	SSE	1	F	27	95	1	5	-	-	10	10	<150	5	*
Spurn Head ...	1013.8	0	SW	2	F	29	95	1	5	-	-	10	10	<150	4	2
Birmingham ...	1013.2	-6	SE	2	F	30	95	1	5	-	-	10	10	<150	7	*
Cranwell	1014.3	-2	SSE	3	f-	29	95	2	5	-	-	10	10	<150	4	*
Gorleston	1015.6	+6	-	0	F	27	95	1	5	-	-	10	10	<150	4	1
Valentia Obs. ...	1001.0	-8	S'E	4	PR	49	95	6	5	-	-	10	10	800	1	2
Roches Point ...	1003.4	0	WSW	3	c	47	95	7	6	-	-	9+	9+	1500	1	5
Pembroke	1005.9	-14	SSE	4	dd	46	95	5	5	-	-	10	10	800	1	3
Ross-on-Wye ...	1012.0	-12	SE	2	m.	31	95	5	-	2	-	0	10	-	4	*
Leafield	1013.1	-6	SE	3	F	29	95	1	-	-	-	-	-	-	5	*
Cardington ...	1014.6	-4	S'E	2	f	31	95	3	5	-	-	10	10	<150	5	*
Winchester ...	1013.8	-6	E'S	2	bc	33	96	5	-	-	8	0	4-6	-	4	*
S. Farnborough ...	1014.5	-6	SSE	1	F	32	95	1	~~5~~	-	-	~~10~~	~~10~~	~~<150~~	1	*
London (Kew) ...	1015.7	0	SE	1	F	33	96	1	5	-	-	10	10	<150	1	*
Croydon	1015.4	0	-	0	F	30	95	0	5	-	-	10	10	<150	1	*
Manston																*
Shoeburyness ...	1015.8	+4	SSE	1	c/f	33	95	5	5	-	-	7-8	7-8	1500	1	*
Clacton-on-Sea ...	1016.3	+10	WSW	3	m	33	95	4	5	-	-	10	10	<150	0	1
Felixstowe ...	1016.2	0	W	2	F	32	95	1	5	-	-	10	10	<150	1	1
Scilly (St. Mary's)	1006.9	+4	W'S	3	c	50	95	7	5	-	-	9+	9+	4000	1	3
Falmouth	1008.8	-6	SSE	6	rr	48	95	6	6	-	-	10	10	2500	2	4
Plymouth	1010.1	-12	SSE	5	dd	46	95	7	6	-	-	10	10	1500	1	2
Portland Bill ...	1011.8	-4	SE'S	5	c	48	75	8	4	-	-	10	10	2500	0	3
Calshot, S'hampton	1014.0	-2	E	3	m	40	95	4	5	-	-	10	10	<150	1	2
Dungeness ...	*	*	NNE	2	F-	*	*	0	5	-	*	7-8	7-8	<150	*	1
Lympne	1015.9	0	-	0	f-	30	95	3	-	-	-	0	0	-	1	*
Guernsey	1012.6	-4	SSE	4	o	46	75	8	5	-	-	10	10	2500	0	4

PAST 24 HOURS.

STATIONS.	WEATHER. 7h.–13h. 10th. (37)	13h.–18h. 10th. (38)	18h. 10th. to 1h. 11th. (39)	1h.–7h. 11th. (40)
Lerwick	bc p. r	bc	bc	bcc
Stornoway ...	c	c	rrdd, p	odd
Wick	bc	bc	bccw	cu
Tiree	c	c	crr	r. r. c
Nairn	bc	bcx	bcx	cprs
Aberdeen	bxmz	bczc	cxc	cir, c
Malin Head ...	c	circm.	cid. m. m.	cid. mmcir
Renfrew	cmffx	bccffx	cm.	cm. r.
Inchkeith (Edin.)	cmmim.	cm. m.	oc	cir. o
Leuchars	cxm.	bcm. cmx	cxm	cxc d. m. c
Eskdalemuir ...	cx cx	cx	cx	cid.
Tynemouth ...	bcfff	bcfff	bcmif	bc cq
Blacksod Point ...	ir	ir	R	pr
Aldergrove ...	bcxc	crr m.	orrm.	or. r.
Donaghadee ...	bcc	coir	ourq	orrq
Birr Castle ...	cr. c	co	or.	or. RRo
Holyhead	bcc	cr. o	ir. cq. c	cq., RR
Liverpool (Bidston)	bmxbc	bcmf	rs. pc	corr
Chester (Sealand)	bcm. x	cmmx	omx ir	om. qrr
Harrogate	bxf	b. o FF	OFF	olr
Spurn Head ...	fc fm	cmFx	FFx fif	cmc
Birmingham ...	FF	oFF	OFor.	our rr
Cranwell	bFx	oFFx	Ofx Fx	OFxcm. pr.
Gorleston	cFFx	offx	offx	bccq
Valentia Obs. ...	cp. c	cp. r. c	r. r. ddrr	rr r. r. c
Roches Point ...	oradd	cdc	corr	orbcqc
Pembroke	cq.	cqoddm	oidq	ORrm
Ross-on-Wye ...	FF ofef	cfcm	cmoid.	orrd
Leafield	bcx	bcFFx	for	or
Cardington ...	fefe	fef	o	c
Winchester ...	bFFx	bcmcm.	bcm.	bccm.
S. Farnborough ...	offe	oFF	OFmo	orrm.
London (Kew) ...	oF	oFF	OFom	cr
Croydon	FF	oFbcfFx	OFFxcm.	cm. r.
Manston				
Shoeburyness ...	OFFx	Ffcm	cm	om. c
Clacton-on-Sea ...	ogmf	ofm	omcm	cmo
Felixstowe ...	oFF	FF	Fc	cq
Scilly (St. Mary's)	cir	codmc	crrf	orrfc
Falmouth	bccoir	am. rrq	orrm. q	orrm. q
Plymouth	xbcer.	cod. d.	od.d.	odrrRR
Portland Bill ...	bcc	c	ORRz.	ORRz.
Calshot, S'hampton	oFeFebcm	cFem. oFem	cpr.	corrRR
Dungeness ...	f	f	*	o
Lympne	FF	oFFx	bgbccm.	cm.
Guernsey	bcc	co	odrr	orRr

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS

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

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

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity; thus,
R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, solar halo. ☾, lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r, fair weather after rain; –, has decreased; +, has increased.

COLUMNS 8, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

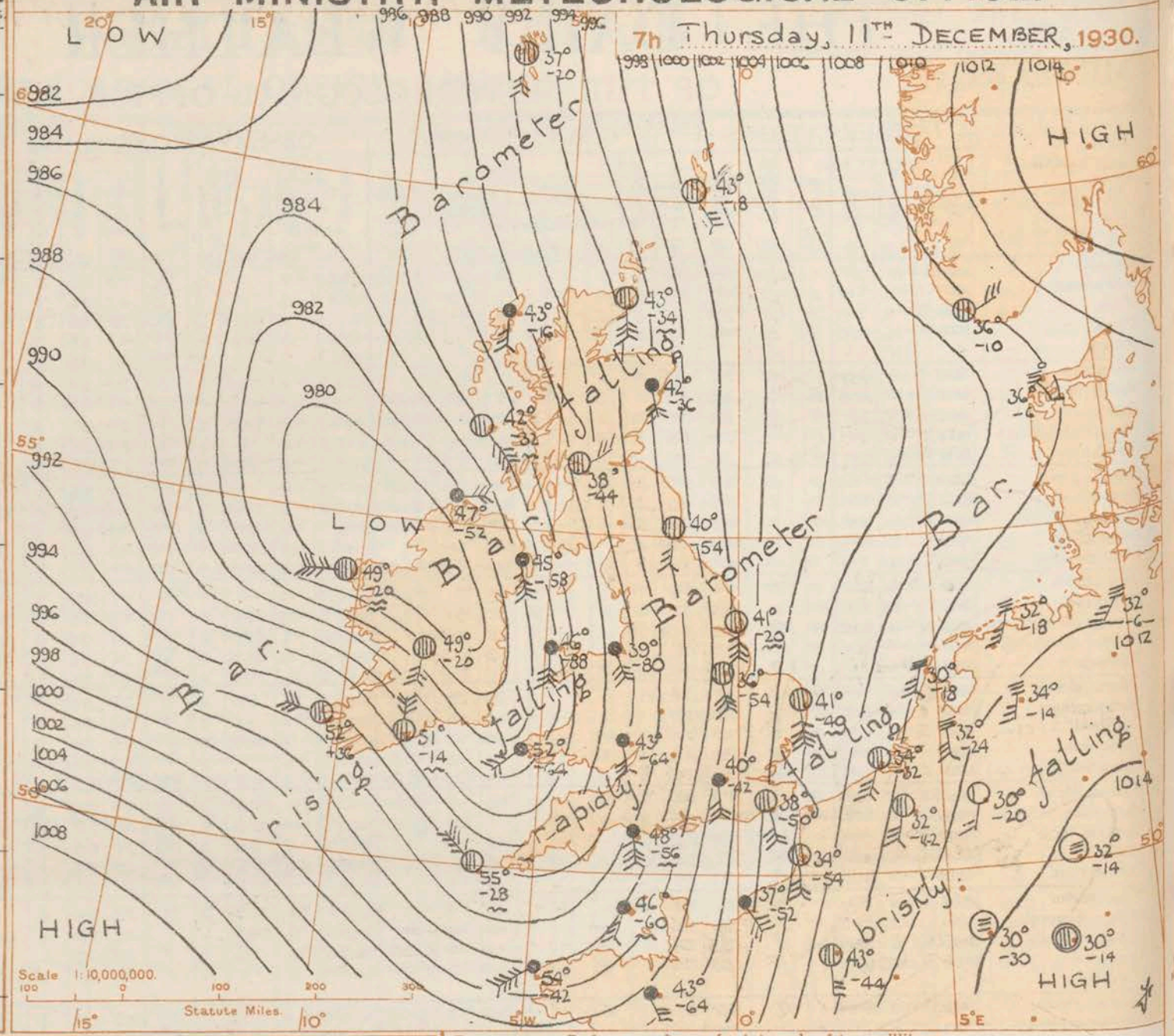
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

AIR MINISTRY. METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 10th December 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 9th to 9h. 10th	TEMPERATURE. Max. 9h.—17h. 10th	RAINFALL. Night, 17h. 9th to 9h. 10th	RAINFALL. Day. 9h.—17h. 10th	SUNSHINE. Sunrise to Sunset. 10th
Dunbar	bcx	bx	28	38	–	–	1.8
Berwick-on-T.	bc	co	25	31	–	–	1.2
Douglas	xcbbc	cbco	32	44	1	–	1.4
Llandudno	bc	c	31	41	Tr.	–	3.1
Colwyn Bay	xb	bo	33	42	1	–	3.1
Rhyl	bxbc	bcc	28	40	1	–	3.0
Wallasey	xmbc	bcc	30	36	–	–	1.0
Southport ‖	fombm	bmco	28	33	–	–	0.0
Blackpool	ome	co	26	35	–	–	0.0
Morecambe	fox	cexc	?	34	–	–	0.0
Ilkley	xof	of	23	30	–	–	0.0
Cleethorpes	xffc	coff	24	32	–	–	0.0
Mablethorpe	ffx	ffx	23	29	–	–	0.0
Skegness	oFx	oFx	25	30	–	Tr.	0.0
Aberystwyth	bcx	bcc	33	42	–	–	2.6
Bath	fbcb	bcc	24	37	–	–	3.0
Cheltenham †	bxmc	cmbc	25	{35	–	–	0.8
Leamington Spa	om	om	29	32	–	–	0.0
Lowestoft	f	f	26	29	–	–	0.0
Dovercourt	xf	F	28	31	–	–	0.0
Maldon	ff	fF	29	31	–	–	0.0
Southend	off	offc	30	?	0.4	Tr.	0.0
Ilfracombe	bcc	c	35	46	–	–	0.1
Bude	xcbcc	c6	30	47	–	–	0.6
St. Ives	o	coudr	33	49	–	14	0.0
Penzance	c	cirO	37	50	1	1	0.3
Torquay	boefx	cvfoq	29	48	–	–	0.6
Jersey	pcbc	bcc	33	46	Tr.	–	2.5
Weymouth	xcbvc	c	27	46	–	–	1.1
Bournemouth	b	co	26	43	–	–	4.0
Ventnor	xbz	bcv	33	47	–	–	5.2
Southsea	bfbcm	bFc	27	39	–	–	2.0
Bognor Regis	mmb	bbc	28	39	–	–	1.5
Littlehampton	bcfbc	bc	28	37	–	–	1.2
Worthing	foc	bc	31	37	Tr.	–	2.4
Brighton	fcbc	cf	30	35	–	–	1.1
Eastbourne †	f	f	30	07	–	–	0.0
Hastings †	ff	ofcmf	30	37	0.3	–	0.4
Folkestone	xcof	oF	30	34	–	–	0.0
Dover	fbcc	fco	31	36	–	–	0.0
Deal	fo	f	32	34	0.3	–	0.0
Tunbridge Wells	ofm	omf	29	33	–	–	0.0
Ramsgate	cof	of	33	35	–	–	0.0
Margate	c	cm	34	36	–	–	0.0

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



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 11th Dec., 1930.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Wind veering west, strong at times, reaching gale locally; weather improving decidedly, but occasional rain or showers: much milder.
5. S.W. England 6. South Wales 7. North Wales	Wind northwest to west, strong to gale; mainly cloudy, occasional rain; mild.
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind southeast, veering west or southwest, fresh or strong, reaching gale locally at first; dull, rainy at first with perhaps sleet locally; improving decidedly with only local rain or showers; becoming much milder.
13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland	Wind southeast, strong to gale, moderating later and becoming variable or southerly; dull, rainy with sleet locally, improving later; becoming somewhat milder.
16. Orkneys and Shetlands.	Southeast gale, severe at times; rainy, rather cold.
17. N.W. Ireland 18. N.E. Ireland 19 S.E. Ireland 20. S.W. Ireland	As 5-7.

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

GENERAL INFERENCE.

An intense depression centred off Northwest Ireland will move a little northeast or north while an associated trough swings round its southeastern side. Wind will reach gale force at exposed places. Rain will be general but an improvement will spread northeastward to most districts with a pronounced rise of temperature.

FURTHER OUTLOOK.

Unsettled and much milder than of late.

Time of issue of Gale Warning.

South cone at 0800 today in 1,2,5,6,7,8, 10,11,12,13A,13B,15,16,17,18,19,20.

Forecasts issued at 1000 G.M.T.

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

H.M. Stationery Office Press, Kingsway W.C.2.
P 2497/2165. 8c 26. D.6025. Gp. 808. 3/31. 12/30.

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

Morning of
Thursday,
11th DECEMBER,
1930.

LOW
HIGH.
LOW
HIGH.
LOW.
LOW.
LOW.
HIGH.
LOW
HIGH

Clarke's Projection Scale 1.4 x 10^7 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 the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thurs day 11th December 1930.

No. 25221

OBSERVATIONS at 1 hr. G.M.T. 11TH DECEMBER

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)
Lerwick	54	1004.8	-2.0	SE	5	bc	43	65	8	8	3	-	2.3	4.6	1600
Stornoway	34	996.4	-2.8	S	6	dd	43	95	6	6	-	-	10	10	4000
Wick	81	1000.3	-3.2	SSE	6	w	41	75	8	6	1	-	4.6	9	1500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51	991.4	-5.4	SSE	5	c/d	45	95	6	6	2	-	2.3	10	800
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	1004.4	-3.2	SE	3	C	37	85	7	5	8	-	4.6	7.8	1500
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	1005.3	-3.0	S	3	C	31	95	6	5	7	-	4.6	7.8	800
Blacksod Point	10	989.1	-4.2	SE	4	R R	48	95	7	6	-	-	10	10	4150
Aldergrove	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	999.1	-6.0	SSE	6	q	45	85	7	5	2	-	7.8	10	2600
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	1008.6	-1.2	SW	5	m	33	95	4	5	1	-	4.6	7.8	4150
Birmingham	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1008.7	-3.4	SE's	4	F	31	95	1	6	-	-	10	10	4150
Gorleston	14	1013.0	-2.2	SSW	2	b/f	33	95	6	-	-	-	0	0	-
Valentia Obs.†	30	999.8	-7.4	SW	5	RR	53	95	6	6	-	-	10	10	1500
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke	150	999.0	-3.2	S	4	ir.	50	95	7	3	-	-	10	10	1500
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew)	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1010.5	-3.6	SSE	4	z	39	85	6	5	2	-	4.6	10	1500
Manston	186	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1000.7	-3.0	SW's	5	rr	52	95	4	6	-	-	10	10	1500
Falmouth	200	1003.3	-1.2	S'W	4	rr	50	95	6	6	-	-	10	10	2500
Plymouth	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	1005.8	-3.2	SSE	6	RR	47	95	6	5	-	-	10	10	1500
Calshot, S'hampton	8	1008.6	-3.8	SE's	5	c/pr	45	75	7	5	7	-	4.6	10	2500
Dungeness	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1012.4	-1.8	SE's	4	z	40	95	5	5	2	-	7.8	10	1500
Guernsey	173	1007.8	-3.2	SSE	4	r.c.	44	95	4	6	-	-	10	10	1500

OBSERVATIONS at 7 hr. G.M.T. 11TH DECEMBER

STATIONS.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
Lerwick	1000.1	-1.8	SE	4	c	43	76	8	8	-	-	7-8	7-8	1500	0	*
Stornoway	988.4	-1.6	S	4	d. d.	43	95	6	6	-	-	10	10	4000	2	3
Wick	994.2	-3.4	SSE	7	w	43	85	7	3	1	-	7-8	9	1500	1	4
Tiree	985.2	-3.2	SE'E	7	c	42	95	6	5	2	-	9	10	1500	1	4
Nairn	990.8	•	—	0	c	38	85	8	3	-	-	7-8	7-8	4000	4	*
Aberdeen	996.2	-3.6	SSE	5	ir.	42	75	6	6	2	-	7-8	10	1500	1	2
Malin Head	980.6	-5.2	E	5	r r	47	95	6	6	2	-	9	10	800	1	3
Renfrew	990.8	-4.4	ENE	3	0	38	85	6	5	-	-	10	10	1500	1	*
Inchkeith (Edin.)	993.6	-4.0	E	3	0	37	95	7	5	-	-	10	10	800	0	1
Leuchars	994.4	-4.0	SE	4	i.d.	37	85	5	6	2	-	7-8	10	800	1	*
Eskdalemuir	992.3	-5.4	SSE	5	i.d.	37	95	6	5	-	-	10	10	1500	4	*
Tynemouth	996.2	-5.4	S	4	0	40	85	7	6	-	-	10	10	1500	1	2
Blacksod Point	979.4	-2.0	W	9	0	49	95	6	6	-	-	10	10	4160	2	7
Aldergrove	982.1	-7.2	E'S	5	r r	45	95	6	6	-	-	10	10	1500	1	*
Donaghadee	983.7	-6.8	SSE	7	r r	45	95	6	6	-	-	~~7-8~~ 10	~~7-8~~ 10	800	1	4
Birr Castle	982.3	-2.0	S	5	0	49	95	6	6	-	-	10	10	1500	1	*
Holyhead	984.1	-8.8	SSE	6	RR	46	95	*	6	-	-	10	10	4150	1	*
Liverpool (Bidston)	988.9	-7.0	E'S	6	r r	39	95	7	6	-	-	10	10	1500	1	*
Chester (Sealand)	990.4	-8.0	SE	6	r r	39	95	6	6	-	-	10	10	800	1	*
Harrogate	995.4	-6.0	SE	3	0	34	95	6	6	-	-	10	10	2500	4	*
Spurn Head	998.9	-2.0	S	7	c	41	85	6	3	2	-	4.6	10	2500	0	5
Birmingham	994.2	-6.0	SSE	5	r r	39	95	7	6	-	-	10	10	800	3	*
Cranwell	997.6	-5.0	SE	6	0	36	95	5	5	-	-	10	10	800	1	*
Gorleston	1004.4	-4.0	S	8	c	41	75	6	6	-	7	2.3	10	1600	0	4
Valentia Obs.†	993.1	+3.6	W'N	6	c	52	65	8	6	-	-	2+	2+	1500	1	-
Roches Point	989.3	-1.4	N	6	c	51	75	7	3	-	-	7-8	7-8	1500	0	5
Pembroke	984.9	-6.4	WSW	5	RR	52	95	4	6	2	-	7-8	10	1500	2	3
Ross-on-Wye	991.8	-6.4	S'E	4	d. d.	43	95	7	6	-	-	10	10	2500	1	*
Leafield	994.5	-6.6	SE's	6	RR	39	95	6	6	-	-	10	10	800	1	*
Cardington	993.2	-5.4	S'E	6	c	40	75	8	5	4	-	9+	10	2500	1	*
Winchester	996.8	-7.0	SE	6	r r	41	95	7	6	-	-	10	10	800	1	*
S. Farnborough	998.4	-5.8	SE	4	r r	40	95	5	6	-	-	10	10	450	2	*
London (Kew)	1000.3	-4.4	SSE	5	r	40	85	7	6	2	-	7-8	10	2500	1	*
Croydon	1001.9	-4.2	SSE	5	r. r.	40	85	6	9	2	-	7-8	10	1600	1	*
Manston	1002.9	-4.4	SSW	5	c	40	85	7	5	-	-	9	9	1500	0	*
Shoeburyness	1004.8	-5.4	SSE	6	c	41	85	7	5	2	-	2.3	10	800	0°	3
Clacton-on-Sea	1004.2	-6.0	SW S'E	7	c	40	85	7	6	1	-	7-8	10	800	1	1*
Felixstowe	998.7	-2.8	NWW	8	c	53	95	6	8	-	-	7-8	7-8	4000	1	5
Scilly (St. Mary's)	991.7	-1.4	WSW	7	r.c.	53	95	7	8	1	-	7-8	10	2500	2	4
Falmouth	999.6	-5.0	SW	5	dd	53	95	6	6	-	-	10	10	450	2	3
Plymouth	993.2	-5.6	SSE	8	RR	48	95	6	5	-	-	10	10	1500	2	5
Portland Bill	997.3	-5.8	SE'S	7	RR	43	95	7	6	-	-	10	10	800	1	3
Calshot, S'hampton	•	•	SSW	6	m	•	85	4	5	-	*	10	10	~~2500~~ 1500	*	3
Dungeness	1004.3	-5.0	SE's	5	z	38	~~95~~	6	5	2	-	4.6	10	~~2500~~ 1500	1	*
Lympne	995.7	-6.0	S	4	RR	46	95	6	6	-	-	10	10	1500	2	5
Guernsey																

PAST 24 HOURS.

STATIONS.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 10ths. Hrs. (36)
Lerwick	38	37	*	0.3	-	2.3
Stornoway	43	40	*	-	4	0.8
Wick	39	38	*	-	-	*
Tiree	43	47	33	1	2	0.1
Nairn	32	30	*	-	Tr.	2.7
Aberdeen	34	32	26	-	Tr.	~~3.1~~ 3.4
Malin Head	42	41	*	1	4	0.1
Renfrew	34	34	32	-	1	0.0
Inchkeith (Edin.)	37	36	33	-	0.1	0.0
Leuchars	~~37~~ 34	26	25	0.1	0.2	2.5
Eskdalemuir	31	28	27	-	0.2	0.1
Tynemouth	36	30	27	-	-	*
Blacksod Point	50	46	*	1	26	*
Aldergrove	43	42	41	2	15	0.2
Donaghadee	45	42	*	1	11	*
Birr Castle	47	46	44	Tr.	21	0.0
Holyhead	44	41	39	0.2	18	2.5
Liverpool (Bidston)	32	31	30	-	3	2.2
Chester (Sealand)	33	31	30	-	3	2.5
Harrogate	35	26	26	-	0.5	2.9
Spurn Head	34	28	*	-	-	0.8
Birmingham	31	29	29	-	2	0.0
Cranwell	31	29	29	0.3	0.1	0.0
Gorleston	31	25	24	-	-	0.0
Valentia Obs.†	52	48	47	1	15	0.9
Roches Point	49	47	*	4	6	*
Pembroke	48	45	*	0.2	26	0.0
Ross-on-Wye	31	31	27	-	7	1.1
Leafield	29	28	28	0.3	3	0.0
Cardington	31	30	30	0.1	Tr.	0.0
Winchester	38	32	29	Tr.	9	1.5
S. Farnborough	32	32	30	Tr.	1	0.0
London (Kew)	34	32	29	Tr.	0.1	0.0
Croydon	34	30	29	-	Tr.	0.0
Manston	38	31	28	Tr.	-	0.0
Shoeburyness	33	32	32	-	-	0.0
Clacton-on-Sea	33	31	31	-	-	0.0
Felixstowe	51	49	*	0.5	15	0.0
Scilly (St. Mary's)	49	48	*	2	13	0.3
Falmouth	49	46	45	Tr.	28	0.5
Plymouth	48	45	*	-	10	*
Portland Bill	41	40	39	0.2	6	1.8
Calshot, S'hampton	35	34	*	Tr.	-	*
Dungeness	32	28	25	0.1	-	0.0
Lympne	47	44	42	-	16	1.8
Guernsey						

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather Morning. (14 hrs. ended 9h.)	Weather Afternoon. (14 hrs. ended 9h.)	Weather Night. (14 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	OF	OFF	Ofomcr	34	32	29	Tr.	0.1	0.0	•	•	6
Croydon	244	FF	OFbc$f$r	OFFfcr.	34	30	29	-	Tr.	0.0	•	•	5
Greenwich (Royal Observatory)	149	OF	OFf	ofcdd	34	32	27	-	1	0.0	97	89	6
City (Bunhill Row)	—	•	•	•	•	•	•			0.0			•
Westminster (St. James' Park)	27	•	•	•						0.0	•	•	•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•	0.0			•
Camden Square	110	fe	f	•	34	33	30	-	3	•	At 18h. 92		•
Kensington Palace	80	of	of	•	33	33	28	-	2	•	98	87	•
Hampstead Observatory	450	of	of	•	33	30	29	0.3	3	0.0	•	89	•

FOREIGN OBSERVATIONS.

STATIONS.	18h. G.M.T. 10TH DECEMBER Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 11TH DECEMBER Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1017.8	SE	2	5	34	1008.9	S	2	c	34
Brussels	1016.8	SW	2	z	36	1010.3	S	4	c	31
Berlin						1011.7	NNW	2	c	37
Zürich	1019.0	N	1	c	34	1025.9	SW	1	m	28
Rome	1007.4	NNW	2	b	39	1007.7	NE	2	bc	30

Past 24 Hours.

	Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
Paris	43	34	-	-
Brussels	45	30	-	-
Berlin		36		-
Zürich	39	27	0.4	-
Rome	57	30	-	-

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
1.7	10-22h 10th	<0.3	1-8h 11th

Kew Observatory. Max.	Time.	Min.	Time.
1.6	21h 10th	0.1	0-7h 11th

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

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

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

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	64-76
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.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 12th December 1930.

No. 25222

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

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)
Lerwick	998.6	-4	SSE	4	c	43	65	7	5	2	-	4-6	7-8	1500
Stornoway	986.8	-10	SE	4	bc	45	95	6	3	2	-	9+	9+	4000
Wick	992.5	-12	SSE	8	c	44	75	7	9	-	-	10	10	1500
Tiree	986.4	+12	SEE	4	RR	41	95	6	6	-	-	10	10	800
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	993.2	-12	SE's	6	c/r	45	65	6	6	2	-	9	9	1500
Malin Head	984.2	+26	ESE	3	d.	46	95	5	6	2	-	9	10	800
Renfrew	988.2	-8	E	3	c/r	39	85	5	5	2	-	9+	10	1500
Inchkeith (Edin.)	990.9	-14	E	3	o	40	85	7	5	-	-	10	10	800
Leuchars	991.1	-14	SE	5	o	42	85	6	5	-	-	10	10	800
Eskdalemuir	987.7	-24	SE'E	5	r.	36	85	6	6	2	-	7-8	10	1500
Tynemouth	991.0	-24	SSE	7	ir	40	95	7	6	-	-	10	10	1500
Blacksod Point	992.4	+40	WNW	7	bc	50	75	7	8	-	-	4-6	4-6	<150
Aldergrove	983.6	+32	NE'N	2	dd	45	95	4	6	-	-	10	10	800
Donaghadee	982.0	+14	SSE	6	rr	46	95	6	6	-	-	10	10	800
Birr Castle	991.1	+58	SW	4	c	50	75	8	8	-	-	7-8	7-8	2500
Holyhead	984.4	+18	W'N	5	r.	50	95	6	6	-	-	10	10	450
Liverpool (Bidston)	984.5	0	ESE	4	o/r	41	95	5	6	-	-	10	10	1500
Chester (Sealand)	986.5	-6	SE'S	3	d.	42	95	5	5	-	-	10	10	800
Harrogate	990.3	-26	ESE	3	rs	35	95	5	6	-	-	10	10	2500
Spurn Head	990.6	-12	S'E	8	rr	39	95	6	6	2	-	7-8	10	2500
Birmingham	988.2	-22	SSE	2	ir.	40	95	4	6	-	-	9	9	1500
Cranwell	990.8	-24	SE	6	ss	33	95	4	6	-	-	10	10	450
Gorleston	996.1	-40	S'E	8	r.	41	95	6	6	-	-	10	10	800
Valentia Obs.	999.3	+26	W	5	c	51	75	8	5	3	-	7-8	7-8	2500
Roches Point	995.2	+20	N	8	c	51	75	8	3	-	-	7-8	7-8	1500
Pembroke	987.4	0	W	8	rr	50	95	6	6	2	-	7-8	9+	1500
Ross-on-Wye	987.6	0	W'S	4	o	49	85	8	6	-	-	10	10	2500
Leafield	988.3	-14	SSE	2	df	42	95	2	5	-	-	10	10	<150
Cardington	990.3	-28	SSE	5	rr	37	95	6	6	-	-	10	10	450
Winchester	989.4	-14	W'N	4	c	48	95	7	5	-	-	10	10	800
S. Farnborough	990.1	-30	S	4	dd.	42	95	5	6	-	-	10	10	450
London (Kew)	990.7	-34	SSE	4	c/r	41	85	6	5	-	-	10	10	2500
Croydon	991.9	-36	SSE	5	d.	39	95	5	6	-	-	10	10	800
Manston														
Shoeburyness	993.5	-46	S'E	7	rs	38	95	6	6	-	-	10	10	450
Clacton-on-Sea	*	*	S'E	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	995.7	-38	SWS	6	rr	37	95	6	6	2	-	9	10	450
Scilly (St. Mary's)	997.4	+14	NW'W	9	r.	53	85	6	8	-	-	4-6	4-6	4000
Falmouth	996.1	0	W	8	bc	53	85	7	3	-	-	4-6	4-6	4000
Plymouth	993.8	+4	NW	6	c	53	85	6	5	-	-	9	9	1500
Portland Bill	990.5	+12	W'N	7	c	52	75	7	4	6	-	7-8	9	1500
Calshot, S'hampton	989.7	-16	W	5	c	50	85	7	5	-	-	10	10	800
Dungeness	*	*	S	7	rr	*	*	4	6	-	*	10	10	1500
Lympne	993.9	-44	SE'S	6	r.	37	95	5	6	-	-	10	10	450
Guernsey	995.1	+18	WNW	6	q	54	65	7	5	-	-	4-6	4-6	2500

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

STATIONS.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
Lerwick	997.6	-2	S'E	5	c	44	65	7	8	2	-	7-8	9	1500	0	*
Stornoway	986.9	+6	SSW	3	rr	42	95	6	6	-	-	10	10	4000	2	2
Wick	991.4	-2	SSE	8	c	45	85	7	9	-	-	10	10	1500	1	5
Tiree	988.7	+12	S'E	3	rr	42	95	6	6	2	-	9	10	1500	1	3
Nairn	989.1	*	SE	1	r	42	85	7	6	-	-	10	10	800	1	*
Aberdeen	992.3	-2	SE	5	rr	43	85	6	6	-	-	10	10	800	1	3
Malin Head	990.0	+42	WNW	5	bcjp	48	85	7	3	-	-	2-3	2-3	1500	1	3
Renfrew	990.9	+24	NE	2	rs	35	95	5	6	-	-	10	10	1500	2	*
Inchkeith (Edin.)	991.1	+8	ESE	4	rr	38	95	7	6	-	-	10	10	800	1	3
Leuchars	991.0	+2	SE	5	r.	40	85	6	6	-	-	10	10	800	1	*
Eskdalemuir	990.3	+22	ESE	1	s.	34	95	6	6	-	-	10	10	1500	6	*
Tynemouth	990.8	+10	SSE	4	o	40	85	7	6	-	-	10	10	1500	1	4
Blacksod Point	996.1	+16	WNW	6	bc	48	85	7	8	-	-	4-6	4-6	<150	1	5
Aldergrove	992.0	+48	W'N	3	pr	46	85	7	6	-	-	9	9	800	1	*
Donaghadee	989.1	+36	NW	4	c	47	85	7	6	-	-	9	9	800	1	3
Birr Castle	996.9	+28	SW	2	bc	46	85	8	-	4	-	0	2-3	-	1	*
Holyhead	992.6	+64	NW	8	q	50	75	7	5	-	-	2-3	2-3	1500	1	5
Liverpool (Bidston)	989.0	+24	W	7	o/r	47	95	5	6	-	-	10	10	1500	2	*
Chester (Sealand)	990.5	+40	W'N	6	c/r	49	85	8	5	-	-	7-8	7-8	1500	2	*
Harrogate	991.5	+10	SSE	3	d.	34	95	4	6	-	-	10	10	<150	1	*
Spurn Head	991.5	+4	S	8	o	39	95	7	6	-	-	10	10	2500	1	6
Birmingham	992.1	+32	WNW	2	ir	45	95	4	6	-	-	10	10	800	1	*
Cranwell	992.9	+18	SE'S	4	d.	35	95	4	6	-	-	10	10	450	1	*
Gorleston	996.6	+10	SSE	8	r.	39	95	6	6	-	-	10	10	1500	1	5
Valentia Obs.	1002.1	+12	W'S	3	bc	50	85	8	5	-	-	4-6	4-6	1500	1	5
Roches Point	999.9	+40	NW	4	bc	50	75	8	5	-	-	4-6	4-6	2500	0	4
Pembroke	998.2	+24	WNW	4	bc	50	85	7	8	4	-	4-6	4-6	2500	1	4
Ross-on-Wye	993.8	+44	W	3	c	43	75	7	6	-	-	9+	9+	2500	1	*
Leafield	991.8	+26	WNW	5	ir.	46	95	7	6	-	-	10	10	800	1	*
Cardington	991.7	+14	SE'E	2	c	39	95	6	5	-	-	10	10	800	2	*
Winchester	993.0	+30	W	5	ir.	47	95	7	6	-	-	10	10	800	2	*
S. Farnborough	992.1	+22	W	2	dd	47	95	6	6	-	-	10	10	800	2	*
London (Kew)	992.5	+22	-	0	m	42	95	4	5	-	-	10	10	1500	1	*
Croydon	992.6	+14	SSW	3	m.	42	95	5	5	-	-	10	10	450	1	*
Manston																*
Shoeburyness	993.4	+10	SSE	6	rr	39	95	7	6	-	-	10	10	800	1	*
Clacton-on-Sea	993.8	0	SE	6	o	39	95	7	6	-	-	10	10	450	1	3
Felixstowe	994.9	+6	SSE	6	o/r	38	95	6	6	-	-	10	10	450	1	6
Scilly (St. Mary's)	1002.4	+24	NW'W	8	bc/pr	50	95	6	5	-	-	4-6	4-6	4000	1	5
Falmouth	1000.9	+12	W'N	6	c	50	95	7	4	-	-	7-8	7-8	4000	0	4
Plymouth	999.2	+34	NW	6	b	51	65	7	5	-	-	Tr.	Tr.	2500	1	3
Portland Bill	994.3	+24	W'N	7	c	52	75	8	4	-	-	9+	9+	2500	2	5
Calshot, S'hampton	993.2	+26	W	5	r.	48	85	7	6	-	-	10	10	800	1	3
Dungeness	*	*	SW	2	c	*	*	7	5	3	*	4-6	7-8	2500	*	3
Lympne	992.8	0	SE'E	3	m.	42	95	5	5	-	-	10	10	450	1	*
Guernsey	998.8	+36	NW	5	c	53	65	7	5	-	-	10	10	2500	2	5

PAST 24 HOURS.

STATIONS.	WEATHER. 7h.—13h. 11th (37)	WEATHER. 13h.—18h. 11th (38)	WEATHER. 18h. 11th to 1h. 12th (39)	WEATHER. 1h.—7h. 12th (40)
Lerwick	c	c	cbcc	c
Stornoway	c	orr	or.r	c, bc
Wick	c	c	orr	orrc
Tiree	ir.or	oRR	cRbcd.d.	id.
Nairn	c	cr	orrc	rc
Aberdeen	cir.	cor.r.	orr	orr.r.c,c
Malin Head	crrddmm	cDmcirbcpr	bcbpr	bcbrc
Renfrew	cmrs r.r.	cmr.ors	ors ssom	cbcm.
Inchkeith (Edin.)	oir	o	orrpsm.m.	omfcm.m.
Leuchars	cd.orro	orr ir. r.	or rrsrcm	or.r.cm.
Eskdalemuir	cid.rs	crs rss	osse	cbc
Tynemouth	oirq	oirq	orro	o
Blacksod Point	prbcq	pbcq	brqc	do
Donaghadee	cormrdm	cddfcpr	cbc	cbc
Birr Castle	or.rq	oir.c	bbcc	cid.c
Holyhead	orrq.c	cr.bc	bc	bcc
Liverpool (Bidston)	Rrq ir.	rcq	bccq	bcc
Chester (Sealand)	orrr.	orf rr	cqpr	bcq b
Harrogate	orrrr.m	d.r.f q.	cpr.bc	bc
Spurn Head	orhrrs	orsrdm	odir	bbcir
Birmingham	crr	cro	odpro	ocbc
Cranwell	orRr	modform	orc	cpr.
Gorleston	rrRRsrs	ossdd.	od.mm.	cbc.m.
Valentia Obs.	cqor.r.	o rr.q	ocq	oir.q
Roches Point	cp.c	cpcbc	c	cdc
Pembroke	cp.c	cbc	bccpc	cp.c
Ross-on-Wye	oirRr	rrbcq	bbcq	bccq
Leafield	rocо	ocor.o	coc	cbc
Cardington	oRR	d.cr	orcbc	bcc
Winchester	dRR	orrmocm	bc	b
S. Farnborough	oRRmrc	cor.idir.	crcbc	bccm.
London (Kew)	orrRRrrdmcdDcahm	oddrrc	cbcm.	
Croydon	crrcm.	odm	ofddom	om.bm.
Manston	or.RRcrrc	dcr.r.cm.	cod.d.cm.	cbcbmN
Shoeburyness	corsrsmq	oirsrrq	r.qc	bcc
Clacton-on-Sea	orr	orrdo	opdo	ocbc
Felixstowe	cqerrrrhrm	orrrr.m	om.r.	cbc
Scilly (St. Mary's)	cbcp.	bcpcp	bcc	cbcbw
Falmouth	oircbcq	bcqr	bcqc	cbc
Plymouth	oddcqm.	cbqr	baq	bbcm.
Portland Bill	oRRc	ciRc	c	c
Calshot, S'hampton	oRRrrqrm	cpfqpdrr	or.r.bw	bw, c
Dungeness	r	bc	*	bc
Lympne	cor.rmq	orrqom	obmoddf	ofcm.
Guernsey	oRcq	bcprc	bcbc	bcoq.

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

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

<, less than (for cloud height).

⊕, solar halo. ☾, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

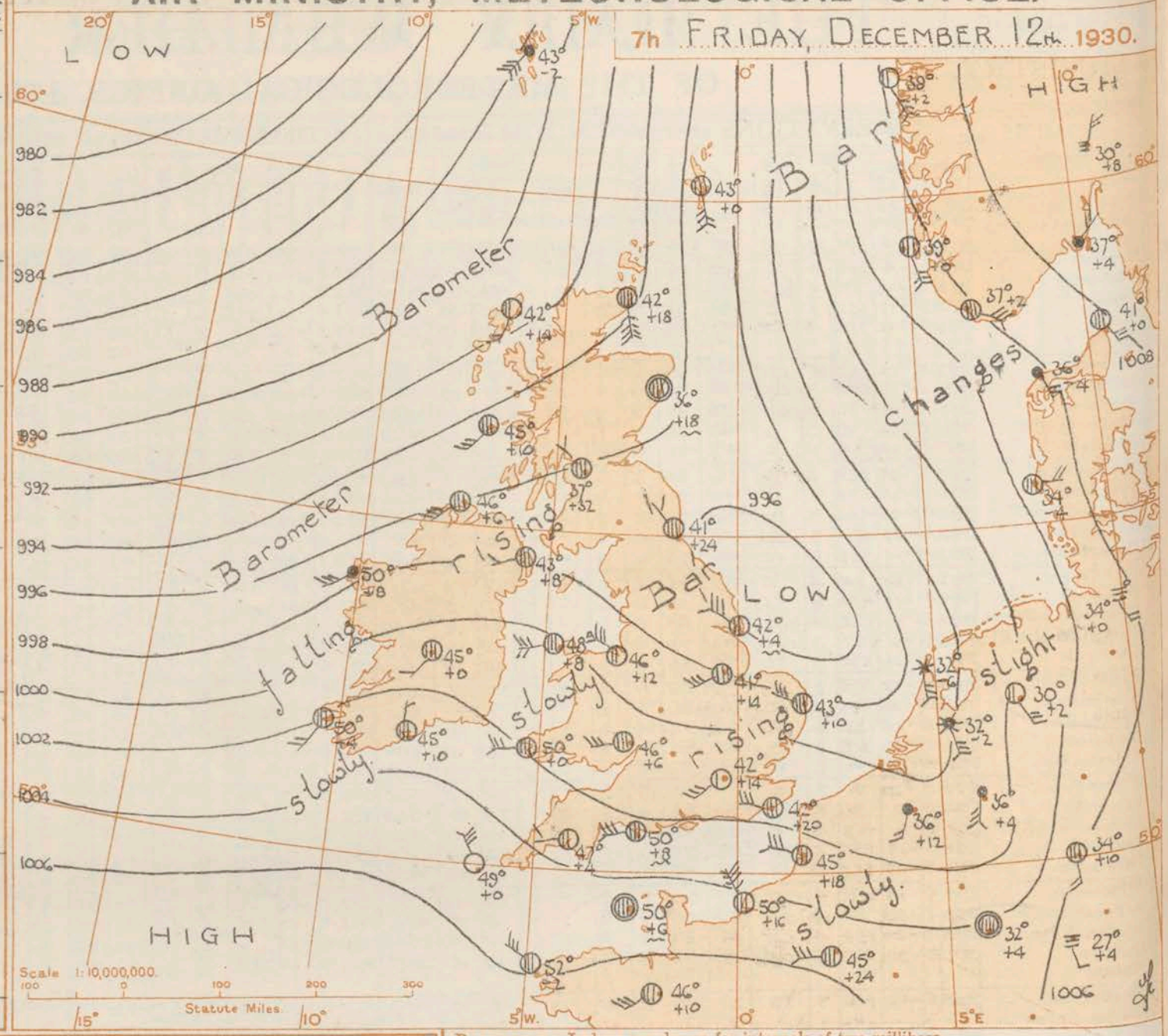
REPORTS from HEALTH RESORTS for 11th December 1930

Stations	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 10th to 9h. 11th.	Temperature. Max. 9h.—17h. 11th.	Rainfall. Night. 17h. 10th to 9h. 11th.	Rainfall. Day. 9h.—17h. 11th.	Sunshine. Sunrise to Sunset. 11th.
Dunbar	oy	or₀o	31	41	–	1	0.0
Berwick-on-T.	or₀	r₀o	26	41	0.3	1	0.0
Douglas	oqRm₀	RFoc	37	49	28	4	0.6
Llandudno	rod	oro	33	50	11	2	0.0
Colwyn Bay	rro	orro	36	50	8	4	0.0
Rhyl	orcrc	eogpr	29	49	9	4	0.0
Wallasey	oRr	rorr	30	48	13	7	0.0
Southport ‖	rr	doro	32	47	15	6	0.0
Blackpool	orr	oorr	32	41	17	3	0.0
Morecambe	rrcbc	rror	28	42	5	5	0.1
Ilkley	morrs	rod	23	36	3	12	0.0
Cleethorpes	orsr	rror	25	38	0.2	7	0.0
Mablethorpe	omrr	oroq	26	40	–	8	0.0
Skegness	o	oro	27	40	Tr.	5	0.0
Aberystwyth	coRr	circ	34	50	21	4	0.0
Bath	crc	ccrc	25	50	16	5	0.0
Cheltenham †	orro	ocor	29	48	11	3	0.0
Leamington Spa	or	o	29	43	11	5	0.0
Lowestoft	co	ir	35	41	–	2	0.0
Dovercourt	oc	rsoc	29	43	–	7	0.0
Maldon	rr	rr	30	38	0.3	12	0.0
Southend	or	or	30	41	Tr.	9	0.0
Ilfracombe	orr	or	40	54	24	6	0.0
Bude	cqo	qode	37	53	16	0.3	0.0
St. Ives	c	c	43	53	16	–	2.2
Penzance	bq	bcq	47	55	15	–	4.8
Torquay	orrqc	coprc	31	54	18	1	0.7
Jersey	rcbc	rc	43	54	17	2	0.8
Weymouth	rc	iroc	31	52	23	0.4	0.0
Bournemouth	rr	rr	28	51	23	3	0.0
Ventnor	orcou	ropor	40	50	10	3	0.2
Southsea	Roc	cdc	31	51	19	3	0.0
Bognor Regis	rr	rro	30	48	12	7	0.0
Littlehampton	cRc	c	30	48	10	12	0.0
Worthing	Ror	rorro	30	48	9	13	0.0
Brighton	rc	rc	31	48	7	16	0.0
Eastbourne †	rrr₀	r₀oc	38	48	4	13	0.0
Hastings †	oRro	roco	39	46	3	14	0.0
Folkestone	oco	hror	31	40	Tr.	9	0.0
Dover	ohrsr	or	31	40	–	9	0.0
Deal	ors	ro	30	39	–	11	0.0
Tunbridge Wells	orr	oodm	29	41	3	14	0.0
Ramsgate	crs	rso	32	39	–	10	0.0
Margate	crs	cr	30	39	–	8	0.0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h FRIDAY, DECEMBER 12th 1930.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 12th Dec. 1930.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Light or moderate westerly winds, backing and freshening; fair at first, some rain later; mild.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind backing southwest to west and freshening decidedly, perhaps a gale locally later; cloudy, rain at times; mild.
9. N. Midlands 10. N.E. England 11. S.E. Scotland	As 1 - 4.
12. S.W. Scotland & Isle of Man	As 5 - 8.
13. A. W. Scotld. B. N.W. Scotland.	Wind south to southwest, becoming strong to a gale; rain, heavy in places; mild.
14. Mid-Scotland	As 5 - 8.
15. N.E. Scotland 16. Orkneys and Shetlands.	Southerly winds, becoming strong to gale later; mainly fair at first, rain later; moderate temperature.
17. N.W. Ireland	As 13.
18. N.E. Ireland 19 S.E. Ireland 20. S.W. Ireland	Wind south to southwest, fresh or strong, perhaps gale locally later; cloudy, some rain; mild.

Barometer. Isobars are drawn for intervals of two millibars.
Wind. Arrows fly with the wind. Number of feathers indicate Beaufort force.
Temperature is given in degrees F. Calm, ⊙
Weather Symbols :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
Sea Disturbance ~~ Rough. ≈≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A large depression is centred near Iceland and a deepening secondary on the Atlantic will move east and then northeast off the Hebrides. Rain will spread eastward with strong south to southwest winds reaching gale locally in the west and north. Weather will be fair today in Eastern England.

FURTHER OUTLOOK.

Unsettled but some bright intervals; becoming colder again in the North after a brief mild period.

Time of issue of Gale Warnings.

V South Cone at 0800 on 11th in 5,6,7,8,12, 13A, 13B, 15,16,17,18,19,20.

Forecasts issued at 0950 G.M.T.

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

H.M. Stationery Office Press, Kingsway W.C.2
F 2497/2185 m 25 D.8026 Gp 808. 313/10. 12/30.

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

Morning of
FRIDAY,
12TH DECEMBER,
1930.

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 the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 12th December 1930.

No. 25222

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

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)
Lerwick	54	996.9	-2	SE	5	c	43	65	8	8	-	-	7-8	7-8	1500
Stornoway	34	989.1	+6	SW	1	c	43	95	6	6	-	-	10	10	4000
Wick	81	990.9	-6	SSE	8	rr	43	95	7	6	-	-	10	10	1500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51	993.5	+16	WNW	5	bc/pr	47	95	8	3	-	-	4-6	4-6	1500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	991.8	+6	W	2	r.r.	36	96	5	6	-	-	10	10	800
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	991.9	0	W	1	0	35	95	6	6	-	-	10	10	1500
Blacksod Point	10	997.6	+6	W	4	c	48	85	7	8	-	-	7-8	7-8	1150
Aldergrove	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	998.5	+16	W	6	c	48	85	7	5	-	-	7-8	7-8	1500
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	993.0	0	SWW	2	0	40	95	6	6	-	-	10	10	2500
Birmingham	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	995.2	+10	W's	3	0	43	95	6	6	-	-	10	10	1500
Gorleston	14	996.1	-4	SSW	3	r.r.	41	95	6	6	-	-	10	10	800
Valentia Obs.†	30	1000.9	0	SW	3	b	50	95	9	5	-	1	Tr.	Tr.	4000
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke	150	1000.4	+2	W	4	bc	50	95	8	3	6	1	2-3	4-6	1600
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew)	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	998.7	+24	W	3	c/d	47	75	6	5	2	-	7-8	10	1500
Manston	136	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1006.1	+10	WN	5	c	51	95	6	2	-	8	2-3	7-8	4000
Falmouth	200	1004.7	+4	WN	4	c	50	85	8	5	3	-	7-8	9	4000
Plymouth	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	1001.1	-10	WN	6	c	50	75	8	8	-	-	7-8	7-8	2500
Calshot, S'hampton	8	1000.0	+22	W's	4	b	46	85	7	5	-	-	2-3	2-3	4000
Dungeness	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	997.9	+22	NNW	2	§	42	95	2	5	-	-	10	10	150
Guernsey	173	1003.6	+10	NW	4	bc	50	75	7	5	-	-	4-6	4-6	4000

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

Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	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)
Lerwick	996.7	0	SE	6	c	43	75	7	8	2	-	7-8	9	1500	0	*
Stornoway	991.2	+14	SSW	2	bc	42	95	7	5	6	-	2-3	4-6	4000	2	1
Wick	993.2	+18	SSE	8	0	42	95	7	6	-	-	10	10	1500	1	5
Tiree	994.7	+10	SW	3	c/d	45	95	8	5	7	-	9	9+	4000	1	X3
Nairn	994.1	*	-	0	c	36	85	8	3	-	-	7-8	7-8	2600	1	*
Aberdeen	996.0	+18	-	0	c	36	95	6	6	-	-	9+	9+	1500	1	4
Malin Head	996.0	+6	WSW	3	c	46	95	8	4	6	-	1	7-8	4000	0	3
Renfrew	996.4	+22	NW	1	2	36	95	5	5	-	-	4-6	4-6	1500	6	*
Inchkeith (Edin.)	995.9	+12	WSW	1	2	38	95	5	5	-	-	7-8	7-8	800	1	0
Leuchars	996.7	+24	-	0	c	34	95	6	5	-	-	9+	9+	4000	1	*
Eskdalemuir	995.9	+14	S	2	c	37	95	6	8	-	-	7-8	7-8	1500	7	*
Tynemouth	996.6	+24	NW	1	c	41	95	7	5	-	-	7-8	7-8	1500	1	2
Blacksod Point	998.3	-8	E6E	3	r.r.	50	95	6	6	-	-	10	10	1150	1	3
Aldergrove	998.6	+8	SW's	4	c	42	95	7	5	7	-	1	7-8	2500	1	*
Donaghadee	997.3	+8	W	1	c	43	95	7	5	-	-	9	9	1500	1	0
Birr Castle	1000.8	0	SW	1	c	45	95	7	5	-	-	9+	9+	2500	1	*
Holyhead	1000.7	+8	W	5	c	48	85	8	5	-	-	9+	9+	2500	1	2
Liverpool (Bidston)	998.7	+10	W's	6	bc	48	95	8	5	3	-	1	2-3	2500	1	*
Chester (Sealand)	999.4	+12	WN	4	bc	46	85	7	5	3	-	2-3	4-6	4000	1	*
Harrogate	997.5	+10	WSW	2	bc	42	95	8	6	-	-	2-3	2-3	2500	1	*
Spurn Head	995.5	+4	WNW	4	bc	42	95	6	5	1	-	2-3	4-6	4000	1	4
Birmingham	1000.5	+8	W	3	bc/pr	43	85	8	5	-	-	2-3	2-3	4000	1	*
Cranwell	998.6	-14	WSW	3	c	41	95	6	5	-	-	7-8	7-8	2500	1	2
Gorleston	998.5	+10	WN	3	c	43	95	6	6	2	-	4-6	7-8	2500	1	*
Valentia Obs.†	1002.1	-4	SSW	2	c	50	95	7	5	-	-	9+	9+	1500	1	*
Roches Point	1003.1	+10	N	1	c	45	95	8	5	-	-	9+	9+	1500	1	3
Pembroke	1001.8	0	W	4	c	50	95	8	8	-	-	10	10	2500	1	3
Ross-on-Wye	1001.1	+6	W	3	c	46	75	8	5	2	9	4-6	7-8	4000	1	*
Leafield	1001.0	+10	SWW	3	c	40	96	7	5	-	-	9	9	5700	1	*
Cardington	1000.3	+24	W's	3	b	40	95	8	5	-	-	Tr.	Tr.	7200	2	*
Winchester	1002.6	+8	WSW	3	c	42	95	6	5	-	-	9	9	2500	1	*
S. Farnborough	1001.9	+16	W	2	bc	41	85	6	5	4	-	2-3	2-3	2600	2	*
London (Kew)	1001.4	+10	WSW	3	b	41	95	6	7	-	-	1	1	2500	1	*
Croydon	1001.7	+14	W's	3	2	42	85	6	5	-	-	1	1	4000	1	*
Manston	1000.8	+24	WSW	3	c	43	85	7	5	4	-	4-6	7-8	2500	1	*
Shoeburyness	999.6	+20	W	3	bc	43	95	7	2	-	-	4-6	4-6	1500	1	2
Clacton-on-Sea	1000.2	+20	WNW	3	c	43	85	7	5	-	-	7-8	7-8	4000	1	2
Felixstowe	1000.0	+4	NWW	4	b	49	96	7	-	-	-	0	0	-	1	2
Scilly (St. Mary's)	1005.3	+2	WN	3	bc	48	95	8	5	-	-	4-6	4-6	4000	0	1
Falmouth	1003.7	+4	W	1	2	47	96	6	5	3	6	1	4-6	4000	1	3
Plymouth	1002.8	+8	W	4	c	50	85	8	4	-	-	9	9	2500	1	4
Portland Bill	1002.7	+14	SW	3	c	44	85	7	5	-	-	7-8	7-8	4000	0	1
Calshot, S'hampton	1001.5	+20	WSW	2	bc	*	*	7	-	7	*	0	4-6	-	*	1
Dungeness	1001.5	+20	WN	3	c	42	85	7	5	-	-	7-8	7-8	4000	1	*
Lympne	1000.0	+6	-	0	0	50	85	7	5	-	-	10	10	1500	1	4
Guernsey	1003.2	+12	WNW	3	bc	48	85	8	5	-	-	10	10	1500	1	4

PAST 24 HOURS.

Stations.	Temperature. Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 11.7h Hrs. (36)
Lerwick	44	43	*	-	-	0.0
Stornoway	46	40	*	3	0	0.0
Wick	45	40	*	-	5	*
Tiree	42	42	36	15	4	0.0
Nairn	42	36	*	0.3	10	0.0
Aberdeen	45	36	35	1	17	0.0
Malin Head	48	45	*	7	1	0.0
Renfrew	39	31	26	6	4	0.0
Inchkeith (Edin.)	40	34	33	2	6	0.0
Leuchars	42	33	31	5	7	0.0
Eskdalemuir	37	32	32	2	6	0.0
Tynemouth	41	34	32	3 R	12	*
Blacksod Point	51	46	*	1	1	*
Aldergrove	46	39	34	7	Tr.	0.1
Donaghadee	47	40	*	2	0.2	*
Birr Castle	50	43	33	2	-	0.7
Holyhead	51	47	43	8	-	0.0
Liverpool (Bidston)	47	44	41	14	Tr.	0.0
Chester (Sealand)	49	45	42	11	Tr.	0.0
Harrogate	35	34	32	3	3	0.0
Spurn Head	41	38	*	5	0.1	0.0
Birmingham	35	41	38	14	1	0.0
Cranwell	37	35	35	13	2	0.0
Gorleston	41	39	33	2	0.4	0.0
Valentia Obs.†	52	47	44	0.3	Tr.	1.3
Roches Point	52	43	*	Tr.	1	*
Pembroke	53	48	*	3	-	0.4
Ross-on-Wye	50	45	40	8	-	0.0
Leafield	46	40	35	17	1	0.0
Cardington	40	38	34	17	1	0.0
Winchester	49	41	37	17	0.4	0.0
S. Farnborough	41	40	34	18	1	0.0
London (Kew)	42	41	34	10	1	0.0
Croydon	42	42	36	22	0.3	0.0
Manston	40	38	37	7	0.2	0.0
Shoeburyness	41	39	38	12	0.5	0.0
Clacton-on-Sea	42	38	37	7	0.2	0.0
Felixstowe	54	49	*	0.1	Tr.	3.3
Scilly (St. Mary's)	54	48	*	0.1	-	4.5
Falmouth	54	45	44	0.1	-	1.1
Plymouth	53	49	*	4	-	*
Portland Bill	51	44	39	10	0.5	0.0
Calshot, S'hampton	47	42	*	9	Tr.	*
Dungeness	42	40	36	11	0.4	0.0
Lympne	54	50	43	8	0.1	1.3

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	crr cm.	o dm	o f d dm	42	41	34	10	1	0.0	•	•	5
Croydon	244	or RR crr	c d r r m	c d d c m	42	42	36	22	0.3	0.0	•	•	6
Greenwich (Royal Observatory)	149	crr	c r d. c	c d f c m	42	40	31	8	0.3	0.0	91	86	4
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Park)	27	•	•	•	45	39	31	•	8	0.0	86	89	•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•	•	•	•	•
Camden Square	110	or	c o r o	•	41	40	31	9	-	•	•	92	•
Kensington Palace	80	o r c o	o d r	•	42	39	29	9	1	•	At 18h. 93	89	•
Hampstead Observatory	450	o f o r m	o f	•	43	37	27	12	0.3	0.0	•	90	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington.

Max.	Time.	Min.	Time.
2.3	7th. 11th.	0.3	1-7h. 12th.

Kew Observatory.

Max.	Time.	Min.	Time.
1.3	22h. 11th.	0.1	1-5h. 12th.

FOREIGN OBSERVATIONS.

18h. G.M.T. 11th. December.

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	999.1	SW	1	d. d.	37
Brussels	999.4	SSE	4	c	34
Berlin	1006.5	NNW	1	i d.	36
Zürich	1005.1	SE	1	bc	30
Rome	1005.4	NNW	1	b	37

7h. G.M.T. 12th. December.

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
1004.6	WNW	2	c	46
1001.2	SSW	2	r.	36
1007.3	ESE	1	§	37
1008.7	S	2	s. s.	30
1001.3	NNE	4	b	34

Past 24 Hours.

Stations.	Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
Paris	37	34	6	2
Brussels	?	32	-	1
Berlin	?	36	0.1	0.2
Zürich	37	27	-	Tr.
Rome	54	34	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 13th December 1930.

No. 25223

OBSERVATIONS at 13h. G.M.T. 12th December

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)
Lerwick	997·2	-2	S'E	5	c	43	75	7	5	2	–	4-6	9+	1500
Stornoway	990·5	-10	S	5	r	47	95	7	3	1	–	9	10	4000
Wick	995·2	+4	SSE	6	c	43	95	8	9	–	–	9+	9+	1500
Tiree	992·0	-32	SSE	4	o/d	47	95	6	5	–	–	10	10	800
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	998·3	+2	SSE	3	c	43	95	6	6	2	–	9	10	1500
Malin Head	993·3	-20	S	5	c	48	95	6	5	8	–	9	9+	2500
Renfrew	998·3	+2	NNE	1	cf-	41	95	2	5	–	–	7-8	7-8	5700
Inchkeith (Edin.)	998·6	+2	WSW	1	m	40	95	4	5	–	–	10	10	800
Leuchars	998·8	+2	NW	1	c	38	95	6	5	3	–	4-6	7-8	4000
Eskdalemuir	998·3	+4	S	2	c	41	95	7	4	–	–	9+	9+	1500
Tynemouth	1000·5	+16	NNW	1	c	42	95	6	6	–	–	7-8	7-8	1500
Blacksod Point	993·4	-32	SW	5	r$_o$	51	95	7	6	–	–	10	10	<150
Aldergrove	997·5	-14	SSE	4	o	46	95	6	5	–	–	10	10	800
Donaghadee	997·2	-8	W	1	bc	48	85	8	7	–	9	4-6	4-6	4000
Birr Castle	997·4	-12	SSW	1	o	50	95	7	6	–	–	10	10	2500
Holyhead	1001·7	0	SW	4	b	51	85	6	–	3	–	0	1	–
Liverpool (Bidston)	1000·5	0	W'S	4	b	48	85	7	7	–	–	Tr	Tr	4000
Chester (Sealand)	1001·3	-2	WSW	2	bc	51	65	7	5	3	–	2-3	4-6	5700
Harrogate	999·6	+10	SW	1	b	46	85	8	6	–	–	Tr	Tr	2500
Spurn Head	998·0	+4	NWW	5	c	45	95	6	5	7	–	7-8	10	4000
Birmingham	1002·2	0	W	3	bc	48	75	7	1	4	–	1	2-3	4000
Cranwell	1000·3	+2	W'S	4	bc	45	85	6	7	–	–	4-6	4-6	4000
Gorleston	999·9	+4	W'N	3	c	45	95	6	5	–	–	10	10	2500
Valentia Obs.	998·0	-34	S'E	4	d$_o$d$_o$	51	95	4	5	–	–	10	10	220
Roches Point	1001·4	-12	SW	3	id$_o$	50	95	6	5	–	–	10	10	800
Pembroke	1001·7	-6	SW	8	c	51	95	7	4	6	–	4-6	9	2500
Ross-on-Wye	1002·5	+4	W'S	2	a	50	75	8	5	3	–	4-6	7-8	4000
Leafield	1002·5	0	W'S	4	c	47	95	7	5	–	–	7-8	7-8	4000
Cardington	1002·0	+2	W'S	3	c	49	75	7	4	3	–	4-6	7-8	7200
Winchester	1003·3	-4	WSW	3	c	48	85	7	5	–	–	9	9	4000
S. Farnborough	1003·1	-2	W'S	2	c	49	85	7	5	–	–	9+	9+	2500
London (Kew)	1003·0	-6	W	3	c	49	65	6	5	5	–	2-3	7-8	2500
Croydon	1003·3	-2	W'S	3	c	49	75	6	4	7	–	4-6	7-8	4000
Manston	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	1002·4	+2	W	3	m	47	85	4	–	–	–	0	0	–
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1001·8	+4	W'N	2	bc	47	75	6	5	–	–	4-6	4-6	4000
Scilly (St. Mary's)	1005·8	-4	WSW	3	c	53	95	7	5	–	8	4-6	7-8	4000
Falmouth	1005·9	-2	WSW	4	c	52	85	7	2	5	–	4-6	7-8	4000
Plymouth	1006·3	+12	W	3	bc	52	85	6	7	–	–	4-6	4-6	1500
Portland Bill	1004·0	+2	W	4	bc	51	85	7	4	1	–	4-6	4-6	2500
Calshot, S'hampton	1003·7	-4	WSW	3	c	51	75	7	5	4	–	7-8	9	4000
Dungeness	*	*	W	2	c	*	*	7	5	6	*	2-3	7-8	4000
Lympne	1002·9	+2	WSW	2	c	45	85	6	4	3	–	4-6	7-8	4000
Guernsey	1006·4	0	W	1	c	53	75	7	5	–	–	7-8	7-8	2500

OBSERVATIONS at 18h. G.M.T. 12th December

Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	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)
Lerwick	995·4	-20	S'E	6	c	44	75	7	5	2	–	4-6	10	1500	0	*
Stornoway	985·5	-20	S	6	dd	47	95	6	6	–	–	10	10	4000	2	4
Wick	992·3	-34	SSE	8	c	44	95	7	9	8	–	7-8	7-8	1500	0	5
Tiree	985·0	-52	SE'S	6	RR	48	95	6	6	–	–	10	10	800	1	4
Nairn	990·1	*	SW	2	c	42	95	8	5	–	–	7-8	7-8	1500	1	*
Aberdeen	996·2	-12	SSE	4	c	44	75	8	6	2	–	7-8	10	1500	1	2
Malin Head	984·6	-64	S	7	ir	51	95	7	6	2	–	4-6	10	1500	1	4
Renfrew	994·3	-22	SE	3	ir	43	95	6	6	–	–	10	10	1500	1	*
Inchkeith (Edin.)	995·5	-12	ESE	3	o	41	95	7	5	–	–	10	10	800	0	1
Leuchars	996·2	-14	E	2	c	41	95	6	5	–	–	10	10	2500	1	*
Eskdalemuir	996·2	-20	S'E	3	c	41	95	6	5	–	–	10	10	1500	1	*
Tynemouth	999·2	+6	SW	2	f	42	95	3	6	–	–	10	10	1500	1	2
Blacksod Point	986·7	-40	SE	7	rr	52	85	6	6	–	–	10	10	<150	2	5
Aldergrove	990·3	-38	SE'S	4	ir	48	95	5	6	–	–	10	10	450	1	*
Donaghadee	991·7	-40	SSW	3	c	48	95	7	6	–	–	9	9	800	1	2
Birr Castle	991·7	-24	SSW	1	o/r	52	95	7	6	–	–	10	10	2500	1	*
Holyhead	997·7	-30	S	5	ir$_o$	50	95	6	6	–	–	10	10	1500	1	2
Liverpool (Bidston)	998·6	-8	SSE	4	o	46	85	6	5	–	–	10	10	4000	0	*
Chester (Sealand)	999·6	-16	SSE	2	ir$_o$	45	85	7	6	–	–	9+	9+	2500	1	*
Harrogate	999·8	+6	–	0	b	40	95	5	–	–	–	•	0	–	1	*
Spurn Head	1000·0	+6	W	2	bc	41	95	5	5	2	–	2-3	2-3	1500	0	3
Birmingham	1001·9	-6	SW	2	bc	44	85	7	5	–	–	2-3	2-3	4000	1	*
Cranwell	1001·4	+6	WSW	3	b	41	95	5	–	3	–	0	Tr	–	1	*
Gorleston	1001·5	+10	W'S	2	c	45	85	6	4	–	–	10	10	2500	0	1
Valentia Obs.	990·5	-46	S	6	d$_o$d$_o$	54	95	6	5	–	–	10	10	450	1	4
Roches Point	996·0	-42	SW	5	df	50	95	3	5	–	–	10	10	220	1	5
Pembroke	999·0	-20	S	4	c	50	95	8	5	–	–	9+	9+	1500	1	3
Ross-on-Wye	1001·6	-10	SW	3	o	48	85	6	5	–	–	10	10	2500	1	*
Leafield	1002·5	0	S'W	3	bc	42	95	7	5	8	–	4-6	4-6	4000	1	*
Cardington	1002·8	-2	WSW	4	b	38	95	6	4	–	–	1	1	5700	2	*
Winchester	1003·3	+2	SSW	1	c	44	95	6	5	–	–	9+	9+	4000	1	*
S. Farnborough	1003·7	+4	WSW	1	c	40	95	7	5	–	–	9	9	2500	2	*
London (Kew)	1003·8	+6	SW	2	b	43	95	6	–	–	–	0	0	–	1	*
Croydon	1004·0	+2	SW	3	b	45	85	6	–	3	–	0	Tr	–	1	*
Manston	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	1003·8	+8	WSW	2	b	45	85	6	–	–	–	0	0	–	1	*
Clacton-on-Sea	1013·0	+10	WNW	3	c	44	85	7	5	–	–	7-8	7-8	1500	0	1
Felixstowe	1003·2	+10	NSW	2	c	44	85	6	5	–	–	10	10	2500	1	2
Scilly (St. Mary's)	1001·9	-22	SW'S	6	id$_o$	51	95	5	5	–	–	10	10	1500	1	3
Falmouth	1003·5	-6	SW'S	5	o	50	95	7	5	–	–	10	10	4000	0	2
Plymouth	1003·9	-8	SW	4	c	51	95	6	6	–	–	9+	9+	1500	1	2
Portland Bill	1004·0	0	NSW	4	c	51	85	7	4	1	–	4-6	7-8	2500	1	4
Calshot, S'hampton	1004·3	+2	SW'S	3	c	47	85	7	5	4	–	4-6	7-8	4000	0	1
Dungeness	*	*	W	3	c	*	*	6	4	4	*	4-6	7-8	4000	*	*
Lympne	1004·0	+8	WSW	3	bc	43	95	6	–	5	–	0	2-3	–	1	*
Guernsey	1005·2		WSW	2	c	50	85	7	5	–	–	10	10	1500	3	1

PAST 24 HOURS. WEATHER.

Stations. (For heights see p. 4.)	7h.—13h. 12th (37)	13h.—18h. 12th (38)	18h 12th to 1h. 13th (39)	1h.—7h. 13th (40)
Lerwick	c	c	coir	oir$_o$r$_o$
Stornoway	ciror	id, dd	irRr	oRrbc
Wick	crr	c	crrc	crrc
Tiree	coid$_o$m$_o$	oirRrr$_o$	oRcoRR	oRd$_o$dpr$_o$q
Nairn	cbc	bcprc	cpr	prbc
Aberdeen	cm	c	coRR	RRc
Malin Head	cbccz$_o$	crr	cRbcpr	bcprbc
Renfrew	cffbcff	ffcorm$_o$	or Rmrr	orrm$_o$bc
Inchkeith (Edin.)	cummpmm	ocmmfm$_o$m$_o$	orrc	cirb
Leuchars	cbcm$_o$	bccm$_o$	cprr	oRR
Eskdalemuir	bcc	c	~~oRRbc~~	~~oRcRR~~
Tynemouth	c	coff	oifoirq	oir$_o$
Blacksod Point	ro	prq	pcq	prlq
Aldergrove	bcd$_o$bco	oorrir	RRc	cprbc
Donaghadee	cbc	borrc	pr$_o$bc	irbcb
Birr Castle	co	oir$_o$	orrc	cir
Holyhead	cbccm$_o$	b$_o$cm$_o$rr$_o$	crr, KqR	r$_o$cq$_o$
Liverpool (Bidston)	bcccb	bbco	PRbc	iRcb
Chester (Sealand)	bc	bccm$_o$	cir$_o$	~~Kq Rz~~
Harrogate	bcb	b	bm	cbP
Spurn Head	bc	cbc	bcc	cprcrr
Birmingham	cbc	bc	bcc	coiRqb
Cranwell	bcm$_o$c	bm$_o$cb	bm$_o$cm$_o$	cm$_o$r$_q$r$_o$
Gorleston	cm$_o$m$_o$	cm$_o$m$_o$	cm$_o$bcbcm$_o$	orrq
Valentia Obs.	cod$_o$d$_o$	od$_o$d$_o$	d$_o$r$_o$r$_o$	rphpq
Roches Point	coid$_o$	odfdf	~~OFFfc~~	crrc
Pembroke	cm$_o$	cq	oidrrm	orrcq
Ross-on-Wye	cbcc	bcobco	ocod$_o$	oRqrcb
Leafield	cbc	cbc	bcb	bccrq
Cardington	bcc	bcbm$_o$	bm$_o$c	orrbc
Winchester	cm$_o$bcc	cbm$_o$cm$_o$	cm$_o$	orr Rq c
S. Farnborough	bcm$_o$c	cb	cbco	orKqRbc
London (Kew)	b, cz	bcbm$_o$	bm$_o$bcm$_o$	bcmcKqr
Croydon	bbccm$_o$	bczbm$_o$	bcm$_o$c	cod RRm
Manston				
Shoeburyness	cmbcm	bcm$_o$bm$_o$	cpbm$_o$	crr
Clacton-on-Sea	bc	bccm	cbcbm	bmcorr
Felixstowe	bcx	bczcz	cbc	corr
Scilly (St. Mary's)	bbcc	codm	odifr	orcbcp
Falmouth	bc	bcco	om$_o$rrq	orcbcq
Plymouth	bbcm$_o$	bccm$_o$	com$_o$d$_o$	orr$_o$qb
Portland Bill	cbc	bbc	crroRz$_o$	oRRcbc
Calshot, S'hampton	cm$_o$bc	cbcm$_o$c	bcwc	DDRrrm$_o$
Dungeness	bc	bc	c	r
Lympne	bcbcm$_o$	bcbm$_o$	bcm$_o$	cod$_o$m$_o$rr$_o$
Guernsey	odbcc	c o	codd	oPRc

KQRG

odfofgrc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

<, less than (for cloud height).

⊕, solar halo. ☿, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

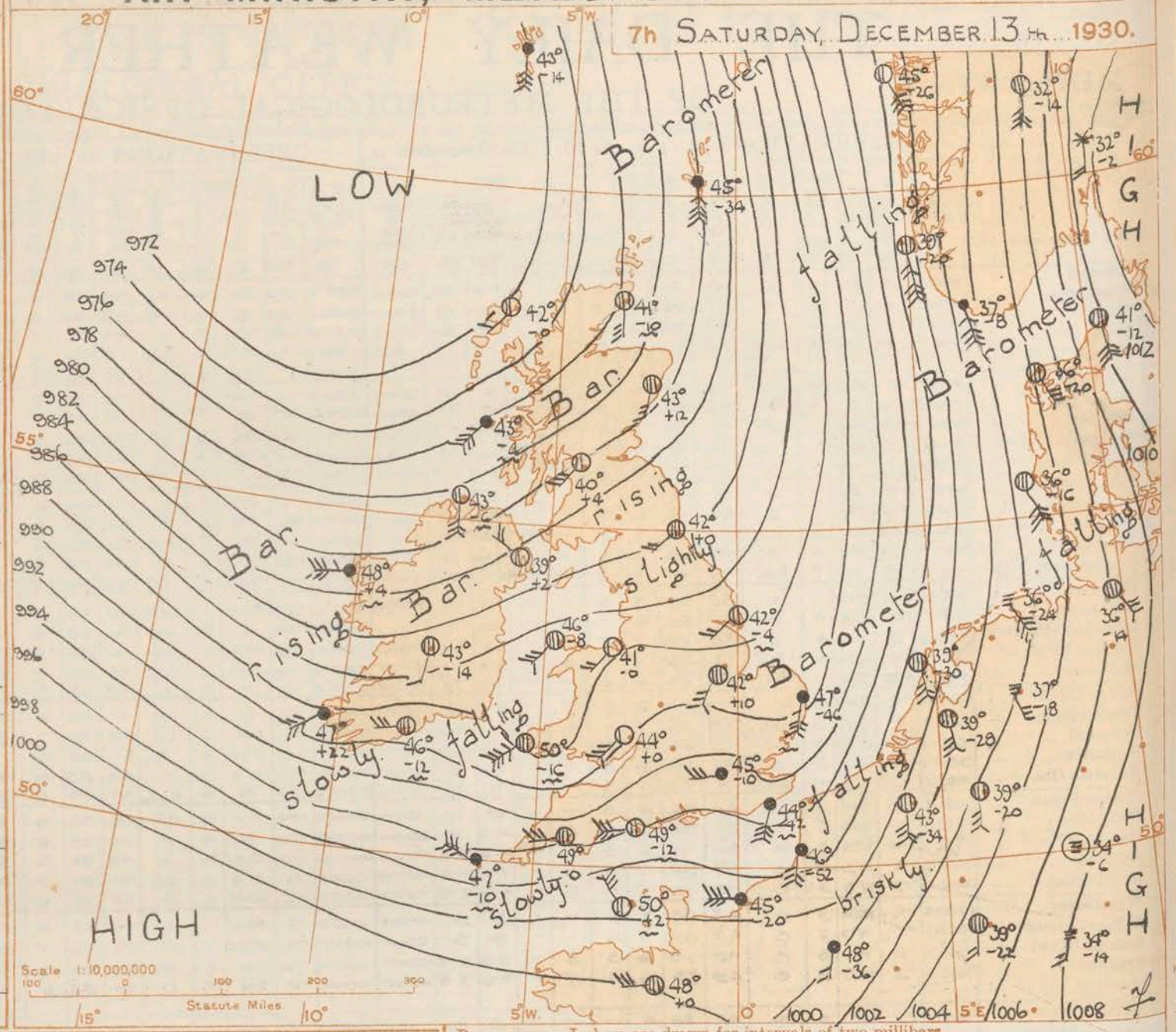
REPORTS from HEALTH RESORTS for ...12th December..... 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h.11th. to 9h.12th.	TEMPERATURE. Max. 9h.—17h. 12th	RAINFALL. Night. 17h.11th. to 9h.12th.	RAINFALL. Day. 9h.—17h. 12th	SUNSHINE. Sunrise to Sunset. 12th
Dunbar	... ...	... ...	...	...	6	0·3	0·3
Berwick-on-T.	... ...	... ...	...	...	13	-	0·0
Douglas	... ...	... ...	...	...	-	1	1·5
Llandudno	... ...	... ...	...	...	Trace	-	3·8
Colwyn Bay	... ...	... ...	...	...	-	-	4·6
Rhyl	... ...	... ...	...	...	0·2	-	4·8
Wallasey	... ...	... ...	...	...	1	-	3·0
Southport	... ‖ ...	... ...	...	...	0·2	-	3·1
Blackpool	... ...	... ...	...	...	1	-	2·8
Morecambe	... ...	... ...	...	...	2	-	3·8
Ilkley	... ...	... ...	...	...	-	-	1·3
Cleethorpes	... ...	... ...	...	...	2	Trace	0·0
Mablethorpe	... ...	... ...	...	...	1	-	0·4
Skegness	... ...	... ...	...	...	1	Trace	0·5
Aberystwyth	... ...	... ...	...	...	-	0·3	2·6
Bath	... ...	... ...	...	...	Trace	-	2·0
Cheltenham	... † ..	... ...	...	...	1	-	1·8
Leamington Spa		... ...	...	...	2	-	3·5
Lowestoft	... ...	... ...	...	...	1	-	2·1
Dovercourt	... ...	... ...	...	...	Trace	-	4·2
Maldon	... ...	... ...	...	...	1	-	4·0
Southend	... ...	... ...	...	...	0·4	-	2·8
Ilfracombe	... ...	... ...	...	...	-	-	1·2
Bude	... ...	... ...	...	...	-	-	2·2
St. Ives	... ...	... ...	...	...	-	-	1·2
Penzance	... ...	... ...	...	...	-	-	2·1
Torquay	... ...	... ...	...	...	-	-	3·9
Jersey	... ...	... ...	...	...	0·2	-	3·7
Weymouth	... ...	... ...	...	...	-	-	1·0
Bournemouth	... ...	... ...	...	...	-	-	1·5
Ventnor	... ...	... ...	...	...	1	-	0·4
Southsea	... ...	... ...	...	...	1	-	0·8
Bognor Regis	... ...	... ...	...	...	1	-	1·2
Littlehampton	... ...	... ...	...	...	0·4	-	0·6
Worthing	... ...	... ...	...	...	1	-	0·6
Brighton	... ...	... ...	...	...	1	-	0·6
Eastbourne	... † ...	... ...	...	...	0·3	-	0·2
Hastings	... † ...	... ...	...	...	0·4	-	3·0
Folkestone	... ...	... ...	...	...	0·4	-	2·6
Dover	... ...	... ...	...	...	0·4	-	3·2
Deal	... ...	... ...	...	...	1	-	1·6
Tunbridge Wells		... ...	...	...	1	-	2·6
Ramsgate	... ...	... ...	...	...	0·2	-	2·6
Margate	... ...	... ...	...	...	1	-	3·5

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h SATURDAY, DECEMBER 13th 1930.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 13th Dec. 1930.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Westerly winds, strong and squally at times, moderating somewhat; occasional showers at first, then mainly fine and bright; normal temperature.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Westerly wind, strong and squally; showers with local hail but bright intervals; normal temperature.
10. N.E. England 11. S.E. Scotland	Wind southwest to west, moderate or fresh, strong at times locally; considerable bright intervals, some local showers; normal temperature.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. / B. N.W. Scotland. 14. Mid-Scotland	As 5 - 9.
15. N.E. Scotland	As 10 - 11.
16. Orkneys and Shetlands.	Strong south to southwest winds, moderating; some showers; normal temperature.
17. N.W. Ireland 18. N.E. Ireland 19 S.E. Ireland 20. S.W. Ireland	As 5 - 9.

GENERAL INFERENCE.

A deep depression is centred off our northwest coasts and small secondaries are crossing the country. Strong squally winds will prevail generally with showers in most districts but bright intervals.

FURTHER OUTLOOK.

Mainly fine tomorrow in the East; showers in the West.

Times of Issue of Gale Warnings.

South Cone at 0800 on 11th in 5, 6, 7, 8, 12, 13A., 13B., 15, 16, 17, 18, 19, 20.

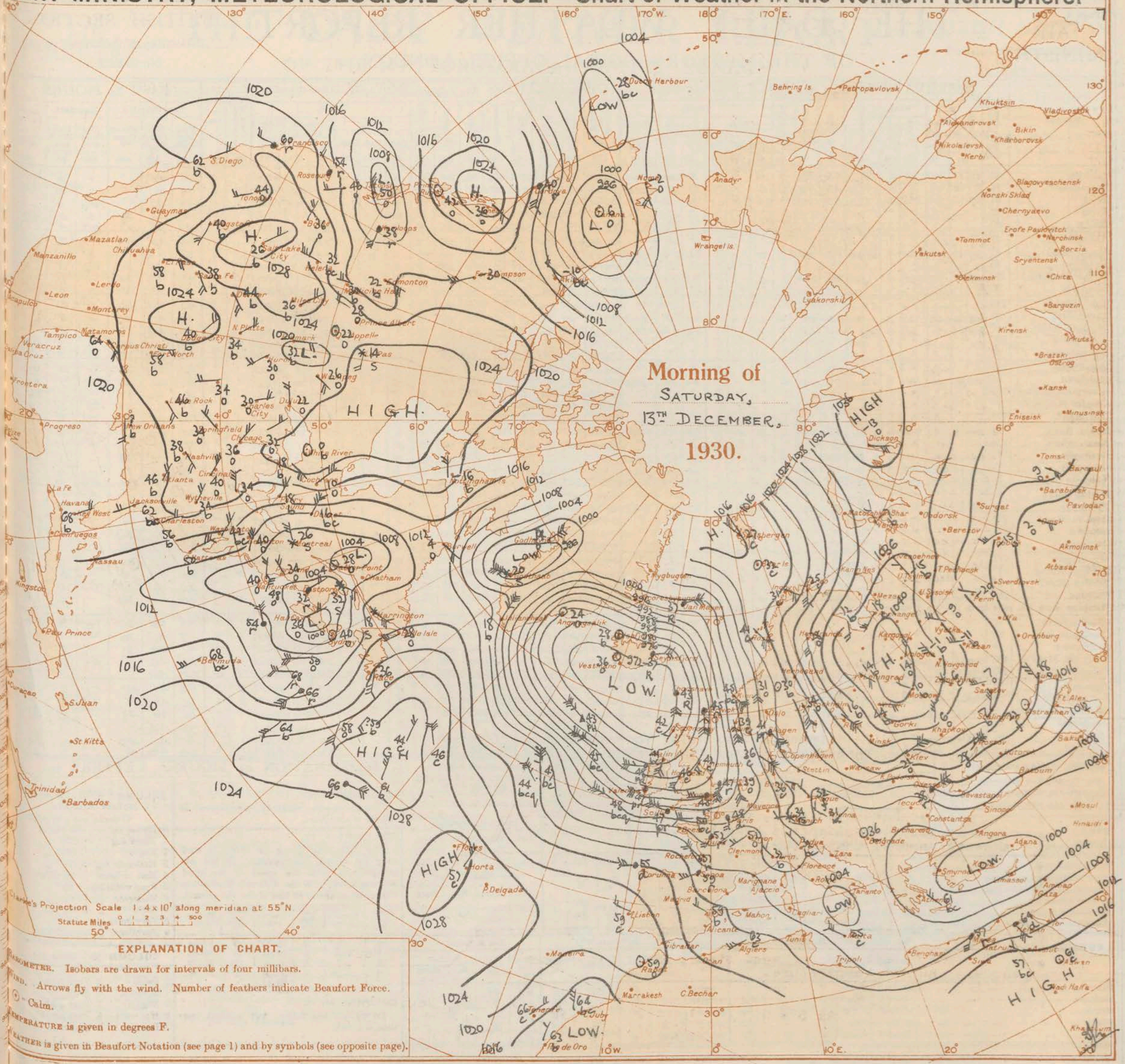
South Cone at 1830 on 12th in 1, 2, 3, 10, 11.

Forecasts issued at 0930 G.M.T.

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

H.M. Stationery Office Press Kingsway W.C.2
P. 2497/2165. W. 26 D.8026. Gp. 908. 3/31/0. 12/30.

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 13th December 1930.

No. 25223

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

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)
Lerwick	54	987.1	-40	SE	8	ir.	43	75	7	6	-	-	10	10	1600
Stornoway ...	34	974.8	-14	W	3	rr	42	95	6	6	-	-	10	10	4000
Wick	81	980.3	-60	SSE	8	rr	43	95	7	6	2	-	7-8	10	1600
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head ...	51	979.4	-14	SSW	4	bc/pr	43	95	7	5	-	-	4-6	4-6	1500
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Inchkeith (Edin.)	190	981.2	-70	SSE	4	ir.	46	95	7	5	-	-	7-8	7-8	1500
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth ...	67	987.6	-54	S	3	0	44	96	6	6	-	-	10	10	1500
Blacksod Point ...	10	983.4	-8	W	6	bc	46	65	7	8	-	-	4-6	4-6	<150
Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead... ...	26	987.2	-46	W	6	ir	46	95	6	6	-	-	9+	9+	1500
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate... ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head ...	29	991.8	-20	SW	6	c	43	96	6	3	2	-	7-8	10	4000
Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	241	993.5	-44	S	4	0	43	96	6	6	-	-	10	10	2500
Gorleston	14	993.3	-20	SSW	3	0	43	96	6	5	-	-	10	10	2500
Valentia Obs.† ...	30	988.2	0	SW	6	PR	47	85	8	3	-	-	7-8	7-8	1500
Roches Point ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke... ...	150	989.7	-40	W	8	rr	48	95	6	6	-	-	10	10	800
Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester ...	272	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew) ...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Croydon	244	993.0	-42	SW	4	c	48	95	7	5	-	-	7-8	7-8	1500
Manston	135	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	55	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Scilly (St. Mary's)	168	996.1	-16	NNW	6	r.r.	51	96	6	6	-	-	10	10	4000
Falmouth... ...	200	994.2	-38	SW	7	rr	53	95	5	6	-	-	10	10	1500
Plymouth... ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill ...	32	996.1	-44	SWS	6	RR	52	96	6	5	-	-	10	10	800
Calshot, S'hampton	8	997.8	-40	S	5	do.	50	96	5	5	-	-	10	10	800
Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	347	1000.3	-32	S	4	z	47	95	6	5	2	-	7-8	10	1500
Guernsey	173	999.1	-40	SSW	3	do.	52	95	4	6	-	-	10	10	1500

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

STATIONS.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
Lerwick	979.9	-34	SE	8	r.r.	45	86	7	6	-	-	10	10	800	1	*
Stornoway ...	973.5	0	SW	1	bc	42	95	7	8	-	-	2-3	2-3	4000	2	1
Wick	976.7	-10	S	3	c	41	95	7	6	2	-	7-8	10	1500	1	4
Tiree	976.7	-4	SW	7	PR	43	96	6	9	-	-	10	10	1500	1	4
Nairn	977.4	*	-	0	bc	37	85	8	2	2	-	4-6	4-6	4000	1	*
Aberdeen	979.2	+12	SSW	3	c	43	95	7	5	7	-	7-8	10	2500	1	2
Malin Head ...	978.3	-6	S	5	bc	41	95	7	5	3	-	2-3	4-6	2500	0	4
Renfrew	981.4	+4	WSW	3	bc	40	86	7	5	-	1	2-3	2-3	2500	1	*
Inchkeith (Edin.)	981.6	+2	SW	3	b	41	86	8	5	-	-	1	1	2500	0	1
Leuchars	981.0	+8	SW	3	bc	38	95	7	8	-	-	2-3	2-3	4000	1	*
Eskdalemuir ...	982.8	+4	SW	4	bc	39	96	8	5	-	-	4-6	4-6	800	1	*
Tynemouth ...	983.7	0	SW	2	c	42	85	6	6	-	-	7-8	7-8	1500	1	3
Blacksod Point ...	980.8	-4	W	7	PR	48	75	7	3	-	-	9	9	<150	1	5
Aldergrove ...	982.5	-4	S	4	c	38	85	8	5	1	8	4-6	7-8	2500	1	*
Donaghadee ...	982.4	+2	WNW	2	bc	39	96	7	5	-	-	2-3	2-3	4000	1	1
Birr Castle ...	984.5	+14	SSW	1	c	43	96	7	8	-	-	7-8	7-8	2500	1	*
Holyhead... ...	987.3	-8	SW	4	c	46	75	8	5	-	-	9+	9+	1500	1	2
Liverpool (Bidston)	987.3	0	SW	4	bc	42	85	8	7	-	-	2-3	2-3	2500	1	*
Chester (Sealand)	988.2	0	WSW	2	b	41	85	8	5	-	1	Tr.	1	4000	1	*
Harrogate... ...	987.2	+6	SW	3	PR	39	95	8	6	-	-	4-6	4-6	2500	1	*
Spurn Head ...	987.4	-4	WSW	2	c/r	42	96	7	6	2	-	7-8	9+	4000	1	4
Birmingham ...	990.5	0	SW	3	b	41	86	8	5	-	-	1	1	4000	1	*
Cranwell	988.7	+10	SW	4	c	42	95	6	5	-	-	7-8	7-8	4000	1	5
Gorleston	989.8	-46	SSW	7	rr	47	95	6	6	-	-	10	10	800	1	*
Valentia Obs.† ...	989.2	+22	W.S	6	pr	47	85	8	3	-	-	9+	9+	800	1	*
Roches Point ...	990.1	-12	W	3	c	46	85	7	3	-	-	7-8	7-8	1500	1	4
Pembroke... ...	987.5	-16	WSW	8	c/p	50	85	7	6	-	-	9+	9+	800	2	4
Ross-on-Wye ...	991.2	0	WSW	4	b	44	75	7	5	-	-	Tr.	Tr.	4000	1	*
Leafield	991.5	0	SW	3	b	41	95	8	5	1	-	1	1	4000	1	*
Cardington ...	990.7	+10	WSW	3	bc	43	95	8	5	-	-	4-6	4-6	2500	2	*
Winchester ...	990.8	+2	SW	2	c	45	85	8	5	-	-	9	9	1500	1	*
S. Farnborough ...	992.7	+8	WSW	4	bc	45	85	8	5	-	-	2-3	2-3	4000	2	*
London (Kew) ...	992.6	0	WSW	2	bc	45	85	6	-	7	-	0	4-6	-	1	*
Croydon	993.3	-10	W	3	r.r.	45	95	6	6	-	-	9	9	800	1	*
Manston	992.0	-16	SW	3	rr	45	95	6	6	-	-	10	10	800	1	*
Shoeburyness ...	991.4	-30	S	5	rr	47	95	6	6	-	-	10	10	1500	1	3
Clacton-on-Sea ...	991.8	-36	SSW	5	rr	46	95	6	6	-	-	10	10	450	1	4
Felixstowe ...	994.3	-10	W'N	7	pr	47	95	6	3	-	-	7-8	7-8	4000	1	4
Scilly (St. Mary's)	995.2	-6	W.S	7	bc	49	85	8	3	-	-	4-6	4-6	4000	1	3
Falmouth... ...	995.3	0	W	8	c	49	75	7	6	3	-	4-6	9	2500	2	3
Plymouth... ...	994.5	+12	W	6	bc	49	75	8	4	-	-	2-3	2-3	2500	2	4
Portland Bill ...	994.0	+6	SWW	4	bc	46	85	7	5	-	-	4-6	4-6	2500	1	2
Calshot, S'hampton	992.3	-42	S'W	6	r.f	49	95	2	8	-	-	10	10	<150	1	4
Dungeness ...	992.4	+2	WNW	4	bc	50	75	7	8	-	-	4-6	4-6	2500	1	4
Lympne	997.3	-32	S	4	z	47	95	6	5	2	-	7-8	10	1500	1	4
Guernsey	999.1	-40	SSW	3	do.	52	95	4	6	-	-	10	10	1500	1	4

PAST 24 HOURS.

STATIONS.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 12m. Hrs. (36)
Lerwick	44	42	*	-	5	0.0
Stornoway ...	48	41	*	1	5	0.0
Wick	44	40	*	0.4	5	*
Tiree	48	42	36	5	12	0.0
Nairn	42	37	*	0.3	4	2.7
Aberdeen	44	42	40	-	16	0.0
Malin Head ...	51	39	*	3	7	0.1
Renfrew	44	37	31	0.3	18	0.4
Inchkeith (Edin.)	42	40	38	-	6	0.0
Leuchars	41	38	35	-	8	2.4
Eskdalemuir ...	42	39	36	-	23	1.0
Tynemouth ...	43	41	35	-	2	*
Blacksod Point ...	52	43	*	8	5	*
Aldergrove ...	48	36	33	5	7	0.5
Donaghadee ...	48	39	*	5	5	*
Birr Castle ...	50	38	32	Tr.	4	0.0
Holyhead... ...	51	44	40	1	7	2.1
Liverpool (Bidston)	48	42	37	-	4	3.6
Chester (Sealand)	52	41	33	Tr.	6	4.0
Harrogate... ...	46	39	34	-	6	4.3
Spurn Head ...	45	40	*	-	6	0.0
Birmingham ...	49	41	39	-	5	2.2
Cranwell	46	38	33	-	1	3.3
Gorleston	45	41	38	-	4	1.3
Valentia Obs.† ...	50	44	41	0.3	6	0.0
Roches Point ...	50	44	*	3	9	*
Pembroke... ...	51	46	*	-	3	1.0
Ross-on-Wye ...	52	44	38	-	2	2.3
Leafield	48	40	36	-	3	1.7
Cardington ...	49	37	33	-	4	2.2
Winchester ...	50	42	39	0.1	6	1.2
S. Farnborough ...	50	40	36	-	4	1.5
London (Kew) ...	50	41	32	Tr.	4	1.3
Croydon	50	42	36	-	6	1.2
Manston	48	35	30	Tr.	3	3.2
Shoeburyness ...	47	41	36	-	1	3.2
Clacton-on-Sea ...	47	39	31	-	3	2.3
Felixstowe ...	53	46	*	0.1	2	2.7
Scilly (St. Mary's)	52	49	*	-	2	3.2
Falmouth... ...	53	47	42	-	3	4.0
Plymouth... ...	52	48	*	-	3	*
Portland Bill ...	52	46	38	-	5	0.7
Calshot, S'hampton	47	43	*	-	3	*
Dungeness ...	47	40	29	-	4	3.2
Lympne	54	49	41	0.3	5	3.1
Guernsey	50	42	39	0.1	6	1.2

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
KEW	18	b, cz	bcbm.	bcmkr	50	41	32	Tr.	4	1·3	*	*	6
CROYDON	244	bccm.	bczbm.	bccdRR	50	42	36	-	6	1·2			6
GREENWICH (Royal Observatory) ...	149	cm	cbm	bmvcrr	50	40	30	-	4	0·7	74	87	5
CITY (Bunhill Row)	—	*	*	*	*	*	*			0·6	*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	52	41	35	4		1·0	74	83	*
REGENTS PK. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	1·0	*	*	*
CAMDEN SQUARE	119	c	cb	*	47	44	34	-	4	*	At 18h.	91	*
KENSINGTON PALACE	80	cbc	bc	*	51	43	32	-	4	*	89	85	*
HAMPSTEAD OBSERVATORY	450	bcm	bcm	*	49	41*	34	0·3	5	0·7	*	93	*

FOREIGN OBSERVATIONS.

STATIONS.	18h. G.M.T. 12th December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 13th December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS	1007·3	WSW	2	m	48	999.5	S	2	dd	48
BRUSSELS	1004·6	WSW	2	c	43	998.4	SSE	5	c	43
BERLIN	1009·2	ESE	3	dd	36	1009·3	ESE	2	c	36
ZÜRICH	1011.4	N	1	c	39	1011·2	S	1	c	37
ROME	1004·7	NNE	2	b	37	1006·0	NNE	1	0	!

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	9h, 18h, 12h, 12th	<0·3	1-7h 13th

KEW OBSERVATORY. Max.	Time.	Min.	Time.
0·4	20h 12th	<0·1	1-5h 13th

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
50	45	Tr.	0·3
45	37	0·3	Tr.
39	34	0·5	Tr.
39	36	2	2
55		-	

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 14th December 1930.

No. 25224

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

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)
Lerwick	980.0	+16	S'W	3	c	45	95	6	5	2	–	4.6	10	1500
Stornoway ...	978.6	-2	S	6	c	45	96	6	6	3	–	4.6	7.8	4000
Wick	979.3	+16	S	4	bc	44	85	8	5	6	6	2.3	4.6	2500
Tiree	977.7	+10	SW'S	4	c/pr	44	85	7	3	9	3	4.6	7.8	1500
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	983.0	+16	SSW	3	b	43	75	8	–	4	–	0	1	–
Malin Head ...	980.6	+14	WSW	6	bc/jp	47	85	7	3	8	–	4.6	4.6	1500
Renfrew	983.5	+14	S'E	4	ld°	44	95	6	9	–	–	9+	9+	1500
Inchkeith (Edin.)	982.8	+4	SSW	3	bc	46	85	7	,	7	–	0	4.6	–
Leuchars	983.2	+6	SSW	2	pr°	42	85	7	8	3	–	9+	9+	2500
Eskdalemuir ...	982.5	0	SSW	4	pr	41	95	7	6	2	–	7.8	10	450
Tynemouth ...	985.6	+2	SSW	2	bc	46	75	6	2	3	–	2.3	4.6	2500
Blacksod Point ...	986.6	+4°	W	7	c	47	65	8	8	–	1	4.6	7.8	*
Aldergrove ...	984.1	+18	SW'S	4	c/pr	45	85	7	9	–	–	7.8	7.8	1500
Donaghadee ...	983.2	+6	WNW	2	bc	47	85	7	5	2	–	4.6	4.6	4000
Birr Castle ...	983.0	+18	W	3	c	47	75	8	8	–	–	9	9	2500
Holyhead ...	983.7	+14	W'S	6	c	49	85	7	5	8	1	7.8	7.8	2500
Liverpool (Bidston)	987.2	0	SW'W	3	c	47	75	8	9	–	–	9	9	2500
Chester (Sealand)	988.0	0	SW'W	3	pr	49	75	7	8	–	–	7.8	7.8	4000
Harrogate	987.1	0	SSW	3	c	43	85	7	6	–	–	7.8	7.8	2500
Spurn Head ...	988.5	+2	SW'S	3	c	45	85	6	6	3	8	4.6	10	2500
Birmingham ...	990.5	-2	SW	3	bc	46	85	6	1	–	2	2.3	2.3	4000
Cranwell	989.2	-6	SW'S	3	c	45	85	6	5	3	–	7.8	9	1500
Gorleston	990.8	-4	WSW	2	bc	47	85	7	1	–	–	2.3	2.3	4000
Valentia Obs. ...	994.1	+13	W	6	c/pr	48	65	8	6	–	8	4.6	7.8	2500
Roches Point ...	993.9	+14	NW	4	bc	47	75	8	3	–	–	2.3	2.3	1500
Pembroke	991.7	+12	W	6	q	49	95	7	8	8	9	2.3	7.8	1500
Ross-on-Wye ...	991.0	-4	WSW	3	c	49	75	8	9	–	–	7.8	7.8	4000
Leafield	990.8	-6	SW'W	5	bc	45	85	7	8	–	–	2.3	2.3	5000
Cardington ...	990.5	-4	SW'W	5	c	47	75	8	5	3	2	7.8	9	2500
Winchester ...	992.4	-12	SW'W	6	pr°	50	75	7	6	3	–	9	9+	2500
S. Farnborough ...	992.3	-10	SW'W	4	c	50	65	8	4	–	2	9	9	2500
London (Kew) ...	991.9	-18	SW'W	4	c	49	75	6	8	–	1	7.8	9	2500
Croydon	993.0	-10	SW'W	4	cm°	50	75	6	5	–	8	7.8	9	2500
Manston														
Shoeburyness ...	993.0	0	SW	3	c	48	75	7	5	–	–	7.8	7.8	4000
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	992.8	0	SW'S	2	bc3°	47	75	6	5	–	–	4.6	4.6	4000
Scilly (St. Mary's)	996.9	+16	WNW	6	bc/pr	45	95	7	8	8	–	4.6	4.6	4000
Falmouth	996.8	++	W	5	bc/pr	47	85	8	3	–	–	+6	+6	4000
Plymouth	996.5	+16	WNW	5	bc/pr	49	75	7	9	–	1	4.6	4.6	2500
Portland Bill ...	993.2	-2	W'S	7	c	51	75	8	4	6	–	4.6	7.8	2500
Calshot, S'hampton	993.1	-8	SW'W	5	bc	52	65	8	8	4	4	4.6	4.6	2500
Dungeness ...	•	•	W	4	c	•	•	7	5	–	•	7.8	7.8	2500
Lympne	993.5	-6	SW'S	3	c	47	85	7	5	–	–	9+	9+	2500
Guernsey	991.5	0	W	4	c/pr	52	75	6	5	–	–	7.8	7.8	2500

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

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)
Lerwick	982.4	+16	SE	3	bc	45	85	8	5	–	–	2.3	2.3	1500	1	•
Stornoway ...	977.1	+26	WSW	2	bc	43	95	6	9	–	–	2.3	2.3	4000	1	2
Wick	979.9	+8	SSW	5	c	44	85	6	5	8	8	4.6	7.8	2500	1	4
Tiree	982.0	+30	WSW	5	bc	45	85	6	8	–	3	2.3	2.3	1500	1	3
Nairn	980.3	•	SSW	1	bc	40	85	8	5	–	–	4.6	4.6	4000	0	•
Aberdeen	983.9	+8	SSE	3	c	44	85	8	5	–	–	7.8	7.8	1500	1	1
Malin Head ...	985.0	+26	WNW	5	c/jp	46	85	7	3	–	–	7.8	7.8	1500	0	4
Renfrew	985.3	+16	SW'W	3	pr°	44	85	7	8	–	–	9	9	1500	1	•
Inchkeith (Edin.)	983.6	+10	SSW	3	c	44	95	7	5	–	–	7.8	7.8	2500	1	•
Leuchars	984.9	+14	SSW	3	bc/pr	42	95	7	8	–	–	2.3	2.3	2500	1	•
Eskdalemuir ...	986.6	+20	SW	4	bc	41	95	7	5	–	–	2.3	2.3	1500	1	•
Tynemouth ...	987.1	+10	SW	2	bc/r	42	85	7	6	–	–	4.6	4.6	1500	1	3
Blacksod Point ...	990.4	+40	WNW	6	c	46	75	7	8	–	–	7.8	7.8	*	0	5
Aldergrove ...	988.0	+22	SW'S	4	bc/pr	41	85	7	9	1	–	2.3	4.6	1500	0	1
Donaghadee ...	986.3	+16	SW	3	c	43	85	7	5	–	–	7.8	7.8	800	1	2
Birr Castle ...	992.3	+20	W	1	bc	42	85	8	3	–	–	2.3	2.3	2500	1	•
Holyhead	991.4	+18	W	6	bc/q	47	85	8	5	–	–	4.6	4.6	2500	1	3
Liverpool (Bidston)	989.8	+16	WSW	4	bc	44	85	8	8	–	–	4.6	4.6	4000	0	•
Chester (Sealand)	990.8	+20	WSW	2	bc	44	75	8	8	–	–	4.6	4.6	2500	0	•
Harrogate	989.2	+6	SW	1	b	41	95	7	–	–	–	0	0	–	1	•
Spurn Head ...	989.1	+2	SW	2	r	41	85	6	6	–	–	10	10	2500	0	2
Birmingham ...	992.3	+20	WSW	3	b	43	85	6	5	–	–	1	1	2500	1	•
Cranwell	990.8	+14	WSW	3	c/pr	44	95	6	6	–	–	10	10	3500	1	5
Gorleston	991.1	+4	SW'W	2	b	45	85	6	1	–	–	0	0	–	1	•
Valentia Obs. ...	996.9	+18	W	5	c/pr°	47	65	8	3	–	–	7.8	7.8	2500	1	4
Roches Point ...	996.7	+14	NW	4	bc	44	85	8	3	–	–	2.3	2.3	1500	1	4
Pembroke	993.8	+10	W	5	bcq	47	95	7	8	8	–	4.6	4.6	1500	1	5
Ross-on-Wye ...	993.3	+14	W'S	2	bc	43	85	7	5	–	–	2.3	2.3	2500	1	•
Leafield	993.1	+14	SW	3	bc	42	95	8	4	–	–	4.6	4.6	4000	1	•
Cardington ...	991.8	+10	WSW	3	bc	44	85	7	5	–	–	4.6	4.6	2500	2	•
Winchester ...	994.4	+16	WSW	2	b	43	95	7	1	–	–	Tr.	Tr.	4000	1	•
S. Farnborough ...	993.4	+10	W'S	3	b	44	85	8	5	–	–	Tr.	Tr.	4000	2	•
London (Kew) ...	993.6	+10	SW'W	3	c	45	85	6	4	–	–	9	9	2500	1	•
Croydon	993.8	+8	WSW	4	cm°	46	85	6	4	3	–	4.6	7.8	2500	1	•
Manston																•
Shoeburyness ...	992.8	+6	SW	2	b	44	85	7	–	–	–	0	0	–	1	•
Clacton-on-Sea ...	992.2	0	WSW	3	bc	48	95	6	5	–	–	2.3	2.3	1500	0	1
Felixstowe ...	992.5	+4	SW'W	2	cm°	43	95	6	5	–	–	10	10	4000	1	2
Scilly (St. Mary's)	993.4	+10	WNW	7	c	47	85	7	8	–	–	7.8	7.8	4000	1	4
Falmouth	993.1	+6	W'S	4	bc	45	85	8	3	–	–	4.6	4.6	4000	1	2
Plymouth	996.7	+4	WNW	4	bc	47	75	6	8	–	–	2.3	2.3	2500	1	2
Portland Bill ...	994.6	+8	W	6	bc	48	95	8	8	–	–	4.6	4.6	1500	2	4
Calshot, S'hampton	994.5	+10	SW'W	3	b	45	85	7	8	–	1	Tr.	Tr.	2500	0	1
Dungeness ...	•	•	WSW	4	bc	•	•	7	5	–	•	2.3	2.3	5000	•	2
Lympne	993.5	+8	W'S	3	bm°	43	95	6	5	–	–	0	0	–	1	•
Guernsey	993.1	+10	W	3	bc/pr°	47	75	8	5	–	–	4.6	4.6	1500	1	4

PAST 24 HOURS.

WEATHER. 7h.–13h. (37)	13h.–18h. (38)	18h. to 1h. (39)	1h.–7h. (40)
orr	cir°,bc	bcrir°,bc	bcir°
cpr	c,bc	bcir	oiR bc
cbc	bce	bc	bcc
o Rc pr bc	c bc jp	bc PR	bc
bc	bc x	bc x	c
cbcb	bc	cr° bx	bbcx
bcq pr	bc c p°	bcq ph bpr	bc phr c PR
bc c pr i r d m°	cd p° m°	c/pr r	bc pr bc
c	cir°	cp° Fm° bc	bc
b,c p° r	cp° r	c bc bx	bbcx
bcx cpr	c pr bc	bwbc	bc c p° bx
c bc w	bc m oir°	bcm	bbc
bcq	brqc	prqc	brqc
c b c c p°	cpr pr° bc	bc	bcc
bb c	p° r c	bc	bc
cpr c	cp° bc	bc bx	bc p° r
pr bc b c pr	c/q bc	bcq	bcc
bcp bc	pr c bc	r° bc p	pr bc p
bc pr c	pr° bc	bc	bc
pc b	c bi r	b	b bcir°
bc	cor	or bc	bc
bc pr	pr° bc	bc b	bc b
cb, c p° r	cb, c pr	cm° bcm°	bc or° c
orr q bc	bc c pr b	bc or or°	b c or° c
c pr bc pc	cp° bc	bb c pr°	q pr p w
cp bc,	bcp° bc	bc bw	bb c pi x
ci r bc	c bc q	bcq	bb c q
bc or bcc	cp bc c b	bb c b	b
bb c c p° bc	bc p°	bc b	bx
bb c c	bc ~ bc	bc bw	b
cm° c pr°	c pr° r r b	b	bw
bb c c	c bc c b	b bw	b bw x
bm° c 3°	bc 3 cm°	bm°	bx
or° r c b m c 3°	c 3°	bc z° b	b bw
or° m° bc	bc b	b	b
or c bc	bc	bc	bc
orr m c bc	bc 3°	c bc	bc w
cq p r	bc c q p	c bc q p	bc p° bc p
bc P v	bc P v	bc P	
c bc q pr h pr	bc pr bc	bc c t° r	bc c pr
bc pr c	c R c bc	bc	bc
bc b bc	bc, b	bw	bw
bc'	bc	*	b
or° fc bbc	cp° r bc	bm°	bm° w
bc pr c	bc pr	c p h pr	c p h pr

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus, R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, solar halo. ☾, lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r, fair weather after rain; –, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

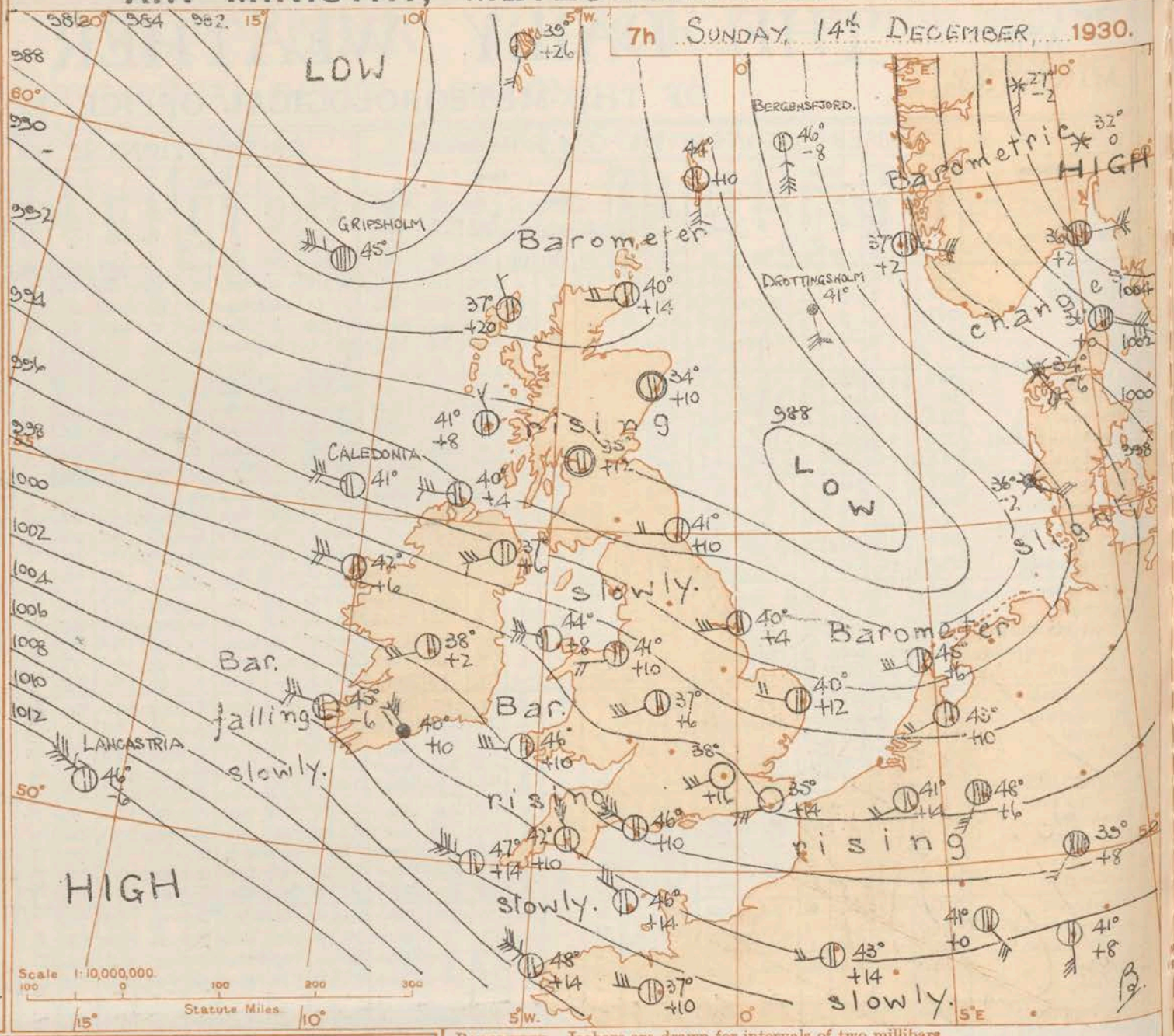
REPORTS from HEALTH RESORTS for.....13th December...1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h.12th. to 9h.13th.	TEMPERATURE. Max. 9h.—17h. 13th.	RAINFALL. Night. 17h.12th. to 9h.13th.	RAINFALL. Day. 2h.—17h. 13th.	SUNSHINE. Sunrise to Sunset. 13th.
Dunbar	bbc	pbc	38	47	5	Trace	3.9
Berwick-on-T.	bc	bc	37	44	2	–	3.0
Douglas	bccbc	ricbc	41	47	12	0.5	1.2
Llandudno	cpcbc	cpc	43	48	4	0.3	1.6
Colwyn Bay	bbc	bco	43	49	5	–	1.5
Rhyl	cbc	bc	41	50	7	–	3.5
Wallasey	pbcfo	bcpbc	40	48	6	0.3	1.9
Southport ... ‖ ...	bbcc	coro	41	47	7	0.6	0.7
Blackpool	cp	cp	40	46	11	2	0.7
Morecambe	hrc	bcro	42	48	9	1	1.1
Ilkley	bcc	or	39	46	7	4	1.0
Cleethorpes	rcb	bco	34	46	4	–	3.2
Mablethorpe	bcbbc	cbcc	36	45	4	–	2.8
Skegness...	rob	b	38	46	5	–	2.8
Aberystwyth	cRc	circ	44	48	9	1	1.8
Bath	bcair	rcbc	45	49	2	3	1.7
Cheltenham ... † ...	cpbc	bccip	40	47	4	1	2.3
Leamington Spa	bcr	prcbc	40	48	4	01	3.6
Lowestoft	iRoc	bccd	40	48	7	Trace	3.3
Dovercourt	rbc	bcc	39	49	4	–	3.6
Maldon	rcb	bcc	34	49	4	–	2.6
Southend	b	bcc	40	52	4	–	3.4
Ilfracombe	cop	opc	47	51	5	1	0.1
Bude	cpbc	bcrp	46	51	4	1	1.4
St. Ives	p	p	48	51	3	1	2.6
Penzance	cbir	bcir	48	52	4	1	2.4
Torquay	drpbc	qbcpb	44	52	3	Trace	4.2
Jersey	pcbc	bcpc	47	52	1	2	2.3
Weymouth	cb	bcpcpcb	45	53	3	0.3	3.1
Bournemouth	bc	bpc	46	51	5	–	3.7
Ventnor	orb3	b	45	51	4	Trace	4.4
Southsea	bcp	bbc	45	51	5	0.5	4.8
Bognor Regis	bc	bcb	44	51	4	–	4.9
Littlehampton	obc	bc	40	51	3	–	5.0
Worthing	bcc	cdbc	40	52	4	Trace	4.7
Brighton...	bcrcb	bc	43	50	3	Trace	4.4
Eastbourne ... † ...	bbccc	cbcb	x3	51	x	0.1	x.2
Hastings ... † ...	bbco	opbc	41	51	4	0.2	3.6
Folkestone	xrcbc	rcbc	39	50	4	Trace	3.0
Dover	mcbbc	bcpbc	39	50	6	0.3	3.4
Deal	cobc	cro	40	49	6	1	3.4
Tunbridge Wells	bbc	bbc	40	50	6	–	3.6
Ramsgate	bc	bc	42	48	5	–	3.5
Margate	bc	bc	42	51	4	–	3.6

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h SUNDAY, 14th DECEMBER, 1930.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 14th Dec, 1930.
1. S.E. England 2. E. England...	Wind westerly, moderate to light; mainly fine; normal temperature; ground frost at night; sharp in places.
3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Wind W to N.W., moderate to fresh, stronger locally in squalls on the coast at first; considerable bright periods; some rain or hail showers, more especially near the coast and in the hill districts; normal temperature; frost at night.
10. N.E. England 11. S.E. Scotland	As 0 - 3.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland	As 4 - 9.
16. Orkneys and Shetlands. 17. N.W. Ireland ⚓	Wind south, fresh, becoming westerly, light; bright periods; some showers; normal temperature.
18. N.E. Ireland 19 S.E. Ireland 20. S.W. Ireland ⚓	Wind N.W. to W., fresh, strong on the west coast at first rather squally; moderating; bright periods; showers of rain or hail; moderate to rather low temperature; ground frost inland at night.

GENERAL INFERENCE.

A depression centred between Scotland and Iceland is growing less deep, while small secondaries continue to cross the country. There will be considerable bright periods in all districts, but showers or rain or hail will occur in western districts and locally elsewhere.

FURTHER OUTLOOK.

Deteriorating in the west and north; fair elsewhere.

Time of issue of Gale Warning.

⚓ South Cone at 0800 on 11th in districts 17, 20.

Forecasts issued at 1030 G.M.T.

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

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 14th December 1930.

No. 25224

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

Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
Lerwick	54	986.6	+2.0	SE	5	bc	46	85	9	5	-	-	4.6	4.6	1500
Stornoway ...	34	982.4	+2.8	SW	2	iR	38	95	6	6	-	-	10	10	4000
Wick	81	985.6	+1.8	SSW	3	bc	42	95	8	5	4	8	2.3	4.6	2500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head ...	51	990.1	+2.0	W'N	5	bc/jp	44	85	7	3	-	-	2.3	2.3	1500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	988.4	+1.2	SW	2	bc	43	95	8	5	5	-	1	2.3	1500
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir ...	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth ...	67	990.0	+1.6	WNW	2	b	41	95	8	-	-	-	0	0	-
Blacksod Point ...	10	995.7	+2.2	WNW	5	bc	43	75	7	8	-	-	4.6	4.6	4.50
Aldergrove ...	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee ...	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle ...	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead... ...	26	995.3	+1.0	W'N	6	c	45	85	7	5	-	-	2.3	2.3	2500
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate... ...	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head ...	29	991.4	+2	W'N	4	bc	42	95	6	6	-	-	2.3	2.3	2500
Birmingham ...	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	993.0	+1.0	W'N	4	bc	41	95	6	5	-	-	4.6	4.6	4.000
Gorleston	14	993.3	+1.4	W	2	bc	41	95	6	-	2	-	0	2.3	-
Valentia Obs.† ...	30	1001.5	+2.0	WNW	6	bc/pr	46	95	8	3	-	-	4.6	4.6	1500
Roches Point ...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke... ...	150	997.2	+1.6	W	4	b	47	95	8	1	-	-	Tr.	Tr.	4.000
Ross-on-Wye ...	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington ...	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester ...	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew) ...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	996.2	+1.4	W	4	b	40	95	7	-	-	8	0	1	-
Manston	135	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness ...	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1001.9	+2.8	NW	6	bc	46	85	7	2	-	-	2.3	2.3	4.000
Falmouth... ...	200	1000.8	+2.8	W'N	4	bc	44	85	8	3	-	-	4.6	4.6	4.000
Plymouth... ...	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill ...	32	997.6	+2.8	W'N	5	bc	47	75	8	4	1	-	2.3	4.6	2500
Calshot, S'hampton	8	996.8	+1.4	WSW	3	b	41	85	7	-	-	-	0	0	-
Dungeness ...	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	995.5	+2.8	W/W	3	z	38	95	5	-	-	-	0	0	-
Guernsey	173	999.9	+1.4	WNW	3	bc/pr	48	75	7	3	-	-	4.6	4.6	1500

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	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)
989.5	+1.0	SSE	4	c	44	85	7	8	7	-	4.6	7.8	1500	1	•
987.3	+2.0	WNW	1	bc	37	95	7	5	-	-	4.6	4.6	4000	2	1
987.6	+1.4	W	2	c	40	95	8	1	2	-	7.8	9	1500	0	4
989.7	+.8	NW/N	1	c/pr	41	85	7	8	-	3	7.8	7.8	1500	1	34
988.5	•	-	0	c	38	85	8	8	8	-	4.6	7.8	4000	0	•
989.3	+1.0	-	0	c	34	95	7	5	4	-	7.8	9	2500	4	1
992.0	+1.4	W	4	bc/jp	40	85	7	9	8	-	4.6	4.6	1500	1	4
991.7	+1.2	-	0	bc	35	95	7	5	-	-	2.3	2.3	4000	1	•
989.9	+.4	WSW	3	c	41	95	8	-	7	-	0	9	-	0	1
989.7	+1.0	WSW	2	bc	35	95	7	5	-	-	4.6	4.6	4000	1	•
989.9	+.8	SW's	2	b	36	85	8	5	4	-	1	1	1500	1	•
991.2	+1.0	W	2	bc	41.0	95	7	2	-	-	4.6	4.6	2500	1	2
997.1	+.6	WNW	5	c	42	85	7	8	-	-	7.8	7.8	450	0	4
995.3	+.6	SW'W	4	c	37	95	7	5	-	8	4.6	7.8	1500	1	•
993.3	+.4	SW	3	bc	37	85	7	5	2	-	4.6	4.6	2500	0	2
998.7	+.2	WSW	3	bc/pr	38	95	7	3	-	-	2.3	2.3	2500	1	•
997.2	+.8	W'N	6	c	44	85	8	8	-	-	9+	9+	2500	1	3
995.0	+.8	W'S	5	bc/pr	42	85	8	3	-	-	2.3	2.3	1500	1	•
996.3	+1.0	W'S	2	bc	41	85	8	8	-	-	4.6	4.6	4000	1	•
994.7	+1.0	SW	1	bc	40	85	8	6	-	-	4.6	4.6	2500	1	•
992.9	+.4	W	3	bc	40	95	6	6	-	1	4.6	4.6	4000	1	3
997.7	+.6	WSW	3	b	37	85	8	-	-	1	0	1	-	1	•
995.1	+1.2	W'S	4	bc	37	95	6	5	-	-	2.3	2.3	4000	1	•
994.9	+1.2	W'N	2	c	40	75	6	6	6	-	4.6	9	2500	1	2
1003.7	+.6	W'N	5	bc/pr	45	75	8	3	-	-	4.6	4.6	1500	1	•
1002.0	+1.0	NW	4	iR	40	95	8	6	-	-	2.3	2.3	1500	1	3
999.2	+1.0	W	3	q	46	95	8	8	-	-	4.6	4.6	2500	0	3
997.9	+.8	WSW	2	b	38	85	8	4	-	-	Tr.	Tr.	4000	1	•
997.7	+1.0	WSW	4	b	35	95	8	-	4	8	0	1	-	1	•
996.8	+.6	WSW	4	bc	35	95	6	-	4	5	0	2.3	-	1	•
999.0	+1.8	WSW	4	b	38	95	7	1	-	1	Tr.	Tr.	4000	1	•
998.0	+.8	W'S	2	b	36	95	8	5	-	-	Tr.	Tr.	5700	2	•
998.3	+1.4	N	2	b	37	95	7	5.1	7	-	Tr.	1	2500	1	•
998.6	+1.6	W'S	3	b	38	95	7	-	-	1	0	1	-	1	•
995.8	+1.0	WSW	3	bc	37	95	7	-	3	-	2.3	2.3	-	1	•
996.3	+1.0	W	3	bc	38	95	7	-	3	-	2.3	2.3	-	0	1
996.9	+.8	W	2	bc	39	95	7	5	-	-	2.3	2.3	5700	1	1
1003.8	+1.4	NW'W	7	bc/pr	47	75	7	2	-	-	4.6	4.6	4000	1	4
1003.3	+1.4	W'N	4	bc/pr	44	75	8	3	-	-	4.6	4.6	4000	1	2
1002.4	+1.0	NW	2	bc	42	85	7	3	-	-	4.6	4.6	2500	2	2
999.5	+1.0	W'N	5	bc	46	75	8	4	-	-	4.6	4.6	2500	1	3
999.3	+1.4	SW	3	b	37	85	7	5	-	1	Tr.	1	2500	0	1
•	•	W	2	bc	•	•	7	-	1	•	0	2.3	-	•	1
997.7	+1.4	W	3	z	35	95	6	-	-	-	0	0	-	1	•
1002.2	+1.4	NW	3	bc/pr	46	65	7	3	-	-	4.6	4.6	1500	1	3

PAST 24 HOURS.

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 13hr. Hrs. (36)
45	44	•	12	1	0.0
46	36	•	4	4	0.2
44	36	•	-	-	•
47	41	33	2	3	0.6
43	35	•	-	-	2.5
44	30	24	-	Tr.	3.4
47	38	•	1	8	1.3
45	35	30	0.2	1	0.3
46	40	37	Tr.	Tr.	2.5
44	33	27	0.1	-	2.1
42	35	30	1	1	0.1
46	39	30	0.1	-	•
49	41	•	3	2	•
45	35	31	0.6	Tr.	1.2
49	36	•	0.1	-	•
47	36	29	3	0.5	1.9
49	43	41	Tr.	-	1.6
47	42	38	0.2	0.4	2.0
49	41	37	0.6	-	2.7
44	39	34	3	0.2	0.7
47	39	•	Tr.	2	3.5
47	37	34	2	-	2.0
46	36	33	Tr.	-	3.4
49	40	38	3	1	3.4
47	43	40	3	2	0.8
45	40	•	1	2	•
51	45	•	0.5	-	2.3
49	37	29	2	-	2.0
45	34	30	0.1	-	2.2
48	33	31	-	Tr.	4.8
52	37	34	2	Tr.	4.0
50	36	27	-	-	3.9
50	36	30	-	0.1	2.9
50	38	34	0.1	Tr.	2.2
50	36	34	1	-	3.6
47	37	34	3	-	3.5
48	38	34	1	Tr.	3.5
50	42	•	3	3	3.1
51	44	•	1	2	4.1
52	42	39	0.4	1	1.8
52	45	•	1	-	•
51	37	31	-	-	4.4
51	35	•	0.3	Tr.	•
49	35	31	1	0.1	3.1
52	45	39	1	2	2.5

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day mm.	Rainfall. Night mm.	Sunshine to Sunset, hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility 9h. To-day.
Kew	18	bm.c3.	bc3.cm.	bm.bx	50	36	30	-	0.1	2.9	•	•	5
Croydon	244	c.bb.c3.	c3.	bc3.bw	50	38	34	0.1	Tr.	2.2	•	•	6
Greenwich (Royal Observatory) ...	149	b.c	cbc.cb.	c3.mx	49	36	27	Tr.	Tr.	2.0	73	92	3
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	51	35	29	-	-	1.5	85	91	•
Regents Pk. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	0.3	•	•	•
Camden Square	110	bc	cb	•	47	37	30	-	Tr	•	•	94	•
Kensington Palace	80	bbc	co	•	50	37	28	-		•	At 18h. 84	91	•
Hampstead Observatory	450	bcm	bcm	•	48	32	26	0.3	0.3	1.3	•	93	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0.8	9h. 13th.	0.3	0h.-7h. 14th.

Kew Observatory. Max.	Time.	Min.	Time.
0.3	9h 13th	40.1	3h 14th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 13th December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 14th December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
Paris	999.7	WSW	2	c/r	48	1001.1	W	3	c	41	52	41	4	0.4
Brussels	999.6	WSW	2	c/r	43	997.2	WSW	2	c	41	46	41	8	0.5
Berlin	1001.5	ESE	2	m	36						36		Tr.	
Zürich	1000.6	WNW	2	rr	41	1007.0	W	4	c/r	39	41	39	6	2
Rome	1007.0	ESE	2	b	41	1003.9	S	4	DD	52	54	34	-	4

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 15th December 1930.

No. 25,225

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

STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (3)	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)
Lerwick	993.3	+16	SE	3	c/r	44	85	7	9	7	-	4-6	7-8	1500
Stornoway	993.3	+20	~~WNW~~ NE	2	b	42	85	7	-	3	-	0	1	-
Wick	992.1	+24	WNW	2	c	41	95	8	4	-	-	7-8	7-8	1500
Tiree	993.3	+22	NW	3	bc	43	75	8	8	9	3	2-3	2-3	2500
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	9928	+16	WNW	2	c	40	85	7	5	-	-	7-8	7-8	4000
Malin Head	9952	+18	NW	3	bc/p	42	86	7	3	8	-	4-6	4-6	1500
Renfrew	9946	+12	W	1	c	43	76	6	5	-	2	1	7-8	2500
Inchkeith (Edin.)	993.1	+14	WSW	4	c	41	86	6	5	7	-	4-6	7-8	800
Leuchars	9927	+14	WNW	2	c	41	85	8	5	3	-	4-6	7-8	4000
Eskdalemuir	9946	+10	W	3	c/p	37	85	7	5	3	-	2-3	9	1500
Tynemouth	993.1	+8	W	3	bc	43	75	6	2	3	-	4-6	4-6	2500
Blacksod Point	10008	+16	WNW	5	c	44	65	8	3	-	-	7-8	7-8	1500
Aldergrove	9965	+14	WSW	3	bc/pr	37	95	8	9	-	3	4-6	4-6	1500
Donaghadee	9955	+8	WSW	3	c/pr	40	85	8	6	2	-	4-6	7-8	2500
Birr Castle	1000.4	+6	W	2	b	40	85	8	3	-	-	1	1	2500
Holyhead	9977	+2	WN	6	c	44	85	8	8	3	-	7-8	9	1500
Liverpool (Bidston)	9952	+6	WS	5	ph	43	75	7	9	-	-	4-6	4-6	2500
Chester (Scaland)	9973	+2	WS	3	c/p	43	75	8	8	-	3	4-6	7-8	1500
Harrogate	9957	+6	SW	2	r.	39	85	8	6	-	9	7-8	7-8	2500
Spurn Head	9945	+2	W	2	bc	42	95	6	4	1	9	2-3	4-6	4000
Birmingham	9985	0	WSW	2	c	41	85	8	6	1	-	2-3	7-8	2500
Cranwell	9970	+2	WSW	4	bc	42	85	6	-	3	9	0	4-6	-
Gorleston	9959	+4	WN	3	bc	42	95	6	-	3	-	0	2-3	-
Valentia Obs.	1004.7	+4	NW	5	c/pr	45	75	8	9	-	-	9	9	1500
Roches Point	1003.0	+4	NW	4	c	42	86	8	3	-	-	7-8	7-8	1500
Pembroke	9995	0	WN	4	q	45	95	8	3	8	-	4-6	9	1500
Ross-on-Wye	9987	0	WS	3	c	44	75	8	4	-	3	4-6	7-8	4000
Leafield	9986	+6	SWW	3	C	40	85	8	6	7	1	2-3	9	4000
Cardington	9985	0	WSW	3	b	45	65	7	1	5	-	Tr.	1	4000
Winchester	10002	0	SWW	3	bc	46	75	7	8	-	1	4-6	4-6	1500
S. Farnborough	9995	0	WS	4	bc	46	75	8	1	4	9	1	2-3	2500
London (Kew)	9995	-4	WSW	3	b	44	75	5	1	-	8	Tr.	1	4000
Croydon	9999	-2	WS	3	2	46	65	6	1	-	-	1	1	2500
Manston														
Shoeburyness	9991	+10	WS	3	m	43	85	4	-	-	-	0	0	-
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	9987	0	WN	2	bc	44	76	7	1	-	1	1	2-3	4000
Scilly (St. Mary's)	1003.7	-8	NWW	7	PR	46	95	7	8	-	-	7-8	7-8	4000
Falmouth	10044	-10	W	4	bc/pr	46	85	8	3	4	1	2-3	4-6	4000
Plymouth	1002.7	-6	WNW	3	bc/pr	45	85	7	8	3	-	4-6	4-6	4000
Portland Bill	10006	0	WN	5	c	48	66	8	4	8	-	4-6	7-8	2500
Calshot, S'hampton	10006	0	SWN	4	bc	47	66	8	5	-	1	2-3	2-3	2500
Dungeness	*	*	W	3	bc/p	*	*	7	-	5	*	0	2-3	-
Lympne	9992	-2	WSW	2	2	44	76	6	-	-	1	0	Tr.	-
Guernsey	1003.4	-6	W	3	bc	43	65	8	5	-	-	4-6	4-6	2500

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

STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-13 (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)
Lerwick	998.1	+26	SE	3	bc/r	43	85	7	5	-	-	2-3	2-3	1500	1	*
Stornoway	998.1	+24	-	0	bc	37	95	7	1	-	-	2-3	2-3	4000	1	1
Wick	996.5	+30	W	2	bc	40	95	7	8	-	-	4-6	4-6	2500	0	3
Tiree	999.3	+32	NNW	3	bc	45	75	8	5	7	-	2-3	2-3	2500	1	4
Nairn	997.1	*	WSW	1	c	38	85	8	3	-	-	7-8	7-8	2500	1	*
Aberdeen	9962	+20	NW	3	bc	39	95	8	5	-	-	4-6	4-6	2500	1	1
Malin Head	9998	+28	NNW	4	bc/p	44	95	7	3	-	-	4-6	4-6	1500	1	4
Renfrew	9983	+28	W	2	r.	37	95	6	5	2	-	4-6	10	2500	1	*
Inchkeith (Edin.)	9967	+24	NW	2	C	41	95	8	5	1	-	4-6	9	800	0	0
Leuchars	9970	+30	WNW	1	bc	39	85	8	5	-	-	4-6	4-6	2500	1	*
Eskdalemuir	9982	+30	S	1	c	33	95	8	5	-	-	9+	9+	1500	4	*
Tynemouth	996.1	+20	W	2	b	37	85	6	-	-	-	0	0	-	0	2
Blacksod Point	10046	+38	WNW	5	c	44	65	8	3	-	-	7-8	7-8	800	0	4
Aldergrove	10005	+28	WNW	2	bc	36	95	7	8	-	-	2-3	2-3	1500	1	*
Donaghadee	9988	+18	WSW	3	bc	39	85	7	5	-	-	2-3	2-3	2500	1	1
Birr Castle	1003.1	+24	W	1	c	38	85	8	8	-	-	7-8	7-8	2500	1	*
Holyhead	9996	+14	NW	6	pr.	44	86	7	8	-	-	9+	9+	2500	1	3
Liverpool (Bidston)	9985	+16	S	1	c/pr	37	95	7	6	-	-	10	10	2500	1	*
Chester (Scaland)	9992	+18	ESE	2	r.	36	95	5	6	-	-	10	10	800	1	*
Harrogate	9970	+10	SW	1	b	34	95	7	-	-	-	0	0	-	1	*
Spurn Head	9967	+4	WN	3	bc	38	85	6	-	2	-	0	2-3	-	0	2
Birmingham	9988	+12	WNW	3	r.	36	95	6	6	-	-	9	9	2500	1	*
Cranwell	9982	+10	W	2	bc	37	95	6	5	-	-	4-6	4-6	4000	1	*
Gorleston	9988	+4	WSW	2	b	38	95	6	-	-	-	0	0	-	0	1
Valentia Obs.	1007.2	+22	NWN	4	c/pr	45	75	8	9	-	-	9	9	2500	1	4
Roches Point	1004.6	+14	NW	4	bc	41	95	8	3	-	-	4-6	4-6	1500	1	3
Pembroke	1000.9	+16	NW	5	q	43	75	8	3	-	-	4-6	4-6	1500	1	4
Ross-on-Wye	1000.1	+6	W	2	c	38	85	7	9	-	-	9	9	2500	1	*
Leafield	9994	0	WN	3	r.	36	95	8	6	-	-	9+	9+	2600	1	*
Cardington	9993	+6	WSW	2	bc	36	85	6	4	3	1	1	2-3	5700	1	*
Winchester	1000.0	0	WSW	2	bc	38	95	7	8	-	-	2-3	2-3	2500	1	*
S. Farnborough	9996	+2	WSW	1	bc/pr	38	96	7	5	-	-	2-3	2-3	2600	1	*
London (Kew)	9996	0	SWW	2	c	39	95	6	-	4	6	0	7-8	-	1	*
Croydon	9993	0	WSW	3	2	40	85	6	-	3	-	0	4-6	-	1	*
Manston																
Shoeburyness	9993	0	SSW	3	b	37	95	5	-	-	-	0	0	-	1	*
Clacton-on-Sea	9993	+6	W	2	b	38	95	5	-	3	-	2-3	2-3	-	0	1
Felixstowe	9996	+6	WS	1	b	38	95	5	-	-	-	0	0	-	1	1
Scilly (St. Mary's)	1005.1	+8	NWN	6	bc	44	95	8	8	-	-	4-6	4-6	4000	1	4
Falmouth	1003.7	+4	WNW	5	bc	44	85	7	8	3	-	4-6	4-6	4000	1	1
Plymouth	1002.2	+2	NNW	3	z	43	75	6	9	-	-	7-8	7-8	2500	2	2
Portland Bill	9999	-2	WNW	5	PR	45	75	8	6	-	-	7-8	7-8	1500	1	4
Calshot, S'hampton	1000.3	-2	SWW	2	r.	39	95	7	8	7	-	4-6	7-8	2500	1	0
Dungeness	*	*	W	2	z	*	*	6	5	-	*	2-3	2-3	5700	*	1
Lympne	9997	+2	WS	3	z	36	95	6	-	-	-	0	0	-	1	*
Guernsey	1002.3	-6	WNW	4	rr	47	75	7	6	-	-	10	10	1500	1	3

PAST 24 HOURS.

WEATHER. 7h.–13h. 14th (37)	13h.–18h. 14th (38)	18h. 14th to 1h. 15th (39)	1h.–7h. 15th (40)
cir.	cir., bc	bccir.	cir.
b	bc	bc, d	b, bc
c PHR	cbc	bcc	cr. rc
bcpr~~r~~	bcPH	bcb	bbcpr
cir.	c	bcx	bc
czpr.	cbc	crbccr.	bcb
bcphr	bcphr	bcpr.	bcc
bccm.	bccm.	cm.r.	bm.
cbc	cm.m.r.	ci.c.bc	bcc
bccxcbc	bccpr.bc	bcc	c
bxcpr.c	cbxcx	cxbcx	bcx
bc	bcb	bbcoir.	cir
prqc	prqc	c	rx
cbccpr	bch	bc	bcc
bccpr.	cpr.bc	b	bcpr.bc
bcpr	bbccpr	cbc	bcxc
c, pr.	pcc	pr.bc	bc
prbcp	CPpr	PRHb	prhcb
bcc.jp	RPH.	orber.m	bcxcm.
cbir.	cb	b	bbccir.
bc	bc	bczx	bcx
bbc	bccpr.	cbx	bx
bm.bc	bcm.bc	bcm.b	bm.x
cbc 2	bcbz.	bm.m.	bmffx
bccpr~~y~~	cpbcp.c	cpr.bcc	cr.c
bcpc	cpbc	bcbw	bbccw
bccirq	bcphr.q	bcq	bcr.q
bbcc	cpc	cp.b	bbcc
bbcc	bcbc~~kpr~~	cr.bx	bx
bxwb	b c.	bwm.	offe
bwbm.	bcpr.cbc	bcb	bxbcc
bxb	b, cpr	bccpr.sb	b, co
bm.	bm.cm.	cm.Rbm.	bm.cm.isc.
bz.	bbcz.	orr.bcm.	cm.m
bcbm	bm.	bmx	bFx
bc	bcbm	bm	bmbcm
bcb	bbcz.bm.	bm.w	FFx
bccqp	cqp	bcp.	bc
bcP	bcqp	bcPHq	bcP
bccpr	cpr m.	cm.pr.b	bbcpr.
bbc	cpr.c	0	bbc
bwb	bc, pr.c	bw	bwbc.bcx
b	b	.	z
bccbm.	bz.m.	bbcmwx	bmxcom.
cprbc	corr	cphr	cphr

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

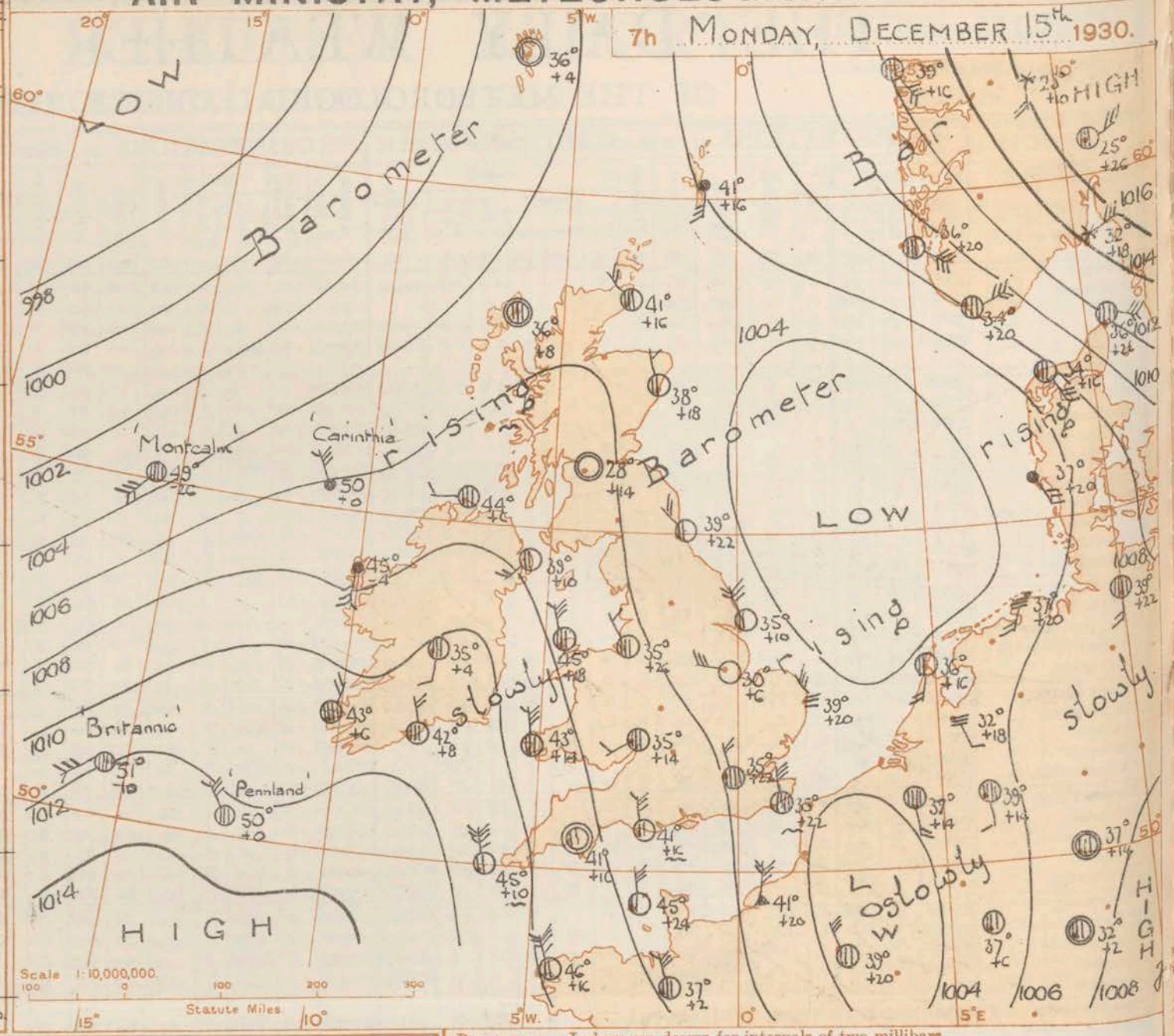
REPORTS from HEALTH RESORTS for 14th December 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 13th to 9h. 14th	TEMPERATURE. Max. 9h.—17h. 14th	RAINFALL. Night. 17h. 13th to 9h. 14th	RAINFALL. Day. 9h.—17h. 14th	SUNSHINE. Sunrise to Sunset. 14th
Dunbar	bcc	mo	38	41	-	-	0.0
Berwick-on-T.	cprc	bcc	37	43	-	Trace	1.9
Douglas	cbbc	bbcirh	40	43	Trace	0.5	3.3
Llandudno	c	cip	42	44	Trace	0.3	0.8
Colwyn Bay	b	boro	41	43	-	2	0.2
Rhyl	bcprc	crhbc	41	45	0.1	3	2.4
Wallasey	ciro	oirhc	42	44	2	2	0.0
Southport ‖	cpchc	cipc	43	44	0.5	2	1.8
Blackpool	cop	copc	42	44	-	3	1.3
Morecambe	dpbcc	robcr	41	43	0.3	2	0.5
Ilkley	bccop	pc bc	39	44	0.6	0.5	1.2
Cleethorpes	mcb	bco	37	44	0.2	-	3.8
Mablethorpe	bcbm	bccm	36	42	Trace	-	4.3
Skegness							
Aberystwyth	c	cpr	43	44	Trace	1	0.1
Bath	bbc	bbcpc	34	46	-	0.3	5.0
Cheltenham †	bwzbc	corcm	36	44	-	1	3.2
Leamington Spa	bc	bcco	35	45	0.2	-	3.5
Lowestoft	ircbc	b	37	43	0.4	-	3.6
Dovercourt	wbc	bc	37	Mx	Trace	-	5.6
Maldon	b	bm	35	45	-	-	4.7
Southend	b	bccz	35	43	Trace	-	2.2
Ilfracombe	o	PH	45	49	2	1	0.0
Bude	bcbc	bcpc	42	49	2	1	1.2
St. Ives	p	p	45	48	2	5	2.2
Penzance	bcir	cbcir	45	50	3	1	2.9
Torquay	pbcjp	bcpcp	38	48	Trace	0.6	4.5
Jersey	rbc	bcp	44	50	3	1	3.3
Weymouth	bbcp	bcp	40	49	-	1	3.9
Bournemouth	b	bbcc	36	46	-	-	3.8
Ventnor	bcb	bbc	40	48	-	-	5.0
Southsea	bbc	Po	40	46	-	Trace	4.8
Bognor Regis	b	bbc	36	46	-	-	5.1
Littlehampton	bbc	bc	35	46	-	-	5.9
Worthing	b	bbc	37	46	Trace	-	6.0
Brighton	bc	bc	38	46	-	-	6.0
Eastbourne †	b	b	39	45	-	-	6.1
Hastings †	bmb	b	36	45	0.3	-	6.1
Folkestone	x bcb	b	37	46	Trace	-	4.8
Dover	mcb	b	38	46	-	-	5.0
Deal	bcbcb	b	38	44	-	-	4.2
Tunbridge Wells	b	b	34	46	-	-	6.0
Ramsgate	bc	bcb	38	45	-	-	4.0
Margate	bc	bc	40	46	-	-	4.2

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h MONDAY, DECEMBER 15th 1930.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 15th Dec., 1930.
1. S.E. England 2. E. England... 3. E. Midlands	Wind northwest or west, moderate, backing; cloudy; bright intervals; occasional local showers; normal temperature, perhaps local ground frost at night.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Wind northwest or west, moderate to strong, backing; cloudy; some bright intervals; perhaps rain later; somewhat milder.
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland	Wind west or southwest, moderate, freshening; cloudy; bright intervals; perhaps rain later; becoming milder.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. / B. N.W. Scotland.	Wind southwesterly, moderate or fresh, stronger at times on coast; cloudy; some rain; milder.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind becoming southwesterly, moderate or fresh; fair today, perhaps rain tomorrow; perhaps local frost tonight, milder tomorrow.
17. N.W. Ireland	Wind south or southwest, moderate to strong; variable sky; rain at times; normal temperature.
18. N.E. Ireland 19 S.E. Ireland 20. S.W. Ireland	Wind southwesterly, fresh, stronger at times locally; occasional rain; perhaps showers and bright intervals tomorrow; rather mild.

H.M. Stationery Office Press, Kingsway W.C.2 Fr. 2497/2165. Wt. 26. D.6026. Gp. 908. 3/3

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

GENERAL INFERENCE.

A comparatively feeble wedge of high pressure is moving eastwards across the country and will be followed by secondary disturbances associated with a depression southwest of Iceland. Weather will be cloudy generally, though with bright intervals. Some rain is probable in the West.

FURTHER OUTLOOK.

Rather unsettled weather; milder in eastern districts.

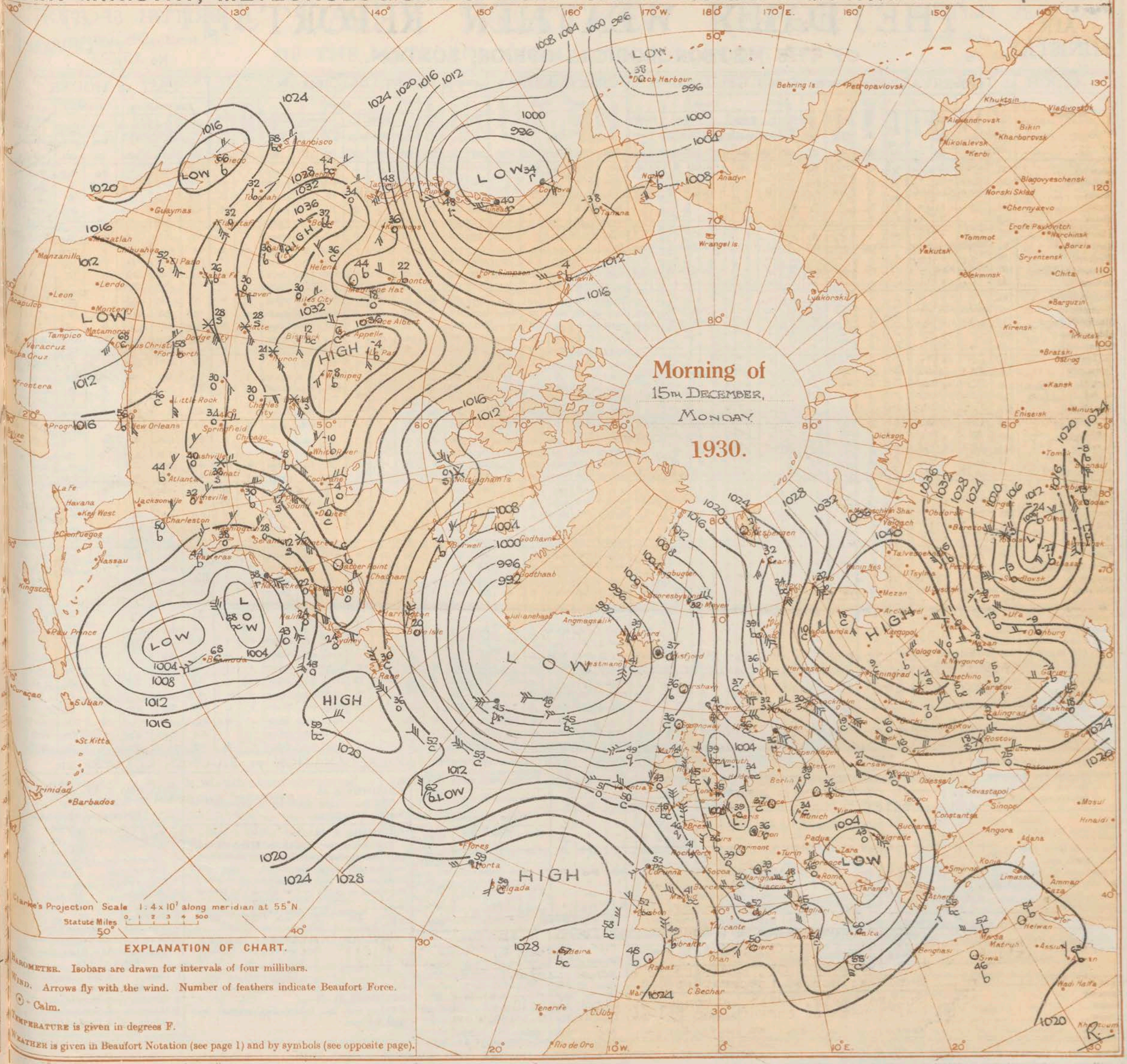
Time of issue of Gale Warning.

▼ South cone at 0800 on 11th in 17 and 20.

Forecasts issued at 1005 G.M.T.

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

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


Morning of
15th DECEMBER,
MONDAY
1930.
LOW
HIGH
Dutch Harbour
Behring Is
Petropavlovsk
Anadyr
Wrangel Is
Fort Simpson
Tatana
Coppermine
Prince Rupert
Vancouver
Victoria
San Francisco
Guaymas
Manzanillo
Mazatlan
Chihuahua
El Paso
Leon
Lerdo
Monterey
Tampico
Matamoros
Veracruz
Corpus Christi
Fort Worth
Dodge City
Little Rock
New Orleans
Springfield
Chicago
Cincinnati
Atlanta
Jacksonville
Havana
Key West
Charleston
Nassau
Kingston
Cienfuegos
Port Prince
Bermuda
Curaçao
St Juan
St Kitts
Barbados
Trinidad
Flores
Horta
Belgada
Terceira
Tenerife
C. Juby
Rio de Oro
Gibraltar
Rabat
Oran
C. Bechar
Algiers
Marseilles
Barcelona
Madrid
Lisbon
Corunna
Biscay
Berlin
Munich
Vienna
Budapest
Belgrade
Bucharest
Odessa
Sevastopol
Constantza
Sinope
Angora
Adana
Smyrna
Konia
Rome
Naples
Taranto
Malta
Benghasi
Siwa
Matruh
Assiut
Wadi Halfa
Khartoum
Aden
Mukalla
Socotra
Padua
Turin
Zara
Belgrade
Copenhagen
Stockholm
Oslo
Bergen
Aalborg
Thorshavn
Westmanö
Reykjavik
Julianehaab
Godthaab
Godhavn
Angmagssalik
Sydney
Belle Isle
Harrington
Cape Race
Montreal
Toronto
Winnipeg
Moose Jaw
Prince Albert
Medicine Hat
Calgary
Edmonton
Helena
Miles City
Huron
Omaha
Denver
Salt Lake
Boise
Portland
San Francisco
Seattle
Victoria
Prince Rupert
Dawson
Whitehorse
Fort Simpson
Aklavik
Coppermine
Tatana
Nome
Dutch Harbour
Behring Is
Petropavlovsk
Khutsin
Vladivostok
Alexandrovsk
Bikin
Kharbarovsk
Nikolaievsk
Kerbi
Blagovyeschensk
Norski Skiad
Chernyaevo
Erofe Pavlovitch
Nerchinsk
Borzia
Sryentensk
Tommot
Yakutsk
Olekminsk
Chita
Barguzin
Irutsk
Kirensk
Bratsk Ostrog
Kansk
Eniseisk
Minusinsk
Tomsk
Barnaul
Dickson
Lyakorskie
Wrangel Is
Mezan
Archangel
Kargopol
Vologda
N. Novgorod
Leningrad
Smolensk
Moscow
Kazan
Ufa
Orenburg
Saratov
Kalingrad
Rostov
Batoum
Yekaterinburg
Sverdlovsk
Tyumen
Omsk
Barnaul
Tomsk
Irkutsk
Verkhoyansk
Obdorsk
Barezov
Tyumen
Tavda
Perm
Vyatka
Kazan
Vologda
Archangel
Mezan
Kargopol

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 15th December 1930.

No. 25,225

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

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)
Lerwick	54	1004·6	+1·2	SSE	13	fr	42	86	7	6	2	-	4·6	9	1500
Stornoway ...	34	1005·3	+1·6	—	0	b	36	95	7	—	—	—	0	0	—
Wick	81	1002·0	+2·4	WNW	2	c	40	95	8	8	1	-	4·6	8	1500
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head ...	51	1004·7	+1·4	NW	4	6c/fb	46	86	7	3	-	-	2·3	2·3	1500
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Inchkeith (Edin.)	190	1002·4	+2·4	W	3	6c	40	88	8	5	-	-	4·6	4·6	2500
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth ...	67	1000·3	+1·4	WNW	2	c/r	38	96	6	6	-	-	7·8	7·8	1500
Blacksod Point ...	10	1002·7	+1·0	WNW	4	c	44	75	7	5	-	-	7·8	7·8	2200
Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead... ...	26	1004·3	+2·0	NW	6	6c	46	95	7	5	-	-	4·6	4·6	2500
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate... ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head ...	29	1000·7	+0·8	NW	3	x	37	95	5	5	-	-	4·6	4·6	800
Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	241	1001·9	+2·4	WNW	3	6	32	95	6	-	-	-	0	0	-
Gorleston	14	1001·3	+1·4	NW	1	6	35	95	6	-	-	-	0	0	-
Valentia Obs.† ...	30	1011·4	+2·0	WNW	5	6c9	46	93	8	4	-	-	4·6	4·6	2500
Roches Point ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke... ...	150	1005·0	+1·0	NW	4	fr	43	86	8	8	-	-	4·6	4·6	2500
Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester ...	272	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough ...	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew) ...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Croydon	244	1002·2	+1·2	NW	1	x	36	95	5	5	-	-	9+	9+	800
Manston	136	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea ...	55	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Scilly (St. Mary's)	163	1008·m	+1·2	NNW	7	6c	46	75	7	2	-	-	4·6	4·6	4000
Falmouth... ...	200	1006·7	+1·2	NW	5	PR	41	95	7	3	-	-	4·6	4·6	4000
Plymouth... ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill ...	32	1002·7	+1·4	NW	4	6	41	85	8	-	-	-	0	0	-
Calshot, S'hampton	8	1002·2	+1·0	WNW	3	6	35	95	7	-	-	-	0	0	-
Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	347	1000·9	+0·6	NNW	3	m	35	95	4	-	-	/	0	7·8	-
Guernsey	173	1003·9	+1·0	NNW	3	6c	44	65	8	5	-	-	4·6	4·6	2500

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

STATIONS.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
Lerwick	1007·4	+1·6	SSE	3	fr	41	85	7	6	2	-	7-8	9	1500	1	*
Stornoway ...	1004·9	+·8	—	0	c	36	93	7	1	7	-	4-6	7-8	4000	1	0
Wick	1003·5	+1·6	WNW	2	c	41	95	7	8	—	-	10	10	1500	1	3
Tiree	1006·6	+·8	—	0	c	38	93	9	5	3	9	Tr.	7-8	4000	1	4
Nairn	1006·8	*	W	1	bc	33	85	8	8	-	-	4-6	4-6	4000	4	*
Aberdeen	1005·8	+·8	NW	1	bc	38	95	8	5	4	-	2-3	2-3	2500	1	1
Malin Head ...	1006·6	+1·6	W	1	c	44	75	7	4	3	-	4-6	9+	4000	0	2
Renfrew	1007·1	+2·4	-	0	b	28	95	6	—	—	-	0	0	—	4	*
Inchkeith (Edin.)	1005·7	+2·0	WSW	3	c	39	85	8	5	1	-	4-6	7-8	1500	0	1
Leuchars	1005·7	+2·0	W	1	c	39	85	7	5	—	-	7-8	7-8	4000	1	*
Eskdalemuir ...	1003·2	+1·6	—	0	bc	34	85	8	5	—	-	4-6	4-6	1500	4	*
Tynemouth ...	1005·0	+2·2	WNW	2	bc	39	95	7	8	—	-	4-6	4-6	1500	1	2
Blacksod Point ...	1008·0	+4	S	3	rr	45	95	7	6	—	-	10	10	<150	1	3
Aldergrove ...	1007·6	+1·0	—	0	c	35	95	7	5	5	-	1	7-8	4000	1	*
Donaghadee ...	1007·3	+1·0	SW	2	bc	39	85	7	3	3	-	4-6	4-6	2500	1	1
Birr Castle ...	1010·2	+·4	S	1	c	35	96	7	—	7	-	0	10	—	1	*
Holyhead... ...	1007·9	+1·8	N	4	bc	45	85	8	7	—	-	2-3	2-3	1500	1	3
Liverpool (Bidston)	1007·3	+1·0	NW'W	2	bc	41	85	8	5	—	-	4-6	4-6	2500	6	*
Chester (Sealand)	1007·5	+2·6	W'N	1	z	35	95	5	5	—	-	7-8	7-8	1500	1	*
Harrogate... ...	1006·4	+2·0	WSW	2	fr	37	95	6	6	—	-	9+	9+	2500	1	*
Spurn Head ...	1005·1	+1·0	NW	5	bc	35	95	6	5	—	-	4-6	4-6	800	5	5
Birmingham ...	1007·5	+1·6	NW	2	bc	34	95	2	—	—	-	0	0	—	1	*
Cranwell	1006·3	+2·6	W	3	b	30	95	6	—	—	-	0	0	—	1	*
Gorleston	1005·3	+2·0	WNW	3	F	29	95	1	5	—	-	10	10	<150	4	1
Valentia Obs.† ...	1011·7	+·6	NNE	2	c	43	85	8	5	—	-	10	10	1500	1	*
Roches Point ...	1011·3	+·8	NW	2	c	42	95	8	5	—	-	7-8	7-8	1500	1	3
Pembroke... ...	1008·4	+1·4	NNW	4	c	43	85	8	1	3	2	1	9	2500	1	3
Ross-on-Wye ...	1007·7	+1·4	WSW	1	c	35	95	8	5	—	-	10	10	4000	1	*
Leafield	1006·7	+2·0	NW	3	b	29	95	6	5	—	-	1	1	800	4	*
Cardington ...	1006·7	+2·4	NW	1	F	32	95	1	5	—	-	10	10	<150	1	*
Winchester ...	1006·9	+2·4	NW'N	3	c	34	95	7	5	3	-	4-6	9	2500	4	*
S. Farnborough ...	1006·7	+2·0	WNW	2	m	38	95	4	5	—	-	10	10	1500	1	*
London (Kew) ...	1007·2	+3·0	NW	1	c	34	95	5	5	—	-	10	10	1500	1	*
Croydon	1006·7	+2·2	NW'N	2	m	35	95	4	5	—	-	10	10	800	1	*
Manston	1007·2	+3·0	NW	1	c	34	95	5	5	—	-	10	10	1500	1	*
Shoeburyness ...	1005·7	+2·4	—	0	bf	32	95	1	—	—	-	0	0	—	0	*
Clacton-on-Sea ...	1005·2	+3·0	NNW	3	c	33	95	6	—	1	-	0	7-8	—	0*	1
Felixstowe ...	1006·2	+3·0	NNW	2	F	31	95	1	5	—	-	10	10	<150	1	1
Scilly (St. Mary's)	1011·3	+1·0	N'W	6	bc	45	75	8	2	—	-	4-6	4-6	4000	0	4
Falmouth... ...	1010·3	+1·2	NNW	4	bc	44	85	8	5	—	8	2-3	4-6	4000	1	1
Plymouth... ...	1009·0	+2·6	—	0	bc	41	85	8	3	—	3	Tr.	2-3	2500	(2)	0
Portland Bill ...	1006·4	+1·6	NNW	4	bc	41	75	8	4	—	-	2-3	2-3	2500	1	4
Calshot, S'hampton	1006·6	+2·2	NW	3	bc	36	85	7	5	—	-	4-6	4-6	2500	1	1
Dungeness ...	*	*	N	2	bc	*	*	4	5	—	*	4-6	4-6	800	*	*1
Lympne	1004·3	+2·2	NNW	4	z	35	95	5	5	—	-	10	10	450	1	*
Guernsey	1007·5	+2·4	NNW	3	bc	44	65	9	5	—	-	4-6	4-6	1500	1	3

PAST 24 HOURS.

STATIONS.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 14th Hrs. (36)
Lerwick	44	40	*	0·6	0·4	0·0
Stornoway ...	42	34	*	0·2	1	4·4
Wick	42	39	*	-	Z	*
Tiree	45	38	30	7	0·3	1·3
Nairn	40	32	*	3	-	0·0
Aberdeen	41	37	33	Tr.	2	0·0
Malin Head ...	44	43	*	2	0·4	0·1
Renfrew	44	28	19	0·1	Tr.	2·9
Inchkeith (Edin.)	41	38	37	Tr.	Tr.	2·4
Leuchars	42	34	30	0·2	-	0·2
Eskdalemuir ...	38	32	23	1	—	2·4
Tynemouth ...	44	35	31	-	2	*
Blacksod Point ...	46	42	*	4	2	*
Aldergrove ...	39	33	26	0·2	0·3	3·6
Donaghadee ...	41	36	*	1	0·2	*
Birr Castle ...	41	34	30	1	—	2·8
Holyhead... ...	45	43	40	Tr.	Tr.	0·9
Liverpool (Bidston)	43	36	31	2	3	2·8
Chester (Sealand)	44	29	24	4	1	2·1
Harrogate... ...	42	32	27	Tr.	0·4	3·1
Spurn Head ...	43	34	*	-	—	3·3
Birmingham ...	42	33	27	Tr.	—	2·2
Cranwell	43	29	25	-	—	3·8
Gorleston	44	29	28	-	—	3·5
Valentia Obs.† ...	46	43	41	5	0·5	0·1
Roches Point ...	44	40	*	3	Tr.	*
Pembroke... ...	46	42	*	0·1	Tr.	0·1
Ross-on-Wye ...	44	32	20	0·2	0·1	2·5
Leafield	43	29	20	3	0·1	3·6
Cardington ...	45	31	28	0·1	Tr.	5·9
Winchester ...	46	30	24	0·1	—	5·0
S. Farnborough ...	46	32	23	0·3	Tr.	5·3
London (Kew) ...	44	33	27	-	1	4·9
Croydon	46	35	27	-	1	5·8
Manston	43	31	27	-	—	3·6
Shoeburyness ...	44	32	29	-	—	5·6
Clacton-on-Sea ...	44	32	29	-	—	5·6
Felixstowe ...	38	30	26	-	—	5·1
Scilly (St. Mary's)	47	42	*	4	Tr.	2·7
Falmouth... ...	48	38	*	1	6	3·5
Plymouth... ...	48	39	37	2	0·2	2·6
Portland Bill ...	49	38	*	0·1	1	*
Calshot, S'hampton	47	33	29	1	—	4·6
Dungeness ...	46	31	*	Tr.	Tr.	*
Lympne	44	33	22	-	Tr.	5·7
Guernsey	49	41	36	1	3	3·8

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility 9h. To-day.
KEW	18	bm.	bm,cm,	cm,fbm,c	44	33	27	—	1	4·9	*	*	6
CROYDON	244	bz	bbcz	crr,bcm,	46	35	31	—	1	5·8	*	*	3
GREENWICH (Royal Observatory) ...	149	bf	bbcbxf	cr,dbcf	45	33	28	—	Tr.	3·2	77	94	3
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·4	*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	45	34	29	0·5		2·2	96	90	*
REGENTS PK. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	2·2	*	*	*
CAMDEN SQUARE	110	bbc	bcco	*	43	33	30	0·3	—	*	At 18h.	91	*
KENSINGTON PALACE	80	bc	bc	*	44	33	29	—	0·7	*	94	92	*
HAMPSTEAD OBSERVATORY	459	bcmbor	o	*	43	28	22	1	Tr.	4·1	*	88	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON. Max.	Time.	Min.	Time.
1·0	17h. 14th.	<0·3	1-7h. 15th.

KEW OBSERVATORY. Max.	Time.	Min.	Time.
0·4	11h. 14th.	0·1	3h. 15th.

FOREIGN OBSERVATIONS.

STATIONS.	18h. G.M.T. 14th December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 15th December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
PARIS	1003·7	W	2	bc	43	1003·5	NW	2	c	39	48	39	—	*
BRUSSELS	1001·1	SW	2	b	39	1004·4	SE	2	c	37	43	34	Tr.	0·1
BERLIN						1007·3	SSW	2	c	39		37		0·5
ZÜRICH						1009·6	SW	1	m	37		36		1
ROME	1002·1	—	0	dd	48	1008·0	ESE	4	bc	43	55	*	35	*

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 16th Dec. 1930.

No. 25,226.

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

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)
Lerwick	1002.4	0	SSE	3	fr.	41	85	7	8	7	-	4-6	7-8	1500
Stornoway ...	1004.6	-6	SSW	3	r	43	75	8	3	7	-	4-6	7-8	4000
Wick	1007.2	+4	SSE	3	c	44	85	8	8	7	8	4-6	7-8	1500
Tiree	1005.3	-16	SSE	4	c.	44	85	9	6	7	8	2-3	10	2500
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1007.1	0	WNW	3	c	42	85	7	8	-	-	7-8	7-8	2500
Malin Head ...	1005.7	-14	S	3	c	42	95	7	5	2	-	2-3	9+	2500
Renfrew	1008.2	+2	-	0	bcf	30	95	7	5	-	1	2-3	2-3	2500
Inchkeith (Edin.)	1007.4	+8	NSW	2	w	41	85	4	5	8	-	4-6	7-8	800
Leuchars	1007.3	+2	NSW	1	bc	40	85	7	4	-	-	4-6	4-6	4000
Eskdalemuir ...	1008.6	+4	-	0	bc	38	85	8	-	-	1	0	2-3	-
Tynemouth ...	1007.4	+4	W	1	w	42	85	4	2	3	-	2-3	2-3	2500
Blacksod Point ...	1004.8	-20	S	4	r	48	95	7	6	-	-	10	10	*
Aldergrove ...	1008.1	-8	SE'S	2	c	39	95	6	-	7	-	0	10	-
Donaghadee ...	1008.0	0	SW	2	c	40	85	7	5	-	-	7-8	7-8	1500
Birr Castle ...	1009.0	-14	S	1	ir.	41	95	6	6	-	-	10	10	2500
Holyhead	1009.2	-2	W'N	3	c	46	95	9+	5	7	2	4-6	9+	1500
Liverpool (Bidston)	1009.0	+8	NSW	3	bcm.	44	85	6	7	-	6	1	2-3	4000
Chester (Sealand)	1009.9	+6	-	0	bcm.	45	85	7	-	3	4	Tr.	4-6	4000
Harrogate... ...	1008.3	+14	SW	1	b	45	75	7	-	3	-	0	Tr.	-
Spurn Head ...	1007.8	+4	W	1	cm.	40	95	5	5	3	-	4-6	7-8	800
Birmingham ...	1009.7	+4	W	1	bcf	41	85	3	5	4	-	0	4-6	-
Cranwell	1009.3	+10	SW	2	bcf	37	95	5	5	3	0	2-3	4-6	1500
Gorleston	1009.0	+8	WNW	3	bcf	32	95	7	5	5	-	7-8	7-8	220
Valentia Obs. ...	1008.1	-26	S'E	4	r	46	95	7	5	5	2	7-8	10	800
Roches Point ...	1010.4	-14	SW	3	c	47	95	7	3	-	-	9	9	1500
Pembroke... ...	1010.3	-2	NW	2	c	46	75	7	4	-	-	9+	9+	2500
Ross-on-Wye ...	1010.2	+6	W'S	2	c	43	75	8	4	-	-	9	9	4000
Leafield	1010.1	+16	WNW	3	c	36	95	6	5	-	-	10	10	4000
Cardington ...	1010.2	+10	NSW	2	f	33	95	1	-	-	-	10	10	450
Winchester ...	1010.7	+6	NW'W	2	b	39	85	6	1	-	-	Tr.	Tr.	2500
S. Farnborough ...	1010.3	+10	-	0	m	35	95	4	5	-	-	10	10	800
London (Kew) ...	1010.8	+8	WNW	1	m	35	85	4	5	-	-	10	10	220
Croydon	1010.4	+6	NW	1	m	34	95	4	5	-	-	10	10	450
Manston														
Shoeburyness ...	1010.0	+14	NW	3	bf	34	95	3	-	-	-	0	0	-
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	1010.4	+14	NW	2	F	33	95	1	-	-	-	10	10	<150
Scilly (St. Mary's)	1013.1	+4	NW	1	c	48	85	8	2	-	-	4-6	9+	4000
Falmouth... ...	1013.8	+2	WNW	2	c	47	75	7	5	-	-	9	9	4000
Plymouth... ...	1011.3	+6	WNW	1	m	45	85	4	5	-	6	7-8	10	4000
Portland Bill ...	1010.9	+8	WNW	3	c	44	65	8	4	7	-	4-6	7-8	2500
Calshot, S'hampton	1010.6	+10	NNW	2	bc	40	85	6	1	-	-	1	1	4000
Dungeness ...	•	•	N	2	bc	•	•	2	5	-	•	10	10	450
Lympne	1009.0	+14	NNW	4	bc	34	95	3	5	-	-	10	10	220
Guernsey	1011.2	+10	-	0	b	47	65	8	5	-	-	4-6	4-6	2500

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

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)
Lerwick	1009.0	-6	SSE	4	ir.	42	95	7	6	2	-	4-6	9	1500	1	•
Stornoway ...	1000.7	-12	SSE	4	c	45	75	8	5	-	-	10	10	4000	1	4
Wick	1005.4	-6	SSE	3	c	44	95	7	8	-	-	7-8	7-8	1500	0	3
Tiree	1001.8	-22	SSE	6	ir.	43	75	8	6	2	-	7-8	10	1500	1	4
Nairn	1004.7	•	-	0	c	35	85	8	6	-	-	7-8	7-8	4000	4	•
Aberdeen	1006.6	-4	WNW	2	bc	35	95	8	5	-	-	2-3	2-3	2500	1	1
Malin Head ...	1001.2	-28	S	4	r.	41	95	8	6	-	-	10	10	800	1	3
Renfrew	1006.7	-14	NE	1	of-	33	95	8	5	-	-	10	10	2500	4	•
Inchkeith (Edin.)	1007.1	-4	WSW	1	cm.	39	95	8	5	-	-	4-6	7-8	800	0	0
Leuchars	1007.4	+2	-	0	c	34	95	8	5	-	-	10	10	2500	1	•
Eskdalemuir ...	1008.5	0	-	0	o	31	95	7	5	-	-	10	10	4000	4	•
Tynemouth ...	1008.1	+6	W	1	bcf	39	95	7	5	-	-	4-6	4-6	2500	1	2
Blacksod Point ...	9998	-20	S	5	r	48	95	7	6	-	-	10	10	*	1	4
Aldergrove ...	1005.0	-24	SSE	3	r.	39	85	7	5	2	-	4-6	10	4000	1	•
Donaghadee ...	1005.4	-16	S'W	1	o	40	85	7	5	-	-	10	10	1500	0	0
Birr Castle ...	1003.7	-26	SE	2	r	42	95	6	6	-	-	10	10	2500	1	•
Holyhead... ...	1007.9	-10	SWS	4	c	46	85	6	5	2	-	7-8	10	1500	1	1
Liverpool (Bidston)	1009.0	0	S	3	c	40	85	5	5	-	-	9+	9+	2500	0	•
Chester (Sealand)	1010.0	0	SE	2	m	36	95	4	-	7	-	0	7-8	-	1	•
Harrogate... ...	1009.5	0	SW	1	b	37	85	6	-	-	-	0	0	-	1	•
Spurn Head ...	1009.6	+4	SW	2	bcm	35	95	4	5	-	-	4-6	4-6	450	0	3
Birmingham ...	1010.8	+4	SW	2	cm.	37	95	5	5	3	-	0	7-8	-	1	•
Cranwell	1010.8	+10	NSW	2	cf	35	95	5	6	-	-	9+	9+	2500	1	•
Gorleston	1011.9	+14	W'N	1	F	30	95	5	6	-	-	10	10	450	4	•
Valentia Obs. ...	1002.0	-26	SSE	5	RR	50	95	6	6	-	-	10	10	800	2	4
Roches Point ...	1005.9	-20	SW	4	r	48	95	7	6	-	-	9	9	800	1	3
Pembroke... ...	1009.0	-8	SW	3	c	46	75	8	5	2	-	4-6	10	2500	1	2
Ross-on-Wye ...	1010.9	+4	S	3	cm.	38	85	7	5	-	-	9+	9+	4000	1	•
Leafield	1011.4	+6	S'W	2	bc	35	95	6	5	-	-	2-3	2-3	4000	1	•
Cardington ...	1011.8	+10	SW	2	f	33	95	2	-	-	-	10	10	<150	1	•
Winchester ...	1012.3	+14	ESE	1	b	31	95	6	-	7	-	0	1	-	1	•
S. Farnborough ...	1012.1	+10	-	0	F	32	95	1	-	-	-	10	10	<150	1	•
London (Kew) ...	1012.7	+12	SW	1	F	34	95	1	-	-	-	10	10	<150	1	•
Croydon	1012.5	+14	W'S	1	f	33	95	2	-	-	-	10	10	<150	1	•
Manston																•
Shoeburyness ...	1012.2	+20	WNW	2	bf	30	95	2	-	-	-	0	0	-	0	•
Clacton-on-Sea ...	1012.1	+14	NNW	3	F	31	95	1	5	-	-	10	10	<150	0	1
Felixstowe ...	1012.5	+12	NW	2	F	31	95	1	-	-	-	10	10	<150	1	1
Scilly (St. Mary's)	1011.0	-16	SSW	3	r	47	95	7	6	-	-	10	10	2500	1	2
Falmouth... ...	1012.2	-8	SWS	2	c	46	75	7	5	-	7	2-3	10	4000	1	0
Plymouth... ...	1011.7	-2	-	0	cm	42	95	4	5	7	-	4-6	7-8	2500	2	0
Portland Bill ...	1011.5	+4	NNW	2	b	40	75	8	-	-	-	0	0	-	1	3
Calshot, S'hampton	1011.9	+10	NW'W	1	b	35	95	6	-	7	-	0	1	-	0	0
Dungeness ...	•	•	N	2	F	•	•	0	5	-	•	10	10	<150	•	0
Lympne	1012.6	+22	N	2	of	31	95	1	5	-	-	10	10	<150	1	•
Guernsey	1012.4	+10	-	0	bc	42	85	8	5	-	-	4-6	4-6	2500	1	1

PAST 24 HOURS. WEATHER.

STATIONS. (For heights see p. 4.)	7h.–13h. 15th (37)	13h.–18h. 15th (38)	18h. 15th to 1h. 16th (39)	1h.–7h. 16th (40)
Lerwick	ir., br	fr., ir.	ir., bc	bc pr rr dd
Stornoway ...	bc, cf	c	corr	c
Wick	c	c	c	c
Tiree	c	c	cR rr	r. r.
Nairn	bc	bc x	bc x	c
Aberdeen	b bc c	bc bm.	bm x bc	bc cm.
Malin Head ...	c	or fm m	or fm m	c
Renfrew	bm x bc ff	bc cff	c fm r. c	bm orr m
Inchkeith (Edin.)	bc cum m	bc cm. m.	c m m	orr rr
Leuchars	c bc	bc cm.	c bc m.	bc or r m.
Eskdalemuir ...	bc x bc	bc c x	ox prs	ox rs rs
Tynemouth ...	bc w	bc ff	bc bf	bc ff
Blacksod Point ...	rr	rr	PR qc	ph q bc
Aldergrove ...	cm.	cr. r.	orr m.	or r o
Donaghadee ...	b cc	co	orr	orr r r.
Birr Castle ...	co ir.	or rr	orr	orr c bc
Holyhead... ...	bc cm.	cm.	c, rr q,	rr rr q,
Liverpool (Bidston)	bc c bc	c	co	orr
Chester (Sealand)	c bc fw	bc cm.	om	or. r
Harrogate... ...	cb	b	bom	OFF s.
Spurn Head ...	bc m 3	c 3 bc w	of m x	oi f
Birmingham ...	cf	bc fw	c bc	bc or. r.
Cranwell	bm x cf	bc f	c f of	of
Gorleston	oc ff	co ff x	of f x	of x bc
Valentia Obs. ...	cr r	orr R R	RR pr c bc	bc
Roches Point ...	cir. c	c, crr	orr	org bc
Pembroke... ...	c	c	orr q,	orr q,
Ross-on-Wye ...	c bc c	cm	cm bc c	orr
Leafield	bc w c	c	bx	bx bc c
Cardington ...	o F F e	o fe fe m fe fe	of me	om.
Winchester ...	c bm.	bm.	bm bx	bc orr
S. Farnborough ...	o m c m	o c m o F	o F f	fo od.
London (Kew) ...	o m.	o m o F	o F	o m.
Croydon	c m o ff m	o m ff	off bc b ff x	bff x bc c m w
Manston				
Shoeburyness ...	b F f	b F f	b F	c p.
Clacton-on-Sea ...	cm ff	co F f	off	off bc b
Felixstowe ...	F x fe fe	fe fe	Fec	cr c bc
Scilly (St. Mary's)	bcc	cir.	rr	orr bc
Falmouth... ...	bcc cir.	co	om. Rq.	om. Rc p. q
Plymouth... ...	bc cm.	cm.	c morr	OR R g mr
Portland Bill ...	bcc	c bc b	bcc	OR R z.
Calshot, S'hampton	bc x bx m.	bm. bm x	bf mm bc w	bc m c o r.
Dungeness ...	f.	f.	•	bc
Lympne	of	of fe	o Fe b Fe c m	cm bc c m.
Guernsey	bc c bc	bc c bc	bc or.	oR rr

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

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

<, less than (for cloud height).

⊕, solar halo. ☾, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

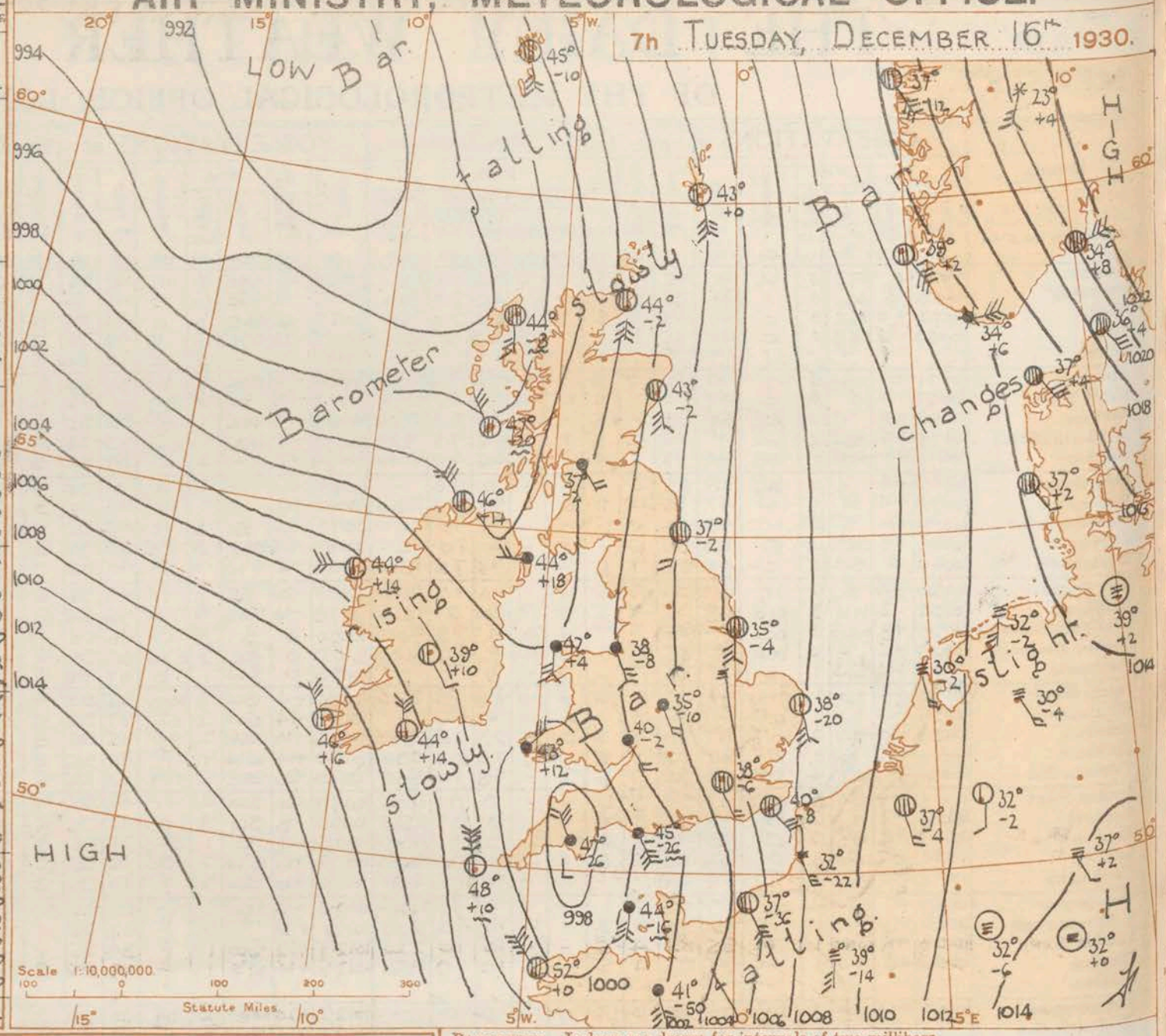
REPORTS from HEALTH RESORTS for....15th. December....1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 14th. to 9h. 15th.	TEMPERATURE. Max. 9h.—17h. 15th.	RAINFALL. Night. 17h. 14th. to 9h. 15th.	RAINFALL. Day. 9h.—17h. 15th.	SUNSHINE Sunrise to Sunset. 15th.
Dunbar	cm₀	bcm₀	38	41	-	-	2·6
Berwick-on-T.	c	bc	37	41	5	-	3·1
Douglas	xbcc	bco	37	44	3	-	2·1
Llandudno	bcc	m₀c	39	47	5	-	3·2
Colwyn Bay	cb	bo	37	48	11	-	3·6
Rhyl	bcm₀	bccm₀	34	45	1	-	3·0
Wallasey	bcb	bcfc	33	47	4	-	4·1
Southport ‖	fbc	bcf	32	44	1	-	4·1
Blackpool	cbc	bcc	33	46	-	-	4·9
Morecambe	zxfob	bco	29	43	1	-	4·2
Ilkley	bbc	bbc	30	43	Trace	-	2·2
Cleethorpes	fcbc	mf	30	40	1	-	4·0
Mablethorpe	bm₀x	bmx	27	39	-	-	3·4
Skegness	xz	zbx	25	36	-	-	1·0
Aberystwyth	cbr	bcc	35	43	2	-	1·9
Bath	mcbcb	bbcc	32	43	-	-	3·5
Cheltenham †	cm₀c	cbccf	32	41	-	-	5·6
Leamington Spa	of	om	27	37	0·2	-	0·0
Lowestoft	f	f	28	30	-	-	0·0
Dovercourt	xf	f	30	35	-	-	0·0
Maldon	xff	fff	31	34	-	-	0·0
Southend	off	offe	32	34	Trace	Trace	0·0
Ilfracombe	c	c	42	47	0·2	-	0·2
Bude	c	o	41	48	-	-	0·1
St. Ives	o	o	40	48	2	-	0·0
Penzance	c	com	44	48	-	-	0·0
Torquay	pbcm	bccm	35	45	0·4	-	2·0
Jersey	rcbc	bcc	41	48	3	-	4·2
Weymouth	bbc	bc	33	44	1	-	4·4
Bournemouth	b	bf	31	43	1	-	5·7
Ventnor	xbz	bz	33	41	-	-	6·1
Southsea	cbc	bm	33	40	0·3	-	4·6
Bognor Regis	bcb	b	34	46	-	-	5·2
Littlehampton	cbc	bc	32	38	-	-	3·6
Worthing	cbc	bc	34	38	Trace	-	4·1
Brighton	cbc	bc	35	40	-	-	5·3
Eastbourne †	cb	bm	34	40	-	-	4·9
Hastings †	cmbc	bcmm	35	40	0·2	-	4·3
Folkestone	xom	dcbcbm	35	35	-	Trace	3·0
Dover	fo	rcfco	35	37	0·3	1	0·6
Deal	oro	o	33	38	1	1	0·0
Tunbridge Wells	ocbc	cof	34	37	Trace	-	1·6
Ramsgate	rom	om	36	39	2	1	0·0
Margate	crm₀	cm₀	36	39	-	1	0·0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h TUESDAY, DECEMBER 16th 1930.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 1/8 clouded. ◕ Sky 1/5 to 1/2 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ≈ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 16th Dec., 1930
1. S.E. England 2. E. England	Wind southeast or east, moderate or fresh; cloudy or dull; some rain; normal temperature today, perhaps colder tomorrow.
3. E. Midlands 4. W. Midlands	Wind southeast to northerly or variable, light to fresh; cloudy; some rain; temperature about normal.
5. S.W. England 6. South Wales	Wind northerly, strong or gale locally at first, moderating; cloudy; bright intervals; showers: normal temperature.
7. North Wales 8. N.W. England	Wind northerly or variable, light to fresh; cloudy; some rain or local sleet: fog later: normal temperature.
9. N. Midlands 10. N.E. England	Wind south or southeast, moderate, perhaps variable later; cloudy or dull; some rain or local sleet; fog later: rather cold.
11. S.E. Scotland	As 14.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland.	Wind northwest or west, moderate or fresh, strong locally; variable sky; showers or occasional rain; normal temperature or rather mild.
14. Mid-Scotland	Wind southeast or south, moderate; cloudy; some rain or sleet; perhaps mist or fog; rather cold.
15. N.E. Scotland 16. Orkneys and Shetlands.	Wind southerly, fresh or strong; cloudy; showers or occasional rain; normal temperature.
17. N.W. Ireland 18. N.E. Ireland 19 S.E. Ireland 20. S.W. Ireland	Wind northwest or west, fresh or strong; variable sky; showers or occasional rain; normal temperature.

GENERAL INFERENCE.

A trough of low pressure extends from Iceland to the Irish Sea. A secondary depression centred over southwest England will move east or southeast. Pressure remains high over Northern Russia and Scandinavia. Cloudy or dull weather with some rain or local sleet will occur in the eastern half of the country. Brighter conditions with showers or occasional rain are probable in the West.

FURTHER OUTLOOK.

Rather cold in the East; milder and becoming unsettled again in the West.

Times of issue of Gale Warnings.

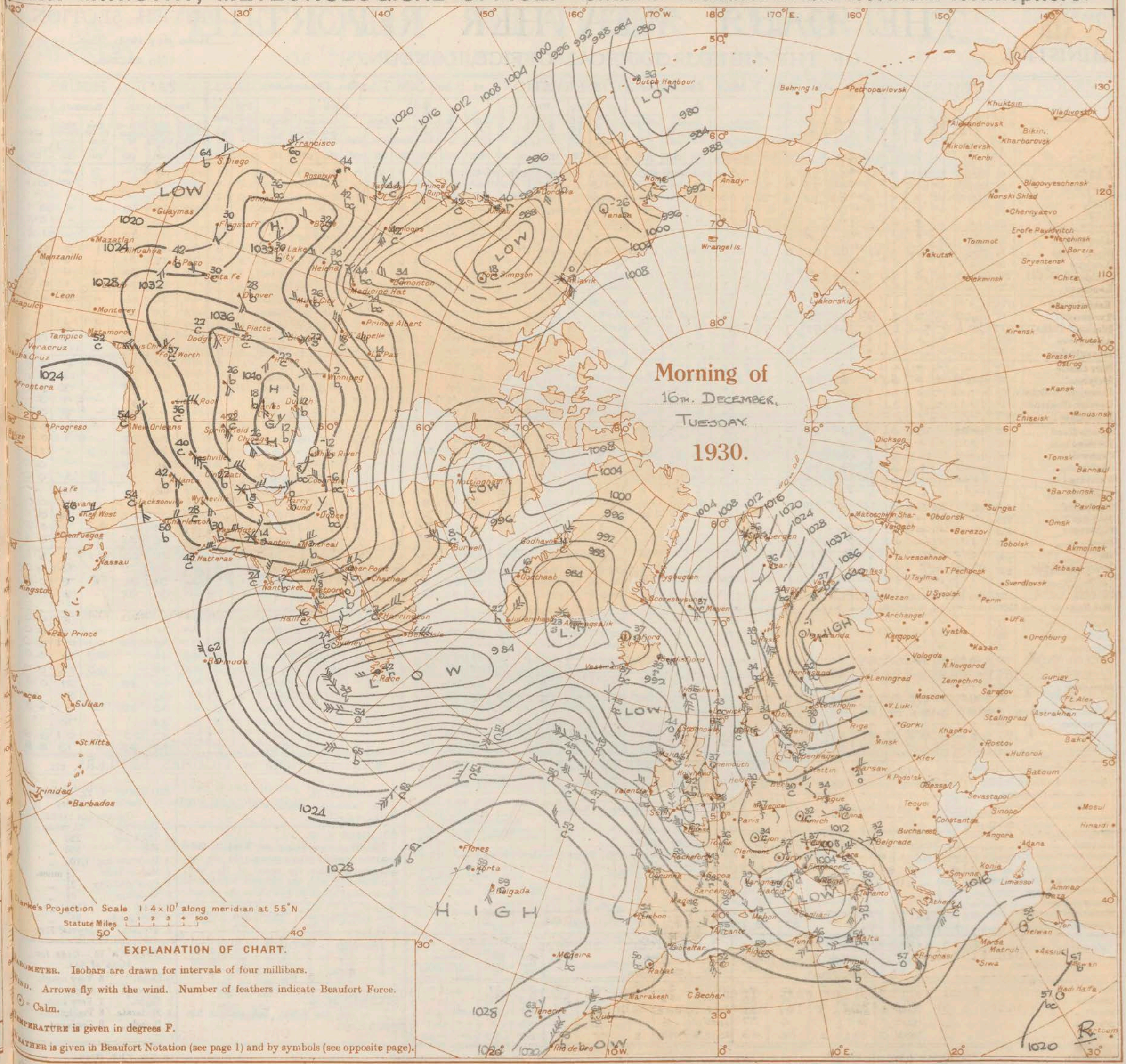
- South cone at 0800 on 11th in 17,20.
- South cone at 1900 on 15th in 15,16.
- South cone at 0810 on 16th in 1.
- North cone at 0810 on 16th in 5.

Forecasts issued at

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

H.M. Stationery Office Press Kingsway W.C.2
F= 2497/2165 Pr. 26 D.6026 Gp. 908 3/

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


Morning of
16TH. DECEMBER,
TUESDAY.
1930.
LOW
HIGH
Dutch Harbour
Behring Is
Petropavlovsk
Nome
Anadyr
Wrangel Is
Yakutsk
Tokyo
Vladivostok
Khabarovsk
Nikolaievsk
Blagovyeschensk
Chernyaevo
Tommot
Yakutsk
Okhotsk
Chita
Irkutsk
Kirensk
Barguzin
Bratsk
Ostrog
Kansk
Yeniseisk
Minusinsk
Tomsk
Barnaul
Barabinsk
Omsk
Tobolsk
Berezov
Surgut
Obdorsk
Dickson
Matochkin Shar
Archangel
Perm
Sverdlovsk
Ufa
Orenburg
Kazan
Vologda
N. Novgorod
Leningrad
Moscow
Saratov
Stalingrad
Astrakhan
Gurjev
Baku
Rostov
Kharkov
Kiev
Gorki
Minsk
Riga
Warsaw
Odessa
Sevastopol
Batoum
Sinope
Angora
Adana
Konia
Smyrna
Constanta
Bucharest
Belgrade
Prague
Vienna
Munich
Paris
Berlin
Copenhagen
Stockholm
Oslo
Bergen
Jan Mayen
Scoresbysund
Godthaab
Godhavn
Julianehaab
Angmagssalik
Ivigtut
Cape Race
Bermuda
Halifax
Sydney
Harrington
Belleisle
Nantucket
Portland
Boston
Cape Hatteras
Montreal
Toronto
Chatham
Cape Point
Burwell
Parry Sound
Duluth
Winnipeg
Chicago
Detroit
Cleveland
Buffalo
Pittsburgh
Nashville
Charleston
Jacksonville
Key West
Havana
Nassau
Cienfuegos
Kingston
Port Prince
Curacao
St. Juan
St. Kitts
Trinidad
Barbados
Flores
Horta
Belgada
Madeira
Lisbon
Gibraltar
Cadiz
Malaga
Alicante
Barcelona
Marseilles
Toulouse
Lyon
Clermont
Rochefort
Valentia
Malin Head
Holyhead
Aberdeen
Lerwick
Thorshavn
Reykjavik
Iceland
Medicine Hat
Edmonton
Prince Albert
Regina
Swift Current
Lake City
Helena
Kamloops
Prince Rupert
Juneau
Dawson
Nome
Roseburg
San Francisco
Los Angeles
San Diego
Phoenix
Flagstaff
Santa Fe
Denver
Dodge City
Amarillo
Fort Worth
Oklahoma City
Little Rock
New Orleans
Vicksburg
Memphis
Springfield
Chicago
Milwaukee
Duluth
Minneapolis
Omaha
Kansas City
Salt Lake City
Boise
Spokane
Portland
Seattle
Tatoosh
Victoria
Vancouver
Prince Rupert
Juneau
Dawson
Nome
Mazatlan
Manzanillo
Acapulco
Leon
Monterey
Tampico
Veracruz
Progreso
Belize
Frontera
Matamoros
Laredo
Brownsville
Galveston
Port Arthur
Abilene
Amarillo
Dodge City
Denver
Pueblo
Santa Fe
Flagstaff
Phoenix
Yuma
Tucson
El Paso
Chihuahua
Guaymas
La Paz
Los Angeles
San Diego
Roseburg
San Francisco
Eureka
Portland
Seattle
Tatoosh
Victoria
Vancouver
Prince Rupert
Juneau
Dawson
Nome
Point Barrow
Herschel Is
Aklavik
Cape Parry
Coppermine
Cape Lambert
Simpson
Cape Kellett
Wrangel Is
Anadyr
Behring Is
Petropavlovsk
Khabarovsk
Nikolaievsk
Vladivostok
Khabarovsk
Nikolaievsk
Kerbi
Khuktsin
Alexandrovsk
Bikin
Kharborovsk
Nikolaievsk
Kerbi
Blagovyeschensk
Norski Sklad
Chernyaevo
Erofe Pavlovitch
Nerchinsk
Borzia
Sryentensk
Chita
Barguzin
Irkutsk
Kirensk
Bratski Ostrog
Kansk
Yeniseisk
Minusinsk
Tomsk
Barnaul
Barabinsk
Pavlodar
Omsk
Tobolsk
Akmolinsk
Atbasar
Sverdlovsk
Perm
Ufa
Orenburg
Kazan
Vyatka
Kargopol
Archangel
Mezen
U. Sysolsk
U. Tsylma
T. Pechorsk
Talvesochnoe
Matochkin Shar
Obdorsk
Berezov
Surgut
Omsk
Tobolsk
Akmolinsk
Atbasar
Sverdlovsk
Perm
Ufa
Orenburg
Kazan
Vologda
N. Novgorod
Leningrad
Moscow
Saratov
Stalingrad
Astrakhan
Gurjev
Baku
Rostov
Hutorok
Batoum
Sevastopol
Sinope
Mosul
Himaidi
Angora
Adana
Konia
Smyrna
Limassol
Ammap
Gaza
Tor
Helwan
Marsa Matruh
Aksiut
Siwa
Tripoli
Benghasi
Malta
Tunis
Algiers
Oran
Tangier
Rabat
Mogador
Marrakesh
C. Bechar
Tenerife
Juby
Rio de Oro
Arcachon
Bordeaux
Nantes
Cherbourg
Le Havre
Ostend
Flushing
Helder
Ymuiden
Valentia
Malin Head
Holyhead
Aberdeen
Lerwick
Thorshavn
Reykjavik
Iceland
Jan Mayen
Scoresbysund
Godthaab
Godhavn
Julianehaab
Angmagssalik
Ivigtut
Cape Race
Bermuda
Halifax
Sydney
Harrington
Belleisle
Nantucket
Portland
Boston
Cape Hatteras
Montreal
Toronto
Chatham
Cape Point
Burwell
Parry Sound
Duluth
Winnipeg
Chicago
Detroit
Cleveland
Buffalo
Pittsburgh
Nashville
Charleston
Jacksonville
Key West
Havana
Nassau
Cienfuegos
Kingston
Port Prince
Curacao
St. Juan
St. Kitts
Trinidad
Barbados
Flores
Horta
Belgada
Madeira
Lisbon
Gibraltar
Cadiz
Malaga
Alicante
Barcelona
Marseilles
Toulouse
Lyon
Clermont
Rochefort

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 16th Dec. 1930.

No. 25,226.

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

STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. mb (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
Lerwick	54	1005.5	-20	SE'E	5	bc	44	75	7	8	1	-	4-6	4-6	1500
Stornoway ...	34	996.3	-12	SSE	6	rr	44	85	7	6	-	-	10	10	4000
Wick	81	1001.5	-14	S	5	c	43	85	8	5	1	-	4-6	10	1500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head ...	51	996.1	-2	WNW	5	c/r	46	95	6	6	2	-	4-6	10	1500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	1003.9	-10	S	2	c	39	95	7	5	1	-	4-6	9	1500
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir ...	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth ...	67	1006.3	-4	S	2	bc	38	95	6	5	-	-	4-6	4-6	1500
Blacksod Point ...	10	1001.6	·	SW	6	c	48	95	7	9	-	-	7.8	7.8	450
Aldergrove ...	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee ...	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle ...	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead... ...	26	1002.8	-28	S	5	rr	43	95	6	6	2	-	7.8	10	800
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate... ...	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head ...	29	1008.6	-2	SSW	4	m	34	95	4	5	-	-	10	10	220
Birmingham ...	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1008.7	-8	SSE	2	f	34	95	3	5	-	-	10	10	<150
Gorleston	14	1011.9	-6	SW	3	f-	28	95	2	5	-	-	10	10	450
Valentia Obs.† ...	30	1004.0	+6	W	6	bc	45	95	8	5	-	-	2-3	2-3	2500
Roches Point ...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke... ...	150	1001.1	-36	SSE	5	rr	45	95	6	6	-	-	10	10	1500
Ross-on-Wye ...	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington ...	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester ...	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew) ...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1010.5	+14	SSE	1	bf	32	95	3	-	-	-	0	0	-
Manston	135	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness ...	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1000.3	-48	NW	6	r.r.	51	95	6	6	-	-	10	10	2500
Falmouth... ...	200	1003.9	-20	SSE	7	RR	47	95	6	6	-	-	10	10	2500
Plymouth... ...	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill ...	32	1006.1	-34	SSE	5	c	48	75	8	4	-	-	10	10	1500
Calshot, S'hampton	8	1008.8	-26	SE'E	3	bc	42	85	6	5	-	-	2-3	2-3	2500
Jungeness ...	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1010.6	-14	SE'S	2	m	37	95	4	5	-	-	9+	9+	2500
Guernsey	173	1008.5	-30	SSW	3	r.r.	46	75	6	6	-	-	10	10	1500

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

Barom. at M.S.L. mb (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	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)
1004.1	0	SSE	6	bc/pr	43	95	8	8	-	-	4-6	4-6	1500	1	*
994.3	-8	SSW	3	o	44	95	6	6	-	-	10	10	4000	2	4
1000.6	-2	S	6	c	44	85	8	5	2	-	4-6	10	1500	0	3
997.9	+20	WNW	4	c	47	75	7	5	7	8	4-6	10	2500	1	4
999.4	0	-	0	c	39	35	8	5	-	-	9	9	2500	0	*
1002.6	+2	SSE	4	c	43	85	6	-	2	-	0	10	-	1	2
998.7	+14	WNW	5	c	46	85	7	5	-	-	9+	9+	2500	0	3
1001.2	-2	ESE	2	rr	37	95	6	6	-	-	10	10	1500	2	*
1002.2	-4	SE	2	r.r.	38	95	8	6	-	-	10	10	800	1	0
1002.9	-2	SE	4	rr	39	85	6	6	-	-	10	10	1500	1	*
1001.8	-4	S'E	3	rs	34	95	6	6	-	-	10	10	450	1	*
1004.1	-2	SW	2	o	37	95	6	6	-	-	10	10	1500	1	2
1003.5	+14	W	5	bc	44	75	7	8	-	-	4-6	4-6	2500	1	4
1000.1	+12	W'S	2	o	41	95	7	5	-	-	10	10	800	1	*
998.9	+18	W	2	o	44	85	7	5	-	-	10	10	800	1	1
1002.7	+10	SE	1	bc	39	85	8	-	4	-	0	2-3	-	1	*
1000.9	+4	S'W	4	r.r.	42	95	5	6	-	-	10	10	800	1	3
1001.6	-8	SE'E	4	rr	37	95	7	6	-	-	10	10	1500	1	*
1003.1	-8	SE'S	4	rr	38	95	5	6	-	-	10	10	1500	1	*
1004.9	-6	SE	2	s.F	32	95	1	5	-	-	10	10	<150	1	*
1006.2	+4	S	4	o	35	95	6	5	-	-	10	10	1500	5	3
1003.9	-10	SSE	2	r.r.	35	95	6	6	-	-	10	10	1500	1	*
1005.8	-12	SE'S	4	f	32	95	3	5	-	-	10	10	<150	1	*
1008.0	-20	S'E	4	bc	34	95	6	4	-	-	4-6	4-6	2500	0	3
1007.0	+16	NW	4	bc	46	65	8	8	-	-	2-3	2-3	2500	1	*
1004.3	+14	N	5	bc	44	85	8	3	-	-	4-6	4-6	1500	1	3
999.5	+12	NE	4	rr	43	95	6	6	-	-	10	10	1500	2	3
1002.4	-12	ESE	2	r.r.	40	95	6	6	-	-	10	10	1500	1	*
1003.3	-14	SE	4	rr	35	95	6	6	-	-	10	10	1500	1	*
1006.1	-20	E'N	1	o	35	95	6	5	-	-	10	10	1500	1	*
1002.8	-38	SE	3	rr	41	95	7	6	-	-	10	10	800	2	*
1004.0	-24	SE	3	id.	39	95	6	6	-	-	10	10	1500	1	*
1005.2	-20	ESE	2	o	39	85	5	5	-	-	10	10	2500	1	*
1006.5	-6	SE'E	2	m.	38	85	6	5	2	-	7.8	10	2500	1	*
1006.9	-10	SE'S	3	c	41	95	7	4	-	-	7.8	7.8	2500	0	*
1007.2	-20	S	4	bc	43	86	7	2	-	-	2-3	2-3	800	0	2
1007.9	-14	SSE	4	bc	41	86	7	5	-	-	4-6	4-6	2500	1	2
1002.2	+10	N'W	8	bc	48	75	8	2	-	-	2-3	2-3	4000	1	4
999.3	0	NW	6	c/pr	48	85	7	8	-	8	4-6	7-8	4000	1	3
997.1	-26	NW	5	r.	47	95	6	6	-	-	10	10	450	2	3
999.7	-26	SE	7	RR	45	85	6	6	-	-	10	10	1500	2	5
1002.7	-34	SE	4	r.r.	44	85	7	6	-	-	10	10	1500	1	2
•	•	SW	4	c	•	•	7	4	7	*	4-6	7-8	2500	•	3
1006.6	-18	ESE	4	m.	40	85	6	5	-	-	9+	9+	1500	1	*
1006.2	-16	S	5	RR	44	95	6	6	-	-	10	10	1500	2	4

PAST 24 HOURS.

STATIONS.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 15th Hrs. (36)
Lerwick	42	41	*	2	4	0.0
Stornoway ...	45	42	*	Tr.	5	0.1
Wick	44	42	*	-	-	*
Tiree	44	42	40	-	7	0.1
Nairn	36	33	*	-	-	3.2
Aberdeen	42	32	28	-	-	1.8
Malin Head ...	44	40	*	1	9	0.1
Renfrew	33	37	31	-	6	0.0
Inchkeith (Edin.)	41	38	32	-	4	1.0
Leuchars	41	32	30	-	1	0.9
Eskdalemuir ...	40	30	26	-	6	4.8
Tynemouth ...	43	35	31	-	-	*
Blacksod Point ...	49	43	*	8	2	*
Aldergrove ...	40	38	37	0.1	16	0.0
Donaghadee ...	42	40	*	-	14	*
Birr Castle ...	42	39	34	2	9	0.0
Holyhead... ...	47	41	39	-	14	0.6
Liverpool (Bidston)	44	36	35	-	5	3.7
Chester (Sealand)	46	35	31	-	4	3.1
Harrogate... ...	45	32	30	-	Tr.	3.8
Spurn Head ...	41	31	*	-	-	3.5
Birmingham ...	42	34	32	-	1	0.5
Cranwell	38	29	25	0.2	-	1.7
Gorleston	32	27	38 27	-	-	0.0
Valentia Obs.† ...	50	45	42	18	3	0.0
Roches Point ...	49	43	*	4	10	*
Pembroke... ...	47	42	*	-	18	0.0
Ross-on-Wye ...	43	37	32	-	5	0.7
Leafield	37	30	28	0.2	1	0.8
Cardington ...	35	30	30	Tr.	Tr.	0.0
Winchester ...	41	29	23	0.1	2	5.1
S. Farnborough ...	35	30	29	-	Tr.	0.0
London (Kew) ...	36	31	31	Tr.	Tr.	0.0
Croydon	35	30	28	-	Tr.	0.0
Manston	*	*	*	*	*	*
Shoeburyness ...	34	31	30	-	Tr.	0.0
Clacton-on-Sea ...	34	31	31	-	-	0.0
Felixstowe ...	33	30	29	0.1	0.1	0.0
Scilly (St. Mary's)	48	46	*	0.2	9	0.0
Falmouth... ...	47	45	*	0.3	12	0.0
Plymouth... ...	46	40	39	-	21	0.0
Portland Bill ...	44	40	*	-	8	*
Calshot, S'hampton	41	33	25	-	1	6.3
Jungeness ...	36	32	*	-	Tr.	*
Lympne	38	27	23	Tr.	0.1	0.0
Guernsey	47	40	35	Tr.	13	2.4

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
KEW	18	om.	omof	ofom.	36	31	31	Tr.	Tr.	0.0	•	•	6
CROYDON	244	cmoffm	omff	offbcxw	35	30	28	-	Tr.	0.0	•	•	6
GREENWICH (Royal Observatory) ...	149	ff	off	ofcxm	35	29	29	-	Tr.	0.0	94	90	4
CITY (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.0	•	•	•
WESTMINSTER (St. James' Park) ...	27	•	•	•	39	32	31	-	-	0.0	90	81	•
REGENTS PK. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	0.0	•	•	•
CAMDEN SQUARE	110	o	of	•	34	34	29	-	-	•	•	93	•
KENSINGTON PALACE	80	om	of	•	35	32	29	-	-	•	At 18h. 98	85	•
HAMPSTEAD OBSERVATORY	450	omom	of	•	33	29	28	Tr.	Tr.	0.0	•	89	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON. Max.	Time.	Min.	Time.
1.4	15h.15m.	0.3	5h.16m.

KEW OBSERVATORY. Max.	Time.	Min.	Time.
0.3	5h.16m.	0.2	10h.15m.

FOREIGN OBSERVATIONS.

STATIONS.	18h. G.M.T. 15th December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 16th December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
PARIS	1013.0	NNW	2	o	41	1009.9	S	3	m	39	41	37	1	-
BRUSSELS	1012.0	SSE	1	o	39	1010.7	SSE	2	c	37	43	37	-	-
BERLIN	1012.4	ENE	2	m	39	1014.3	ENE	2	c	30	41	30	-	?
ZÜRICH	1012.7	NE	1	c	37	1015.0	E	1	z	34	43	?	-	?
ROME	1006.3	SSE	2	bc	43	1003.5	NE	2	rr	45	59	43	-	11

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 17th Dec. 1930.

No. 25.227

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

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)
Lerwick	1006.6	+16	SE	4	c̲p	43	85	7	3	2	-	4.6	10	1500
Stornoway ...	1001.0	+24	W	1	c	43	85	7	3	7	-	4.6	7.8	4000
Wick	1002.9	+16	S	8	ir°	44	85	8	8	-	-	10	10	1500
Tiree	1003.1	+20	WNW	3	c.	46	75	8	5.	3.	8	2.3	9	2500
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1006.0	+18	SSE	3	ir	43	85	6	6	2	-	7.8	10	1500
Malin Head ...	1003.6	+20	W	4	bc	46	85	9	21	13	9	2.3	4.6	2500
Renfrew	1004.6	+14	E.NE	2	r°r°	37	95	8	6	-	-	10	10	1500
Inchkeith (Edin.)	1004.8	+20	SSE	2	r°r°	38	95	8	6	-	-	10	10	800
Leuchars	1005.2	+12	SE	3	r°r°	39	95	8	6	-	-	10	10	800
Eskdalemuir ...	1005.4	+20	S	3	id°	36	95	6	6	-	-	10	10	800
Tynemouth ...	1006.6	+10	S	2	r°r°	38	95	7	6	-	-	10	10	1500
Blacksod Point ...	1007.2	+16	W	6	c	46	75	8	8	-	-	7.8	7.8	800
Aldergrove ...	1005.0	+22	SSW	3	c	42	85	7	8	7	8	Tr.	7.8	2500
Donaghadee ...	1003.8	+24	W	2	c	44	85	7	5	-	-	7.8	7.8	1500
Birr Castle ...	1007.6	+10	NW	1	bc	45	75	8	-	3	9	0	2.3	-
Holyhead... ...	1004.5	+18	N	6	c̲p̲r̲	47	95	7	8	2	-	4.6	10	1500
Liverpool (Bidston)	1004.2	+10	ESE	4	r°r°c̲p̲	38	95	7	6	-	-	10	10	800
Chester (Sealand)	1005.3	+14	SSE	4	s̲p̲	39	95	8	6	-	-	10	10	800
Harrogate... ...	1006.8	+6	SSE	1	s̲p̲	33	95	6	5	-	-	10	10	1150
Spurn Head ...	1006.8	+2	S	4	c	41	85	6	5	-	9	4.6	7.8	1500
Birmingham ...	1005.4	+6	SE	2	r°r°	38	95	8	6	-	-	10	10	1500
Cranwell	1006.8	+4	SE	3	c	37	95	8	6	-	-	2.3	10	800
Gorleston	1008.9	+2	SSE	4	c	43	85	6	4	-	-	10	10	2500
Valentia Obs. ...	1011.1	+14	NNW	5	c	48	65	8	8	-	-	7.8	7.8	2500
Roches Point ...	1008.4	+14	N	4	bc	47	85	8	8	-	-	2.3	2.3	1500
Pembroke... ...	1004.0	+12	NW	4	c	46	75	7	4	-	-	9+	9+	2500
Ross-on-Wye ...	1005.0	+14	E'N	2	d̲d̲°	39	95	7	6	-	-	10	10	1500
Leafield	1004.6	+12	E'S	4	r̲r̲	38	95	6	6	-	-	10	10	800
Cardington ...	1006.2	+10	ESE	3	c	42	85	6	5	2	-	4.6	10	2500
Winchester ...	1003.1	+6	ESE	4	r°r°	40	95	7	5	2	-	7.8	10	800
S. Farnborough ...	1003.7	0	ESE	3	r̲r̲	41	95	7	6	-	-	10	10	450
London (Kew) ...	1005.0	0	SE	3	c̲p̲	43	75	6	5	2	-	Tr.	10	1500
Croydon	1005.6	-2	SE'E	3	s̲p̲	42	75	6	5	2	-	7.8	10	1500
Manston														
Shoeburyness ...	1006.4	0	SE	4	c	41	85	7	5	2	-	2.3	10	4000
Clacton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe ...	1007.3	0	SSE	3	o	42	75	7	5	-	-	10	10	2500
Scilly (St. Mary's)	1006.7	+20	NNW	8	c	48	75	7	2	-	-	7.8	7.8	4000
Falmouth... ...	1005.9	+26	NW	6	p̲r̲	48	85	8	8	1	-	4.6	7.8	4000
Plymouth	1002.7	+44	NNW	5	ir	45	85	7	6	2	-	7.8	10	1500
Portland Bill ...	9996	+8	ESE	7	RR	44	95	7	6	-	-	10	10	1500
Calshot, S'hampton	1002.0	-2	E'S	6	r°r°	43	85	7	6	2	-	7.8	10	1500
Dungeness ..	*	*	S	5	cm°	*	*	6	8	2	*	7.8	10	1500
Lympne	1005.8	-2	SE	4	cm°	40	85	6	8	1	-	9+	10	1500
Guernsey	997.2	-14	WNW	3	ir	50	95	6	6	-	-	10	10	1500

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

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)
Lerwick	1010.0	+22	SSE	5	ir°	43	95	7	6	-	-	10	10	1500	1	*
Stornoway ...	1006.1	+26	-	0	bc	38	95	7	6	-	-	2.3	2.3	4000	1	1
Wick	1008.1	+26	S	5	rr	42	95	7	3	-	-	10	10	1500	1	4
Tiree	1008.1	+36	-	0	b	36	95	7	5	3	8	Tr	Tr.	4000	0	2
Nairn	1008.4	*	-	0	r°r°	38	95	7	6	-	-	10	10	800	1	*
Aberdeen	1010.6	+30	SSE	4	r°r°	43	75	6	6	2	-	4.6	10	1500	1	3
Malin Head ...	1008.1	+24	S	1	bc̲p̲	40	95	8	3	-	-	2.3	2.3	2500	0	2
Renfrew	1010.0	+36	NNE	2	r°r°	38	95	5	5	-	-	10	10	1500	2	*
Inchkeith (Edin.)	1008.5	+16	SSE	2	ir°r°	38	95	6	6	-	-	10	10	800	1	*
Leuchars	1009.4	+26	SE	1	ir°r°	39	95	6	6	2	-	4.6	10	800	1	*
Eskdalemuir ...	1010.3	+34	SW	2	m	35	95	6	4	-	-	10	10	800	1	*
Tynemouth ...	1010.3	+18	S	2	bcm	40	85	7	5	-	-	4.6	4.6	1500	1	2
Blacksod Point ...	1011.8	+24	NNW	5	c	45	75	8	3	-	-	7.8	7.8	800	1	4
Aldergrove ...	1010.0	+22	SE	2	c	38	95	7	5	-	-	Tr.	Tr.	2500	1	*
Donaghadee ...	1008.4	+28	W	1	bc	40	85	7	5	-	-	4.6	4.6	2500	1	0
Birr Castle ...	1012.2	+30	NW	1	b	39	95	8	1	3	-	0	1	-	1	*
Holyhead... ...	1009.0	+30	N'N	5	bc	46	95	8	8	8	-	4.6	4.6	2500	1	4
Liverpool (Bidston)	1008.4	+24	ESE	4	id°	38	95	7	5	-	-	10	10	1500	1	*
Chester (Sealand)	1009.2	+28	SSE	3	r°r°	38	95	7	6	-	-	10	10	800	1	*
Harrogate... ...	1010.4	+40	SSE	1	o̲m̲	36	95	7	6	-	-	10	10	<150	1	*
Spurn Head ...	1010.4	+10	S'E	2	c	42	95	7	6	-	-	7.8	7.8	4000	0	3
Birmingham ...	1009.7	+24	SE	2	ir°c	39	95	7	6	-	-	10	10	800	1	*
Cranwell	1010.3	+26	S'E	2	c	35	95	7	5	2	6	2.3	9	5700	1	*
Gorleston	1010.9	+20	SE'S	4	c	43	65	7	8	-	-	10	10	2500	0	1
Valentia Obs. ...	1015.6	+30	NNW	4	bc̲p̲r̲	44	85	8	5	-	-	4.6	4.6	2500	1	4
Roches Point ...	1012.8	+26	N	4	bc	44	85	8	3	-	-	2.3	2.3	1500	0	3
Pembroke... ...	1009.0	+20	NW	3	bc	46	65	8	8	8	-	4.6	4.6	2500	1	2
Ross-on-Wye ...	1009.7	+32	-	0	d̲d̲°	39	95	4	5	-	-	10	10	800	1	*
Leafield	1009.0	+12	E'N	2	d̲d̲°	37	95	6	5	-	-	10	10	1500	1	*
Cardington ...	1009.6	+22	ESE	3	bc	38	85	7	5	-	-	4.6	4.6	2500	1	*
Winchester ...	1008.0	+38	NEN	3	o	39	95	7	5	-	-	10	10	800	2	*
S. Farnborough ...	1008.1	+30	NE	2	cm°	38	95	5	1	7	7	0	10	-	1	*
London (Kew) ...	1009.1	+30	E	3	o	41	85	5	5	-	-	10	10	1500	1	*
Croydon	1009.1	+26	E'N	2	cm°	39	85	6	5	2	-	4.6	10	2500	1	*
Manston																*
Shoeburyness ...	1009.1	+26	SE	4	c	39	95	8	5	2	-	7.8	9	2500	0	*
Clacton-on-Sea ...	1009.5	+20	ESE	4	o	42	85	7	5	-	-	10	10	450	0	2
Felixstowe ...	1010.1	+18	SE	3	c	41	75	7	35	-	-	10	10	2500	1	2
Scilly (St. Mary's)	1011.4	+24	NNW	7	bc	47	85	8	2	-	-	4.6	4.6	4000	0	4
Falmouth... ...	1009.5	+30	NNW	6	bc	46	85	8	3	3	-	4.6	4.6	4000	0	3
Plymouth	1008.2	+38	N	4	c	43	85	6	5	2	-	7.8	10	2500	2	3
Portland Bill ...	1006.0	+36	NNE	6	rr	42	85	7	6	-	-	9+	9+	1500	2	5
Calshot, S'hampton	1007.1	+40	NE'N	4	o/r	41	85	7	6	-	-	10	10	1500	1	2
Dungeness ..	*	*	SE	4	cm°	*	*	6	8	2	*	7.8	10	1500	*	2
Lympne	1008.6	+28	E'N	3	cm°	38	85	6	5	-	-	9+	9+	1500	1	*
Guernsey	1003.4	+46	N	4	ir	45	85	7	6	-	-	10	10	1500	1	4

PAST 24 HOURS. WEATHER.

STATIONS. (For heights see p. 4.)	7h.–13h. 16th (37)	13h.–18h. 16th (38)	18h. 16th to 1h. 17th (39)	1h.–7h. 17th (40)
Lerwick	bcc PHR	cpr oir°	oir	oir
Stornoway ...	c	c̲bc	bcb	bcc
Wick	eir°c	c̲rr	crr	c
Tiree	c	cbcx°	bx	cid
Nairn	cr°	r°r°o	r°r°c	r°c
Aberdeen	cir°r	cr°rr	cr°cz°	c
Malin Head ...	cbc	bcprbcp	bcx	bcxczz
Renfrew	orrrm	rdd m°	od om	ocm°
Inchkeith (Edin.)	or°	orrmm	orrm	oddmm
Leuchars	crr°ir°c	crr°ir°	cr°cm°	cr°cm
Eskdalemuir ...	ors°rs°	orsrs	oirs	om
Tynemouth	omr°r°	oir°bcm	bcff	bcm
Blacksod Point ...	prqc	proc	c	c
Aldergrove	cir°c	cbcb	bbcx	bcxcm°
Donaghadee ...	cir°c	cbc	pr°bc	c
Birr Castle	bc	bcb	b	bxbcc
Holyhead... ...	rir°pr	bpc	bcbm°	bmomm
Liverpool (Bidston)	orrr°	r°rid	d°do	d°mfo
Chester (Sealand)	r°r°	om°r°r°	r°r°m	r°f°f
Harrogate... ...	oFFr°s°	oFm°em°	om	oFF
Spurn Head ...	oc	bc	cbcc	cwz
Birmingham ...	or°rf	fo×r°	obf	bfcf
Cranwell	of	cm°	cm°	cm°bc
Gorleston	bccq	cq°	cbccq	bcq
Valentia Obs. ...	bcephcbp	cpbc	bcp°c	cbc
Roches Point ...	bc	bcp°bc	bcb	bbcc
Pembroke... ...	orrc	cbc	bbc	bcc
Ross-on-Wye ...	r°r°d	dr°d m°	d mbfoFe	offo
Leafield	orr	orrd°	°bcx	bcx
Cardington ...	cm°	cm°bc	bcc	cm°w
Winchester ...	orrcr°r°	cr°r°c	cbff	FFX
S. Farnborough ...	od°rr	orrcm°	cmbfoF	oFFf
London (Kew) ...	ocr°c3°	c3°	o m°	om°
Croydon	cm°	cm°	cm°m	bccmff
Manston				
Shoeburyness ...	c	c	co	cbm°bm
Clacton-on-Sea ...	bbcc	co	oc	cbc
Felixstowe ...	bcc	c	c	c
Scilly (St. Mary's)	bcc	cbcc	bcp°	bcc
Falmouth... ...	epq	cbc	bcq	bcc
Plymouth	pm cir°q	cir°cm°	cm°bc	bm°wc
Portland Bill ...	RR	RR	orrcbcz	bccz°
Calshot, S'hampton	or°r°m°	orrrmr°°	or°bm°	bmm ofe
Dungeness ..	o	o	*	bc
Lympne	cm°	cm°	com°	ocm°x
Guernsey	Roir	oiror	oropr	opr

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,
R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, solar halo. ☿, lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

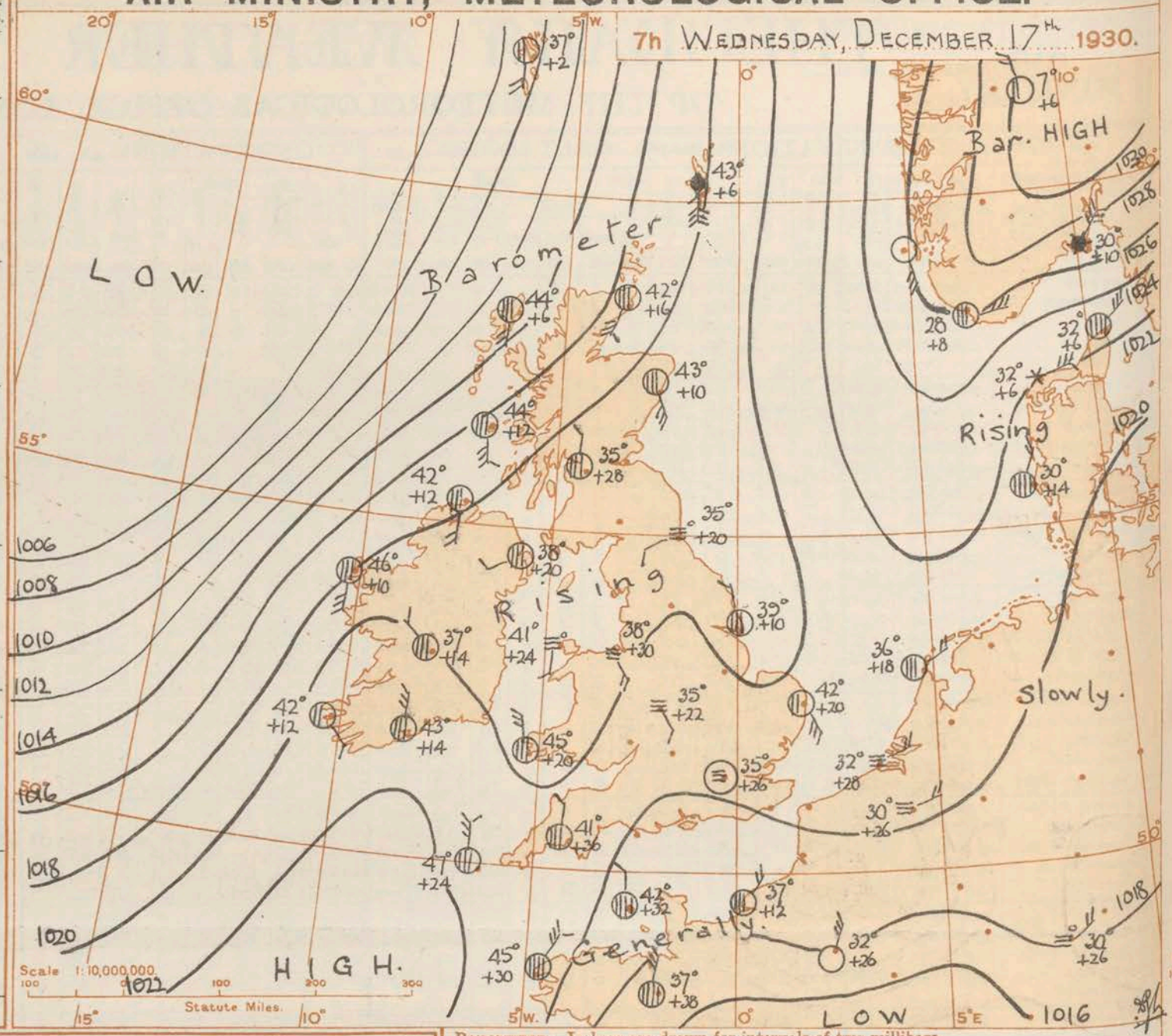
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 16th DECEMBER 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 15th to 9h. 16th	TEMPERATURE. Max. 9h.—17h. 16th	RAINFALL. Night. 17h. 15th to 9h. 16th	RAINFALL. Day. 9h.—17h. 16th	SUNSHINE. Sunrise to Sunset. 16th
Dunbar	oefid	ofid	36	41	Trace	Trace	0·0
Berwick-on-T.	o	o	34	38	–	–	0·0
Douglas	ontr	co	40	45	35	1	0·0
Llandudno	r	roc	38	46	19	5	0·0
Colwyn Bay	r rro	oro	38	44	12	2	0·0
Rhyl	om$_0$	ddggdt	36	40	4	3	0·0
Wallasey	rr	rr	37	40	10	5	0·0
Southport ‖	rom	oro	36	39	5	1	0·0
Blackpool	or	o	36	39	9	1	0·0
Morecambe	rro	orrodo	33	41	8	3	0·0
Ilkley	grs	dg	31	37	0·6	1	0·0
Cleethorpes	mo	mo	28	38	–	–	0·0
Mablethorpe	ocm$_0$	om$_0$	30	41	–	–	0·0
Skegness	geom$_0$	o	27	41	0·2	–	0·0
Aberystwyth	corr	orrc	35	40	17	8	0·0
Bath	rrcrr	r$_0$r$_0$	36	41	9	4	0·0
Cheltenham †	rsorr	oiror	34	40	4	4	0·0
Leamington Spa	or	or	32	40	1	2	0·0
Lowestoft	foir	ic	26	42	0.4	–	0·2
Dovercourt	bcc	oc	29	44	–	–	0·0
Maldon	c	o	30	42	–	–	0·0
Southend	c	o	34	42	Trace	–	0·0
Ilfracombe	or	od	42	46	21	2	0·0
Bude	r	o	41	48	15	2	0·0
St. Ives	c	c	44	49	20	–	0·4
Penzance	qcb	q bc	44	50	25	–	3·2
Torquay	ogromr	gpgpg$_0$	38	48	12	1	0·0
Jersey	cd	cq	42	51	10	2	0·0
Weymouth	rq r$_0$r$_0$	r$_0$	35	44	19	3	0·0
Bournemouth	r	r	34	42	7	3	0·0
Ventnor	oror	ou	34	42	3	3	0·0
Southsea	orr	orr	33	43	3	5	0·0
Bognor Regis	rro	oir	31	43	8	1	0·0
Littlehampton	crcr$_0$	cr$_0$c	30	44	2	2	0·0
Worthing	orr	or	30	43	1	3	0·0
Brighton	corcr	co	30	44	–	0·4	0·0
Eastbourne †	o	o	31	44	–	–	0·0
Hastings †	o	o	31	44	0·2	–	0·0
Folkestone	xom$_0$	o	32	43	–	–	0·0
Dover	bccu	uco	32	43	Trace	–	0·5
Deal	cbco	o	31	42	0·5	–	0·6
Tunbridge Wells	o	oco	28	41	–	–	0·0
Ramsgate	bcc	c	33	42	–	–	0·4
Margate	bcc	c	33	42	–	–	0·4

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 17th Dec. 1930.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Wind northeasterly or variable, light or moderate; cloudy, mist or fog; rather cold.
5. S.W. England 6. South Wales	Wind northerly or variable, moderate; mainly fair; normal temperature.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind variable, light or moderate; cloudy, some mist or fog; rather cold.
11. S.E. Scotland	Wind southerly, light or moderate, perhaps freshening mainly cloudy; local mist; normal temperature.
12. S.W. Scotland & Isle of Man	Wind southerly, moderate; cloudy, perhaps local drizzle or rain; normal temperature.
13. A. W. Scotld. B. N.W. Scotland.	Wind south or southwest, fresh, stronger on coast; cloudy, probably some rain; normal temperature.
14. Mid-Scotland	As 11.
15. N.E. Scotland 16. Orkneys and Shetlands.	Wind southerly, fresh or strong; cloudy, occasional rain; normal temperature.
17. N.W. Ireland 18. N.E. Ireland	Wind south or southwest, moderate or fresh, probably veering; cloudy, perhaps local drizzle; normal temperature.
19. S.E. Ireland	Wind variable becoming moderate southwesterly; mainly cloudy; normal temperature.
20. S.W. Ireland	As 17 - 18.

GENERAL INFERENCE.

A belt of high pressure across the British Isles connects an anticyclone over Scandinavia and Northern Russia with another westward of Spain. A deep depression approaching Iceland from southwest will cause fresh or strong southerly winds and probably some rain in the extreme Northwest and North of the British Isles. Elsewhere weather will be quiet and mainly fair, rather cold in England with some mist or fog.

FURTHER OUTLOOK.

Rather cold with some fog in the Southeast and Midlands; rather unsettled weather with normal temperature in the West and North.

Forecasts issued at 1015 G.M.T.

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

H.M. Stationery Office Press Kingsway W.C.2. F—2497/2165. m.26. D.5026. Gp.908. 3/30

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

Morning of
17th DECEMBER.
WEDNESDAY
1930.

Lambert'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 the wind. Number of feathers indicate Beaufort Force.
⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 17th Dec. 1930.

No. 25,227.

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

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)
Lerwick	54	1015.0	+20	S'E	7	ir	43	95	7	6	-	-	10	10	1500
Stornoway ...	34	1012.7	+16	-	0	b	35	95	7	-	-	-	0	0	-
Wick	81	1013.6	+18	SSW	5	c	42	95	8	6	2	-	4-6	7-8	1500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head ...	51	1013.2	+18	S	2	bc	37	95	7	4	-	-	2-3	2-3	4000
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	1014.8	+24	S	2	r.r.	39	95	4	6	-	-	10	10	800
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir ...	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth ...	67	1015.9	+16	SW	1	m	38	95	4	5	-	-	2-3	2-3	1500
Blacksod Point ...	10	1016.0	+20	W	3	c	45	65	7	5	-	-	9+	9+	220
Aldergrove ...	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee ...	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle ...	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead... ...	26	1014.4	+22	-	0	b	42	95	5	-	-	-	0	0	-
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate... ...	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head ...	29	1015.8	+10	-	0	c	39	95	6	5	2	-	7-8	10	2500
Birmingham ...	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1016.1	+24	-	0	c	33	95	6	5	-	-	10	10	2500
Gorleston	14	1016.6	+24	ESE	3	bc	41	95	6	4	-	-	4-6	4-6	2500
Valentia Obs.† ...	30	1018.1	+20	W	5	bc	46	95	8	5	-	-	2-3	2-3	2500
Roches Point ...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke... ...	150	1015.1	+18	NNW	3	bc	44	85	8	8	-	-	4-6	4-6	4000
Ross-on-Wye ...	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington ...	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester ...	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew) ...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1014.9	+22	ENE	1	m	37	95	4	5	-	-	10	10	800
Manston	135	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness ...	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1017.0	+24	N'W	5	bc	46	85	8	2	-	-	4-6	4-6	4000
Falmouth... ...	200	1015.5	+14	N'W	4	bc	44	85	8	8	-	-	2-3	2-3	4000
Plymouth... ...	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill ...	32	1014.0	+24	NE	4	bc	40	85	6	5	-	-	4-6	4-6	1500
Calshot, S'hampton	8	1014.3	+26	NNW	2	bc	37	85	6	5	-	-	2-3	2-3	2500
Dungeness ...	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1014.4	+26	NNE	2	mo	37	85	6	5	-	-	10	10	1500
Guernsey	173	1013.7	+36	NNE	1	o|pr	44	85	6	5	-	-	10	10	1500

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

STATIONS.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
Lerwick	1017.9	+6	S'E	7	ir.	43	85	7	6	2	-	4-6	10	1500	1	•
Stornoway ...	1013.9	+6	S	3	c	44	95	7	3	-	-	9+	9+	4000	1	2
Wick	1016.4	+16	SSW	4	c	42	95	8	8	2	-	7-8	9	1500	0	3
Tiree	1016.0	+12	SSE	4	c	44	96	7	5	2	-	7-8	10	2500	1	3
Nairn	1016.8	•	-	0	c	36	85	7	5	-	-	7-8	7-8	2500	1	•
Aberdeen	1018.6	+10	SSE	3	c	43	75	7	5	-	-	9	9	4000	1	2
Malin Head ...	1016.7	+12	S	2	c	42	95	6	5	-	-	9+	9+	2500	0	2
Renfrew	1019.4	+28	N	1	c	35	95	6	5	2	-	9	10	1500	1	•
Inchkeith (Edin.)	1018.8	+18	SW	2	m.	39	95	5	5	-	-	10	10	800	1	1
Leuchars	1019.0	+20	WNW	1	c/r	38	95	4	6	2	-	7-8	10	800	1	•
Eskdalemuir ...	1020.1	+20	-	0	m	35	95	4	5	-	-	10	10	450	1	•
Tynemouth ...	1019.7	+20	SW	1	m	36	95	4	5	-	-	4-6	4-6	800	0	1
Blacksod Point ...	1017.8	+10	S	3	c	46	85	7	5	-	-	9+	9+	220	0	3
Aldergrove ...	1018.7	+20	SSE	2	c	38	95	6	6	7	-	2-3	9	1500	1	•
Donaghadee ...	1018.3	+20	WSW	1	c	38	95	7	5	-	-	9	9	1600	1	0
Birr Castle ...	1020.0	+14	NW	1	c	37	95	8	5	-	-	9	9	2500	1	•
Holyhead... ...	1019.4	+24	S	1	m	41	95	4	5	-	-	10	10	1500	1	0
Liverpool (Bidston)	1019.8	+26	E	3	fo	38	95	3	5	-	-	10	10	1500	1	•
Chester (Sealand)	1019.8	+30	SE'E	2	fo	38	95	2	5	-	-	10	10	450	2	•
Harrogate... ...	1021.1	+34	-	0	F	33	95	1	5	-	-	10	10	<150	1	•
Spurn Head ...	1019.9	+10	N'W	1	c	39	95	5	5	3	-	7-8	10	800	0	2
Birmingham ...	1020.9	+22	SE	1	fc	35	95	3	5	-	-	9+	9+	2500	1	•
Cranwell	1021.2	+32	-	0	bc	32	95	6	5	-	-	4-6	4-6	2500	1	•
Gorleston	1020.5	+20	SE	3	bc	42	75	7	6	1	-	Tr.	4-6	2500	0	2
Valentia Obs.† ...	1021.5	+12	ESE	1	bc	42	95	8	5	-	-	4-6	4-6	4000	1	3
Roches Point ...	1021.6	+14	N	3	c	43	95	8	5	-	-	7-8	7-8	2500	0	2
Pembroke... ...	1019.7	+20	NNW	3	c	45	85	8	4	4	-	4-6	7-8	4000	0	2
Ross-on-Wye ...	1020.3	+26	W	1	fo	38	95	3	5	-	-	10	10	450	1	•
Leafield	1020.3	+20	E'S	1	bc	33	85	6	-	3	-	0	4-6	-	4	•
Cardington ...	1020.3	+22	-	0	m	34	95	4	5	2	-	9+	10	2500	1	•
Winchester ...	1021.2	+30	-	0	F	28	95	1	5	-	-	10	10	<150	4	•
S. Farnborough ...	1020.3	+30	-	0	f-	32	95	3	5	-	-	10	10	800	1	•
London (Kew) ...	1020.6	+30	-	0	c	38	95	5	-	2	-	0	10	-	1	•
Croydon	1020.2	+26	-	0	f	35	95	3	5	-	-	10	10	800	1	•
Manston																
Shoeburyness ...	1020.3	+30	NW	1	m	36	95	4	5	-	-	4-6	4-6	1500	0	•
Clacton-on-Sea ...	1019.1	+26	ENE	3	bc	41	85	7	5	-	-	4-6	4-6	800	0	2
Felixstowe ...	1020.4	+30	E'S	2	c	41	75	7	5	-	-	9	9	4000	1	1
Scilly (St. Mary's)	1021.9	+24	N'W	4	bc	47	85	8	8	-	-	4-6	4-6	4000	0	3
Falmouth... ...	1021.1	+20	NNW	2	c	45	85	8	5	-	8	4-6	9	4000	0	0
Plymouth... ...	1020.6	+36	N	1	c	41	95	7	5	-	8	7-8	9	2500	2(1)	2
Portland Bill ...	1019.3	+32	NE	3	c	41	85	6	4	-	-	10	10	1500	2	4
Calshot, S'hampton	1019.8	+28	NNW	3	f	33	95	2	5	-	-	10	10	<150	0	1
Dungeness ...	•	•	E	2	mo	•	•	6	2	1	•	2-3	7-8	2500	•	1
Lympne	1019.6	+30	N'E	2	mo	35	95	6	5	2	-	1	10	1500	1	•
Guernsey	1019.2	+32	N	1	o|pr	46	85	6	5	-	-	10	10	1500	1	3

PAST 24 HOURS.

STATIONS.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 18th Hrs. (36)
Lerwick	45	42	*	7	7	0.0
Stornoway ...	45	35	*	-	-	0.0
Wick	44	41	*	2	0.2	*
Tiree	47	36	24	-	0.1	1.1
Nairn	39	36	*	5	3	0.0
Aberdeen	44	40	36	1	Tr.	0.0
Malin Head ...	47	35	*	0.3	-	1.1
Renfrew	38	34	30	5	0.1	0.0
Inchkeith (Edin.)	39	37	36	3 5	1	0.0
Leuchars	40	37	36	4	1	0.0
Eskdalemuir ...	36	33	34	6	2	0.0
Tynemouth ...	40	35	29	0.4	-	*
Blacksod Point ...	47	43	*	1	0.2	*
Aldergrove ...	43	33	28	-	Tr.	0.9
Donaghadee ...	46	34	*	0.2	0.2	*
Birr Castle ...	45	34	25	-	-	5.4
Holyhead... ...	47	40	28	3	-	0.0
Liverpool (Bidston)	38 3	37	36	5	0.6	0.0
Chester (Sealand)	39	38	36	4	2	0.0
Harrogate... ...	36	32	28	1	-	0.0
Spurn Head ...	42	38	*	-	-	0.0
Birmingham ...	39	32	29	4	-	0.0
Cranwell	38	31	26	-	-	0.0
Gorleston	43	41	38	-	-	0.0
Valentia Obs.† ...	49	42	39	1	Tr.	2.7
Roches Point ...	48	41	*	0.1	-	*
Pembroke... ...	46 3	43	*	2	-	0.0
Ross-on-Wye ...	40	37	29	7	0.2	0.0
Leafield	39	28	22	7	0.1	0.0
Cardington ...	42	33	31	-	Tr.	0.0
Winchester ...	42	28	28	5	0.1	0.0
S. Farnborough ...	41	27	21	4	Tr.	0.0
London (Kew) ...	43	38	33	0.1	-	0.0
Croydon	42	35	30	-	-	0.0
Manston						
Shoeburyness ...	43	35	30	-	-	0.0
Clacton-on-Sea ...	43	40	39	-	-	0.0
Felixstowe ...	43	40	37	-	-	0.0
Scilly (St. Mary's)	49	44	*	-	0.6	5.2
Falmouth... ...	48	44	*	0.1	-	0.0
Plymouth... ...	50	39	36	0.1	-	0.0
Portland Bill ...	46	39	*	7	0.5	*
Calshot, S'hampton	44	31	29	8	0.1	0.0
Dungeness ...	44	38	*	-	-	*
Lympne	41	31	26	-	-	0.0
Guernsey	51	43	39	3	3	0.1

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
										Yesterday.		To-day.	
Kew	18	ocr.cz.	cz.	om.	43	38	33	0.1	-	0.0	•	•	3
Croydon	244	cm.	cm.	cmcff	42	35	30	-	-	0.0	•	•	2
Greenwich (Royal Observatory) ...	149	c	cx	cxf	43	36	28	-	Tr.	0.0	82	98	2
City (Bunhill Row)	—	•	•	•	•	•	•	-	•	0.0	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	42	39	32	-	-	0.0	73	87	•
Regents Pk. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	omo	o	•	40	37	29	-	-	•	•	92	•
Kensington Palace	80	omc	c	•	43	37	30	-	-	•	At 18h. 89	92	•
Hampstead Observatory ...	450	om	dof	•	41	33.	27	Tr.	Tr.	0.0	•	86	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington.	Max.	Time.	Min.	Time.
	1.3	10h 16m	0.5	1h. to 6h. 17th

Kew Observatory.	Max.	Time.	Min.	Time.
	0.5	20h 16m	0.3	3h. 17m.

FOREIGN OBSERVATIONS.

18h. G.M.T. 16th December

STATIONS.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1007.4	ESE	3	c	39
Brussels	1010.7	E	2	bc	36
Berlin	1014.7	NNE	1	bc	28
Zürich	1011.1	E	2	bc	34
Rome	1007.3	ENE	2	bc	41

7h. G.M.T. 17th December

STATIONS.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1018.7	NE	3	m	34
Brussels	1020.4	ENE	2	F	30
Berlin	1018.0	SW	1	c	30
Zürich	1017.9	SE	2	mo	30
Rome	1013.1	E	2	c	36

Past 24 Hours.

	Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
Paris	41	34	Tr	-
Brussels	39	28	-	-
Berlin	31	?	Tr	?
Zürich	43	27	-	-
Rome	59	34	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.

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 18th Dec. 1930.

No. 25,228.

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

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)
Lerwick	1017.8	-12	S'E	7	ir.	44	85	7	5	2	-	4.6	10	1500
Stornoway ...	1013.0	-12	S	6	c	46	85	7	3	9	-	7.8	10	4000
Wick	1016.7	+8	S	4	bc	42	95	8	5	6	8	2.3	4.6	2500
Tiree	1016.4	-6	S'W	6	c.	46	85	8	4	2	-	Tr.	10	2500
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1020.6	+6	SSW	3	bc	41	85	6	5	3	-	2.3	4.6	4000
Malin Head ...	1017.7	0	SSW	4	c	45	85	7	5	-	-	9+	9+	2500
Renfrew	1020.7	+2	ESE	2	ofc	40	95	7	5	-	-	10	10	2500
Inchkeith (Edin.)	1022.0	+8	S	2	cm	41	95	4	5	-	-	10	10	800
Leuchars	1021.5	+12	W	1	c	36	95	5	-	-	8	0	10	-
Eskdalemuir ...	1023.1	+6	SW	2	c	37	95	6	-	-	-	9+	9+	4000
Tynemouth ...	1023.1	+12	S	2	bcf	39	95	8	-	-	-	4.6	4.6	1500
Blacksod Point ...	1018.4	+4	S	3	DD	49	95	6	6	-	-	10	10	*
Aldergrove ...	1021.0	+4	S'E	3	bc	44	85	6	-	3	5	0	4.6	-
Donaghadee ...	1020.8	+4	WSW	1	bc	43	85	7	5	2	-	2.3	4.6	2500
Birr Castle ...	1022.5	+8	SW	1	c	46	85	8	-	2	-	0	10	-
Holyhead	1022.4	+10	W'N	1	bc	50	75	6	8	3	2	1	4.6	2500
Liverpool (Bidston)	1023.7	+12	ESE	3	bcf	39	95	8	5	-	-	2.3	4.6	1500
Chester (Sealand)	1023.5	+14	SSE	2	cf	40	95	8	5	-	-	7.8	7.8	800
Harrogate	1024.0	+6	S	1	bcF	35	95	8	5	-	-	4.6	4.6	<150
Spurn Head ...	1023.9	+6	SSW	1	c	40	95	6	5	3	9	2.3	10	1500
Birmingham ...	1024.1	+10	-	0	cf	38	95	8	-	5	-	0	7.8	-
Cranwell	1024.6	+8	WS	1	f	32	95	8	-	-	-	10	10	<150
Gorleston	1024.4	+16	-	0	bc	43	85	8	2	8	-	2.3	4.6	2500
Valentia Obs. ...	1022.8	+6	S'E	3	ir.	50	95	6	5	-	-	10	10	800
Roches Point ...	1024.2	+14	SW	2	c	49	85	8	5	-	-	9	9	1500
Pembroke	1023.9	+16	WNW	2	bc	49	65	8	5	9	1	Tr.	4.6	4000
Ross-on-Wye ...	1023.9	+12	N	2	om.	41	95	6	5	-	-	10	10	1500
Leafield	1024.4	+26	-	0	c	37	95	5	5	-	-	9	9	5700
Cardington ...	1024.4	+6	S'W	1	cm	39	85	4	-	-	6	0	7.8	-
Winchester ...	1024.4	+6	-	0	bcm	38	95	4	-	3	-	0	4.6	-
S. Farnborough ...	1024.1	+14	-	0	cm	38	95	4	-	3	1	0	9	-
London (Kew) ...	1024.6	+6	-	0	f	39	95	2	-	-	-	10	10	-
Croydon	1024.3	+10	-	0	cf	40	95	2	5	-	-	9+	9+	2500
Manston														
Shoeburyness ...	1024.4	+14	-	0	bc	43	75	5	-	7	-	0	4.6	-
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	1024.6	+8	NEN	1	c3.	42	75	5	5	-	-	7.8	7.8	4000
Scilly (St. Mary's)	1025.6	+14	NW	3	bc	51	75	8	-	-	4	2.3	2.3	4000
Falmouth	1025.4	+8	NNW	2	bc	49	75	8	-	-	3	4.6	4.6	4000
Plymouth	1024.8	+10	W	1	bc	48	75	7	7	-	1	4.6	4.6	2500
Portland Bill ...	1024.0	+12	NE	2	bc	44	75	6	5	-	-	4.6	4.6	2500
Calshot, S'hampton	1024.3	+6	NNW	1	bcf	39	85	8	5	5	-	4.6	4.6	4000
Dungeness ...	•	•	NE	2	bc3.	•	•	5	7	4	•	2.3	4.6	4000
Lympne	1023.9	+12	NE	1	cm.	40	85	6	5	-	-	2	9	1500
Guernsey	1024.4	+16	-	0	b	48	75	6	1	-	-	1	1	2500

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

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)
Lerwick	1014.3	-12	SSE	8	c	45	85	7	5	2	-	4.6	10	1500	1	•
Stornoway ...	1012.0	-10	WSW	6	rr	49	95	8	6	-	-	10	10	4000	1	4
Wick	1014.1	-16	SSW	6	cfr	44	95	8	6	2	-	7.8	10	1500	1	
Tiree	1017.3	+6	S'W	4	dr	48	95	8	5	2	-	9+	10	1500	1	4
Nairn	1015.3	•	S'W	3	c	42	85	7	3	-	-	7.8	7.8	2500	1	•
Aberdeen	1019.6	-12	S	3	c	41	85	5	5	7	-	4.6	9+	4000	1	1
Malin Head ...	1018.5	+6	S	4	id.	46	95	6	6	2	-	4.6	10	1500	1	3
Renfrew	1021.5	+4	S	3	c	43	85	7	5	7	-	4.6	10	2500	1	
Inchkeith (Edin.)	1022.1	0	SSW	3	c	42	95	6	5	-	-	10	10	800	0	1
Leuchars	1021.3	-2	SSE	3	c	41	85	6	5	-	-	10	10	1500	1	•
Eskdalemuir ...	1024.2	+14	SSW	3	c	37	95	4	5	-	-	10	10	450	1	•
Tynemouth ...	1024.9	+20	SW	2	cf	32	95	3	5	-	-	7.8	7.8	800	0	2
Blacksod Point ...	1019.8	+6	S	2	c	49	95	6	-	2	-	0	10	-	1	3
Aldergrove ...	1022.5	+6	S'E	3	d.	42	95	6	-	2	-	0	10	-	1	
Donaghadee ...	1021.8	+6	NSW	2	c	43	85	7	5	-	-	7.8	7.8	1500	1	1
Birr Castle ...	1023.4	+10	S	1	o/d	47	95	8	6	-	-	10	10	250	1	•
Holyhead	1024.9	+22	SW'S	3	bc	46	85	6	6	-	-	4.6	4.6	4000	1	0
Liverpool (Bidston)	1026.7	+20	SE'S	2	bcf	37	95	3	5	-	-	4.6	4.6	1500	1	•
Chester (Sealand)	1026.4	+24	SE	2	bf	34	95	3	6	-	-	0	0	-	1	•
Harrogate	1027.1	+30	SSW	1	bx	34	95	4	5	-	-	Tr.	Tr.	<150	1	•
Spurn Head ...	1026.9	+10	-	0	bc	38	95	6	5	2	-	0	2.3	-	0	3
Birmingham ...	1028.3	+22	W	1	of	37	95	3	5	-	-	10	10	1500	1	•
Cranwell	1028.2	+24	WSW	2	bf	31	95	3	5	-	-	0	0	-	4	•
Gorleston	1027.1	+8	SW	3	bc	37	95	4	5	-	-	2.3	2.3	1500	0	•
Valentia Obs. ...	1024.3	+14	S'W	3	o/d	51	95	6	5	-	-	10	10	450	1	3
Roches Point ...	1024.7	+10	SW	2	d.	49	95	5	5	-	-	10	10	800	1	2
Pembroke	1026.9	+16	WSW	3	bc	49	65	8	5	9	8	1	4.6	4000	0	5
Ross-on-Wye ...	1027.9	+26	SW	1	~~bf~~	40	95	~~8~~ 4	5	-	-	10	10	~~1500~~ 800	~~01~~	•
Leafield	1028.1	+14	S	1	bcF	35	95	1	5	-	4.6	4.6	4.6	5700	1	•
Cardington ...	1027.8	+12	SW	1	bF	31	95	1	-	-	-	0	0	-	1	•
Winchester ...	1028.2	+22	-	0	f	38	95	3	-	-	-	10	10	<150	1	•
S. Farnborough ...	1028.0	+26	-	0	bF	31	95	1	-	-	-	0	0	-	1	•
London (Kew) ...	1028.2	+20	-	0	F	33	95	0	-	-	-	10	10	-	1	•
Croydon	1027.7	+20	S'W	2	of	37	95	3	5	-	-	10	10	2500	1	•
Manston																•
Shoeburyness ...	1027.6	+26	-	0	bc	34	95	6	-	6	-	0	2.3	-	0	•
Clacton-on-Sea ...	1027.4	+14	NNW	1	cm	37	95	4	5	-	-	7.8	7.8	800	0	0
Felixstowe ...	1027.9	+14	-	0	bcm	37	95	4	5	-	-	4.6	4.6	2500	0	1
Scilly (St. Mary's)	1028.4	+14	W'N	3	bc	47	95	8	7	-	-	2.3	2.3	4000	0	2
Falmouth	1028.5	+14	W'S	2	bc	46	85	7	7	-	2	2.3	4.6	4000	0	0
Plymouth	1027.9	+10	WNW	1	bcm.	45	85	5	5	-	1	2.3	2.3	2500	1	0
Portland Bill ...	1027.3	+18	WSW	1	c	45	75	6	5	7	-	4.6	7.8	2500	1	3
Calshot, S'hampton	1027.9	+18	NNW	1	bF	33	95	5	5	1	-	0	0	-	0	0
Dungeness ...	•	•	SE	3	cm.	•	•	5	5	1	•	4.6	7.8	2500	•	1
Lympne	1027.6	+14	ESE	1	bm	35	95	5	5	-	-	1	1	1500	1	•
Guernsey	1028.1	+34	-	0	bc	43	85	6	1	-	-	4.6	4.6	2500	0	2

PAST 24 HOURS.

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)
Lerwick	oir.	oir.	oir.	bcc
Stornoway ...	c	odorr	bbc	bc
Wick	cbc	cr.r	or.rc	c
Tiree	c	cd.r.	oid.	id.
Nairn	cp.rbc	bcc	c	c
Aberdeen	c	bcc3.	czc	c
Malin Head ...	cu	cid.m.m.	cm.m.m	oem.
Renfrew	c.ffd.f	cfd.m.c	c	c
Inchkeith (Edin.)	om.m.m	ocmm.m.	o	ocbc
Leuchars	am.fmcm.	cmcm.	cm.	cm.
Eskdalemuir ...	omxc	com	omid.	oid.
Tynemouth ...	bcff	bccff	bcif	bcmo
Blacksod Point ...	dd	dd	rr	do
Aldergrove ...	am.bcm.	bccd.	d.oir.	oir.m.
Donaghadee ...	cbc	midbc	cid.c	c
Birr Castle ...	c	coid.	oid	oidc
Holyhead	cmmbcm.	bccm.	bcm.ddm	ddm
Liverpool (Bidston)	offcf	f	bcmbc	bc
Chester (Sealand)	cff	bcff	bfbcm	cmo
Harrogate	obc FF	obiF	bmoff	ofmd
Spurn Head ...	cfmzc	cbc.	bcofx	off
Birmingham ...	cbc f	bcfof	ofc	coir.
Cranwell	bcfc F	ofcfd	bF	bfbcm.
Gorleston	bcmm	bcmm	bcm.m.	bcm.m.x
Valentia Obs. ...	bcc id.r.	or.d.d.	od.d.	od.d.id.
Roches Point ...	c	cid.od.d.	odd	odo
Pembroke	cbc	bc	bcoq	oddff
Ross-on-Wye ...	fomc o3	o3com	omofecf	fomom.
Leafield	bcfcm.	cbcf	bcff	cid.
Cardington ...	cmfefebcm	bcbfmfx	oFFx	cmbcm.
Winchester ...	FFx bcm	bccmff	ff	ffx
S. Farnborough ...	ofcfcm	cmbcmbFx	bfxofxfbx	bfcmx
London (Kew) ...	om.of	ofgofx	ofe	ofbfxbcfx
Croydon	ac ff	cff	cff Fbffx	bmxbcmf
Manston				
Shoeburyness ...	cmbcm.	bmcmbcm	bm.~~bcmx~~	bm.x bcmx
Clacton-on-Sea ...	bcc	cm	cbcm	bcmbc
Felixstowe ...	bcc3.	c3.bcm	bcm.c	cm.
Scilly (St. Mary's)	cbc	bc	bccid	ddmf
Falmouth	cbc	bc	bccc	dm.o.
Plymouth	cfmb	bcbm.	bm.ofe	ofed.dm.
Portland Bill ...	cbc 3.	bcc3.	bc	bcc
Calshot, S'hampton	ofefexfc	bcf fex	bFeFex	bfexbcfex
Dungeness ...	bc	bc	•	bc
Lympne	cbcm.	cbm.w	bccmw	omom
Guernsey	ocbcb	bcbbc	bcbw	bwbcw

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,
R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, solar halo. ☾, lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

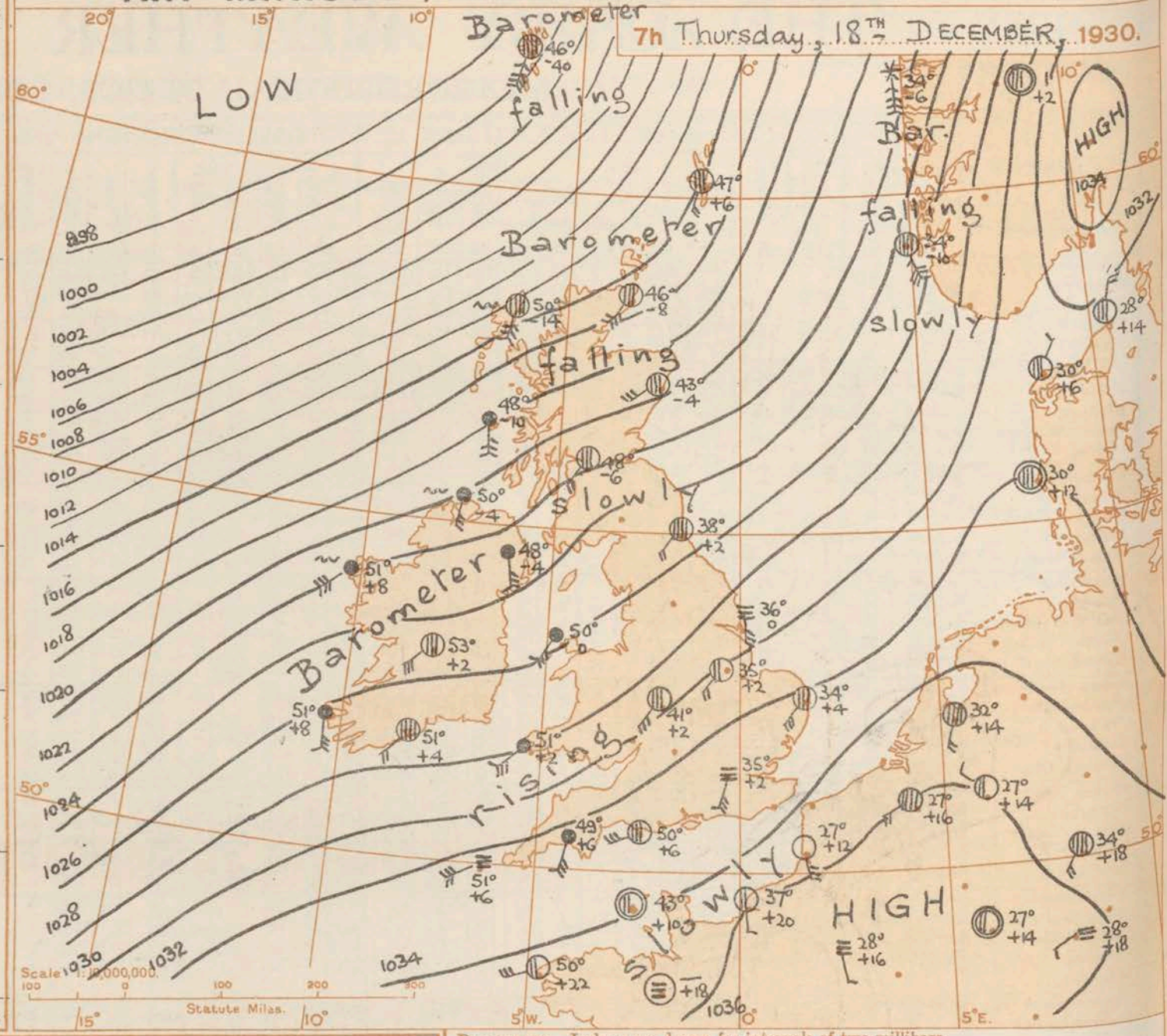
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 17th DECEMBER 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 16th to 9h. 17th	TEMPERATURE. Max. 9h.—17h. 17th	RAINFALL. Night. 17h. 16th to 9h. 17th	RAINFALL. Day. 9h.—17h. 17th	SUNSHINE Sunrise to Sunset. 17th
Dunbar	om	bc	37	42	0·5	-	0·8
Berwick-on-T.	0	0	36	40	-	-	0·0
Douglas	omc	cb	39	47	0·3	-	1·1
Llandudno	cbc	cbcc	38	46	-	-	3·2
Colwyn Bay	0b	bmbc	39	46	-	-	3·6
Rhyl	cmbc	bcz	38	44	-	-	2·7
Wallasey	mcbc	bczm	38	40	0·3	-	0·0
Southport ... ‖ ...	fo	fo	36	40	0·2	-	0·8
Blackpool	cm	cm	36	40	0·1	-	0·0
Morecambe	c	cbcox	38	39	1	-	0·4
Ilkley	f	fe	33	36	Trace	Trace	0·0
Cleethorpes	Fc	cbmc	33	40	-	-	1·0
Mablethorpe	cec	mcm	32	41	-	-	0·0
Skegness...	0cmb	bm0	35	41	-	-	1·2
Aberystwyth	cbrc	bcc	37	46	1	-	3·7
Bath	mc	cmbc	37	41	0·5	-	1·9
Cheltenham ... † ...	cm0m	0com	34	40	1	-	0·0
Leamington Spa	foc	cf	30	35	Trace	-	0·8
Lowestoft	bc	bc	35	41	-	-	1·3
Dovercourt	bc	0cm	38	41	-	-	0·6
Maldon	c	om	36	43	-	-	0·4
Southend	cfm	czm	37	43	-	-	0·4
Ilfracombe	cbcb	b	39	48	2	-	3·4
Bude	Wbcb	bbc	40	49	-	-	3·7
St. Ives	b	b	46	49	-	-	4·4
Penzance	cb	b	44	52	0·2	-	4·7
Torquay	pbcmb	bbcm	36	47	0·3	-	4·6
Jersey	fcb	cf	41	48	-	-	2·3
Weymouth	mc	bcb	38	45	0·3	-	2·5
Bournemouth	m	bcom	33	40	1	-	1·0
Ventnor	rxbcz	bcz	36	44	3	-	4·6
Southsea	bf	bf	32	39	0·3	-	0·4
Bognor Regis	bcc	cbc	30	42	0·5	-	1·0
Littlehampton	cbcc	cbcc	34	41	0·1	-	0·2
Worthing	cbc	oc	35	42	Trace	-	2·0
Brighton...	cbc	bc	35	41	Trace	-	1·2
Eastbourne ... † ...	cbc	bccom	35	42	0.4	-	1·8
Hastings ... † ...	cbc	bcm	36	43	0·2	-	2·4
Folkestone	xcbc	bcc	36	43	-	-	1·1
Dover	mbc	bco	38	43	-	-	3·0
Deal	cbc	bcc	39	42	-	-	2·5
Tunbridge Wells	oco	oco	33	40	-	-	0·7
Ramsgate	bcc	c	34	42	-	-	1·7
Margate	bc	bc	39	43	-	-	3·0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 18th Dec. 1930
1. S.E. England	Wind southwesterly, moderate; mainly fair, but possibly local drizzle near south coast; local mist; milder.
2. E. England...	
3. E. Midlands	Wind southwesterly, moderate; mainly fair; local mist; milder.
4. W. Midlands	
5. S.W. England	Wind southwesterly, moderate or fresh; cloudy; occasional local drizzle; local mist or fog near coast; mild.
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	Wind southwesterly, moderate or fresh; cloudy; perhaps occasional local drizzle; local mist; becoming mild.
10. N.E. England	
11. S.E. Scotland	
12. S.W. Scotland & Isle of Man	As 3 - 8.
13. A. W. Scotld. B. N.W. Scotland.	Wind southwesterly, strong, gale at times on coast; cloudy; some drizzle or rain; mild.
14. Mid-Scotland	
15. N.E. Scotland ∀	
16. Orkneys and Shetlands. ∀	
17. N.W. Ireland	Wind southwesterly, fresh or strong; cloudy; occasional drizzle; mild.
18. N.E. Ireland	
19. S.E. Ireland	As 3 - 8.
20. S.W. Ireland	As 17 - 18.

H.M. Stationery Office Press, Kingsway, W.C.2. P 2497/2183 50 25 0 8028 Gp 308

GENERAL INFERENCE.

Pressure is high southward and northeastward of the British Isles. Depressions on the Atlantic are moving northeast towards Iceland. Southwesterly winds will prevail, being strong or of gale force at times in the extreme Northwest and North. Weather will be mild generally with occasional drizzle or rain in most districts except perhaps in the Southeast.

FURTHER OUTLOOK.

Mild in most districts with unsettled weather in the West and North.

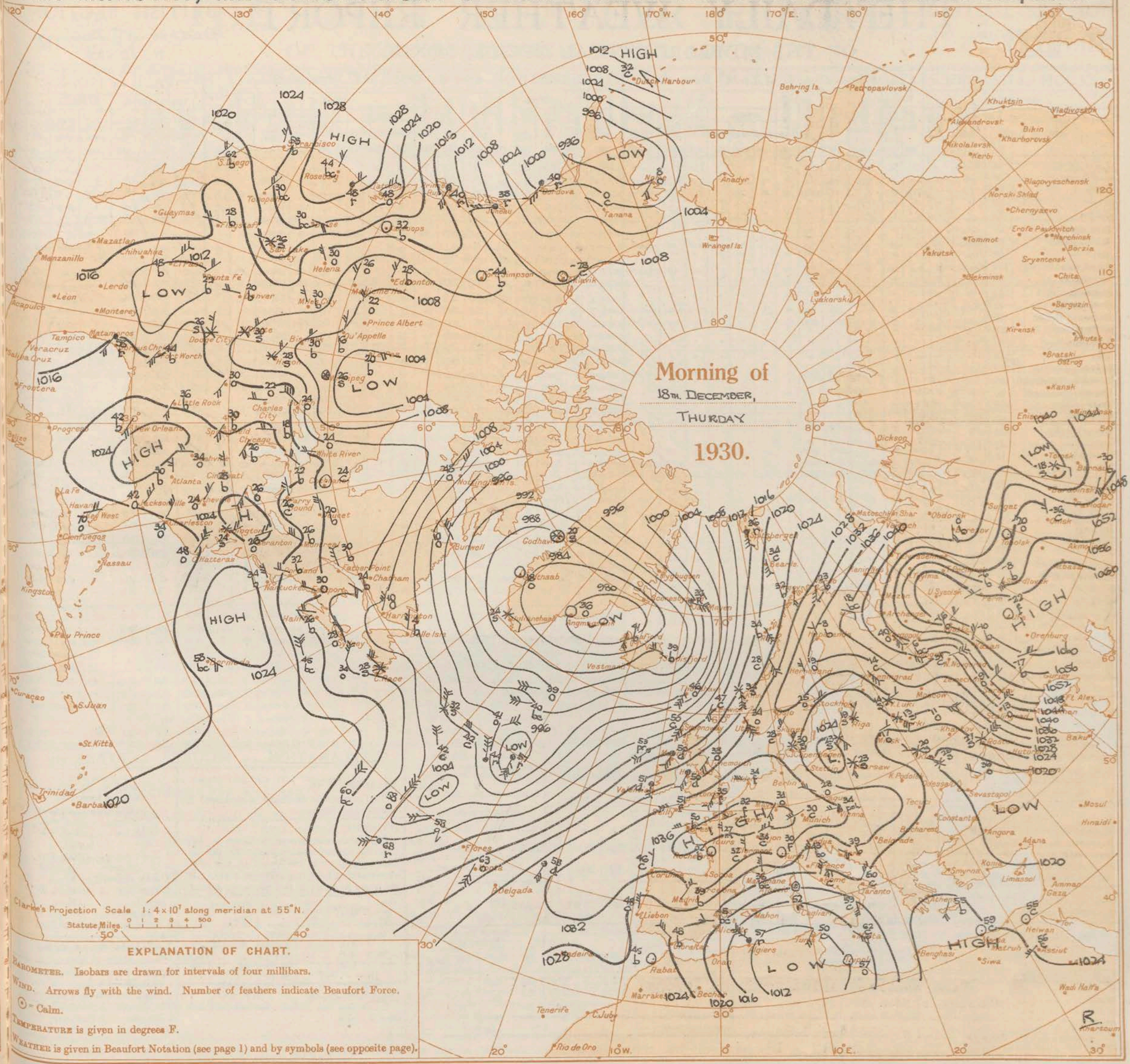
Time of Issue of Gale Warnings.

∀ South Cone at 1215 on 17th in 13B, 15, 16.

Forecasts issued at 1000 G.M.T.

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 18th Dec. 1930.

No. 25,228.

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

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)
Lerwick	54	1015·2	+14	SSW	2	bc	45	95	7	5	–	–	2-3	2-3	1500
Stornoway	34	1015·7	-4	SW	3	bc	47	95	7	4	–	–	2-3	2-3	4000
Wick	81	1017·4	+12	SSW	3	c	45	95	5	8	2	–	7-8	10	1500
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	51	1020·6	+10	S	3	o	47	95	7	5	–	–	10	10	1500
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Inchkeith (Edin.)	190	1024·0	+8	SW	3	o	46	85	7	5	–	–	10	10	2500
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	1025·1	0	SW	2	m	35	95	4	5	–	–	4-6	4-6	800
Blacksod Point	10	1020·7	+4	S	4	r r	49	95	6	6	–	–	10	10	<150
Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	1026·1	+6	SW	4	d d	49	95	4	6	–	–	10	10	220
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1028·8	+4	SW	3	F	33	95	1	5	–	–	10	10	<150
Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	241	1029·7	+8	SW	3	F	33	95	1	5	–	–	10	10	<150
Gorleston	14	1031·4	+18	SW	1	bc	35	95	5	5	–	–	2-3	2-3	1500
Valentia Obs.†	30	1024·8	+6	SSW	5	d f	46	95	3	5	–	–	10	10	<150
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke	150	1027·8	+2	SW	4	d	50	95	4	5	–	–	10	10	800
Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester	272	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Croydon	244	1031·6	+12	S'W	3	b f-	32	95	3	–	–	–	0	0	–
Manston	136	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	55	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Scilly (St. Mary's)	163	1031·0	+4	SW	5	i d	50	95	6	5	–	–	10	10	2500
Falmouth	200	1031·8	+6	SW'W	4	o	47	95	8	5	–	–	10	10	4000
Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	1031·0	+14	SW	2	bc	47	75	7	4	–	–	2-3	2-3	2500
Calshot, S'hampton	8	1032·0	+34	NE'N	1	b f	33	95	1	–	–	–	0	0	–
Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	347	1031·9	+14	S'W	1	z	36	95	5	5	–	–	10	10	1500
Guernsey	173	1032·2	+4	–	0	b	40	95	7	–	–	–	0	0	–

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

Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	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)
Lerwick	1014·7	+6	SSW	2	c	47	95	7	8	2	–	4-6	10	1500	1	*
Stornoway	1013·0	-14	SSW	6	c	50	85	7	3	–	–	10	10	4000	1	4
Wick	1015·7	-8	SW	5	c	46	85	8	4	2	–	4-6	10	1500	0	3
Tiree	1018·0	-10	S'E	5	d d	48	95	6	5	–	–	10	10	1500	1	3
Nairn	1016·3	*	SSW	2	c	47	85	8	5	1	–	2-3	7-8	2500	0	*
Aberdeen	1015·8	-4	SW	3	c	43	95	8	5	–	8	7-8	9	4000	1	1
Malin Head	1019·7	-4	SSW	4	i d	50	95	5	6	–	–	10	10	800	0	4
Renfrew	1022·9	-6	SW'S	2	c	48	95	7	6	2	–	7-8	10	1500	1	*
Inchkeith (Edin.)	1022·5	-6	WSW	3	o	46	95	8	5	–	–	10	10	1500	0	1
Leuchars	1021·2	-2	SW	4	c	47	95	6	5	2	–	4-6	10	1500	1	*
Eskdalemuir	1024·2	-4	SW	3	o/d	44	95	5	5	–	–	10	10	450	1	*
Tynemouth	1025·7	+2	SW	2	o	38	95	5	5	–	–	10	10	800	0	2
Blacksod Point	1022·2	+8	SW	6	d d	51	95	6	6	–	–	10	10	<150	1	4
Aldergrove	1023·4	-4	S'E	4	i r	48	95	6	5	–	–	10	10	450	1	*
Donaghadee	1023·0	-4	W	1	c	47	95	7	5	–	–	9	9	1500	1	0
Birr Castle	1025·1	+2	SW	3	c	53	95	7	6	3	–	2-3	7-8	2500	1	0
Holyhead	1026·0	0	SW'S	4	i d	50	95	4	6	–	–	10	10	450	1	2
Liverpool (Bidston)	1026·6	0	SE'S	4	o	43	95	7	5	–	–	10	10	2500	0	*
Chester (Sealand)	1027·4	0	SSE	3	c	43	95	7	5	–	–	9+	9+	1500	1	*
Harrogate	1027·2	0	S	1	i d	41	95	5	6	–	–	10	10	2500	1	*
Spurn Head	1028·8	0	S	3	c f	36	95	3	5	3	–	9	10	450	0	3
Birmingham	1030·6	+2	SW	3	c/r	41	95	8	6	–	–	9+	9+	2500	1	*
Cranwell	1030·3	+2	SW'W	2	bc	35	95	6	5	–	–	4-6	4-6	4000	1	*
Gorleston	1032·3	+4	SW	3	bc	35	95	5	5	7	1	2-3	4-6	1500	0	2
Valentia Obs.†	1027·3	+8	S	4	i d	51	95	6	5	–	–	10	10	450	1	3
Roches Point	1027·6	+4	SW	2	o	51	95	6	5	–	–	10	10	1500	1	3
Pembroke	1028·1	+2	SW	4	d d	51	95	2	5	–	–	10	10	<150	1	3
Ross-on-Wye	1025·4	+4	S	2	c	44	95	6	5	–	–	10	10	2500	1	*
Leafield	1031·4	+6	SW'S	4	i d	38	95	6	5	–	–	9+	9+	1500	1	*
Cardington	1031·7	0	SW	3	bc	34	95	6	5	3	–	2-3	4-6	7200	1	*
Winchester	1033·5	+6	SSE	1	f	31	95	2	5	–	–	10	10	<150	4	*
S. Farnborough	1032·7	+8	S	2	m	36	95	4	5	3	–	7-8	7-8	4000	1	*
London (Kew)	1033·2	0	–	0	b c f	31	95	3	5	3	–	1	2-3	2500	1	*
Croydon	1033·1	+2	S'W	4	b c f	35	95	3	5	7	–	2-3	4-6	800	1	*
Manston																
Shoeburyness	1033·4	+4	SSW	1	d m	35	95	4	5	7	–	2-3	7-8	1500	4	*
Clacton-on-Sea	1033·3	+14	SSW	4	bc	38	95	7	5	–	–	4-6	4-6	800	0	2
Felixstowe	1033·6	+10	SSW	3	c	38	95	6	5	3	–	2-3	7-8	4000	0	2
Scilly (St. Mary's)	1032·9	+6	WSW	5	f	51	95	2	5	–	–	10	10	220	1	3
Falmouth	1032·2	0	SW	5	d d	50	95	6	5	–	–	10	10	1500	1	3
Plymouth	1032·8	+6	SSW	4	d d	49	95	5	5	–	–	10	10	<150	1	2
Portland Bill	1032·6	+6	WSW	3	c	50	85	8	4	–	–	9+	9+	2500	1	3
Calshot, S'hampton	1033·3	+6	E'N	2	b f-	37	95	3	5	3	–	2-3	4-6	2500	1	0
Dungeness			SW	3	z	*	*	5	5	2	*	4-6	9+	2500	*	1
Lympne	1033·8	+10	S	2	m	38	95	4	5	–	–	10	10	800	1	*
Guernsey	1033·8	+10	–	0	bc	43	95	7	5	–	–	4-6	4-6	2500	0	1

PAST 24 HOURS.

Stations.	Temperature. Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 17th Hrs. (36)
Lerwick	45	43	*	0·1	1	0·0
Stornoway	49	45	*	3	0·2	0·0
Wick	44	42	*	0·3	0·6	*
Tiree	48	47	44	1	0·2	0·2
Nairn	42	42	*	0·2	–	1·8
Aberdeen	43	39	31	–	–	0·0
Malin Head	46	46	*	0·2	Tr.	0·2
Renfrew	43	43	41	Tr.	–	0·0
Inchkeith (Edin.)	42	41	39	–	–	0·0
Leuchars	41	40	36	–	–	0·0
Eskdalemuir	38	37	36	–	/	0·0
Tynemouth	40	33	29	–	–	*
Blacksod Point	51	48	*	J	0·1	*
Aldergrove	44	41	41	Tr.	0·1	2·2
Donaghadee	46	46	*	0·1	0·1	
Birr Castle	47	46	41	0·1	1	1·3
Holyhead	50	46	41	–	4	3·3
Liverpool (Bidston)	39	36	34	Tr.	–	1·0
Chester (Sealand)	40	33	30	–	–	0·0
Harrogate	35	32	29	–	Tr.	0·0
Spurn Head	41	32	*	Tr.	–	0·0
Birmingham	34	35	35	–	0·2	0·0
Cranwell	34	26	22	–	–	0·3
Gorleston	43	33	30	–	–	0·4
Valentia Obs.†	52	51	49	1	1	0·0
Roches Point	50	48	*	0·2	2	*
Pembroke	51	43	*	–	2	3·6
Ross-on-Wye	41	32	27	–	Tr.	0·0
Leafield	37	33	31	–	0·1	0·0
Cardington	40	26	24	–	Tr.	1·5
Winchester	39	28	25	Tr.	Tr.	2·3
S. Farnborough	41	26	21	Tr.	Tr.	1·2
London (Kew)	39	30	26	Tr.	0·1	0·0
Croydon	40	31	28	–	–	0·0
Manston						
Shoeburyness	44	31	22	–	–	0·9
Clacton-on-Sea	44	35	30	–	–	0·0
Felixstowe	42	35	30	–	–	0·2
Scilly (St. Mary's)	52	47	*	–	0·4	5·5
Falmouth	50	44	*	–	0·1	4·4
Plymouth	49	38	36	–	0·2	3·2
Portland Bill	45	43	*	–	–	*
Calshot, S'hampton	39	31	25	0·1	Tr.	0·1
Dungeness	43	41	*	–	–	*
Lympne	41	31	21	Tr.	–	2·2
Guernsey	48	39	29	–	–	4·7

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather Morning.	Weather Afternoon.	Weather Night.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
Kew	18	o m o f	o f g o f x	o f b c f x	39	30	26	Tr.	0·1	0·0	*	*	2
Croydon	244	o c f f	c f f	b c f x b m y	40	31	28	–	–	0·0	*	*	3
Greenwich (Royal Observatory)	149	c f	c f	c b f x c f	42	30	21	–	Tr.	0·0	81	91	3
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park)	27	*	*	*	42	30	28	–	–	0·0	87	96	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	0·0	*	*	*
Camden Square	110	c m o f	f	*	41	33	26	–		*	*	94	*
Kensington Palace	80	o f	o f	*	40	32	28	–	–	*	At 18h. 91	94	*
Hampstead Observatory	450	c m o m	o f	*	39	29	22	Tr.	Tr.	0·0	*	90	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 18th

South Kensington. Max.	Time.	Min.	Time.
3·2	12h. 17th	0·6	3h.-6h. 18th

Kew Observatory. Max.	Time.	Min.	Time.
1·3	16h. 17th	0·3	4h. 18th

FOREIGN OBSERVATIONS.

18h. G.M.T. 17th December

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1028·5	NE	2	b f	34
Brussels	1029·0	–	0	0	30
Berlin	1022·3	NW	4	c	28
Zürich	1025·9	SE	1	0	31
Rome					

7h. G.M.T. 18th December

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
1037·4	WSW	1	f	32
1036·2	WSW	2	z	27
1035·2	S'E	1	c	31
1024·1	NNE	4	c	41

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
39	30	–	–
32	27	0·1	–
31		2	
34	30	–	–
	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.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 19th Dec. 1930.

No. 25,229.

STATIONS. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 18th December.														OBSERVATIONS at 18h. G.M.T. 18th December.													PAST 24 HOURS.			
									Cloud.													Cloud.							Weather.			
			Wind.						Form.			Amount.					Wind.					Form.			Amount.						
	Barom. at M.S.L. mb.	Change in 3 hours.	Direc.	0-12 Force.	Weather.	°F. Temp.	% Humid.	Visibility 0-9	Low	Med.	High	Low 0-10	Total 0-10	Height of Base (feet)	Barom. at M.S.L. mb.	Change in 3 hours.	Direc.	0-12 Force.	Weather.	°F. Temp.	% Humid.	Visibility 0-9	Low.	Med.	High.	Low. 0-10	Total 0-10	Height of Base (feet)	State of Ground. 0-9	Sea. 0-9	7h.–13h. 18th.	13h.–18h. 18th.	18h.–1h. 18th.–19th.	1h.–7h. 19th.
	(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)
Lerwick	1009.4	-2.0	S	3	rr	47	95	7	6	-	-	10	10	1500	1011.6	+1.0	NSW	3	id.	49	95	6	6	-	-	10	10	1500	1	.	c, orr	orr, id, m.	oid, d, d, m.	c
Stornoway	1013.4	+6	SW	5	o	52	98	6	6	-	-	10	10	4000	1015.6	+1.4	SW	4	bc	51	95	6	4	-	-	4.6	4.6	4000	1	2	rrir	c, bc	bc	bc d.
Wick	1013.2	-1.0	SW	5	rr	47	95	5	6	-	-	10	10	1500	1015.6	+2.0	SW	3	c	50	95	5	8	1	.8	4.6	7.8	1500	1	3	corr	orr, c	cbc	bc
Tiree	1019.0	+6	SW	6	id.	50	95	5	5	-	-	10	10	<150	1021.2	+2.0	SW	3	c	50	95	5	8	1	-	10	10	450	1	4	odd id, m.	or, m, id.	oid, m, oid	id, m.
Nairn	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1017.9	.	NSW	4	bc	52	85	8	5	-	-	4.6	4.6	2500	0	.	cpr	Cq	obcq	qbc
Aberdeen	1018.0	-1.0	SSW	3	c	48	85	6	-	7	8	Tr.	9+	2500	1019.1	+1.2	SW	3	c	55	75	6	7	-	9	0	9	-	1	1	cir.	c3.	czbc	bcb
Malin Head	1021.1	+4	SW	5	c	54	95	6	5	7	-	2.3	7.8	1500	1023.3	+1.8	SW	5	c	52	95	7	5	1	9	7.8	9	1500	0	4	ocm, m.	cm, m.	cm, bcm.	ce
Renfrew	1022.5	+2	SW	3	o	51	95	6	5	-	-	10	10	800	1024.0	+8	SW	3	c	52	95	7	5	1	-	4.6	10	1500	1	.	c, d, om.	om, d, c	c	cbc
Inchkeith (Edin.)	1021.1	+6	SW	4	c	50	95	6	5	2	-	4.6	9+	1500	1022.3	+1.0	NSW	5	c	51	95	7	5	1	-	10	10	1500	0	3	oc	copr	co	oc
Leuchars	1020.3	-1.0	SW	4	c	49	95	5	5	2	-	9+	10	800	1021.9	+1.0	NSW	5	c	52	95	7	5	1	-	4.6	9+	800	1	.	cm.	cm, c	c	cbc
Eskdalemuir	1024.1	-2	SW	3	.	48	95	5	5	-	-	10	10	<150	1026.1	+1.6	SW	3	c	50	95	7	5	1	-	10	10	<150	1	.	oid, f	off	off	ofir.
Tynemouth	1023.9	-1.0	WSW	2	.	40	95	5	5	-	-	9	9	1500	1024.3	-1.4	W	2	c	53	95	6	5	1	-	10	10	1500	1	1	ocff	coff, ir.	obcq	bc
Blacksod Point	1024.7	+1.0	S	6	.	51	95	6	5	-	-	10	10	<150	1025.4	+.8	S	6	c	52	95	7	6	1	2	0	10	-	1	4	id	idq	id	idc
Aldergrove	1024.7	+.8	S'W	4	o/d	50	95	5	5	-	-	10	10	800	1027.4	+2.0	S'W	4	c	49	95	6	5	1	-	10	10	450	1	.	odfad, m.	om.	om.	om c
Donaghadee	1023.9	+.4	W	1	id.	53	95	5	5	-	-	9	9	1500	1025.9	+1.0	W	2	id.	52	95	7	5	1	-	9+	9+	600	1	1	cid.	did.	c	c
Birr Castle	1028.2	+1.0	SW	2	o	54	95	5	5	-	-	10	10	1500	1029.6	+.8	SW	2	c	52	95	7	5	1	-	9+	9+	2500	1	.	co	oc	c	c
Holyhead	1027.3	+2	SSW	4	cf	51	95	6	5	6	9	9	9+	220	1029.5	+1.4	SSW	3	c	49	95	7	5	1	-	10	10	<150	1	1	Dd, o, f	cm, o, ffe	fefem	mmffe
Liverpool (Bidston)	1027.2	0	S'E	2	c	53	85	6	5	5	-	-	9	1500	1029.3	+.6	-	0	c	52	95	6	5	1	3	4.6	4.6	1500	1	.	bcvce	ce	bcc	ccme
Chester (Sealand)	1027.4	-.2	SSW	3	c	55	85	5	5	-	-	4.6	9+	4000	1029.2	+.2	-	0	c	58	95	7	5	1	7	7.8	10	4000	1	.	m, c	c	bcbm.	bmf
Harrogate	1026.4	0	SSW	1	id.	48	95	5	6	2	-	9	10	2500	1027.2	0	NSW	4	c	51	95	6	5	1	-	9	9	2500	1	.	ocid.	cid.	cid.	cb
Spurn Head	1027.5	-.2	SW'S	3	c	43	95	6	5	3	-	4.6	10	1500	1027.0	0	SW'S	3	c	45	95	8	5	1	2	7.8	9+	800	1	3	omzc	cr, c	oc	oc
Birmingham	1030.0	0	SW	3	om	46	95	6	5	-	-	10	10	1500	1030.7	+.2	NSW	2	c	45	95	6	5	1	-	7.8	7.8	2500	1	.	cid.	ompr, c	cpr.	cbc
Cranwell	1029.1	-.6	SSW	3	o	46	95	6	5	-	-	10	10	1500	1029.2	+.8	W'S	4	cm	47	95	6	5	1	6	2.3	7.8	4000	1	.	bcm, c	cm, bcm	bmbcm	bcm, cm
Gorleston	1032.0	-.6	SSW	3	dd	42	95	6	5	-	-	10	10	1500	1030.5	-1.4	SW'S	4	c	45	95	6	5	1	-	10	10	800	1	3	bcomm	odr, r, m	orr, idm,	om, m,
Valentia Obs.	1030.1	+.6	S	3	o/d	51	95	6	5	-	-	10	10	450	1031.1	+1.0	S	3	c	51	95	6	5	1	-	10	10	450	1	3	oid, o	oid.	oid, bc	boodid
Roches Point	1030.6	+1.4	W	2	c	51	95	7	5	-	-	9	9	1500	1031.9	+.6	W	3	c	51	95	7	5	1	-	9	9	1500	1	3	oc	cld, c	od, d.	od, o
Pembroke	1030.3	+.8	NSW	4	df	51	95	7	5	-	-	10	10	<150	1032.2	+1.2	NSW	4	o/d	49	95	7	4	1	-	10	10	800	1	.	Ffddir	ifid, o	oidf	idff
Ross-on-Wye	1029.9	0	SW	4	c	51	95	6	5	3	8	2.3	9	2500	1030.6	+.6	SW	2	bm.	51	95	7	5	1	-	1	1	4000	1	.	odr, r, c	c	bbebb	bm.
Leafield	1030.8	0	SW'S	5	id	46	95	6	5	-	-	10	10	220	1031.0	0	SW'S	4	f	49	95	7	5	1	-	10	10	450	1	.	ofiam	oidffe	fbf	bef
Cardington	1030.8	-1.4	SW	4	o	47	95	6	5	-	-	10	10	800	1030.8	0	NSW	4	f	49	95	7	5	1	-	10	10	800	1	.	cm, d, cm.	cm, d, o, c	com	offe
Winchester	1033.2	-.8	S	3	rf	45	95	3	5	-	-	10	10	<150	1033.3	+.2	SSW	3	o/d	49	95	4	5	-	-	10	10	220	2	.	ddfffrrff	orrfffd, m.	omoff	om
S. Farnborough	1032.8	-.2	SSW	4	id.	45	95	6	5	-	-	10	10	800	1032.2	+.2	SW	2	ir.	49	95	6	6	-	-	10	10	800	1	.	cmxfm, r.	odmr, o	om, r, om.	om, d, om
London (Kew)	1032.9	-1.4	SSW	3	c/r	45	95	5	4	2	-	0	10	-	1032.6	-.2	SW'S	3	o	48	95	5	5	-	-	10	10	1500	1	.	bcfx, o, f, o, r.	o4fcm.	om.	om.
Croydon	1033.2	-.6	SSW	4	id.	45	85	4	5	2	-	4.6	10	2500	1032.3	-.4	SSW	4	d, d.	49	95	5	6	-	-	10	10	220	1	.	bcfc, d, m.	cdmddd, m.	ddffd, mcm.	cm.
Manston	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Shoeburyness	1033.1	-1.0	SSW	4	c	47	85	6	.	1	-	0	9+	-	1032.2	0	SSW	5	c/d	47	95	8	5	2	-	4.6	10	2500	1	.	bcc, m.	om, oid	oir.	oir.
Clacton-on-Sea	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1031.9	0	SSW	4	ar	44	95	6	6	-	-	10	10	800	1	2	bcc	cop, d, r.	or, o	oc
Felixstowe	1033.5	-.2	SSW	4	om.	45	85	5	5	-	-	10	10	2500	1032.3	-.6	SSW	4	r, r.	45	95	5	6	-	-	10	10	1500	1	2	cm, bcc, 3.	om, dd, r, r.	om, r, r, r.	om.
Scilly (St. Mary's)	1033.9	+1.2	W'S	5	f	52	95	3	5	-	-	10	10	450	1035.2	+.6	WSW	4	f	51	95	2	5	-	-	10	10	<150	1	3	dmif	off	ocff	cffe
Falmouth	1034.5	+.6	SW'S	5	d, d.	52	95	6	5	-	-	10	10	1500	1034.3	+.4	SW	3	o	52	95	6	5	-	-	10	10	1500	1	2	om, d.	om, d.	om.	omif
Plymouth	1033.7	+.2	WSW	3	d, d.	51	95	5	5	-	-	10	10	220	1034.6	+.6	SW	1	om.	51	95	6	5	-	-	10	10	220	2	2	od, d, m.	od, c, d, m.	ofe	ofefe
Portland Bill	1032.8	-.4	SW	5	RR	51	95	6	5	-	-	10	10	1500	1032.8	0	WSW	5	ir	52	95	7	4	-	-	9+	9+	1500	2	3	crr, 3.	Rr, r	o	oc
Calshot, S'hampton	1033.5	-.6	SSW	4	DD	48	95	5	5	-	-	10	10	1500	1033.4	-.2	SW'S	3	r, r.	49	95	6	5	-	-	10	10	450	1	1	bcfxd, m.	DDrrd, m.	orr, om.	om.
Dungeness	.	.	SW	4	cm.	.	.	7	.	4.6	9+	2500	.	.	SW	4	dd	.	.	4	8	-	-	.	10	10	1500	.	2	o	d	.	f
Lympne	1034.0	-.2	SSW	4	c	48	85	7	5	3	-	7.8	9+	4000	1033.7	0	SSW	4	rF	46	95	1	5	-	-	10	10	<150	1	.	cm.	cod, r, m, drf	od, ffe	od, fefe
Guernsey	1034.8	-.4	SW	3	d	51	85	6	6	-	-	10	10	1500	1035.1	+.2	SW	2	rr	51	95	6	6	-	-	10	10	1500	2	2	bcod.	orr	orid.	cidd 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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus, R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height).
◌B, solar halo. ◌D, lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus .—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

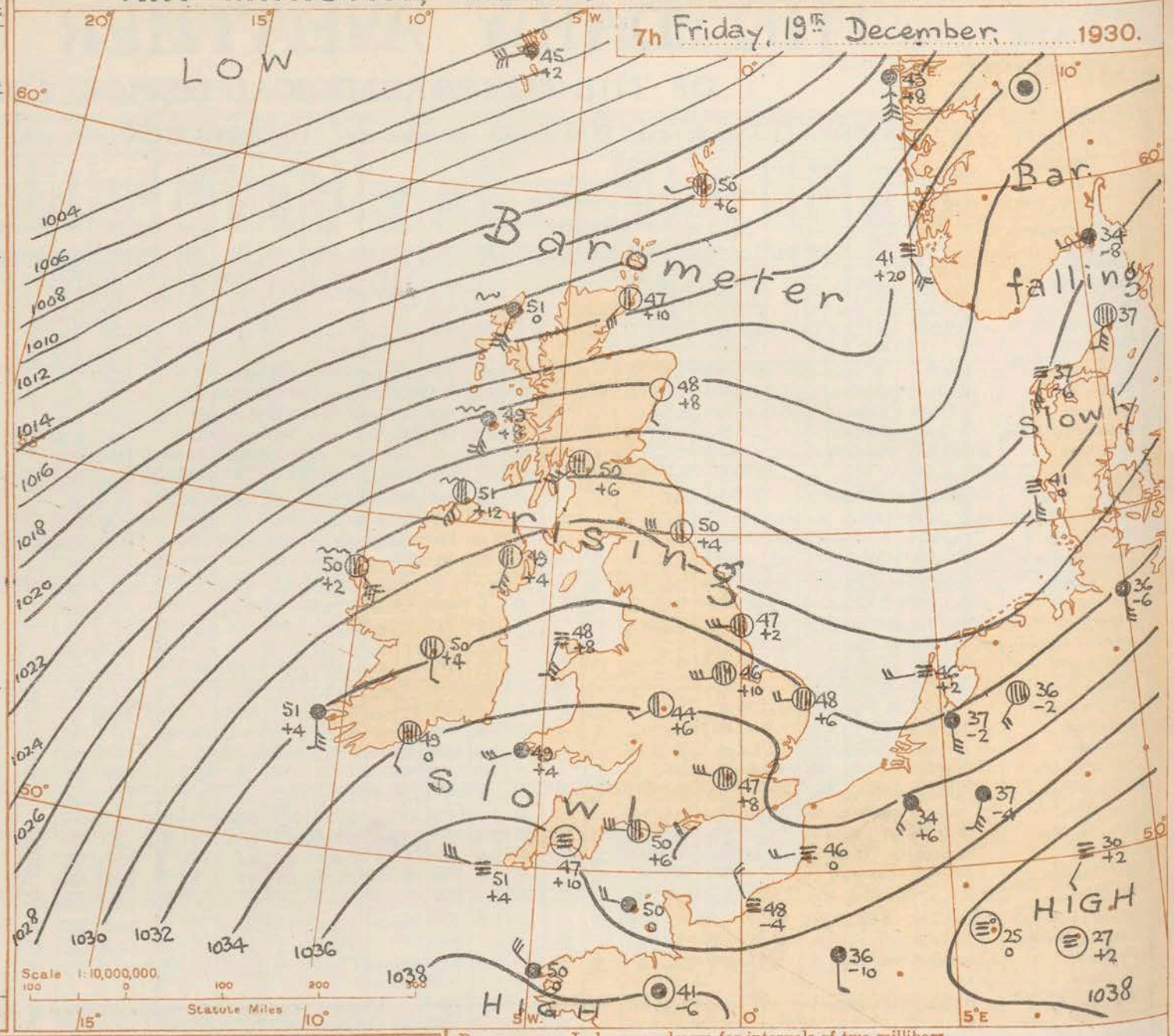
REPORTS from HEALTH RESORTS for....18th December 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 17th to 9h. 18th	TEMPERATURE. Max. 9h.—17h. 18th	RAINFALL. Night. 17h. 17th to 9h. 18th	RAINFALL. Day. 9h.—17h. 18th	SUNSHINE. Sunrise to Sunset. 18th
Dunbar	bo	bc	37	54	–	–	0·0
Berwick-on-T. ..	c	c	36	51	–	–	0·0
Douglas	ORRFc	cbc	42	54	2	1	0·0
Llandudno	c	c	39	55	Trace	–	0·0
Colwyn Bay	obco	bcobc	40	60	–	–	0·0
Rhyl	c	cbc	38	60	–	–	0·0
Wallasey	fr	fr.oc	37	64	–	Trace	0·0
Southport ... ‖ ...	ocd.	ocd.	36	51	Trace	0·4	0·0
Blackpool	ome	odo	35	50	0·4	1	0·0
Morecambe	rdo	crdo	35	50	1	1	0·0
Ilkley	cd.fc	rcod.	31	52	Trace	1	0·0
Cleethorpes	ocbr	co	29	47	0·1	0·3	0·0
Mablethorpe	ofeom	er.	29	45	–	Trace	0·0
Skegness...	omm	po	31	44	Trace	0·1	0·0
Aberystwyth	comr	mr Ff	38	51	4	2	0·0
Bath	crr	ir.c	31	52	–	5	0·0
Cheltenham ... † ...	coid.	omc	33	51	–	1	0·0
Leamington Spa	od	od	29	50	0·1	0·2	0·0
Lowestoft	cbcbc	coim	31	45	–	Trace	0·0
Dovercourt	xoc	doc	33	46	–	Trace	0·0
Maldon	xmc	cod	27	47	–	Trace	0·1
Southend	cz bc	or.	34	46	–	0·3	0·2
Ilfracombe	rr	rr	44	53	2	5	0·0
Bude	rnd	rn	37	61	1	2	0·0
St. Ives	d	o	45	53	1	0·5	0·0
Penzance	omd	omdr	42	54	1	1	0·0
Torquay	odmdr	mpo	36	54	Trace	3	0·0
Jersey	bc	cd	37	51	–	1	2·7
Weymouth	crr	rdd	33	52	–	5	0·0
Bournemouth	d	d	32	51	0·3	3	0·0
Ventnor	xcuor	or	36	50	Trace	3	0·7
Southsea	Form	orrdm	32	50	–	5	0·0
Bognor Regis	c cr	rrc	32	49	–	3	0·0
Littlehampton	bcc	cr.od	29	49	Trace	1	0·0
Worthing	oco	d.d	31	49	Trace	1	0·0
Brighton...	cor	cr	31	49	–	1	0·0
Eastbourne ... † ...	bcco	or. r.	32	50	–	1	0·3
Hastings ... † ...	cmco	ord	37	49	Trace	1	0·6
Folkestone	xcm.	cod	38	49	–	1	0·1
Dover	mc	cod	35	49	–	0·5	0·5
Deal	co	or	32	49	–	0·5	0·0
Tunbridge Wells	bcco	or	31	48	–	0·5	0·2
Ramsgate	bcc	cod	36	48	Trace	1	0·2
Margate	bcc	cr	34	49	–	0·6	0·4

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Friday, 19th December 1930.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 19th Dec. 1930.
1. S.E. England 2. E. England ..	Wind westerly or variable light or moderate; mainly cloudy; perhaps local mist or fog; mild.
3. E. Midlands 4. W. Midlands	Wind westerly or variable, light or moderate; mainly cloudy; local mist; mild.
5. S.W. England 6. South Wales	Wind westerly, light or moderate; mainly cloudy; local mist or fog at times; mild.
7. North Wales 8. N.W. England	Wind between west and south, light or moderate; cloudy; local drizzle and mist or fog near coast and on hills; perhaps improving; mild.
9. N. Midlands	Wind west or southwest, light or moderate; mainly cloudy; local drizzle and mist or fog near coast and on hills; mild.
10. N.E. England	As 2.
11. S.E. Scotland	Wind southwesterly, moderate; mainly cloudy; mild.
12. S.W. Scotland & Isle of Man	As 7 - 9.
13. A. W. Scotld. B. N.W. Scotland.	Wind southwesterly, fresh or strong; cloudy; local drizzle and mist; mild.
14. Mid-Scotland 15. N.E. Scotland	As 11.
16. Orkneys and Shetlands.	Wind west or southwest, fresh or strong; cloudy; drizzle or rain at times; mild.
17. N.W. Ireland 18. N.E. Ireland	Wind southwest or south, moderate; cloudy; occasional local drizzle and mist; mild.
19 S.E. Ireland	As 5 - 6.
20. S.W. Ireland	As 17 - 18.

H.M. Stationery Office Press Kingsway W.C.2 C—2437/2185. m. 26 D.6026 Gp.908. 3/31 12139

GENERAL INFERENCE.

An anticyclone extends from the Bay of Biscay to Central Europe and pressure is low over Iceland. A trouhg of low pressure some distance west of Ireland is filling up. Weather will be mainly cloudy and mild, with local drizzle and some mist or fog chiefly confined to western districts.

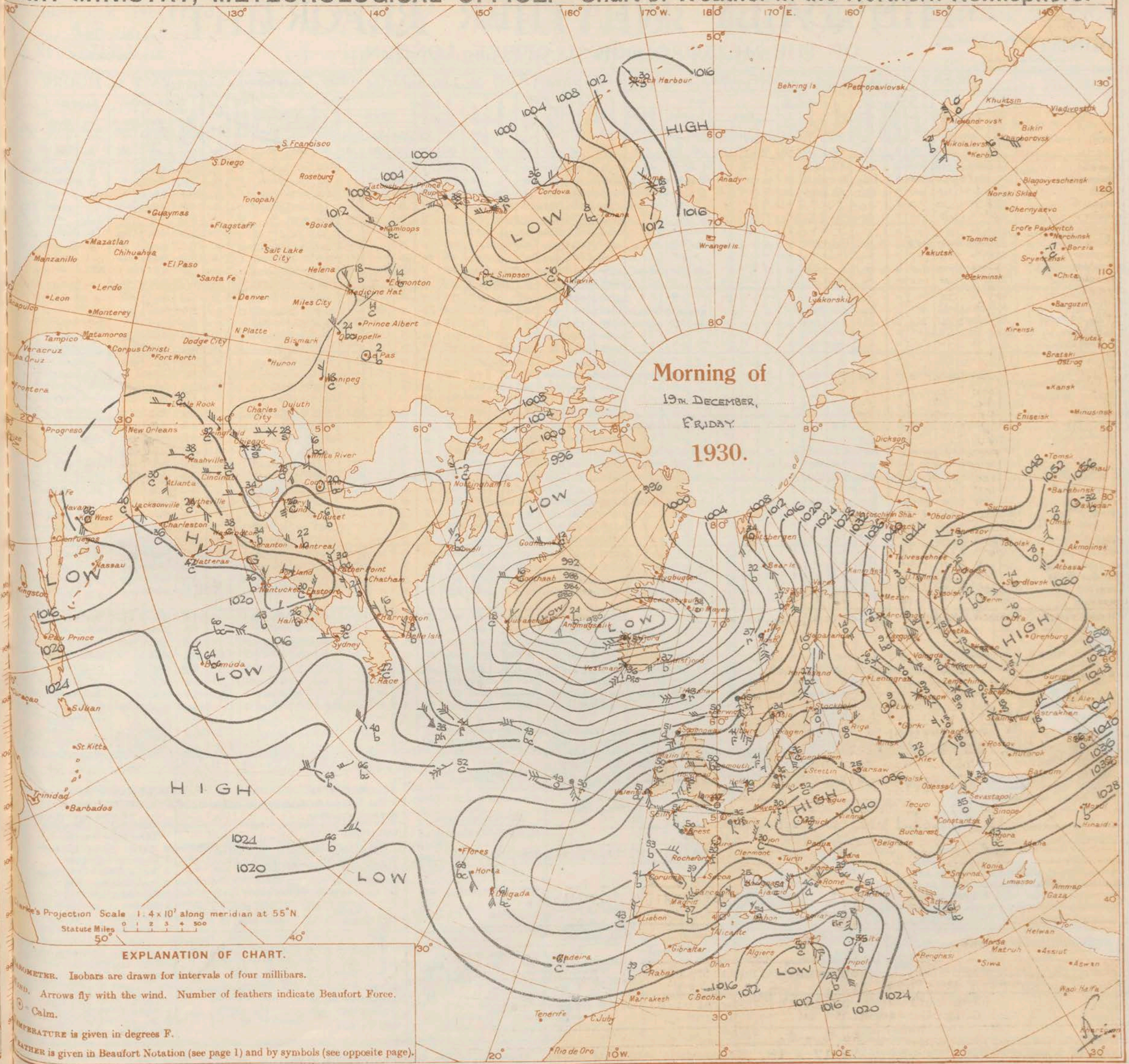
FURTHER OUTLOOK.

Mild in most districts; drizzle or rain at times in the West and North; perhaps some fog in the South.

Forecasts issued at 1025 G.M.T.

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⓪ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 19th Dec. 1930.

No. 25,229.

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

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)
Lerwick	54	1014·9	+18	WSW	4	c	49	95	7	5	2	–	4-6	9	1500
Stornoway	34	1017·5	+12	SW	7	bc	51	95	7	6	–	–	4-6	4-6	4000
Wick	81	1018·1	+4	SW	4	bc	50	95	8	5	–	8	2-3	4-6	2500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51	1025·8	+20	SW'w	4	c	50	95	7	5	–	–	9+	9+	1500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	1025·7	+14	SW	4	o	51	95	8	5	–	–	10	10	1500
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	1027·7	+12	W	2	bc	51	95	7	2	–	–	2-3	2-3	2500
Blacksod Point	10	1026·9	+6	S	6	id	52	95	6	6	–	–	10	10	<150
Aldergrove	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	1031·6	+8	SW	4	m	49	95	4	5	–	–	10	10	220
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	1029·0	+4	WNW	5	c	49	95	6	5	2	–	7-8	9+	800
Birmingham	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1031·2	+6	WSW	4	bc	47	95	6	5	–	–	4-6	4-6	2500
Gorleston	14	1031·0	+6	W	2	o	49	95	6	6	–	–	10	10	1500
Valentia Obs.†	30	1031·0	0	S	4	f-	47	95	3	5	–	–	10	10	<150
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke	150	1034·4	+6	WSW	3	F	49	95	1	5	–	–	10	10	<150
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew)	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1033·0	+4	W	3	z	50	95	5	5	–	–	10	10	450
Manston	135	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1036·8	+6	W'S	4	f	50	95	3	5	–	–	7-8	7-8	450
Falmouth	200	1037·0	0	SW	3	o	49	95	6	5	–	–	10	10	4000
Plymouth	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	1034·2	+2	W	4	o	51	95	7	5	–	–	10	10	1500
Calshot, S'hampton	8	1034·1	+2	SW'w	2	o	50	95	6	5	–	–	10	10	450
Dungeness	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1032·8	–2	SW'S	2	df	47	95	0	6	–	–	10	10	<150
Guernsey	173	1035·7	0	W	3	id	52	95	6	6	–	–	10	10	1500

OBSERVATIONS at 7 hr. G.M.T. 19th December

STATIONS.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	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)
Lerwick	1015·9	+6	WSW	3	c	50	95	7	5	2	–	4-6	10	1500	1	•
Stornoway	1016·8	0	SSW	6	d	51	95	6	6	–	–	10	10	4000	1	4
Wick	1019·9	+10	SW	3	bc	47	95	8	5	–	8	2-3	2-3	4000	1	3
Tiree	1024·8	+8	SSW	5	id	49	95	6	5	–	–	10	10	220	1	4
Nairn	1021·0	•	WSW	4	bc	50	85	8	–	8	10	8	4-6	–	0	•
Aberdeen	1024·4	+8	SSW	1	b	48	85	8	–	–	–	0	0	–		
Malin Head	1027·1	+12	SW	4	c	51	95	7	5	–	–	9+	9+	1500	0	4
Renfrew	1028·0	+6	SW	4	c	50	95	7	5	–	1	4-6	7-8	2500	1	•
Inchkeith (Edin.)	1027·1	+6	WSW	4	c	50	85	8	5	2	–	1	7-8	1500	0	2
Leuchars	1026·4	+10	SW	5	bc	49	85	8	4	–	–	4-6	4-6	4000	41	•
Eskdalemuir	1030·2	+4	SW'w	5	o	47	95	6	5	–	–	10	10	800	1	•
Tynemouth	1028·6	+4	W	3	bc	50	85	7	2	–	–	2-3	2-3	2500	0	2
Blacksod Point	1028·0	+2	SE	5	c	50	95	6	5	–	–	9+	9+	<150	1	4
Aldergrove	1030·3	+4	SSW	4	c	49	95	6	5	–	–	9	9	800	1	•
Donaghadee	1029·6	0	W	1	c	50	95	7	5	–	–	7-8	7-8	1500	1	0
Birr Castle	1031·5	+4	S	1	c	50	95	7	5	–	–	9+	9+	2500	1	•
Holyhead	1033·3	+8	SSW	4	f	48	95	2	5	–	–	10	10	<150	1	1
Liverpool (Bidston)	1033·7	+6	WSW	3	cf	46	95	3	5	–	–	7-8	7-8	1500	0	•
Chester (Sealand)	1038·6	+10	–	0	bf	34	95	0	–	–	–	0	0	–	1	•
Harrogate	1032·2	+14	SW'S	2	c	49	95	7	6	–	–	9+	9+	2500	1	•
Spurn Head	1031·9	+2	W	3	c	47	95	6	5	3	–	4-6	10	2500	0	2
Birmingham	1034·6	+6	WSW	1	bc	44	95	6	–	–	2	0	4-6	–	1	•
Cranwell	1033·3	+10	W'S	3	c	46	95	6	5	–	–	10	10	2500	1	•
Gorleston	1032·3	+6	W'N	2	o	48	95	5	6	–	–	10	10	1500	1	2
Valentia Obs.†	1032·3	+4	S'E	4	id	51	95	6	5	–	–	7-8	7-8	450	1	3
Roches Point	1034·1	0	SW	1	o	49	95	6	5	–	–	10	10	800	1	2
Pembroke	1034·8	+4	WSW	3	df	49	95	1	5	–	–	10	10	<150	1	2
Ross-on-Wye	1034·7	+6	E	2	bc	39	95	6	–	1	2	0	2-3	–	1	•
Leafield	1034·7	+10	S'E	2	f	44	95	1	5	–	–	10	10	<150	1	•
Cardington	1034·4	+10	W	2	f	44	95	2	5	–	–	10	10	<150	1	•
Winchester	1035·6	+10	NW'w	7	m	47	95	4	5	–	–	10	10	800	1	•
S. Farnborough	1035·0	+12	W'N	1	o	47	95	6	5	–	–	10	10	1500	01	•
London (Kew)	1035·0	+10	W	2	o	48	95	5	5	–	–	10	10	2500	1	•
Croydon	1034·6	+8	WNW	3	z	47	95	5	5	–	–	10	10	450	1	•
Manston																
Shoeburyness	1034·1	+16	W	1	o/r	48	95	6	5	–	–	10	10	800	1	•
Clacton-on-Sea	1033·7	+10	NW	3	c	48	95	6	5	–	–	7-8	7-8	450	0	1
Felixstowe	1034·3	+18	NW	2	z	48	95	5	5	–	–	10	10	800	1	1
Scilly (St. Mary's)	1037·2	+4	W	3	df	51	95	3	5	–	6	10	10	450	1	2
Falmouth	1037·3	+2	WNW	1	if	49	95	3	5	–	–	10	10	800	0	1
Plymouth	1036·9	+10	–	0	f	47	95	3	5	–	–	10	10	<150	(2)	2
Portland Bill	1035·5	+6	W	3	c	50	95	8	4	4	–	4-6	7-8	1500	1	3
Calshot, S'hampton	1035·3	+6	W	3	o	48	95	6	5	–	–	10	10	800	1	1
Dungeness	•	•	NW	2	m	•	•	4	5	–	•	10	10	1500	•	1
Lympne	1033·3	+4	NW'N	4	f-	47	95	3	6	–	–	10	10	220	1	•
Guernsey	1035·7	0	WNW	2	dd	50	95	5	6	–	–	10	10	1500	1	2

PAST 24 HOURS.

STATIONS.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 18th Hrs. (36)
Lerwick	49	48	•	8	0·3	0·0
Stornoway	52	50	•	·9	0·2	0·0
Wick	52	46	•	4	–	•
Tiree	50	49	48	1	0·4	0·0
Nairn	53	49	•	0·2	–	0·0
Aberdeen	56	46	39	Tr.		0·0
Malin Head	54	50	•	–	–	0·1
Renfrew	53	49	46	0.1	–	0·0
Inchkeith (Edin.)	52	48	47	Tr.	–	0·0
Leuchars	52	49	46	–	–	0·0
Eskdalemuir	50	46	45	1	2	0·0
Tynemouth	54	50	41	0.2	–	•
Blacksod Point	53	(50) 49	•	0.1	Tr.	•
Aldergrove	50	46	46	Tr.	–	0·0
Donaghadee	54	49	•	0·2	Tr.	•
Birr Castle	54	47	40	–	–	0·0
Holyhead	51	48	46	2	0·1	0·0
Liverpool (Bidston)	53	46	40	Tr.	–	0·0
Chester (Sealand)	55	34	32	–	Tr.	0·0
Harrogate	51	48	46	0·1	0·1	0·0
Spurn Head	46	45	•	Tr.	–	0·0
Birmingham	49	43	35	0·3	0·2	0·0
Cranwell	48	44	42	–	–	0·0
Gorleston	45	45	44	0·4	0·3	0·0
Valentia Obs.†	52	50	49	0·1	1	0·0
Roches Point	52	48	•	Tr.	2	•
Pembroke	52	48	•	1	0·3	0·0
Ross-on-Wye	52	35	30	1	0·1	0·1
Leafield	49	43	39	1	0·2	0·0
Cardington	50	44	43	1	Tr.	0·0
Winchester	50	46	46	3	0·1	0·0
S. Farnborough	49	46	47	2	0·1	0·0
London (Kew)	49	48	47	0·3	Tr.	0·0
Croydon	49	47	45	0·2	0·1	0·0
Manston						
Shoeburyness	48	45	46	0.1	1	0·4
Clacton-on-Sea	45	43	43	0.4	1	0·0
Felixstowe	45	44	43	0.6	0·4	0·0
Scilly (St. Mary's)	52	49	•	0.4	0·3	0·0
Falmouth	53	48	•	0.4	–	0·0
Plymouth	52	47	47	3	0·2	0·0
Portland Bill	55	49	•	3	0·5	•
Calshot, S'hampton	50	47	46	6	0·2	0·2
Dungeness	51	47	•	Tr.	0·4	•
Lympne	48	46	45	1	2	0·7
Guernsey	52	50	49	6	2	1·6

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather 24 hrs. ended 9h. Morning.	Weather 24 hrs. ended 9h. Afternoon.	Weather 24 hrs. ended 9h. 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.
										Yesterday.		To-day.	
Kew	18	bcfrqf,qc	odfcm	om	49	48	47	0·3	Tr.	0·0	•	•	H
Croydon	244	bcfedm	cdmddqmf	odfmf	49	47	45	0·2	0·1	0·0	•	•	4
Greenwich (Royal Observatory)	149	cfm	cddqmf	odmf	50	39 41	43	0·5	Tr.	0·0	96	93	3
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0·0	•	•	•
Westminster (St. James' Park)	27	•	•	•	•	•	•	•	•	0·0	•	•	•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•	0·0	•	•	•
Camden Square	110	xfco	orodo	•	50	37	47	0·5	—	•	•	97	•
Kensington Palace	80	bcfodr	odro	•	50	47	45	1	0·2	•	At 18h. 95	97	•
Hampstead Observatory	450	omob	ofr	•	50	43	41	1	0·3	0·0	•	95	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
2·6	10h. 18th	·03	0h.-7h. 19th

Kew Observatory. Max.	Time.	Min.	Time.
1·3	11h 18th	0·1	4h 19m

FOREIGN OBSERVATIONS.

18h. G.M.T. 18th December — 7h. G.M.T. 19th December

STATIONS.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1040·2	SW	1	f-	31	1037·1	S	1	df	36
Brussels	1037·1	SSW	2	b	30	1035·2	SW	2	dd	34
Berlin						1037·0	WSW	1	c	31
Zürich						1038·0	SE	1	m	25
Rome	1023·7	NNE	2	c	46	1022·0	NE	2	dd	46

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
34	34	–	Tr.
32	30	–	5
	30		–
	23		–
54	•	–	•

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

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

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 20th Dec. 1930.

No. 25,230

OBSERVATIONS at 13h. G.M.T. 19th December

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)
Lerwick	1018·8	+14	WSW	8	id.	50	95	6	6	-	-	10	10	800
Stornoway ...	1021·1	+8	SSW	6	d.	50	95	5	6	-	-	10	10	4000
Wick	1022·5	+18	WSW	3	bc	52	85	8	8	6	9	4.6	4.6	2500
Tiree	1026·3	-2	S'W	5	o.	50.	95	7	5	-	-	10	10	800
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1025·7	+8	SSW	3	b	52	85	6	-	4	1	0	1	-
Malin Head ...	1027·6	+2	SW	4	c	52	95	7	-	-	-	9+	9+	1500
Renfrew	1028·3	-4	SW'w	3	c	51	85	7	8	-	-	9	9	2500
Inchkeith (Edin.)	1029·0	+4	WSW	4	bc	50	85	7	7	4	9	1	4.6	4000
Leuchars	1027·2	+2	WSW	5	bc	50	85	8	7	-	-	1	2·3	2500
Eskdalemuir ...	1030·5	-6	W'S	5	c	49	85	7	5	-	2	4.6	9	1500
Tynemouth ...	1030·4	0	W	2	bc	53	85	7	2	6	-	2·3	4.6	2500
Blacksod Point ...	1028·3	+4	S	5	DD	52	85	7	6	-	-	10	10	*
Aldergrove ...	1032·5	+12	SSW	4	id.	50	95	7	5	-	-	10	10	800
Donaghadee ...	1031·2	-2	SW	1	c	51	85	7	5	-	-	7·8	7·8	1500
Birr Castle ...	1032·4	+6	SSW	1	cf	52	95	8	5	-	-	9+	9+	1500
Holyhead... ...	1033·5	-2	SW	4	cf	49	95	8	8	1	-	0	9+	-
Liverpool (Bidston)	1034·3	0	NW'w	2	c	48	95	8	5	-	9	4.6	9	2500
Chester (Sealand)	1033·7	-2	W	2	cm.	52	85	6	5	-	2	2·3	7·8	1500
Harrogate... ...	1033·3	+6	SW	1	c	49	95	8	6	-	-	9+	9+	2500
Spurn Head ...	1033·3	0	NW	3	cm.	48	95	5	5	3	1	4.6	9	800
Birmingham ...	1034·8	-2	NNW	1	bc	51	85	6	-	-	2	0	4.6	-
Cranwell	1034·2	-2	WSW	3	c	51	85	6	5	-	8	1	7·8	4000
Gorleston	1033·7	-2	NW'w	3	bc	50	95	6	5	-	1	2·3	4.6	2500
Valentia Obs. ...	1032·5	-6	S	4	cf	51	95	7	5	-	-	9	9	800
Roches Point ...	1034·9	0	SW	3	cf	49	95	3	5	-	-	10	10	220
Pembroke... ...	1035·6	+2	WSW	3	F	48	95	1	-	-	-	10	10	450
Ross-on-Wye ...	1034·9	-4	E	1	cf	48	95	3	-	-	6	0	9	-
Leafield	1035·2	+6	W	3	c	49	95	6	5	-	2	2·3	7·8	<150
Cardington ...	1035·5	-2	WSW	1	f	46	95	2	-	-	-	-	-	-
Winchester ...	1036·1	-2	NW'w	3	om	47	95	4	5	-	-	10	10	450
S. Farnborough ...	1035·7	+2	NNW	2	c	49	95	6	5	-	-	9+	9+	450
London (Kew) ...	1036·1	0	-	0	c	50	85	6	5	-	-	9+	9+	1500
Croydon	1036·1	+2	WNW	1	0m	48	95	4	5	-	-	10	10	450
Manston														
Shoeburyness ...	1035·8	+2	NW	1	0	48	95	6	6	-	-	10	10	800
Clacton-on-Sea ...	-	-	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	1035·6	+6	W	2	om.	48	95	5	5	-	-	10	10	800
Scilly (St. Mary's)	1037·9	-2	WSW	3	cf	49	95	3	5	-	-	9	9	450
Falmouth... ...	1038·4	+4	-	0	0	51	95	6	5	-	-	10	10	1500
Plymouth... ...	1037·1	-6	N	2	om	50	95	4	5	-	-	10	10	220
Portland Bill ...	1035·8	-4	W'N	2	0	51	95	7	5	-	-	10	10	2500
Calshot, S'hampton	1036·3	0	NW'w	3	0m.	48	95	5	5	-	-	10	10	450
Dungeness ...	•	•	N	1	om.	•	•	5	5	-	•	10	10	1500
Lympne	1035·2	+2	NNW	2	id.	47	95	5	5	-	-	10	10	220
Guernsey	1036·6	0	-	0	df	50	95	2	6	-	-	10	10	220

OBSERVATIONS at 18h. G.M.T. 19th December

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1019·8	0	WSW	3	id.	50	95	6	6	-	-	10	10	800	1	•
1019·1	-12	SSW	7	d.	50	95	5	6	-	-	10	10	4000	1	4
1022·5	0	WSW	4	bc	48	95	8	8	4	9	2·3	4.6	2500	0	•
1024·8	-10	S'W	5	dd	50	95	6	8	-	-	10	10	800	1	4
1023·4	•	WSW	3	bc	51	75	8	2	-	-	4.6	4.6	4000	0	•
1026·4	+2	SSW	2	b	45	85	4	6	4	-	0	Tr.	-	1	1
1026·6	-6	S	4	c	51	95	6	5	-	-	9+	9+	1500	0	3
1029·4	-4	SW	2	c	50	95	6	5	-	-	10	10	1500	1	•
1028·3	-4	SW	4	c	50	85	7	5	2	-	4.6	9	1500	0	2
1028·0	+2	SW	4	c	50	85	7	4	-	1	4.6	7·8	4000	1	•
1031·0	+6	WSW	4	o	47	95	7	5	-	-	10	10	800	1	•
1031·1	+4	W	1	bc	49	85	6	5	-	-	4.6	4.6	1500	0	1
1027·2	-10	S	7	iD	50	95	6	6	-	-	10	10	*	1	5
1030·3	-10	S'W	4	c	50	85	8	5	-	-	9+	9+	800	1	•
1030·2	-2	SW	1	c	47	95	6	5	-	-	7·8	7·8	1500	1	0
1031·5	-4	SSW	1	b	46	95	8	-	4	-	0	1	-	1	•
1033·0	-4	SW	4	id.	48	95	5	6	-	-	10	10	220	1	•
1033·9	0	ESE	2	bf	46	95	2	-	-	-	0	0	-	0	•
1033·7	0	-	0	o	37	95	0	-	-	-	0	0	-	1	•
1032·7	0	SW'w	3	bc	47	95	4	6	-	-	2·3	2·3	2500	1	•
1032·8	0	W'N	2	om.	48	95	5	5	-	-	10	10	800	0	3
1034·9	0	WSW	3	cm	47	95	4	5	-	-	7·8	7·8	1500	1	•
1034·0	-2	WSW	2	cm	45	95	3	5	-	-	2·3	4·6	2500	1	•
1034·4	+4	W'S	3	F	46	95	3	4	-	-	10	10	<150	0	•
1032·2	-2	S	4	id.	50	95	4	5	-	-	10	10	800	1	3
1034·5	-2	SW	3	id	49	95	6	5	-	-	10	10	800	1	3
1035·1	-4	WSW	3	F	48	95	6	4	-	-	10	10	450	1	2
1035·2	0	S'W	1	f	46	95	2	5	-	-	10	10	450	1	•
1035·5	0	SW'S	2	F	46	95	2	5	-	-	10	10	<150	1	•
1034·6	-8	WSW	3	0	48	95	6	5	-	-	10	10	450	1	•
1036·2	0	W	1	df	47	95	3	5	-	-	10	10	220	1	•
1035·6	0	-	0	0	47	95	6	5	-	-	10	10	800	1	•
1035·7	0	WNW	1	om.	46	95	6	5	-	-	10	10	450	0	0
1036·0	+2	W'S	2	om.	46	95	5	5	-	-	10	10	800	0	1
1037·1	-4	WSW	3	f	47	95	2	5	-	-	10	10	450	1	1
1037·7	0	SW	2	o	50	95	6	5	-	-	10	10	1500	0	0
1036·7	-2	WNW	2	om.	51	95	6	5	-	-	10	10	800	1	0
1036·5	+6	NW'w	2	of	50	95	2	5	-	-	10	10	800	1	2
1036·3	-2	SW'w	2	of	48	95	2	5	-	-	10	10	450	1	0
•	•	N	1	o	•	•	6	5	-	•	10	10	1500	•	1
1035·6	+4	N'W	1	om.	46	95	5	5	-	-	10	10	450	1	•
1036·0	-2	-	0	f	49	95	2	5	-	-	10	10	220	1	1

PAST 24 HOURS. WEATHER.

7h.–13h. 19th (37)	13h.–18h. 19th (38)	18h. 19th to 1h. 20th (39)	1h.–7h. 20th (40)
coid.m.	oid.m.	oid.cir	cir,dcp.r
od.d	od.d	odd,berr	bcb
bc	bc	bc	bc
oid	oid.	oidrr.R	ir.c
bc	bc	bcq	bc
b	b3	b3bcz.	bcc
ce	cem.	cmom.	cimD
bcc	cbcc	cm.c	cir.
cbc	bcc	cbc	bccoir.
bc	becbc	bc	becr.
c	co	o	oidm.
bcm	bc	bc	bc
dd	idq	id	c
cd.d.cid.	id.c	c	crd.
c	cm.	cm.c	c
cbcc	cbcb	bbcc	cor.o
fefe.r.	feed.	id.om.	om.c
c	cbcf	Ffbc	cfbbc
febcm.	bcmbf	bfem	b
c	cbc	cbc	cbc
cm3	cm3	oz	o
cbc	bccm	cbcc	co
cfm.	cmf	bcfofbm.	bm.c
obcmm.	bcm.m.	offe	fed.d.
cd.d.cid.	cid.	cid.	od.ir.bc
cd.fdf	oafid	oidc	cg
Ffe	oFfe	qiFe	cf.
ifFcf	cmfof	cfoF	oFef
FFbc	beFFeo	Ffeo	o
offe	offemm.	oid.m.	odd.m.
omofom	omfefed.	ofd.	o
o	cm.om.	ofmd.d.	omd.d.
omcm.	om	omcomd.	omd.
omffom	ocom	omFFffdd.	offd.d.
oid.m	om.c	cm	Fd.d.
cm	com	om	ogme
om.cm.	cm.	om.	om.id.
ocffe	cffeio	ofc	cd.
omif	om.	oFbco	oid
ofefem	om.	om.	om.
co	03.F	co3.	oifo
ocom.	omd.of	odfd.dm.	odd.dmm.
0	0		f-3
ofmd.	od.om	omddffe	odd.fefe
oid.f	oid.f	ofid.	oid.

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

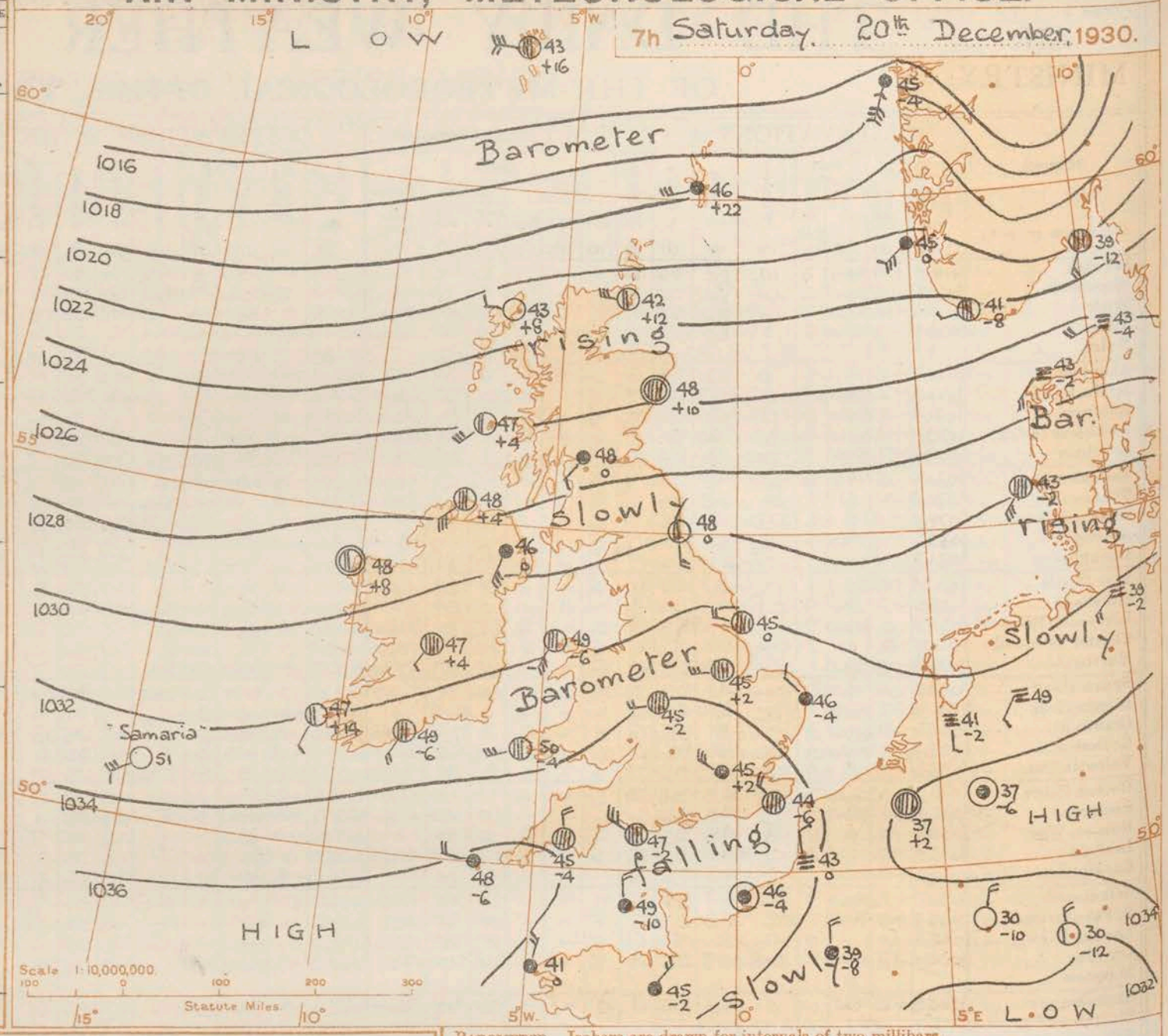
REPORTS from HEALTH RESORTS for ...19th...December...1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 18th to 9h. 19th	TEMPERATURE. Max. 9h.—17h. 19th	RAINFALL. Night. 17h. 18th to 9h. 19th	RAINFALL. Day. 9h.—17h. 19th	SUNSHINE. Sunrise to Sunset. 19th
Dunbar	bc	bc	47	52	–	–	2.6
Berwick-on-T. ...	c	bc	47	52	–	–	3.5
Douglas	circ	c	42	51	1	Tr.	0.0
Llandudno	bc	b	43	53	–	–	5.1
Colwyn Bay	ob	b	40	54	–	–	5.0
Rhyl	bcb	b	40	55	–	–	4.0
Wallasey	mcbc	bccf	44	51	–	–	2.7
Southport ... ‖ ...	oc	oc	46	49	Tr.	–	0.3
Blackpool	omc	ome	43	48	–	–	0.0
Morecambe	ffgo	fgof	43	47	1	Tr.	0.0
Ilkley	od$_o$	om	44	50	Tr.	Tr.	0.0
Cleethorpes	oc	bco	38	52	1	–	0.3
Mablethorpe	cm$_o$	cm$_o$	35	50	–	–	0.0
Skegness...	om	mo	35	49	Tr.	–	0.0
Aberystwyth	ofr	ofrc	47	50	1	0.3	0.0
Bath	mc	cm	45	50	Tr.	–	0.0
Cheltenham ... † ...	ofcoc	cme	43	51	Tr.	–	0.0
Leamington Spa	of	om	41	49	0.2	–	0.0
Lowestoft	iroc	cbc	40	48	2	–	1.5
Dovercourt	dom	oc	36	49	1	–	0.0
Maldon	mo	o	45	48	1	–	0.0
Southend	ofd$_o$	o	38	48	3	Tr.	0.0
Ilfracombe	odo	of	48	51	1	0.1	0.0
Bude	md	md	41	52	2	0.4	0.0
St. Ives	o	d	48	51	Tr.	Tr.	0.0
Penzance	om	orof	49	53	1	0.2	0.0
Torquay	fofff	of	40	49	–	–	0.0
Jersey	ref	cdf	49	51	5	0.1	0.0
Weymouth	mc	ccd$_o$	44	52	1	Tr.	0.0
Bournemouth	o	o	45	50	0.3	–	0.0
Ventnor	rof	of	47	49	2	–	0.0
Southsea	o	o	38	49	–	–	0.0
Bognor Regis	ocbc	co	34	50	3	–	1.4
Littlehampton	bcmc	c	32	49	1	–	0.0
Worthing	oco	o	33	50	2	–	0.0
Brighton...	oc	c	35	50	1	–	0.0
Eastbourne ... † ...	mo	o	46	51	2	–	0.0
Hastings ... † ...	omdfm	omm	46	50	3	0.2	0.0
Folkestone	omod$_o$	od$_{go}$	45	49	1	Tr.	0.0
Dover	mod	m$_o$do	44	48	2	0.1	0.0
Deal	ood$_o$	o	39	48	–	Tr.	0.0
Tunbridge Wells	o	o	40	48	2	–	0.0
Ramsgate	om	om	42	48	1	Tr.	0.0
Margate	cd	c	42	47	1	Tr.	0.0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Saturday. 20th December, 1930.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 20th Dec. 1930.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Wind light westerly or variable; dull or cloudy, perhaps slight local drizzle at first; some mist or fog locally; rather mild.
8. N.W. England 9. N. Midlands 10. N.E. England	Wind light westerly, cloudy, with some brighter intervals; perhaps slight local drizzle at first; local mist or fog later; rather mild.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind westerly light or moderate, cloudy, perhaps slight occasional drizzle at first; some brighter intervals; local mist; rather mild.
13. A. W. Scotld. B. N.W. Scotland.	Wind westerly, moderate; cloudy; perhaps showers; rather mild.
14. Mid-Scotland 15. N.E. Scotland	Wind westerly, light or moderate; cloudy; some brighter intervals; mild.
16. Orkneys and Shetlands.	As 13.
17. N.W. Ireland 18. N.E. Ireland 19 S.E. Ireland 20. S.W. Ireland	Wind southwest or west, light or moderate: cloudy, with brighter intervals; local mist at night; rather mild.

GENERAL INFERENCE.

The central area of a large anticyclone extends from westward of Brittany to Central Europe. Weather will be quiet and rather mild in most districts with mist or fog in the southern half of the Kingdom and perhaps occasional local showers in the Northwest.

FURTHER OUTLOOK.

Quiet and rather mild in most districts.

Forecasts issued at 1005 G.M.T.

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

H.M. Stationery Office Press Kingsway W.C.2. F= 2497/2165 m. 26 D.&S.O.&C. Gp. 908. 3/31/1... 2/32.

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

○ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 20th Dec. 1930.

No. 25,230.

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

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)
Lerwick	54	1015.7	-16	WSW	5	ir	50	85	7	6	-	-	10	10	1500
Stornoway ...	34	1020.6	+22	SSW	4	r/pr	47	95	4	6	-	-	4.6	4.6	4000
Wick	81	1019.9	-10	SW	4	bc	50	95	8	3	1	-	4.6	4-6	2500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head ...	51	1025.8	0	SSW	4	c	50	95	6	5	1	-	7-8	10	1500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	1026.9	-6	SW	4	bc	49	85	8	5	4	-	2-3	4-6	4000
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir ...	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth ...	67	1030.3	-2	WSW	1	bc	48	85	7	2	-	-	4.6	4.6	2500
Blacksod Point ...	10	1028.1	+6	-	0	id	48	95	6	6	-	-	10	10	<150
Aldergrove ...	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee ...	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle ...	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead... ...	26	1032.7	0	SW'W	4	0	48	95	6	5	-	-	10	10	800
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate... ...	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head ...	29	1032.8	0	W'S	1	z	46	95	5	5	-	-	10	10	450
Birmingham ...	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1033.5	-6	W	4	b	46	95	6	5	-	-	1	1	2500
Gorleston	14	1034.8	-10	W'S	2	F	45	95	1	5	-	-	10	10	<150
Valentia Obs.† ...	30	1031.6	0	SSW	5	z	47	95	6	3	-	-	10	10	2500
Roches Point ...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke... ...	150	1035.2	+4	WSW	3	c	48	95	8	3	2	2	2-3	7-8	1500
Ross-on-Wye ...	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington ...	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester ...	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew) ...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1035.3	-6	WSW	2	df	46	95	2	5	-	-	10	10	<150
Manston	135	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness ...	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1037.2	+2	W	3	c	47	95	7	5	-	-	7-8	7-8	1500
Falmouth... ...	200	1037.6	-8	-	0	c	46	95	7	5	2	-	4-6	10	1500
Plymouth... ...	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill ...	32	1035.2	-4	NW'N	3	0	50	95	6	5	-	-	10	10	1500
Calshot, S'hampton	8	1035.8	-2	W	1	d	47	95	4	5	-	-	10	10	450
Dungeness ...	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1035.0	-6	SW'W	1	F+	45	95	0	6	-	-	10	10	<150
Guernsey	173	1036.0	0	-	0	id	49	95	5	6	-	-	10	10	1500

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

STATIONS.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	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)
Lerwick	1019.4	+22	W'S	3	pr	46	85	7	3	2	-	2-3	4.6	1500	1	*
Stornoway ...	1022.6	+8	W	1	b	43	85	7	-	-	-	0	0	-	1	2
Wick	1023.2	+12	W	3	bc	42	95	8	3	1	-	2-3	4.6	2500	1	3
Tiree	1025.8	+4	SW	3	bc/pr	47	95	7	8	4	8	2-3	4.6	2500	1	3
Nairn	1024.2	•	W	1	bc	45	85	8	5	-	-	4.6	4.6	4000	1	*
Aberdeen	1025.2	+10	-	0	c	48	95	8	5	-	-	10	10	4000	1	1
Malin Head ...	1027.2	+4	SW	3	c/d	48	95	7	6	1	-	7-8	10	1500	1	2
Renfrew	1027.4	0	SW	1	i	48	95	7	6	2	-	9	10	1500	1	*
Inchkeith (Edin.)	1027.6	+4	SW	4	ir	46	95	7	5	-	-	10	10	800	1	2
Leuchars	1026.1	0	SW	3	ir	49	95	7	6	2	-	4-6	10	1500	1	*
Eskdalemuir ...	1028.5	0	SW	5	id	45	95	6	6	-	-	10	10	1500	1	*
Tynemouth ...	1029.3	0	SSE	2	bc	48	85	7	2	-	-	4.6	4.6	2500	0	1
Blacksod Point ...	1029.5	+8	-	0	bc	48	85	7	4	-	-	2-3	2-3	*	1	3
Aldergrove ...	1029.3	0	SSW	3	id	46	95	7	5	-	-	9+	9+	800	1	*
Donaghadee ...	1028.5	+2	WSW	2	c	47	85	7	5	-	-	7-8	7-8	1500	1	1
Birr Castle ...	1031.1	+4	SW	1	0	47	95	7	5	-	-	10	10	2500	1	*
Holyhead... ...	1031.5	-6	SW'S	4	c	49	95	7	5	-	-	9+	9+	1500	1	1
Liverpool (Bidston)	1032.5	-6	SW'W	3	bc	45	85	7	5	-	-	4.6	4.6	2500	0	*
Chester (Sealand)	1032.1	-8	WSW	4	b	48	75	7	1	3	1	0	1	-	1	*
Harrogate... ...	1032.5	0	SW'S	3	c	46	85	7	6	-	-	9	9	2500	1	*
Spurn Head ...	1032.2	0	W'N	2	0	45	95	6	5	-	-	10	10	1500	0	2
Birmingham ...	1034.3	-2	WSW	2	0	45	85	8	5	-	-	10	10	1500	1	*
Cranwell	1033.6	+2	W'S	3	c	45	95	6	5	-	-	10	10	800	1	*
Gorleston	1033.4	-4	NW	1	d	46	95	6	46	-	-	10	10	1500	1	1
Valentia Obs.† ...	1032.5	+14	SW'S	1	c	47	95	6	5	-	-	2-3	2-3	1500	1	3
Roches Point ...	1033.0	-6	SW	2	c	49	95	7	5	-	-	9	9	1500	1	3
Pembroke... ...	1033.6	-4	WSW	3	c	50	85	8	5	-	-	4.6	7.8	1500	1	2
Ross-on-Wye ...	1034.4	-4	SW	1	c	39	95	7	5	-	-	9	9	2500	1	*
Leafield	1034.2	-6	NW'W	1	0	43	95	7	5	-	-	10	10	1500	1	*
Cardington ...	1034.6	-2	W'N	2	d	46	95	6	5	-	-	10	10	1500	1	*
Winchester ...	1034.5	-4	WNW	4	0	44	95	7	5	-	-	10	10	800	1	*
S. Farnborough ...	1034.4	-2	NW	2	d	45	95	4	6	-	-	10	10	450	1	*
London (Kew) ...	1034.8	-6	NW'N	2	d	45	95	5	5	-	-	10	10	800	1	*
Croydon	1034.7	+2	NW'W	3	df	45	95	3	5	-	-	10	10	220	1	*
Manston	1034.4	-2	-	0	d	45	95	2	6	-	-	10	10	450	1	*
Shoeburyness ...	1034.1	0	WNW	1	0	45	95	6	5	-	-	10	10	450	0*	0
Clacton-on-Sea ...	1034.8	-2	W'N	1	id	45	95	5	5	-	-	10	10	1500	1	1
Felixstowe ...	1036.1	-6	W'N	2	d	48	95	7	4	-	-	9+	9+	4000	1	1
Scilly (St. Mary's)	1036.6	-6	W'N	2	d	47	95	7	5	2	-	4.6	10	1500	0	0
Falmouth... ...	1035.9	-4	NNW	4	0	44	95	6	5	-	-	10	10	1500	1	0
Plymouth... ...	1034.6	-2	NW	3	0	47	85	7	4	-	-	10	10	1500	1	2
Portland Bill ...	1034.8	-6	NW'N	2	d	45	95	6	4	-	-	10	10	800	1	0
Calshot, S'hampton	•	•	NNW	1	0	•	•	6	5	-	•	10	10	2500	•	0
Dungeness ...	1033.9	-6	NW	2	c	44	95	4	6	-	-	10	10	220	1	*
Lympne	1034.2	-10	N	2	id	49	95	5	6	-	-	10	10	1500	1	1

PAST 24 HOURS.

STATIONS.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 19th Hrs. (36)
Lerwick	50	46	*	0.2	2	0.0
Stornoway ...	52	41	*	1	2	0.0
Wick	53	42	*	-	-	*
Tiree	50	46	41	2	3	0.0
Nairn	52	44	*	-	-	5.3
Aberdeen	53	43	35	-	-	4.1
Malin Head ...	52	45	*	-	1	0.0
Renfrew	52	48	46	-	0.6	1.0
Inchkeith (Edin.)	51	47	47	-	Tr.	3.2
Leuchars	53	48	45	-	0.1	3.0
Eskdalemuir ...	49	44	43	-	1	0.3
Tynemouth ...	53	40	35	-	-	*
Blacksod Point ...	52	47	*	-	3	*
Aldergrove ...	51	45	45	0.1	0.5	0.0
Donaghadee ...	52	47	*	-	-	
Birr Castle ...	52	45	37	-	Tr	1.5
Holyhead... ...	49	47	45	0.3	0.2	0.0
Liverpool (Bidston)	48	43	36	-	-	3.1
Chester (Sealand)	53	35	30	Tr.	Tr.	2.3
Harrogate... ...	49	45	41	-	-	0.0
Spurn Head ...	49	44	*	-	-	0.6
Birmingham ...	51	44	42	-	-	0.5
Cranwell	51	43	40	-	0.1	2.8
Gorleston	50	44	42	-	0.4	1.2
Valentia Obs.† ...	51	47	44	0.4	1	0.0
Roches Point ...	49	48	*	2	2	*
Pembroke... ...	50	46	*	-	0.2	0.0
Ross-on-Wye ...	50	37	31	-	0.1	0.6
Leafield	49	43	42	0.1	0.3	1.4
Cardington ...	48	45	44	Tr.	Tr.	0.0
Winchester ...	48	43	43	0.1	0.4	0.0
S. Farnborough ...	49	44	44	Tr.	0.2	0.2
London (Kew) ...	50	45	45	-	0.3	0.0
Croydon	49	44	43	-	0.4	0.0
Manston	48	44	44	0.1	0.4	0.0
Shoeburyness ...	48	44	44	0.1	0.4	0.0
Clacton-on-Sea ...	48	44	44	-	0.1	0.0
Felixstowe ...	48	44	44	-	0.2	0.0
Scilly (St. Mary's)	52	46	*	0.2	0.5	0.0
Falmouth... ...	51	45	*	-	0.1	0.0
Plymouth... ...	53	44	44	Tr.	-	0.0
Portland Bill ...	51	46	*	-	Tr.	*
Calshot, S'hampton	49	45	45	Tr.	0.2	0.0
Dungeness ...	48	44	*	Tr.	Tr.	*
Lympne	47	43	43	Tr.	0.3	0.0
Guernsey	51	49	48	0.3	1	0.0

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility. 9h. (To-day.)
KEW	18	omcmo	om	omcod	50	45	45	-	0.3	0.0	•	•	6
CROYDON	244	omffom	ocom	omfffdd	49	45	44	-	0.3	0.0	•	•	4
GREENWICH (Royal Observatory) ...	149	cfm	cmofm	oddmg	49	45	40	-	Tr.	0.0	95	95	4
CITY (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.0	•	•	•
WESTMINSTER (St. James' Park) ...	27	•	•	•	48	45	43	-	-	0.0	91	94	•
REGENTS PK. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	0.0	•	•	•
CAMDEN SQUARE	110	oc	co	•	48	45	47	-	Tr.	•	•	96	•
KENSINGTON PALACE	80	bcco	co	•	50	45	44	-	0.2	•	At 18h. 97	97	•
HAMPSTEAD OBSERVATORY	450	omod	ofofd	•	50	43	41	1	0.3	0.0	•	95	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.
1.3	17h 19th	<0.3	0-7h 20th

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
0.4	15h 19th	0.1	4h 20th

FOREIGN OBSERVATIONS.

STATIONS.	18h. G.M.T. 19th December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 20th December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
PARIS	1035.9	NE	1	f	41	1034.2	NNE	1	f	41
BRUSSELS	1035.6	W'S	2	of	36	1034.6	-	0	o/d	37
BERLIN	1036.3	SSE	2	o	36	1035.4	SW	2	om	34
ZÜRICH	1035.1	NE	1	b	30	1031.8	N	1	b	25
ROME						1021.4	NE'N	3	c	43

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
41	37	0.3	0.2
36	36	1	0.3
36	34	-	-
36	23	-	-
	43		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 „	6¼ „
7 Good „	12½ „
8 Very good „	31 „
9 Excellent „	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

† : he observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 21st Dec. 1930.

No. 25,231.

STATIONS. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 20th December														OBSERVATIONS at 18h. G.M.T. 20th December														PAST 24 HOURS.			
									Cloud.													Cloud.								WEATHER.			
									Form.			Amount.										Form.			Amount.							
	Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force 0-12	Weather.	°F. Temp.	% Humid.	Visibility 0-9	Low	Med.	High	Low 0-10	Total 0-10	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	Low.	Med.	High.	Low. 0-10	Total 0-10	Height of Base (feet)	State of Ground. 0-9	Sea. 0-9	7h.–13h. 20th.	13h.–18h. 20th.	18h. 20th to 1h. 21st.	1h.–7h. 21st.
	(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)
Lerwick	1020·6	-6	W'S	2	C	46	75	7	5	7	-	4-6	7-8	1500	1019·5	-4	~~WNW~~ W'S	3	6c	43	85	7	8	-	-	2-3	2-3	1500	1	1	6cpr₀c	c p₀ 6c ≡	bcpr	bcpr₀
Stornoway	1023·5	0	WSW	3	C	45	95	9	9	6	-	4-6	7-8	4000	1025·8	+10	W	3	6c	44	85	7	4	-	-	4-6	4-6	4000	1	2	c pr	6c ≡	bcpr ≡	bcpr
Wick	1024·3	+4	WSW	3	C	45	95	8	8	6	9	4-6	7-8	1500	1025·7	+16	W	2	6c	41	95	8	5	-	8	2-3	4-6	2500	0	2	6cc	c6c	bc ≡	bc
Tiree	1027·1	+2	SW/S	4	C	49	85	8	5	7	-	4-6	9	2500	1029·9	+20	W'N	4	bc	48	85	8	8	7	-	2-3	4-6	2500	1	3	6c	cprbc	beq	prq
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1027·3	•	W	1	6c	44	85	8	2	-	-	4-6	4-6	4000	1	•	6c	6cd₀	bcc	c
Aberdeen	1026·1	0	W	1	6c	49	75	8	5	4	-	1	2-3	4000	1027·6	+14	WSW	1	6	41	85	7	-	-	-	0	0	-	1	1	c6cz6	6	bbx	bx
Malin Head	1028·8	+2	SW	3	c/cl	48	95	7	5	8	-	4-6	7-8	1500	1031·2	+20	W	2	6c	45	85	7	5	-	-	2-3	2-3	2500	1	2	c6cc	cid6c	bccbc	bcc
Renfrew	1028·8	+2	W'S	3	C	49	85	7	8	3	-	7-8	7-8	1500	1029·3	+4	SW	3	id	47	85	6	6	-	-	10	10	1500	1	•	c6cc6c	6cc,d	d₀bbc	b,c,p₀
Inchkeith (Edin.)	1028·3	+6	SW	4	C	48	95	6	4	4	-	4-6	7-8	800	1028·6	+4	SW	3	6c	45	85	7	5	-	-	2-3	2-3	1500	0	1	6cc	c6c	bcb	b
Leuchars	1027·2	+2	SW	4	6	49	85	8	7	4	9	≡	1	4000	1028·0	+10	WSW	3	6	42	85	8	4	-	-	≡	≡	4000	1	•	c i i₀6	6	b	bbx
Eskdalemuir	1029·4	+2	W	3	6c	47	85	8	5	-	-	4-6	4-6	2500	1031·1	+10	NW	1	C	39	95	8	5	-	-	7-8	7-8	1500	1	•	0r₀m₀6c	6cc	cp₀bc	bcx
Tynemouth	1029·2	-6	W	2	C	50	75	6	6	-	-	7-8	7-8	1500	1029·6	+4	W	2	6	46	85	6	-	-	-	0	0	-	0	1	6cc	c6c	b	bbc
Blacksod Point	1031·5	+8	W	3	6c	53 10	95	8	5	-	4	2-3	4-6	1500	1031·1	+12	W	3	C	46	75	7	5	-	-	7-8	7-8	1500	0	3	6y	6cc	c	c
Aldergrove	1031·2	+2	SSW	3	6c	47	85	8	7	-	-	4-6	4-6	1500	1032·6	+14	WSW	2	6c	42	95	8	6	3	-	2-3	4-6	1500	1	•	cd₀6c	6cc6c	bcwc	c
Donaghadee	1030·4	+4	WSW	2	6c	51	75	8	7	-	9	4-6	4-6	4000	1031·1	+6	W	2	6c	47	85	7	5	-	-	4-6	4-6	1500	0	1	c6c	6c	bbc	bc
Birr Castle	1033·1	+4	SW	2	6c	50	85	8	1	-	-	2-3	2-3	2500	1033·2	+6	SW	1	C	46	95	8	5	3	-	7-8	9	2500	1	•	6c r₀c6c	6cd6c	bcc	bccbcx
Holyhead	1031·9	+2	W'N	3	6c	51	85	8	5	-	9	2-3	2-3	1500	1032·6	+6	WNW	3	6	47	95	7	4	-	-	1	1	2500	1	1	c m₀c	6c6	bbccb	bbc
Liverpool (Bidston)	1031·8	-2	W	4	d	47	95	6	6	-	-	10	10	1500	1032·6	+4	W	4	6c	44	95	8	5	-	-	2-3	2-3	1500	1	•	6cd d	dc6c	bcbbw	b
Chester (Sealand)	1031·9	-4	NW/N	3	id	50	85	4	6	-	-	10	10	800	1032·5	+6	WNW	2	6c	45	95	7	5	-	-	4-6	4-6	1500	1	•	c0	id mc	bcb	bcid₀
Harrogate	1031·0	+8	SSW	4	C	48	85	8	6	-	-	7-8	7-8	2500	1030·9	-6	SW	2	6c	44	95	7	6	-	-	2-3	2-3	2500	1	•	c6c	6c	bcb	bcbx
Spurn Head	1031·0	-4	SW	2	C	47	85	6	7	7	-	2-3	7-8	4000	1030·6	0	SW	1	6c	44	95	6	5	-	-	4-6	4-6	2500	0	1	6c	c6c	bczw	bc
Birmingham	1032·6	-6	WNW	2	6	49	75	6	-	3	-	0	1	-	1032·8	?	NNW	2	6c	47	95	6	1	-	-	4-6	4-6	2500	1	•	c6c	66c	bc	b
Cranwell	1032·0	-4	W'N	2	6c	47	85	6	6	3	1	1	2-3	2500	1033·8	+2	W	3	C	46	95	5	5	-	-	10	10	2500	1	•	c m₀6	6m₀c	c bm₀w	bm₀wf
Gorleston	1032·4	-6	NW	1	id₀	46	95	5	6	-	-	10	10	1500	1031·9	-2	WSW	1	0	44	95	6	6	-	-	10	10	2500	1	1	6id₀m₀m₀	6id₀m₀	6m₀m₀	6bcm₀
Valentia Obs.	1034·4	+2	SW	2	C	50	85	8	5	-	-	7-8	7-8	1500	1035·6	+12	N'W	2	6	46	95	8	5	-	-	1	1	1500	1	3	bcid₀c	c6c6	b	bwbcc
Roches Point	1033·3	+10	N	3	C	51	95	8	3	-	-	7-8	7-8	1500	1034·7	+6	N	2	6c	47	85	8	3	-	-	2-3	2-3	1500	0	2	cid₀c	c6c	bclw	bcw
Pembroke	1032·8	-4	WSW	3	fs	50	95	6	5	-	-	9+	9+	800	1032·9	+8	NNW	2	6c	47	95	8	1	-	-	2-3	2-3	4000	1	2	c	cifb	bbc	bcb
Ross-on-Wye	1033·4	-12	SW	2	6c	48	85	8	5	-	9	4-6	4-6	4000	1033·4	0	NW	1	C	49	85	8	5	-	-	10	10	4000	1	•	fmc	6cc	cbm₀w	bmfx
Leafield	1033·8	-10	WNW	3	C	46	85	8	5	-	-	10	10	5700	1033·1	0	~~NW~~ W	3	C	46	95	7	5	-	-	10	10	5700	1	•	c	c	bcb	bbc
Cardington	1033·8	-8	WSW	2	C	48	85	7	5	-	-	9+	9+	2500	1033·3	0	W'S	2	C	47	85	7	5	-	-	10	10	1500	1	•	c	c	c	bcbxm₀
Winchester	1033·8	-10	NW	2	C	48	85	7	5	-	-	9+	9+	2500	1033·8	-4	NW	2	C	46	95	8	5	-	-	10	10	1500	1	•	0c	c	c	cbcm₀
S. Farnborough	1033·4	-10	-	0	C	46	95	7	5	-	-	9+	9+	2500	1033·3	-4	-	0	C	46	95	6	5	-	-	10	10	1500	1	•	od₀d₀m₀c	c	cbc	b,cFx
London (Kew)	1034·1	-8	-	0	m	46	95	4	5	2	-	7-8	10	1500	1033·8	-4	WSW	1	m	45	95	4	5	-	-	10	10	1500	1	•	om₀d₀cm	cm	cmsfbm	bm₀w
Croydon	1033·9	-4	NW	1	cf-	44	95	3	5	-	-	10	10	1500	1032·4	-6	WNW	2	m	45	95	4	5	-	-	10	10	800	1	•	effmd₀d₀f	c ffm₀	om	obmwi
Manston																													•				
Shoeburyness	1033·6	-6	WNW	1	d₀d₀	45	95	4	6	-	-	10	10	4500	1032·5	-6	SW	1	0	44	95	6	5	-	-	10	10	1500	1	•	fed₀d₀om	od₀m₀	om₀	om₀c
Clacton-on-Sea	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1032·1	-6	W	1	C	44	95	6	5	-	-	10	10	800	0	0	ogme	ogmem	cm	cmbc
Felixstowe	1033·9	-6	NW	1	d₀d₀	45	95	4	5	-	-	10	10	4500	1032·4	-10	-	0	2	44	95	5	5	-	-	10	10	800	1	1	omdef	6md₀d₀	om₀	cm₀bcm₀
Scilly (St. Mary's)	1035·4	-6	NW	3	C	50	95	8	5	-	-	9+	9+	4000	1036·0	+4	NNW	3	id₀	49	95	7	5	-	-	9+	9+	4000	1	1	cd₀c	cod₀	cdbcb	bbc
Falmouth	1036·0	-6	WSW	1	C	50	85	8	5	-	-	10	10	4000	1035·1	0	NW	3	C	49	95	7	5	-	-	7-8	7-8	4000	0	0	od₀c	c	cp₀bc	bc
Plymouth	1034·7	-10	W	1	C	49	95	8	5	-	-	9+	9+	2500	1034·0	-2	NNW	1	2	50	85	5	5	-	-	10	10	1500	1	0	om₀c	com₀	om₀b	bw
Portland Bill	1034·0	-6	WNW	2	C	49	85	8	4	4	-	4-6	7-8	1500	1032·8	-2	NNW	3	C	50	85	8	4	2	-	7-8	10	2500	1	2	oc	c	cbc	bc
Calshot, S'hampton	1034·3	-8	-	0	0	47	85	6	5	-	-	10	10	1500	1032·9	-6	S	1	C	46	95	6	5	-	-	10	10	1500	1	0	od₀d₀om₀	cm₀	cm₀bc	bbc
Dungeness	•	•	NW	2	2	•	•	6	5	-	•	10	10	2500	•	•	NW	3	d	•	•	5	5	-	•	10	10	2500	•	0	0z	od	·	o
Lympne	1032·7	-4	NW	2	id₀	45	95	4	5	-	-	10	10	800	1031·9	-2	NNW	2	d₀d₀	43	95	5	5	-	-	10	10	4500	1	•	ofm₀d₀m	od₀d₀m	od₀d₀m₀	om₀w
Guernsey	1034·0	-6	-	0	0	48	95	8	5	-	-	10	10	1500	1032·5	+2	N	1	0	48	85	9	5	-	-	10	10	1500	1	1	od0	oidov	0	ocbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

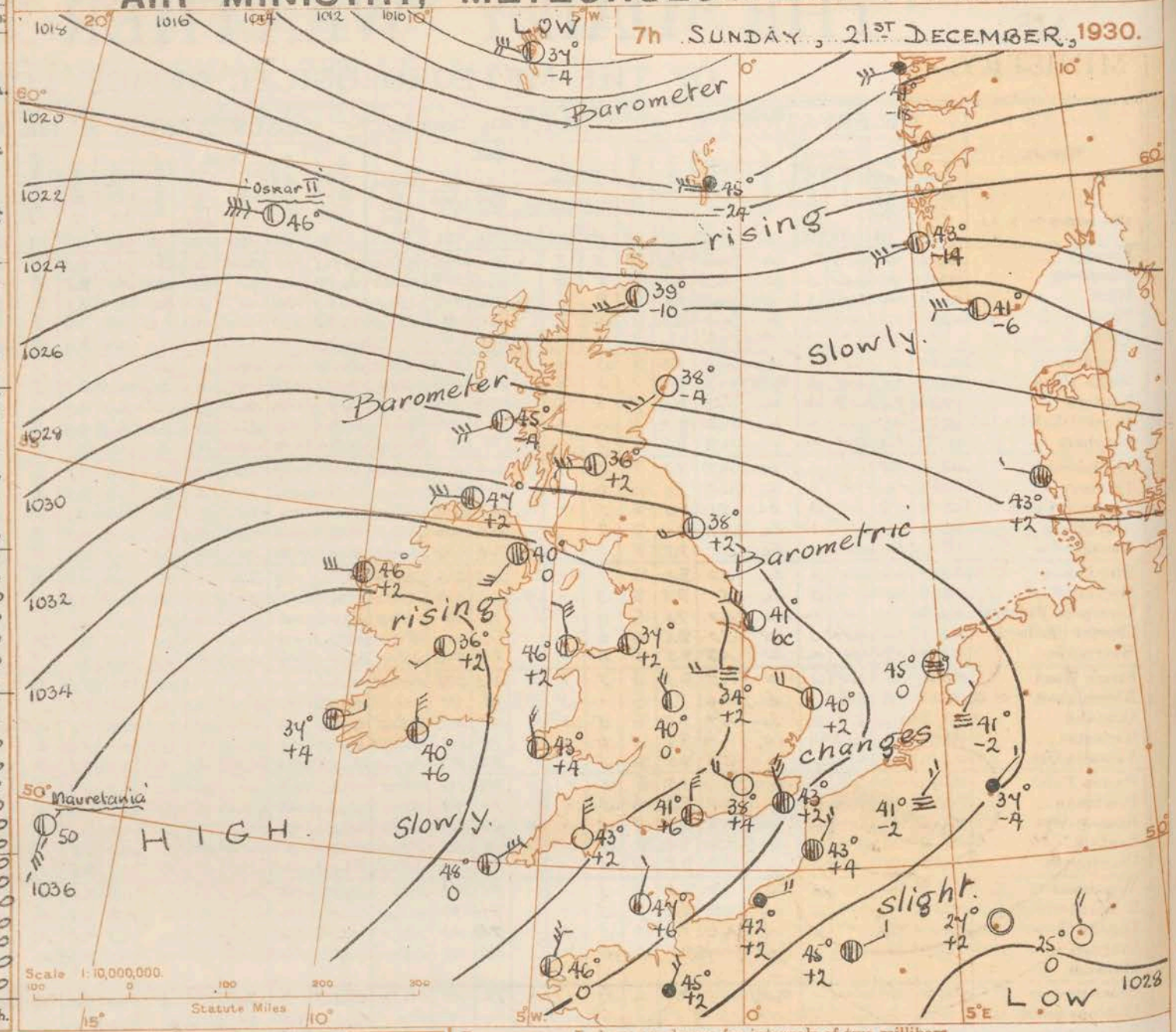
REPORTS from HEALTH RESORTS for ....20th. December.... 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 19th to 9h. 20th.	TEMPERATURE. Max. 9h.—17h. ....20th.	RAINFALL. Night. 17h. 19th to 9h. 20th.	RAINFALL. Day. 9h.—17h. ....20th.	SUNSHINE Sunrise to Sunset. ....20th.
Dunbar	od$_o$	bc	+3	+9	/	-	3·2
Berwick-on-T.	c6c	bc6	+5	50	-	-	3·3
Douglas	ac66c	bcc6	+7	+9	/	-	+·+
Llandudno	cmc	c6cc	+1	50	-	-	1·6
Colwyn Bay	o66o	o6o	+3	52	-	-	0·2
Rhyl	6cc	c6c	+2	50	-	-	0·+
Wallasey	6cor	rc6c	36	50	-	/	0·7
Southport ... ‖ ...	ocor	oc6	+1+	+9	-	/	0·6
Blackpool	ond	c6c	+6	+8	/	0·+	0·6
Morecambe	rdnod	c66cc	+++	+8	/	0·3	0·7
Ilkley	o	od$_o$6c	+5	+9	Trace	Trace	0·0
Cleethorpes	ocmc	6c	+++	51	-	-	2·3
Mablethorpe	cm$_o$	cm$_o$	+++	+8	-	-	0·0
Skegness...	om	om	+2	+7	-	-	0·0
Aberystwyth	cp$_o$	mc	+6	+8	-	0·3	0·0
Bath	c	c	+6	50	Trace	-	0·0
Cheltenham ... † ...	c6c6	c6cc	+++	+9	Trace	-	0·3
Leamington Spa ...	o	co	+0	+9	Trace	-	0·5
Lowestoft	cotd$_o$	tdoco	+++	+5	/	Trace	0·0
Dovercourt	doc	dcoc	+5	50	/	/	0·0
Maldon	oir	o	+++	+5	0·3	0·3	0·0
Southend	od$_o$f	od$_o$of	+++	+6	0·5	0·2	0·0
Ilfracombe	odo	od	+6	51	/	0·3	0·0
Bude	mdom	rd	+7	51	0·+	/	0·0
St. Ives	d	o	+5	51	0·3	0·3	0·0
Penzance	c	cr$_o$	+5	52	/	0·2	0·0
Torquay	op$_o$om	om	+0	+9	0·1	-	0·0
Jersey	dg	g	+3	50	0·+	-	0·0
Weymouth	c	c	+5	50	0·1	-	0·3
Bournemouth	o	co	+++	+9	-	-	0·1
Ventnor	mof	oi$_o$	+++	+6	Trace	0·3	0·1
Southsea	o	om	+5	+7	/	-	0·0
Bognor Regis	o	c	+5	+6	0·3	(-)	0·0
Littlehampton	c	c	+3	+5	0·+	-	0·0
Worthing	o	oco	+++	+6	0·3	-	0·0
Brighton...	odo	o	+++	+6	Trace	Trace	0·0
Eastbourne ... † ...	od$_o$d$_o$	d$_o$d$_o$om	+++	+7	0·+	0·1	0·0
Hastings ... † ...	mfm	mdf	+++	+8	/	0·3	0·0
Folkestone	om$_o$	o+d$_o$	+5	+8	Trace	Trace	0·0
Dover	no	nod$_o$	+6	+7	Trace	Trace	0·0
Deal	o	o	+5	+7	-	-	0·0
Tunbridge Wells	odm	odom	+3	+6	/	0·3	0·0
Ramsgate	om	om	+5	+6	Trace	Trace	0·0
Margate	cfm	dc	+++	+6	-	Trace	0·0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. SUNDAY, 21ST DECEMBER, 1930.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 21st. Dec. 1930
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Light to moderate north or northwest winds: fair; temperature about normal for the time of the year, ground frost at night.
5. S.W. England 6. South Wales 7. North Wales	Light to moderate north to northwest wind; fair; temperature normal.
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland	As 0 - 4.
12. S.W. Scotland & Isle of Man	Light to moderate west to northwest winds; fair; temperature normal; ground frost at night.
13. A. W Scotld. B. N.W. Scotland.	Light to moderate west to northwest wind; mainly fair, apart from local showers; temperature about normal for the season; ground frost at night.
14. Mid-Scotland 15. N.E. Scotland	
16. Orkneys and Shetlands.	Moderate to fresh westerly winds, stronger at times; mainly fair apart from local showers; temperature normal ground frost at night.
17. N.W. Ireland 18. N.E. Ireland 19 S.E. Ireland 20. S.W. Ireland	As 0 - 4.

GENERAL INFERENCE.

A large anticyclone centred off our southwest coasts is extending its influence slowly over the British Isles. Weather will be mainly fair, though there will be local showers in the extreme north and northwest.

FURTHER OUTLOOK.

Fair.

C.A.K.

Forecasts issued at 1115 G.M.T.

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

H.M. Stationery Office Press Kingsway W.C.2
Wt. 2497/2185. 4t. 2s. D.5028. Gp. 905. 31/10. 12/30.

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

Morning of
SUNDAY
21ST DECEMBER,
1930.

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 the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 21st Dec. 1930.

No. 25,231.

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

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)
Lerwick	54	1020.1	-6	W'S	3	bc|pr	44	75	7	8	-	-	4-6	4-6	1500
Stornoway	34	1025.9	-2	WSW	3	bc	41	85	7	6	-	-	4-6	4-6	4000
Wick	81	1026.3	+2	WSW	3	bc	38	95	8	5	-	-	4-6	4-6	2500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51	1032.7	0	W	4	bc	46	75	8	5	-	-	4-6	4-6	2500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	1031.4	+10	SW	3	b	43	85	7	5	-	-	1	1	1500
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	1031.4	+6	W	2	b	41	95	6	-	-	-	0	0	-
Blacksod Point	10	1035.7	+4	W	2	c	46	65	7	-	2	-	0	10	-
Aldergrove	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	1034.4	+6	N	3	b	47	85	8	5	-	-	1	1	2500
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	1032.1	+2	NW	2	bc	40	95	6	5	-	-	2-3	2-3	1500
Birmingham	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1033.6	+2	NW'W	3	b	38	95	6	-	-	-	0	0	-
Gorleston	14	1031.5	-6	NW	2	0	45	95	6	5	-	-	10	10	1500
Valentia Obs.†	30	1031.2	+6	NW	1	b	45	95	7	-	-	-	0	0	-
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke	150	1034.7	+4	NNW	3	bc	45	95	8	4	4	-	2-3	4-6	4000
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	512	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew)	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1032.7	0	NNW	3	m	46	85	4	5	-	-	10	10	450
Manston	136	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1035.8	0	NNE	3	b	47	95	8	2	-	-	1	1	4000
Falmouth	200	1036.0	+4	N	1	bc	45	95	8	5	-	-	2-3	2-3	4000
Plymouth	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	1032.9	-2	NNW	3	bc	47	95	7	4	-	-	2-3	2-3	2500
Calshot, S'hampton	8	1033.0	0	N	4	bc	46	85	7	5	-	-	2-3	2-3	1500
Dungeness	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1031.6	-2	NNW	2	2	43	95	5	5	-	-	10	10	450
Guernsey	173	1032.3	0	NNE	1	0	50	85	7	5	-	-	10	10	1500

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

Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High. (25)	Cloud. Amount. Low. 0-10 (26)	Cloud. Amount. Total 0-10 (27)	Cloud. Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
Lerwick	1015.8	-24	W	4	pr.	45	85	7	8	-	-	4-6	4-6	1500	1	*
Stornoway	1024.0	-6	WSW	4	bc	44	85	7	6	-	-	4-6	4-6	4000	1	2
Wick	1023.7	-10	WSW	3	bc	39	95	8	5	-	-	2-3	2-3	2500	0	2
Tiree	1030.6	-4	WSW	5	bc|pr	45	85	8	8	7	-	2-3	2-3	2500	1	3
Nairn	1026.3	•	W	1	c	42	85	8	5	-	-	7-8	7-8	4000	0	*
Aberdeen	1027.8	-4	SW	3	b	38	75	8	-	-	-	0	0	-	4	1
Malin Head	1032.9	+2	W	4	c	47	85	8	8	-	-	9+	9+	2500	0	2
Renfrew	1031.6	-4	W	4	bc|pr.	43	85	8	8	-	-	2-3	2-3	4000	1	*
Inchkeith (Edin.)	1030.9	-2	W	3	b	42	85	8	-	4	-	0	1	-	0	1
Leuchars	1029.7	-2	W	2	b	35	95	7	-	3	-	0	1	-	1	*
Eskdalemuir	1033.1	+2	W	3	bc	36	95	8	5	-	-	4-6	4-6	1500	4	*
Tynemouth	1033.4	+2	WSW	2	bc	38	95	6	2	-	-	2-3	2-3	2500	0	1
Blacksod Point	1035.9	+2	W	3	c	46	65	7	-	1	-	0	10	-	0	3
Aldergrove	1035.0	0	SW'S	3	c	40	95	7	5	-	-	9+	9+	1500	1	*
Donaghadee	1033.9	+2	WNW	1	c	39	85	7	5	-	-	7-8	7-8	2500	0	0
Birr Castle	1036.4	+2	SW	1	bc	36	95	8	5	-	-	4-6	4-6	4000	1	*
Holyhead	1035.0	+2	N'W	4	bc	46	75	8	5	-	-	4-6	4-6	2500	1	2
Liverpool (Bidston)	1034.6	+2	NW'W	3	bc	42	85	8	4	-	-	2-3	2-3	4000	1	*
Chester (Sealand)	1034.2	+2	WSW	1	z	37	95	6	5	-	-	4-6	4-6	1500	1	*
Harrogate	1034.5	+6	SW	1	b	35	95	7	-	4	-	0	Tr	-	1	*
Spurn Head	1032.6	0	NW'N	4	bc	41	95	6	-	2	-	0	2-3	-	0	3
Birmingham	1035.1	0	NNW	3	bc	40	95	8	5	-	1	1	2-3	4000	1	*
Cranwell	1033.9	+2	W'S	2	f	34	95	3	-	-	-	0	0	-	1	*
Gorleston	1032.7	+2	NW'W	2	bc	40	95	6	-	2	-	0	2-3	-	1	1
Valentia Obs.†	1037.5	+4	E'S	1	c	37	95	8	5	-	-	9	9	2500	1	2
Roches Point	1037.5	+6	N	3	bc	40	85	8	5	-	-	2-3	2-3	1500	1	2
Pembroke	1034.6	+4	NNW	2	bc	43	95	8	4	-	-	2-3	2-3	4000	1	2
Ross-on-Wye	1034.6	0	N	1	if	28	95	2	5	-	1	1	1	4000	1	*
Leafield	1034.2	+2	NNW	4	bc	39	95	7	5	-	-	2-3	2-3	4000	1	*
Cardington	1034.2	+4	NW	2	b	34	95	6	-	3	-	0	Tr	-	1	*
Winchester	1034.0	0	N	3	bc	41	95	6	5	-	-	4-6	4-6	4000	1	*
S. Farnborough	1033.6	+2	-	0	f-	35	95	2	5	-	-	9	9	220	1	*
London (Kew)	1034.0	+6	NW'N	2	bc	39	95	5	-	4	-	0	2-3	-	1	*
Croydon	1033.3	+4	WNW	2	m	38	95	4	-	-	-	0	0	-	1	*
Manston																*
Shoeburyness	1032.7	0	NW	2	c	42	95	6	5	-	-	9+	9+	2500	1	*
Clacton-on-Sea	1032.4	0	NW	3	bc	44	95	6	5	-	-	4-6	4-6	800	0*	0
Felixstowe	1033.1	0	N'W	3	z	42	95	5	85	-	-	4-6	4-6	4000	0	1
Scilly (St. Mary's)	1035.4	0	NE'E	4	bc	48	85	8	7	-	-	2-3	2-3	4000	0	2
Falmouth	1035.4	-4	N	2	bc	44	85	8	5	-	-	2-3	2-3	4000	0	1
Plymouth	1035.0	+2	N	3	b	43	95	7	-	-	-	0	0	-	1	1
Portland Bill	1033.3	+4	NNE	3	bc	42	85	7	4	-	-	2-3	2-3	2500	1	2
Calshot, S'hampton	1033.7	+6	N	3	bc	41	85	6	5	-	-	4-6	4-6	1500	0	1
Dungeness			NW	3	z	*	*	5	5	-	*	10	10	2500	*	0
Lympne	1031.7	+2	N'W	3	z	43	95	6	5	-	-	10	10	800	1	*
Guernsey	1032.7	+6	N'E	2	bc	47	85	8	5	-	-	4-6	4-6	2500	0	2

PAST 24 HOURS.

Stations.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 20th Hrs. (36)
Lerwick	46	41	*	Tr.	5	0.7
Stornoway	47	40	*	0.4	1	1.0
Wick	46	37	*	-	-	*
Tiree	49	43	40	2	1	1.5
Nairn	46	38	*	0.4	-	2.1
Aberdeen	50	34	25	-	-	3.7
Malin Head	48	45	*	0.5	-	1.2
Renfrew	50	37	29	Tr.	0.1	1.5
Inchkeith (Edin.)	48	41	37	-	-	2.7
Leuchars	50	34	28	0.1	-	4.6
Eskdalemuir	47	34	28	.4	Tr	1.0
Tynemouth	50	37	30	-	-	*
Blacksod Point	50	44	*	0.1	-	*
Aldergrove	48	37	32	0.1	Tr	2.4
Donaghadee	52	35	*	-	-	*
Birr Castle	51	34	25	0.6	Tr	3.0
Holyhead	52	45	39	-	-	3.4
Liverpool (Bidston)	49	41	38	0.4	-	1.1
Chester (Sealand)	54	36	32	0.1	Tr	1.4
Harrogate	49	35	31	Tr.	-	1.4
Spurn Head	48	39	*	-	Tr	1.0
Birmingham	50	39	31	-	-	2.5
Cranwell	49	34	29	-	-	1.5
Gorleston	46	39	36	Tr.	-	0.0
Valentia Obs.†	51	35	32	Tr.	Tr	1.1
Roches Point	52	40	*	Tr.	Tr	*
Pembroke	51	42	*	-	-	0.0
Ross-on-Wye	51	28	20	-	-	0.9
Leafield	47	37	30	-	-	0.0
Cardington	48	32	24	Tr.	-	0.0
Winchester	48	36	33	-	-	0.0
S. Farnborough	46	35	29	Tr.	-	0.0
London (Kew)	47	38	29	Tr.	Tr	0.0
Croydon	48	38	29	Tr.	Tr	0.0
Manston						
Shoeburyness	46	41	40	0.2	-	0.0
Clacton-on-Sea	45	43	43	0.4	-	0.0
Felixstowe	45	42	39	0.2	-	0.0
Scilly (St. Mary's)	51	46	*	0.2	0.2	0.3
Falmouth	51	44	*	Tr.	Tr	0.0
Plymouth	51	43	38	-	-	0.3
Portland Bill	50	41	*	-	-	*
Calshot, S'hampton	47	40	35	0.1	-	0.0
Dungeness	48	43	*	-	-	*
Lympne	45	41	40	Tr.	Tr	0.0
Guernsey	49	47	41	0.1	-	0.0

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	om,d,cm	cm	cmofbmw	47	38	29	Tr	Tr	0.0	•	•	5
Croydon	244	offmdd,cf	cffmo	omobmw	45	38	35	0.1	-	0.0	•	•	2
Greenwich (Royal Observatory)	149	od,mg	od,m	omcbmx	48	38	29	Tr	Tr	0.0	77	93	4
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Park)	27	•	•	•	49	41	36	0.3		0.0	76	83	•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•	•	•	•	•
Camden Square	116	odo	o	•	46	40	32	Tr.	-	•	•	91	•
Kensington Palace	80	oe	of	•	47	39	30	-	-	•	At 18h. 92	89	•
Hampstead Observatory	450	odo	o	•	45	34	29	0.3	Tr	0.0	•	81	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
1.3	22h.20½	0.3	2h.21st

Kew Observatory. Max.	Time.	Min.	Time.
1.0	21h.20st	0.2	2h.21st

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 20th December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 21st December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1030.6	N	2	m	46	1029.7	ENE	1	z	45
Brussels	1031.5	NNW	1	F	41	1030.4	NE	2	F	41
Berlin	1033.3	SSW	1	o|d	36	1031.1	SE	2	bc	28
Zürich	1028.4	N	1	z	30	1027.4	ENE	1	m	25
Rome	1019.7	NE	3	c	50	1017.5	NNE	4	bc	39

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
46	45	-	-
43	41	-	-
36	28	Tr.	-
36	23	-	-
35	33	-	2

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 22nd December 1930.

No. 25,232

OBSERVATIONS at 13h. G.M.T. 21st December

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)
Lerwick	1015.8	+16	W'N	4	bc	41	75	7	8	-	-	4-6	4-6	1500
Stornoway	1026.1	+8	W	3	bc	45	85	8	4	1	-	2-3	4-6	4000
Wick	1023.4	+4	WSW	4	c	43	95	8	8	6	-	4-6	7-8	2500
Tiree	1031.1	+2	W'S	5	bc	48	75	8	4	4	8	2-3	2-3	2500
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1026.9	-2	SSW	2	bc	44	75	7	5	4	1	2-3	4-6	2500
Malin Head	1033.3	0	W	4	c	48	85	8	8	-	-	9	9	2500
Renfrew	1031.3	-2	WSW	4	c/pr	47	85	7	8	-	-	7-8	7-8	1500
Inchkeith (Edin.)	1030.2	-4	WSW	5	c	45	85	7	5	1	-	2-3	7-8	2500
Leuchars	1029.0	-2	WSW	4	c	45	85	7	2	4	6	2-3	7-8	2500
Eskdalemuir	1032.2	-8	W	4	c	44	85	8	5	4	-	4-6	7-8	2500
Tynemouth	1032.0	-8	WSW	2	m	45	85	4	2	-	1	2-3	4-6	2500
Blacksod Point	1036.0	+2	W	2	c	48	75	8	-	1	-	0	10	-
Aldergrove	1035.1	-4	SW	4	c	43	85	8	5	-	-	9+	9+	2500
Donaghadee	1034.5	+2	WSW	2	c	44	85	7	5	-	-	7-8	7-8	2500
Birr Castle	1037.3	-2	W	1	c	43	85	8	5	-	-	9+	9+	2500
Holyhead	1035.8	-2	NW'N	4	c	46	75	8	5	-	-	9+	9+	4000
Liverpool (Bidston)	1036.2	0	WNW	4	c	45	85	9	8	-	-	7-8	7-8	4000
Chester (Sealand)	1036.1	-2	NW'N	3	c	46	75	8	5	-	-	9	9	4000
Harrogate	1033.8	0	SW	2	bc	43	85	7	6	-	1	Tr.	2-3	2500
Spurn Head	1033.1	0	NW'W	3	bc	42	95	6	5	7	1	2-3	4-6	1500
Birmingham	1035.4	+2	NW	1	bf	42	85	3	1	-	-	1	1	2500
Cranwell	1034.3	-10	W'N	3	m	42	85	4	-	-	1	0	2-3	-
Gorleston	1033.4	-6	NW	2	bc	46	95	6	7	-	-	4-6	4-6	2500
Valentia Obs.	1037.8	-2	-	0	c	45	85	8	5	-	-	9+	9+	2500
Roches Point	1038.0	-4	N	2	bc	44	95	8	5	-	-	2-3	2-3	1500
Pembroke	1035.9	-4	N	2	bc	46	75	8	2	-	-	4-6	4-6	4000
Ross-on-Wye	1035.6	-4	WNW	1	bcf	39	95	3	4	-	-	2-3	2-3	4000
Leafield	1035.1	0	NNW	4	b	42	85	7	1	-	-	Tr.	Tr.	2500
Cardington	1034.5	-3	NNW	2	b	43	85	6	-	-	-	0	0	-
Winchester	1034.9	+2	N	3	c	44	75	7	5	-	-	7-8	7-8	4000
S. Farnborough	1034.9	-4	N	2	b	45	85	6	7	-	-	Tr.	Tr.	2500
London (Kew)	1034.7	-10	N'W	3	b	45	75	5	-	-	-	0	0	-
Croydon	1034.9	-6	SW	1	bcF	36	95	1	-	3	1	0	4-6	-
Manston														
Shoeburyness	1033.7	-4	NNW	2	b	45	85	6	-	-	-	0	0	-
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1034.0	-6	NW	1	2	44	85	6	-	-	-	0	0	-
Scilly (St. Mary's)	1036.1	-6	NE	3	bc	51	75	8	2	-	-	4-6	4-6	4000
Falmouth	1036.7	+4	NW	3	bc	48	75	8	8	-	-	2-3	2-3	4000
Plymouth	1035.6	-6	ENE	3	c	49	65	9	9	-	-	7-8	7-8	2500
Portland Bill	1034.5	-4	NNE	3	bc	47	75	7	4	-	-	2-3	2-3	2500
Calshot, S'hampton	1034.8	-2	N	4	b	46	85	6	5	-	-	1	1	4000
Dungeness	*	*	NNE	3	m	*	*	6	-	7	*	0	2-3	-
Lympne	1033.1	-6	NNW	3	m	45	75	6	-	-	-	0	0	-
Guernsey	1033.6	-4	NE	1	c	48	75	6	5	-	-	9+	9+	2500

OBSERVATIONS at 18h. G.M.T. 21st December

Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
Lerwick	1019.9	+20	W'N	5	bc	39	85	7	6	-	-	4-6	4-6	1500	1	*
Stornoway	1029.0	+12	W	3	bc	43	85	7	4	-	-	4-6	4-6	4000	1	1
Wick	1025.2	+20	WNW	4	c/pr	43	85	8	3	-	8	4-6	7-8	1500	1	3
Tiree	1032.0	+4	WSW	4	c	46	85	7	5	5	8	4-6	7-8	2500	1	3
Nairn	1028.7	*	WNW	1	c	45	85	8	3	-	-	7-8	7-8	2500	0	*
Aberdeen	1028.2	+16	WSW	2	c/pr	44	85	7	6	-	-	9	9	1500	1	1
Malin Head	1033.5	0	W	4	c/d	45	95	7	5	-	-	9	9	1500	0	2
Renfrew	1031.7	+6	SW	3	bcjp	45	85	7	9	-	-	2-3	2-3	1500	1	*
Inchkeith (Edin.)	1030.2	+2	WSW	5	bc	45	85	7	-	4	-	0	2-3	-	0	3
Leuchars	1029.8	+6	SW	3	b	42	85	7	5	-	-	1	1	4000	1	*
Eskdalemuir	1032.5	+2	NW	3	bc	42	75	8	5	-	-	2-3	2-3	2500	1	*
Tynemouth	1031.7	-8	W	2	bc	43	85	6	2	-	-	4-6	4-6	2500	0	1
Blacksod Point	1035.6	0	W	2	c	46	85	8	5	-	-	9+	9+	<150	0	3
Aldergrove	1035.1	+12	SW'S	3	c	43	95	8	5	-	-	10	10	2500	1	*
Donaghadee	1034.3	+2	W'S	1	c	44	85	7	5	-	-	7-8	7-8	2500	0	0
Birr Castle	1036.7	0	W	1	0	43	85	7	5	-	-	10	10	2500	1	*
Holyhead	1035.4	0	NNW	4	c	46	75	8	5	-	-	10	10	4000	1	2
Liverpool (Bidston)	1034.9	0	W'N	4	c	44	75	9	5	-	-	7-8	7-8	4000	0	*
Chester (Sealand)	1035.0	0	WNW	3	c	44	75	7	5	-	-	10	10	4000	0	*
Harrogate	1033.8	0	SW	1	b	39	85	7	-	-	-	0	0	-	1	*
Spurn Head	1032.6	0	NW'W	3	z	42	95	5	5	-	-	2-3	2-3	450	0	3
Birmingham	1035.3	0	NNW	3	c	42	75	5	5	-	-	9+	9+	1500	1	*
Cranwell	1034.0	-2	W'N	3	b	37	95	6	-	-	-	0	0	-	1	*
Gorleston	1033.1	-6	NW'W	2	b	40	85	6	-	-	-	0	0	-	0	1
Valentia Obs.	1037.0	-4	SSE	1	0	43	85	8	5	-	-	10	10	2500	1	2
Roches Point	1037.4	-6	N	2	c	41	95	8	5	-	-	7-8	7-8	2500	0	2
Pembroke	1036.0	0	N	2	c	43	75	8	5	7	-	4-6	7-8	4000	0	2
Ross-on-Wye	1035.1	0	SW	1	bcf	36	95	3	-	-	-	0	0	-	1	*
Leafield	1034.7	-4	NNW	4	6	37	85	7	-	-	-	0	0	-	1	*
Cardington	1034.1	-2	NW	3	b	38	95	5	-	-	-	0	0	-	1	*
Winchester	1034.4	-6	N'W	2	b	37	95	7	-	-	-	0	0	-	1	*
S. Farnborough	1034.2	0	NW	1	b	34	95	6	-	-	-	0	0	-	1	*
London (Kew)	1034.3	0	NNW	1	b	40	85	6	-	-	-	0	0	-	1	*
Croydon	1034.2	-2	NNW	2	F	34	95	1	5	-	-	10	10	<150	1	*
Manston																*
Shoeburyness	1033.7	0	NNW	1	b	37	95	6	-	-	-	0	0	-	1	*
Clacton-on-Sea	1033.4	0	NW	2	bc	39	85	6	5	-	-	2-3	2-3	800	0	0
Felixstowe	1032.9	-2	NW	1	2	36	95	5	-	-	-	0	0	-	1	1
Scilly (St. Mary's)	1035.9	+4	NE'N	4	c	48	85	8	8	-	-	7-8	7-8	4000	0	2
Falmouth	1036.3	0	N	3	bc	44	85	7	8	-	-	4-6	4-6	4000	0	1
Plymouth	1035.4	0	NE	2	c	43	85	6	5	-	-	7-8	7-8	4000	1	0
Portland Bill	1034.4	+4	NNW	2	bc	42	85	7	4	-	-	2-3	2-3	2500	1	2
Calshot, S'hampton	1034.5	0	N	3	b	41	85	6	-	-	-	0	0	-	0	0
Dungeness	*	*	N	2	m	*	*	5	5	-	*	2-3	2-3	2500	*	1
Lympne	1032.7	+2	N'W	4	m	38	95	4	-	-	-	0	0	-	1	*
Guernsey	1032.9	+8	NE	2	c	48	85	7	5	-	-	9+	9+	2500	0	2

PAST 24 HOURS.

Stations.	Weather. 7h.–13h. 21st (37)	Weather. 13h.–18h. 21st (38)	Weather. 18h. 21st to 1h. 22nd (39)	Weather. 1h.–7h. 22nd (40)
Lerwick	bcpr	bcpr	bcprsbc	bc
Stornoway	cpr bc	cbc	bc	bcp₀d
Wick	bcpre	cpr	bc	bc
Tiree	bcb	bccir₀	bccp₀bc	pr₀d₀
Nairn	bcprcc	cbc	cud	c
Aberdeen	bxbc	bccpr	cr₀bx	bcc
Malin Head	c	cbcc	cd₀bc	bc
Renfrew	bccp₀	bccp₀	bc	bcc
Inchkeith (Edin.)	bcc	cbc	bc	bc
Leuchars	bxbcc	cbw	bwbx	bbcx
Eskdalemuir	bcxbc	bc	bc	bcom₀
Tynemouth	bcff	bcmbc	bc	bc
Blacksod Point	c	c	pc	pc
Aldergrove	d₀c	c	b₁d₀c	cbc
Donaghadee	bcc	c	cbc	bcb
Birr Castle	bcc	co	o	o
Holyhead	bcc	c	co	oc
Liverpool (Bidston)	bcvcv	c cv	c cv	ccbcv
Chester (Sealand)	bcm₀c	c	c	c
Harrogate	bbc	bcb	b	bbccx
Spurn Head	bc	bcmz	bcz	bcw
Birmingham	bFf	bcc	c	c
Cranwell	bfm₀	bmm₀	bm₀	bm₀x
Gorleston	bcmm₀	bcm₀m₀	bm₀m₀x	bcfx
Valentia Obs.	c	co	o	o
Roches Point	bcofcbc	bcc	c	c
Pembroke	bbc	bcc	bcc	c
Ross-on-Wye	bfbfbcf	bmb bf	bfexbuif	cfcm
Leafield	bcb	6	b	bbc
Cardington	bmxfbm	bm₀w	bxm₂	cxm₀
Shoeburyness	bcm₀c	cbcb	bbm₀x	bm₀x
Clacton-on-Sea	cfeb	b bx	bxff	bxff
Felixstowe	bmxbfbz	bm₀	bm₀bfx	ofx
Scilly (St. Mary's)	bcFF	bcoFFx	oFFbffx	bffx
Falmouth	cbcm₀bm	bm₀	bx	bcm
Plymouth	bwm₀c	cbz₀	cb3₀	bxn₀
Portland Bill	bc	bc	bcz₀	bc3₀
Calshot, S'hampton	bcm₀	bm₀	bm₀wbx	b bw n₀
Dungeness	bc	bc		bc
Lympne	cbm₀	bm	bmfx	bobefe
Guernsey	bcc	cbcc	cbc	bcc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

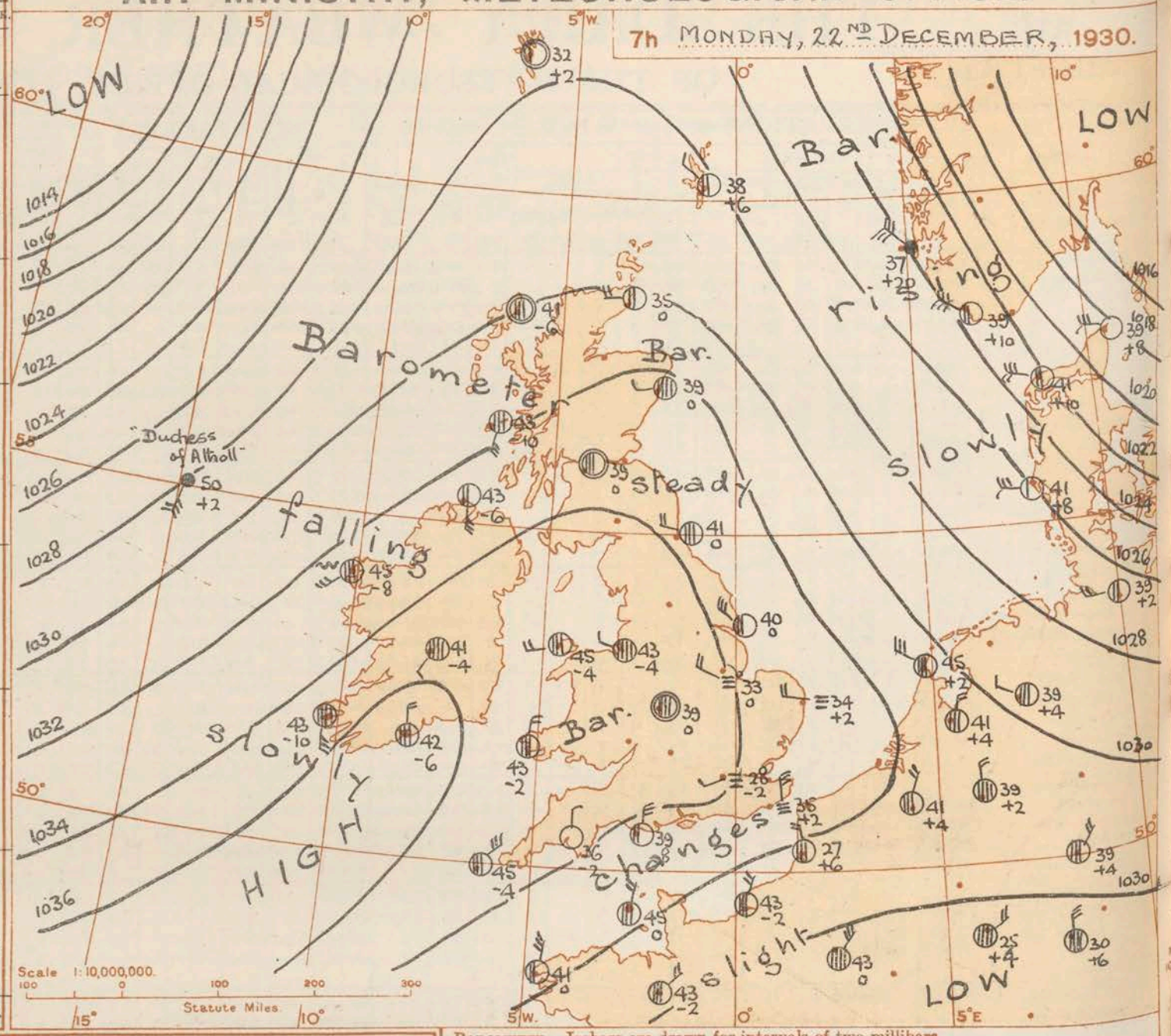
REPORTS from HEALTH RESORTS for 21st December 1930.

Stations	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 20th to 9h. 21st	Temperature. Max. 9h.—17h. 21st	Rainfall. Night. 17h. 20th to 9h. 21st	Rainfall. Day. 9h.—17h. 21st	Sunshine. Sunrise to Sunset. 21st
Dunbar	bc	bc	39	46	–	–	1·8
Berwick-on-T.	bc	bc	36	49	–	–	4.0
Douglas	bcxcbc	bc	38	45	–	–	0.0
Llandudno	c	c	44	47	–	–	0.1
Colwyn Bay	o	o	43	46	–	–	0.0
Rhyl	cbc	c	42	47	–	–	0.0
Wallasey	bcc	c	40	45	Trace	–	1.1
Southport ‖	b	bc	40	46	0·2	–	4·8
Blackpool	cbc	bcc	41	46	–	–	5.4
Morecambe	mdcbc	cbbcc	30	46	/	–	2·7
Ilkley	b	b	35	45	–	–	2·5
Cleethorpes	cb	bc	35	43	–	–	4·5
Mablethorpe	bxwm	bm	34	45	–	–	5·7
Skegness	mb	bm	34	46	–	Trace	5·6
Aberystwyth	cbcw	bcc	35	47	–	–	4·1
Bath	b	bbcb	36	46	–	–	6.0
Cheltenham †	bmwbc	bcfc	34	40	–	–	3.3
Leamington Spa	focbc	bcom	34	44	–	–	2·8
Lowestoft	bc	bc	37	44	–	–	5.6
Dovercourt	bf	bf	37	44	Trace	–	5·2
Maldon	mb	b	39	45	–	–	5·3
Southend	czbc	bbz	40	46	Trace	–	5·2
Ilfracombe	b	b	42	47	–	–	6.4
Bude	wbcb	b	34	48	–	–	6.4
St. Ives	b	c	48	50	–	–	4·1
Penzance	b	b	44	?	–	–	5.7
Torquay	bcwbm	bcbm	38	47	–	–	4·0
Jersey	bc	bc	46	50	–	–	6·5
Weymouth	b	b	37	48	–	–	6·5
Bournemouth	b	b	38	47	–	–	6·3
Ventnor	bfb	b	39	47	–	–	6.5
Southsea	b	b	39	47	–	–	6.4
Bognor Regis	b	b	37	46	–	–	6.0
Littlehampton	bcb	b	36	46	–	–	5.9
Worthing	cbc	bc	39	46	–	–	5.1
Brighton	cbc	bc	40	46	–	–	3.7
Eastbourne †	cbcb	bm	41	47	–	–	4.4
Hastings †	cmbcb	b	43	47	0·2	–	3·8
Folkestone	omc	bcb	43	47	Trace	–	3·0
Dover	moc	mcb	44	47	Trace	–	3.3
Deal	obc	b	43	47	–	–	3·0
Tunbridge Wells	bcb	bmb	39	45	–	–	4·5
Ramsgate	ombc	bc	42	47	Trace	–	3.0
Margate	cbc	bc	44	47	–	–	4·2

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h MONDAY, 22ND DECEMBER, 1930.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 22nd Dec. 1930
1. S.E. England 2. E. England... 3. E. Midlands	Light variable to fresh southerly or southwesterly winds; mainly fair today, some rain tomorrow, normal temperature; local fog.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Light variable to strong southerly or southwesterly winds; cloudy, some rain later; becoming milder; local fog.
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland	As 1 - 3.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland.	Moderate to strong southerly or southwesterly winds, stronger at times; cloudy, some rain; rather mild; local fog.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	As 4 - 7
17. N.W. Ireland 18. N.E. Ireland 19 S.E. Ireland 20. S.W. Ireland	As 12 - 14.

Barometer. Isobars are drawn for intervals of two millibars.
Wind. Arrows fly with the wind. Number of feathers indicate Beaufort force.
Temperature is given in degrees F. Calm. = ⊙
Weather Symbols :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 1/8 clouded. ◕ Sky 1/10 to 1/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡° Mist. ϒ Thunder. ⧖ Thunderstorm.
Sea Disturbance. ~~ Rough. ≈≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A deepening depression centred southwest of Iceland will move northeastward while associated secondaries travel round its southern boundary. Rain is to be expected in Scotland and Ireland but conditions will continue mainly fair in England apart from fog.

FURTHER OUTLOOK.

Some rain in most districts.

Time of Issue of Gale Warning.

South cone at 0840 on 22nd. in 13B, 17.

Forecasts issued at 1000 G.M.T.

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

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

F^r 2497/2165. M. 28 0.6026. Gp. 806. 3131/1

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

Morning of
MONDAY
DECEMBER 22nd
1930.

Lambert's Projection Scale 1 : 4 x 10^7 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 the wind. Number of feathers indicate Beaufort Force.

(0) = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 22nd December 1930.

No. 25232

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

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)
Lerwick	54	1027.9	+20	WNW	3	bc	39	75	7	8	-	-	4-6	4-6	1500
Stornoway ...	34	1030.5	+6	-	0	bc	40	85	7	4	-	-	2-3	2-3	4000
Wick	81	1030.0	+16	WNW	2	bc	34	95	8	3	6	-	2-3	4-6	2500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head ...	51	1033.6	0	SW	3	bc	44	95	7	5	-	-	4-6	4-6	800
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	1031.9	+8	WSW	3	bc	43	95	7	5	-	-	2-3	2-3	2500
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir ...	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth ...	67	1034.3	+6	W	2	bc	40	95	7	2	-	-	2-3	2-3	2500
Blacksod Point ...	10	1034.2	-6	S	3	c	45	85	7	8	-	-	7-8	7-8	450
Aldergrove ...	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee ...	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle ...	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead... ...	26	1035.3	0	NNW	3	o	46	85	8	5	-	-	10	10	800
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate... ...	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head ...	29	1032.8	0	NW	4	bc	39	95	5	5	-	-	4-6	4-6	450
Birmingham ...	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1034.1	+2	NNW	2	b	33	95	5	-	-	-	0	0	-
Gorleston	14	1033.0	-2	NW	2	b	35	95	6	-	-	-	0	0	-
Valentia Obs.† ...	30	1037.1	0	-	0	o	43	95	7	5	-	-	10	10	4000
Roches Point ...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke... ...	150	1035.4	0	NNE	2	c	43	85	8	8	-	-	7-8	7-8	2500
Ross-on-Wye ...	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington ...	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester ...	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew) ...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1034.4	+2	WNW	1	bf	30	95	2	-	-	-	0	0	-
Manston	135	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness ...	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1035.8	0	ENE	4	c	46	75	8	8	-	-	9	9	4000
Falmouth... ...	200	1036.6	0	NNE	3	o	43	75	7	5	-	-	10	10	4000
Plymouth... ...	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill ...	32	1034.3	+2	NE'N	3	bc	40	85	6	4	-	-	2-3	2-3	2500
Calshot, S'hampton	8	1034.6	0	N'W	4	b	39	85	7	-	-	-	0	0	-
Dungeness ...	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1033.1	+4	N'W	3	bf+	34	95	2	-	-	-	0	0	-
Guernsey	173	1032.9	0	NE	3	bc	45	65	6	5	-	-	4-6	4-6	4000

OBSERVATIONS at 7 hr. G.M.T. 22nd December

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1028.3	+6	NW	1	bc	38	95	8	8	-	-	2-3	2-3	1500	1	*
1029.5	-6	-	0	c	41	95	7	4	-	-	9	9	4000	1	0
1030.1	0	W	2	bc	35	95	8	5	-	8	4-6	4-6	2500	0	2
1031.5	-10	SSW	3	c/d	43	95	7	5	4	8	7-8	9	1500	1	3
1030.5	•	-	0	c	40	85	7	5	-	-	7-8	7-8	2500	0	*
1032.4	0	W	1	o	39	85	8	5	-	-	10	10	4000	1	1
1032.2	-6	S	3	bc	43	95	7	5	-	-	2-3	2-3	2500	0	2
1032.7	0	-	0	c	39	95	8	8	7	-	2-3	9	2500	1	*
1032.6	0	WSW	2	bc	41	95	7	6	4	-	2-3	4-6	2500	0	1
1032.5	0	WSW	2	bc	35	95	8	4	3	-	1	2-3	4000	1	*
1034.0	0	-	0	o	35	95	6	5	-	-	10	10	1500	1	*
1033.3	0	WNW	2	c	41	95	6	5	-	-	7-8	7-8	1500	0	1
1032.6	-8	SE	3	c	45	85	7	3	-	-	9	9	450	1	4
1034.6	-2	S	2	bc	38	95	7	5	-	-	2-3	2-3	2500	1	*
1033.4	-2	WSW	1	bc	37	95	7	5	-	-	2-3	2-3	4000	0	0
1035.5	-4	SW	1	o	41	85	8	5	-	-	10	10	2500	1	*
1034.2	-4	WSW	2	c	45	75	8	5	-	-	9+	9+	1500	1	0
1034.4	0	NW'W	1	c	44	85	9	5	-	-	7-8	7-8	2500	0	*
1034.1	-4	W'N	1	o	43	85	7	5	-	-	10	10	4000	0	*
1034.7	0	SW	1	c	35	95	7	5	-	-	9+	9+	2500	4	*
1033.1	0	NW'N	3	bc	40	95	6	5	1	-	2-3	2-3	2500	0	3
1034.7	0	-	0	o	39	95	5	5	-	-	10	10	2500	1	*
1034.0	0	WNW	2	m	33	95	4	-	3	-	0	Tr	-	4	*
1033.3	+2	WNW	2	r	34	95	1	5	-	-	10	10	150	0	1
1034.2	-10	SSE	3	o	43	75	8	5	-	-	10	10	2500	1	2
1036.2	-6	N	2	c	42	85	8	5	-	-	9	9	2500	0	2
1034.9	-2	NNE	2	c	43	75	8	8	-	-	9+	9+	2500	0	2
1034.6	-4	SW	1	m	35	95	4	5	-	-	9+	9+	2500	1	*
1034.3	-4	NW'N	2	c	35	95	7	5	-	-	9+	9+	~~4000~~ 2500	1	*
1034.4	-2	W'S	1	o	32	95	6	5	-	-	10	10	2500	1	*
1034.2	-4	NW	1	2	32	95	5	5	-	-	2-3	2-3	4000	4	*
1034.0	-2	-	0	bf	27	95	1	-	5	-	0	1	-	4	*
1034.5	0	SSW	1	F	29	95	1	5	-	-	10	10	150	4	*
1034.0	-2	WSW	1	bf	28	95	3	-	-	-	0	0	-	1	*
1033.6	0	NW	1	bc	33	95	5	5	-	-	4-6	4-6	4000	1	*
1033.1	0	NNW	4	bc	34	95	7	5	-	-	2-3	2-3	450	0	18
1033.9	0	NNW	2	m	33	95	4	5	-	-	4-6	4-6	4000	1	1
1035.1	-4	NE	3	c	45	85	7	8	-	-	9	9	4000	0	2
1035.8	0	NNE	2	c	40	85	7	5	-	-	7-8	7-8	4000	0	0
1035.2	-2	N	1	2	36	95	6	-	-	-	0	0	-	1	0
1033.6	-8	NNE	3	bc	39	85	6	4	-	-	2-3	2-3	2500	1	2
1034.1	-6	NNW	3	b	35	95	6	5	-	-	1	1	2500	1	0
•	•	NNW ~~NE~~	2	m	•	•	4	5	-	•	2-3	2-3	4000	•	!
1032.7	+2	N	3	bcf	35	95	3	5	4	-	4-6	4-6	800	1	*
1033.0	0	NNE	2	c	45	95	6	5	-	-	7-8	7-8	2500	0	2

PAST 24 HOURS.

TEMPERATURE. Max. Day 7h-18h °F. (31)	TEMPERATURE. Min. Night 18h-7h °F (32)	TEMPERATURE. Min. on Grass °F. (33)	RAINFALL. Day 7h-18h mm. (34)	RAINFALL. Night 18h-7h mm. (35)	SUNSHINE 21st Hrs. (36)
45	37	*	6	0.5	0.5
47	38	*	1	0.2	0.3
43	33	*	0.6	-	*
48	38	32	0.1	0.3	5.0
47	39	*	0.2	0.1	1.3
46	36	29	0.5	Tr	2.4
48	42	*	Tr.	Tr	0.1
47	35	29	0.2	-	1.9
45	40	39	-	-	2.1
47	34	27	-	-	4.3
44	33	29	-	-	2.3
46	39	33	-	-	*
48	42	*	-	1	*
44	37	33	Tr.	Tr	0.0
45	35	*	-	-	*
44	40	39	-	-	0.0
47	45	42	-	-	0.1
45	43	41	-	-	1.0
46	43	41	-	-	~~0.4~~ 0
43	34	27	-	-	5.1
42	38	*	-	Tr	5.4
43	37	28	-	-	0.0
42	32	27	-	-	5.13
46	33	31	-	-	4.1
45	42	41	-	-	0.0
47	39	*	Tr.	-	*
48	40	*	-	-	3.0
43	31	20	-	Tr	2.7
43	32	24	-	-	5.1
44	29	21	-	-	4.0
44	30	23	-	-	2.5
46	27	18	-	Tr	3.7
45	29	22	-	-	4.2
38	28	27	-	-	0.0
46	32	23	-	-	5.5
44	34	31	-	-	4.5
44	33	28	-	-	5.2
51	44	*	-	-	4.5
48	40	*	-	-	6.2
51	34	30	-	Tr	5.4
47	38	*	-	-	*
46	34	28	-	-	6.8
47	30	*	-	-	*
45	31	29	-	-	4.5
49	45	39	-	-	1.7

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	b_3 Δ bf $b3_0$	bm_0	bn_0 bF x	45	29	22	—	-	4.2	•	•	1
Croydon	244	bcFF	bc o FF x	o FF bff x	38	28	27	—	-	0.0	•	•	1
Greenwich (Royal Observatory) ...	149	bm	bm	bn x FF	44	28	22	—	Tr	1.0	83	94	2
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.5	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	46	30	27	-	-	2.7	78	98	•
Regents Pk. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•		•	•	•
Camden Square	110	bcb	b	•	45	31	22	—	-	•	•	95	•
Kensington Palace	80	bc	bcbm	•	45	31	22	-	-	•	At 18h. 87	85	•
Hampstead Observatory	450	bc	bmx	•	43	31s	22	—	Tr	4.9	•	94	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 22nd

South Kensington. Max.	Time.	Min.	Time.
1-3	21h to 21st	0.6	1 & 2h 22nd.

Kew Observatory. Max.	Time.	Min.	Time.
1-3	11h to 21st	0-3	13h 21st

FOREIGN OBSERVATIONS.

STATIONS.	18h. G.M.T. 21st December: Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 22nd December: Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1030.6	NE	3	m	46	1029.5	NE	3	o	43
Brussels	1031.2	NE	2	o	45	1031.8	NNE	2	c	41
Berlin	1029.9	WSW	1	c	32	1026.7	WSW	1	f	37
Zürich						1028.4	E	2	m	25
Rome						1028.7	NE'E	4	c	41

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
46	43	-	-
45	41	Tr	-
36	32	-	-
	33	-	-
	41	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

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

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 23rd December 1930.

No. 25 233

OBSERVATIONS at 13h. G.M.T. 22nd December

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)
Lerwick	1028·1	-10	NW	1	c	39	95	7	5	1	-	4·6	7·8	1500
Stornoway ...	1026·3	-18	SSW	3	id$_o$	46	95	6	5	-	-	10	10	4000
Wick	1029·1	-10	SW	2	c	43	95	8	8	1	-	4·6	9	2500
Tiree	1029·2	-16	SW	5	c/d	45	85	9	5	7	-	9+	10	2500
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1030·5	-12	SW	2	6c	44	85	6	-	3	1	0	4·6	-
Malin Head ...	1030·7	-16	S	3	c	42	95	8	5	-	-	9+	9+	1500
Renfrew	1031·7	-12	SW	2	2	46	85	5	4	-	-	9+	9+	4000
Inchkeith (Edin.)	1032·3	-6	WSW	2	c	44	85	6	5	2	-	2·3	9+	2500
Leuchars	1031·7	-14	SW	2	c	40	95	6	5	-	1	7·8	9	4000
Eskdalemuir ...	1032·8	-10	SW	3	c	41	95	8	5	-	-	10	10	1500
Tynemouth ...	1033·3	0	WSW	1	of	43	85	3	5	-	-	10	10	800
Blacksod Point ...	1029·7	-8	SE	4	c	46	85	8	5	-	-	9+	9+	4450
Aldergrove ...	1033·1	-14	SW	3	c	40	85	8	5	-	-	10	10	1500
Donaghadee ...	1032·7	-12	SW	2	c	43	85	7	5	-	-	7·8	7·8	2500
Birr Castle ...	1034·3	-6	SW	1	0	40	75	8	5	-	-	10	10	2500
Holyhead... ...	1033·8	-8	SW'S	2	c	46	85	8	5	-	-	9+	9+	2500
Liverpool (Bidston)	1034·0	-6	-	0	0	45	85	6	5	-	-	10	10	2500
Chester (Sealand)	1033·8	-8	-	0	2	45	85	5	5	-	-	9+	9+	4000
Harrogate... ...	1034·1	0	-	0	c	42	85	5	5	-	-	9+	9+	2500
Spurn Head ...	1032·3	0	NNW	1	m	41	95	4	5	3	8	4·6	10	220
Birmingham ...	1034·2	-8	-	0	f	42	85	1	5	-	-	10	10	220
Cranwell	1034·4	-8	W'S	1	m	38	95	4	5	-	1	1	2·3	4000
Gorleston ...	1034·7	-6	NW	1	6cf-	45	95	3	5	-	-	4·6	4·6	1500
Valentia Obs. ...	1034·4	-20	S	4	c	46	75	8	5	-	-	9+	9+	2500
Roches Point ...	1034·9	-10	SW	2	c	44	75	8	5	-	-	9	9	2500
Pembroke... ...	1034·0	-4	SE	2	c	44	85	8	5	2	-	9	10	2500
Ross-on-Wye ...	1033·7	-10	W	1	cf	41	95	3	5	-	-	9+	9+	4000
Leafield	1034·0	-6	SSE	2	c	39	95	5	5	-	-	9+	9+	5700
Cardington ...	1034·6	-6	-	0	m	39	95	4	5	3	-	4·6	9+	5700
Winchester ...	1034·1	-12	N	3	c	40	95	6	5	-	-	9+	9+	2500
S. Farnborough ...	1034·1	-10	-	0	f	36	95	2	5	-	-	10	10	220
London (Kew) ...	1034·5	-10	-	0	f	35	85	1	5	-	-	10	10	1150
Croydon	1034·3	-10	N	2	6f	35	95	1	-	-	-	0	0	-
Manston														
Shoeburyness ...	1033·9	-10	NW	1	6	42	95	5	5	-	-	7+	7+	4000
Clacton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe ...	1034·5	-6	NNW	2	6f	37	95	1	-	-	-	0	0	-
Scilly (St. Mary's)	1035·1	-8	E	2	c	45	85	7	5	-	-	9+	9+	4000
Falmouth... ...	1035·7	-10	N	1	c	43	75	76	5	3	-	4·6	7·8	5700
Plymouth... ...	1034·2	-14	NNW	1	f$_3$	43	85	3	1	-	1	[illegible]	1	4000
Portland Bill ...	1033·3	+6	NEN	3	6	44	85	6	-	-	-	0	0	-
Calshot, S'hampton	1034·0	-10	NE	1	6c	44	75	6	5	-	1	1	2·3	4000
Dungeness ...	*	*	N	2	m	*	*	4	5	3	*	2·3	4·6	1500
Lympne	1033·0	-6	N	3	m	39	95	4	5	-	-	2·3	2·3	4000
Guernsey	1032·5	-10	NNE	1	c	46	75	6	5	-	-	9+	9+	2500

OBSERVATIONS at 18h. G.M.T. 22nd December

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)
Lerwick	1025·2	-20	S	2	c/r	44	95	7	6	2	-	4·6	10	1500	1	*
Stornoway ...	1021·6	-16	S	5	id	44	95	6	6	-	-	10	10	4000	1	4
Wick	1025·7	-24	SSW	3	6c	43	95	8	6	1	-	4·6	4·6	2500	1	2
Tiree	1025·1	-24	S'E	5	c	43	85	8	5	2	-	7·8	10	2500	1	3
Nairn	1025·4	*	SE	1	c	44	75	8	5	-	-	7·8	7·8	2500	0	*
Aberdeen	1027·6	-20	SSW	2	6c	40	85	6	-	4	8	0	2·3	-	1	1
Malin Head ...	1026·2	-24	S	5	c	40	95	7	5	-	-	9+	9+	2500	0	2
Renfrew	1029·1	-16	SSW	2	c	43	75	6	5	-	-	10	10	4000	1	*
Inchkeith (Edin.)	1029·6	-10	SW	2	5	44	85	7	5	-	-	10	10	1500	0	1
Leuchars	1028·6	-14	SSW	2	c/d	42	95	6	5	-	-	9+	9+	2500	1	*
Eskdalemuir ...	1030·3	-16	SW	3	0	40	95	7	5	-	-	10	10	800	1	*
Tynemouth ...	1031·6	-14	SW	2	m	44	85	4	5	-	-	10	10	1500	0	1
Blacksod Point ...	1026·2	-16	S	5	c	48	85	7	8	-	-	9+	9+	220	0	4
Aldergrove ...	1030·1	-18	S'E	3	c	38	85	7	5	-	-	10	10	2500	1	*
Donaghadee ...	1030·1	-10	W'S	1	c	39	85	7	5	2	-	4·6	7·8	2500	0	0
Birr Castle ...	1030·7	-18	S	2	0	40	85	8	5	-	-	10	10	2500	4	*
Holyhead... ...	1031·8	-10	WSW	3	c	44	85	7	5	-	-	10	10	2500	1	1
Liverpool (Bidston)	1031·6	-6	S	1	0	44	75	7	5	-	-	10	10	2500	0	*
Chester (Sealand)	1032·0	-10	S	1	m	43	95	4	5	-	-	10	10	2500	0	*
Harrogate... ...	1032·2	-6	SSW	1	f	40	95	3	5	-	-	10	10	1150	1	*
Spurn Head ...	1032·4	-4	-	0	of	41	95	3	5	-	-	10	10	220	0	1
Birmingham ...	1033·1	-6	SW	1	of	41	85	2	5	-	-	10	10	800	1	*
Cranwell	1033·2	-8	SSE	1	f	35	95	1	5	-	-	10	10	1150	1	*
Gorleston	1033·2	-6	NW	2	f	40	95	0	5	-	-	10	10	1150	0	1
Valentia Obs. ...	1029·2	-20	S'E	3	c	47	85	8	5	-	-	9+	9+	2500	1	3
Roches Point ...	1032·2	-14	SW	3	c	46	75	8	5	-	-	9	9	2500	0	2
Pembroke... ...	1033·2	-8	ENE	2	0	43	75	8	5	-	-	10	10	2500	0	2
Ross-on-Wye ...	1032·7	-8	ENE	1	of	40	95	3	5	-	-	10	10	800	1	*
Leafield	1032·7	-6	-	0	6c	37	95	6	5	-	-	4·6	4·6	5700	1	*
Cardington ...	1033·3	-4	-	0	f	32	95	1	5	-	-	10	10	1150	1	*
Winchester ...	1033·4	0	N	2	m	33	95	4	-	-	-	0	0	-	1	*
S. Farnborough ...	1033·1	-2	-	0	f	31	95	0	5	-	-	10	10	1150	1	*
London (Kew) ...	1033·6	-6	-	0	f	31	95	0	5	-	-	10	10	1150	4	*
Croydon	1033·5	-2	S'W	1	f	30	95	0	5	-	-	10	10	1150	4	*
Manston																*
Shoeburyness ...	1033·1	-4	NW	1	m	37	95	4	5	-	-	10	10	2500	1	*
Clacton-on-Sea ...	1033·0	0	NNW	3	cf	37	95	3	5	-	-	7·8	7·8	800	0	1
Felixstowe ...	1033·2	-4	N'W	2	m	37	95	4	5	-	-	10	10	4450	1	1
Scilly (St. Mary's)	1033·1	-4	-	0	c	44	75	7	5	-	-	9+	9+	4000	0	2
Falmouth... ...	1033·9	-6	NE	1	0	44	75	7	5	-	-	10	10	4000	0	0
Plymouth... ...	1033·1	-4	-	0	6c	40	85	6	1	-	-	4·6	4·6	2500	1	0
Portland Bill ...	1031·9	-4	NE'N	3	6c	40	85	6	4	-	-	2·3	2·3	2500	0	2
Calshot, S'hampton	1032·8	-6	N'W	2	2	38	95	5	5	-	-	4·6	4·6	2500	0	0
Dungeness ...	*	*	NE	2	m	*	*	4	5	-	*	4·6	4·6	2500	*	1
Lympne	1033·2	-4	N	3	m	41	95	4	5	-	-	9	9	4000	1	*
Guernsey	1031·1	-6	NNE	2	0	47	75	6	5	-	-	10	10	1500	0	2

PAST 24 HOURS.

STATIONS. (For heights see p. 4.)	Weather. 7h.–13h. 22nd (37)	Weather. 13h.–18h. 22nd (38)	Weather. 18h. 22nd to 1h. 23rd (39)	Weather. 1h.–7h. 23rd (40)
Lerwick	6cc	c6ir$_o$	c6ir$_o$	6ir
Stornoway ...	c id$_o$	6id	6d$_o$d$_o$	6d$_o$d$_o$
Wick	6cc	c6c	6cc	c
Tiree	c ird	c id$_o$	c rr	ir$_o$ pr
Nairn	c6c	6cc	c6c	6c
Aberdeen	c6c	6cc6	6$_3$0 6c	c
Malin Head ...	6cc	c	ce	6ir
Renfrew	c fd$_o$ ffc$_{m_o}$	ir$_o$ c m$_o$	c m$_o$	cir$_o$m$_o$
Inchkeith (Edin.)	6cc	c0	0c	cr$_o$r$_o$
Leuchars	6cir c m$_o$	c m d$_o$ c m$_o$	o m$_o$	c m$_o$ o r$_o$
Eskdalemuir ...	o m c	c d$_o$ 0	op d$_o$ o n$_o$	o n gr r m$_o$
Tynemouth ...	c 0 ff	0 ff	0	0 b c o
Blacksod Point ...	c	c	r r	p c
Aldergrove ...	6cc	c d$_o$ c	c c r m$_o$	o d$_o$ o r
Donaghadee ...	6 6 c c	c	c	c p r
Birr Castle ...	0	0	0	0 ir$_o$
Holyhead... ...	c	c	d$_{oo}$	0
Liverpool (Bidston)	c 0	0	0 oc	c o w
Chester (Sealand)	c m m$_o$	c m m	c m n$_o$	c n$_o$ r$_o$
Harrogate... ...	c	c o m f	o ff	o c ir$_o$
Spurn Head ...	6 c m	c o f	0 f m 0	0
Birmingham ...	c ff	c 0 ff	o f c	c
Cranwell	6 m c f 6	6 n o f e	F e c m$_o$	c m$_o$
Gorleston	6 6 c f	6 c c m m	o f f	o f o v
Valentia Obs. ...	0 c	c	c b c c	c i r c ir$_o$
Roches Point ...	c	c	c	c o i d
Pembroke... ...	c, 0	0	0	o r$_o$ b c
Ross-on-Wye ...	c m i f	c f o f	o f	o f c n c
Leafield	c	c 6 c	b c c	c o f
Cardington ...	c m$_o$ c m	f o f e	F F e	o f f e
Winchester ...	6 c m$_o$ x c	c m$_o$ 6 m$_o$	b n o f f x	o f f x
S. Farnborough ...	6 x f o 6 c f	6 6 f o f x	O F F x f f	o f f f f
London (Kew) ...	o f	o f	o f x o f w	o f w
Croydon	6 o 6 f f f x	6 o f f f x	O F F e	o f e f e
Manston				
Shoeburyness ...	6 c m$_o$ 6 m$_o$	c m$_o$ o m	o m	o f f
Clacton-on-Sea ...	6 c m	6 c m c f	c f c m	c m e
Felixstowe ...	6 c x f 6 f	6 c f f r o m	o m o f	o m
Scilly (St. Mary's)	c	c	c	c
Falmouth... ...	c z$_o$	c 0	0	0
Plymouth... ...	6 x n.	6 6 c z$_o$	b c m$_o$ 0	O m$_o$
Portland Bill ...	6 c 6 z$_o$	6 6 c z$_o$	c z$_o$	c 3$_o$
Calshot, S'hampton	o m	6 6 c m$_o$ w	b w m c m o f	o f f e
Dungeness ...	d	6 c		b c
Lympne	6 c j m	6 c m	c o f m	o m c n$_o$
Guernsey	c 6 c c	c 0	0	o c 6 c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

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

<, less than (for cloud height).

⊕, solar halo. ☾, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

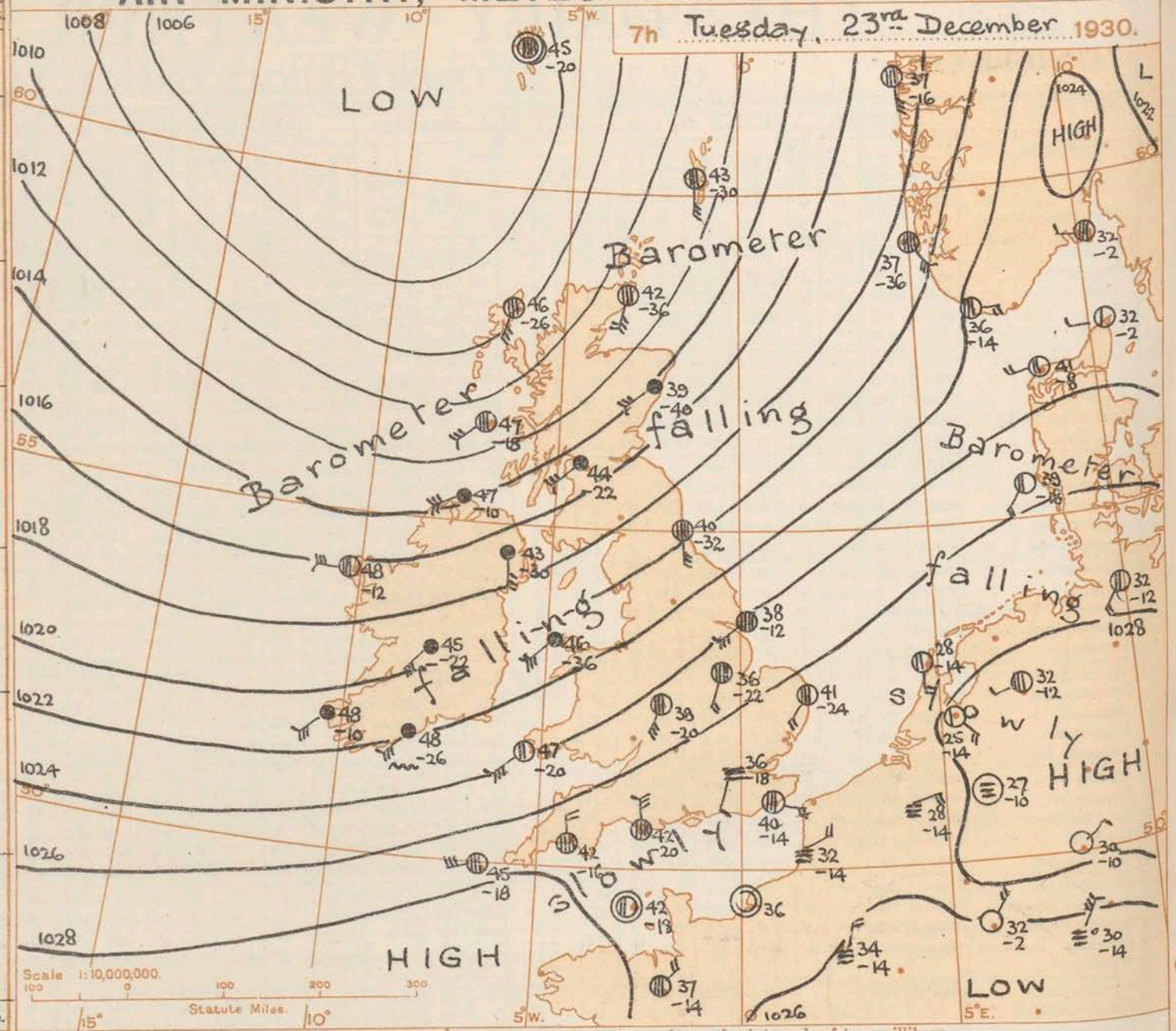
REPORTS from HEALTH RESORTS for 22nd December 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 21st to 9h. 22nd	TEMPERATURE. Max. 9h.—17h. 22nd	RAINFALL. Night. 17h. 21st to 9h. 22nd	RAINFALL. Day. 9h.—17h. 22nd	SUNSHINE. Sunrise to Sunset. 22nd
Dunbar	bc	bc	40	46	–	–	1.1
Berwick-on-T.	ocbc	c	39	44	–	–	1.9
Douglas	c	c	42	45	–	–	0.0
Llandudno	c	c	44	47	–	–	0.0
Colwyn Bay	o	o	44	46	–	–	0.0
Rhyl	c	c	43	45	–	–	0.0
Wallasey	moc	cm	40	45	–	–	0.0
Southport ‖	co	cobcm	41	45	–	–	0.0
Blackpool	c	o	43	45	–	–	0.0
Morecambe	meco	meco	40	44	Tr.	–	0.0
Ilkley	foc	om	34	40	–	–	0.0
Cleethorpes	of	of	34	43	–	–	0.0
Mablethorpe	com$_o$	om$_o$	33	41	–	–	0.0
Skegness	xbcm$_o$	m$_o$o	33	41	–	–	0.4
Aberystwyth	c	c	36	45	–	–	0.0
Bath	mc	mc	31	42	–	–	0.0
Cheltenham †	cmcm	cof	30	41	Tr.	–	0.0
Leamington Spa	fo	om	29	39	–	–	0.0
Lowestoft	mcbc	bcm	32	44	–	–	1.6
Dovercourt	xbcf	qbc	32	39	–	–	0.0
Maldon	mcb	bf	33	41	–	–	2.7
Southend	cfzbc	bbcfw	34	43	Tr.	Tr.	2.8
Ilfracombe	ozc	bcc	35	44	–	–	0.8
Bude	wcbcb	bbcc	32	47	–	–	3.4
St. Ives	c	o	42	45	–	–	1.8
Penzance	c	c	43	46	–	–	0.6
Torquay	bwm	bbcmo	34	45	–	–	6.2
Jersey	bcc	c	44	47	–	–	0.5
Weymouth	b	b	33	45	–	–	6.3
Bournemouth	b	b	31	44	–	–	6.7
Ventnor	xbz	bz	35	46	–	–	6.5
Southsea	bfb	bbm	34	45	–	–	4.7
Bognor Regis	b	bbcb	34	44	–	–	5.5
Littlehampton	bc	bcf	33	41	–	–	5.6
Worthing	bc	bc	35	42	Tr.	–	6.0
Brighton	fcb	cbc	35	44	–	–	4.6
Eastbourne †	c	cacbf	34	42	–	–	1.2
Hastings †	xmbc	cbm	35	42	0.2	–	1.4
Folkestone	cm$_o$	cbcc	36	43	–	–	1.5
Dover	fbcm	mcbco	36	44	–	–	1.4
Deal	o	o	34	42	–	–	0.0
Tunbridge Wells	ofcmf	omcof	27	35	–	–	0.8
Ramsgate	cm	cm	39	44	Tr.	Tr.	0.0
Margate	c	cm	41	46	–	–	0.0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Tuesday, 23rd December 1930.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 23rd Dec., 1930.
1. S.E. England 2. E. England... 3. E. Midlands	Moderate or fresh southwesterly to westerly winds; cloudy, perhaps rain at times or showers; normal 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 11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland	Moderate or fresh southwesterly to westerly winds; cloudy, rain at times and showers; normal temperature.
15. N.E. Scotland 16. Orkneys and Shetlands.	Moderate or fresh southerly winds, finally becoming westerly; cloudy, some rain; normal temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 4 - 14.

GENERAL INFERENCE.

A depression centred off Northwest Scotland will move eastward and small associated secondaries are likely to cross the British Isles. Some rain at times is to be expected in most districts.

FURTHER OUTLOOK.

Rain at times or showers in most districts.

Forecasts issued at 0915 G.M.T.

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

H.M. Stationery Office Press, Kingsway, W.C.2. F= 2427/2183 M.26 D.5026 Gp.908. 3/30

WMP.

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

Morning of
TUESDAY
DECEMBER 23rd
1930.

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 the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 23rd December 1930.

No. 25,233

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

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)
Lerwick	54	1017.7	-40	S	2	c/r	45	95	7	6	2	-	4-6	10	1500
Stornoway ...	34	1014.1	-28	S	8	$d_2 d_0$	48	95	5	6	-	-	10	10	4000
Wick	81	1017.6	-34	SW	3	c	41	95	8	5	1	-	4-6	7-8	2500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head ...	51	1018.8	-38	S	6	id_0	43	95	7	6	-	-	9+	9+	1500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	1023.5	-30	SW	3	c	42	75	8	5	7	-	4-6	9	2500
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir ...	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth ...	67	1026.0	-24	SSW	2	0	42	85	7	5	-	-	10	10	1500
Blacksod Point ...	10	1019.9	-14	WSW	6	rr	49	95	6	6	-	-	10	10	<150
Aldergrove ...	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee ...	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle ...	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead... ...	26	1027.1	-24	SW	4	0	45	85	7	5	-	-	10	10	2500
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate... ...	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head ...	29	1028.9	-10	SW'S	3	0	37	95	6	5	-	-	10	10	2500
Birmingham ...	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1029.8	-18	SW'S	2	c	37	95	6	5	-	-	10	10	2500
Gorleston	14	1031.3	-16	-	0	F-	37	95	2	5	-	-	10	10	<150
Valentia Obs.† ...	30	1024.8	-26	SW	5	v	47	98	8	6	-	-	10	10	<500
Roches Point ...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke... ...	150	1028.9	- 8	SSE	3	0	44	85	7	5	-	-	10	10	2500
Ross-on-Wye ...	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington ...	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester ...	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew) ...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1030.8	-18	-	0	F	34	95	0	5	-	-	10	10	<150
Manston	185	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness ...	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1031.1	- 8	SW	2	c	44	85	7	5	-	-	9+	9+	4000
Falmouth... ...	200	1031.6	- 12	N'W	2	0	42	85	7	5	-	-	10	10	4000
Plymouth... ...	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill ...	32	1029.5	- 14	NE	3	c	42	85	6	4	-	-	10	10	2500
Calshot, S'hampton	8	1030.2	- 20	NW'N	1	of	40	95	3	5	-	-	10	10	1500
Dungeness ...	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1030.4	- 10	E'S	2	m	42	85	4	5	-	-	10	10	800
Guernsey	173	1029.2	- 16	-	0	0	46	85	8	5	-	-	10	10	2500

OBSERVATIONS at 7 hr. G.M.T. 23rd December

STATIONS.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
Lerwick	1011.0	-30	S'W	12	c	43	85	7	5	1	-	4-6	7-8	1500	1	*
Stornoway ...	1007.5	-26	SSW	3	c	46	95	6	3	-	-	7-8	7-8	4000	1	3
Wick	1010.9	-36	SSW	5	c	42	95	8	8	1	-	4-6	7-8	2500	0	3
Tiree	1011.3	-18	SW'W	4	c/pr	47	95	7	8	7	-	7-8	9	2500	1	3
Nairn	1010.8	•	-	0	bc	40	85	8	3	-	-	4-6	4-6	2500	0	*
Aberdeen	1014.1	-40	SW	4	$r_0 r_0$	39	85	7	6	-	-	10	10	1500	1	2
Malin Head ...	1013.4	-10	WSW	5	id_0	47	95	6	6	1	-	9	10	800	1	3
Renfrew	1015.7	-24	SW	4	ir	44	95	6	69	2	-	7-8	10	1500	1	*
Inchkeith (Edin.)	1016.4	-28	SW	3	$r_0 r_0$	44	85	8	6	2	-	4-6	9+	2500	1	1
Leuchars	1015.4	-44	SSW	4	ir_0	42	85	7	5	-	-	10	10	2500	1	*
Eskdalemuir ...	1017.5	-30	SW	5	rr	41	95	6	6	-	-	10	10	1500	1	*
Tynemouth ...	1019.8	-32	S	3	0	40	95	6	5	-	-	10	10	800	0	2
Blacksod Point ...	1016.9	-12	W	4	c	48	85	7	8	-	-	7-8	7-8	800	1	3
Aldergrove ...	1016.8	-30	S'W	4	$d_0 d_0$	43	95	6	5	-	-	10	10	450	1	*
Donaghadee ...	1016.7	-20	W'S	2	pr	43	95	7	5	-	-	9	9	1500	1	1
Birr Castle ...	1019.7	-22	SW	3	$r_0 r_0$	45	95	6	6	-	-	10	10	2500	1	*
Holyhead... ...	1020.3	-36	SW'S	5	ir_0	46	95	6	6	2	-	4-6	10	2500	1	2
Liverpool (Bidston)	1022.0	-20	SSE	4	c	39	85	7	5	-	-	7-8	7-8	2500	0	*
Chester (Sealand)	1022.9	-26	SSE	3	bc/r	39	85	7	5	-	-	4-6	4-6	2500	1	*
Harrogate... ...	1022.1	-26	S'E	3	ir_0	38	85	7	6	-	4	7-8	9	2500	1	*
Spurn Head ...	1024.5	-12	SW'S	4	0	38	95	5	5	-	-	10	10	2500	0	3
Birmingham ...	1025.2	-20	SSW	2	c	38	95	6	5	3	-	7-8	9	2500	1	*
Cranwell	1025.2	-22	SSW	2	0	36	95	6	5	-	-	10	10	4000	1	*
Gorleston	1026.1	-24	SW	2	c	41	95	8	-	2	-	0	9+	-	0	1
Valentia Obs.† ...	1021.3	-10	SW'W	4	ir_0	48	95	6	6	-	-	9	9	800	1	3
Roches Point ...	1021.3	-26	SW	4	id	48	95	7	5	-	-	10	10	800	1	5
Pembroke... ...	1023.7	-20	SW'W	4	bc	47	75	8	8	9	2	2-3	4-6	2500	1	2
Ross-on-Wye ...	1025.5	-16	-	0	3	39	85	6	5	-	-	10	10	2500	1	*
Leafield	1026.2	-14	-	0	of	34	95	2	5	-	-	10	10	2500	1	*
Cardington ...	1026.3	-20	SW	2	of	34	95	3	5	-	-	10	10	4000	1	*
Winchester ...	1026.5	-8	-	0	of	36	95	3	5	-	-	10	10	450	1	*
S. Farnborough ...	1026.5	-18	-	0	F	35	95	0	5	-	-	10	10	<150	1	*
London (Kew) ...	1026.5	-30	-	0	F	36	95	1	5	-	-	10	10	<150	1	*
Croydon	1026.3	-18	SSW	1	F-	36	95	1	5	-	-	10	10	<150	1	*
Manston																*
Shoeburyness ...	1027.0	-26	-	0	f	37	95	2	5	-	-	10	10	1500	1	*
Clacton-on-Sea ...	1026.7	-26	ESE	1	3	40	95	6	5	-	-	7-8	7-8	800	0	0
Felixstowe ...	1027.3	-20	S'E	1	m	40	95	4	5	-	-	10	10	2500	1	1
Scilly (St. Mary's)	1026.7	-18	WSW	3	c	45	85	7	5	-	-	9+	9+	4000	0	1
Falmouth... ...	1027.9	-8	-	0	0	44	85	7	5	-	-	10	10	4000	0	1
Plymouth... ...	1026.7	-16	N	2	0	42	75	7	5	-	-	10	10	450	1	0
Portland Bill ...	1026.0	-20	N	4	c	42	75	6	4	-	-	10	10	2500	1	2
Calshot, S'hampton	1026.4	-16	NW'N	2	of	40	95	2	5	-	-	10	10	450	1	0
Dungeness ...	•	•	SSE	2	bc	•	•	87	5	-	•	2-3	2-3	1500	*	1
Lympne	1026.5	-14	ESE	2	c	40	85	7	5	3	-	4-6	9+	2500	1	*
Guernsey	1026.6	-18	-	0	bc	42	85	7	5	-	-	4-6	4-6	2500	0	2

PAST 24 HOURS.

STATIONS.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 22nd Hrs. (36)
Lerwick	41	40	*	0.6	2	0.0
Stornoway ...	47	43	*	0.6	3	0.0
Wick	44	39	*	-	-	*
Tiree	45	43	40	0.5	3	0.0
Nairn	45	39	*	-	-	1.5
Aberdeen	44	38	35	-	Tr	0.8
Malin Head ...	43	40	*	-	5	0.0
Renfrew	46	39	37	Tr	2	0.0
Inchkeith (Edin.)	44	41	39	-	Tr	0.0
Leuchars	44	39	37	Tr	0.1	2.1
Eskdalemuir ...	41	35	34	Tr	2	0.0
Tynemouth ...	44	40	36	-	-	*
Blacksod Point ...	49	45	*	-	3	*
Aldergrove ...	41	37	36	Tr	1	0.0
Donaghadee ...	43	39	*	-	2	*
Birr Castle ...	41	40	39	-	0.1	0.0
Holyhead... ...	47	42	41	-	0.3	0.0
Liverpool (Bidston)	45	38	36	-	-	0.0
Chester (Sealand)	46	39	35	-	Tr	0.0
Harrogate... ...	42	38	35	-	0.1	0.0
Spurn Head ...	41	35	*	-	-	0.0
Birmingham ...	42	37	36	-	-	0.0
Cranwell	39	30	30	0.1	0.1	1.0
Gorleston	45	36	36	-	-	0.0
Valentia Obs.† ...	47	47	44	-	2	0.0
Roches Point ...	46	45	*	-	3	*
Pembroke... ...	45	42	*	-	Tr	0.0
Ross-on-Wye ...	42	38	36	-	-	0.0
Leafield	40	31	28	-	-	0.2
Cardington ...	39	30	27	0.1	Tr	0.3
Winchester ...	41	31	24	0.1	-	2.8
S. Farnborough ...	37	29	29	Tr	Tr	0.8
London (Kew) ...	36	31	29	-	Tr	0.0
Croydon	35	30	30	0.1	0.1	1.0
Manston						
Shoeburyness ...	43	32	30	-	-	2.8
Clacton-on-Sea ...	42	35	35	-	0.4	2.6
Felixstowe ...	38	34	32	Tr	-	0.9
Scilly (St. Mary's)	46	42	*	-	-	0.0
Falmouth... ...	45	41	*	-	-	1.0
Plymouth... ...	46	39	34	-	-	4.0
Portland Bill ...	45	39	*	-	-	*
Calshot, S'hampton	45	37	32	-	-	5.6
Dungeness ...			*			*
Lympne				Tr	Tr	
Guernsey	47	40	(38)28	-	-	1.5 / 1.0

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather Morning.	Weather Afternoon.	Weather Night. (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	0F	0F	0fx0fu	36	31	29	-	Tr	0.0	•	•	1
Croydon	244	bobff x	bofffx	0ffe	35	30	30	-	0.3	0.0	•	•	0
Greenwich (Royal Observatory) ...	149	ofbf	bfFFx	ffx0ffe	40	32	24	Tr	Tr	0.0	99	96	1
City (Bunhill Row)....	—	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	39	33	30	-	-	0.0	98	96	•
Regents Pk. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	xf	cf	•	40	33	25	-	-	•	•	97	•
Kensington Palace	80	bxfbcf	bcfof	•	38	33	26	-	Tr	•	At 18h. 92	96	•
Hampstead Observatory	450	bc m	ofuf	•	40	34	33	Tr	Tr	2.1	•	78	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

South Kensington.			
Max.	Time.	Min.	Time.
4.0	20h 22nd	1.3	4h 23rd

Kew Observatory.			
Max.	Time.	Min.	Time.
3.2	20h 22nd	0.6	7h 22nd

FOREIGN OBSERVATIONS.

STATIONS.	18h. G.M.T. 22nd December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 23rd December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1031.1	ENE	2	0	45	1026.7	NE	2	m	36
Brussels	1031.8	NE	2	b	41	1026.6	E	2	F	28
Berlin	1027.8	NW	3	b	37	1028.0	NW	2	m	32
Zürich	1029.6	E	1	m	27	1024.4	E	1	m	28
Rome	1014.5	NNE	3	c	45	1004.8	NNE	5	0	50

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
45	34	-	-
46		-	-
41	32	-	-
27		-	
		-	

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 24th December 1930.

No. 25,234.

OBSERVATIONS at 13h. G.M.T. 23rd December

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)
Lerwick	1006·8	-2·0	SSW	1	ir₀	44	95	7	6	2	-	4-6	9	1500
Stornoway ...	1005·8	-6	WSW	2	ir	46	95	8	6	1	-	9+	10	4000
Wick	1006·6	-1·6	SSW	4	c	44	95	8	8	1	-	7-8	9	1500
Tiree	1009·7	-7·2	W	4	c/p	47	95	7	8	7	1	7-8	9	1500
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1009·0	-3·0	SSW	3	ir₀	43	95	7	6	7	-	2-3	9+	1500
Malin Head ...	1011·6	-·8	WSW	4	6c/d	47	95	7	9	8	-	4-6	4-6	1500
Renfrew	1011·4	-1·8	SSW	2	ir	46	95	7	9	2	-	9	10	800
Inchkeith (Edin.)	1011·2	-2·6	SW	4	c	46	95	7	7	7	-	4-6	7-8	1500
Leuchars	1010·4	-2·6	SW	3	c	45	85	7	6	3	-	4-6	9	1500
Eskdalemuir ...	1012·2	-2·8	W	5	c/d	43	95	7	5	3	-	9+	9+	800
Tynemouth ...	1013·7	-2·8	SSW	4	6c	41	85	6	2	.	-	4-6	4-6	2500
Blacksod Point ...	1015·6	-·8	W	4	c	48	85	8	8	8	-	2-3	7-8	1500
Aldergrove ...	1013·5	-2·2	SW	4	6r	43	95	7	6	-	-	9+	9+	800
Donaghadee ...	1013·8	-1·6	SW	2	c	46	85	7	5	-	-	7-8	7-8	1500
Birr Castle ...	1017·7	-1·2	SW	1	rr	46	95	6	6	-	-	10	10	2500
Holyhead... ...	1015·9	-2·2	SWW	5	c/d	48	95	7	6	-	-	9+	9+	800
Liverpool (Bidston)	1016·6	-1·2	SW	4	c	46	85	8	8	-	-	9	9	2500
Chester (Sealand)	1017·7	-1·0	SW	4	c	48	75	7	5	-	-	7-8	7-8	1500
Harrogate... ...	1017·0	-1·0	S	3	m	40	85	4	5	-	-	9	9	1450
Spurn Head ...	1018·6	-1·6	SW	4	c	40	85	6	5	3	-	4-6	9+	2500
Birmingham ...	1020·1	-1·2	SW	4	c	40	85	6	5	3	-	4-6	7-8	2500
Cranwell	1019·9	-1·2	SSW	3	c	40	85	6	5	-	-	9+	9+	4000
Gorleston	1021·3	-2·6	W	3	ir	41	95	6	6	-	-	10	10	1500
Valentia Obs. ...	1018·8	-1·8	WSW	3	id₀	49	95	7	5	-	-	9+	9+	800
Roches Point ...	1018·5	-2·0	W	3	c	49	95	8	5	-	-	7-8	7-8	1500
Pembroke... ...	1019·0	-2·4	SWW	5	c/d	47	95	7	9	-	-	10	10	1500
Ross-on-Wye ...	1020·2	-2·8	SW	3	c	43	85	7	5	-	-	9+	9+	2500
Leafield	1021·3	-2·6	SSW	4	c	38	85	6	5	-	-	9+	9+	5700
Cardington ...	1021·2	-3·6	SW	3	c	41	95	6	5	-	-	9	9	4000
Winchester ...	1022·7	-3·0	SE	3	z	40	85	5	5	-	-	10	10	4000
S. Farnborough ...	1022·4	-3·8	S	2	c/f-	39	95	5	5	-	-	10	10	2500
London (Kew) ...	1022·5	-4·0	S	1	f-	39	95	4	5	-	-	10	10	1450
Croydon	1022·9	-7·2 -3·2	S	3	f/f	39	95	5	5	-	-	10	10	800
Manston														
Shoeburyness ...	1023·4	-1·4	SSW	3	c	44	95	6	5	2	-	7-8	10	4000
Clacton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe ...	1023·7	-2·2	SW	3	ir₀	44	95	6	6	2	-	7-8	10	2500
Scilly (St. Mary's)	1022·6	-2·8	SWW	5	c	50	75	8	8	8	-	9	9	4000
Falmouth... ...	1023·8	-2·2	SWW	4	c	48	75	8	9	3	-	4-6	7-8	4000
Plymouth... ...	1022·5	-1·2	SW	3	0	47	85	7	5	-	-	10	10	2500
Portland Bill ...	1022·0	-1·8	W	3	c	46	65	7	4	7	-	4-6	10	2500
Calshot, S'hampton	1022·8	-1·4	SSE	2	m	42	85	4	5	-	-	10	10	2500
Dungeness ...	*	*	S	3	c	*	*	7	4	-	*	9+	9+	2500
Lympne	1022·8	-3·0	SW	2	c	41	85	7	4	-	-	9	9	4000
Guernsey	1023·4	-2·6	-	0	0	45	75	6	5	-	-	10	10	2500

OBSERVATIONS at 18h. G.M.T. 23rd December

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)
Lerwick	1005·7	-6	SSW	1	o/d	44	85	6	6	-	-	10	10	1500	1	*
Stornoway ...	1005·2	0	WNW	3	6c/d	46	95	7	6	-	-	4-6	4-6	4000	2	1
Wick	1004·9	-6	SSW	3	c	43	95	8	8	2	-	7-8	9	1500	1	3
Tiree	1009·3	+2	WNW	4	c	47	95	7	5	7	-	4-6	7-8	2500	1	3
Nairn	1005·6	*	W	1	r	44	95	7	6	-	-	9	9	1500	1	*
Aberdeen	1006·8	-8	SSW	3	c	44	95	6	6	3	-	4-6	7-8	1500	1	1
Malin Head ...	1011·0	0	W'N	4	6c/p	46	95	7	9	-	-	4-6	4-6	1500	1	3
Renfrew	1009·7	-2	W'S	2	c	43	95	7	8	1	-	2-6	10	1500	1	*
Inchkeith (Edin.)	1008·7	-3	SSW	4	6c	45	95	7	5	-	-	2-3	(2-3)	2500	0	2
Leuchars	1008·3	-6	WSW	2	6c	42	95	6	-	7	-	0	2-3	-	1	*
Eskdalemuir ...	1009·9	-1·2	W'S	4	c	42	95	7	5	-	-	7-8	7-8	800	1	*
Tynemouth ...	1011·3	-3	SSW	2	o/r	42	95	7	6	-	-	10	10	1500	1	2
Blacksod Point ...	1011·2	-1	W	4	c	46	95	7	8	-	-	7-8	7-8	4000	0	3
Aldergrove ...	1012·4	-1·4	SW'S	3	c	43	95	7	5	-	-	9	9	800	1	*
Donaghadee ...	1011·9	-3	SSW	1	6c	44	95	7	5	2	-	4-6	4-6	2500	1	0
Birr Castle ...	1015·3	-4	SSW	1	c	43	95	7	-	7	-	0	9	-	1	*
Holyhead... ...	1014·1	-6	W	5	p/r	48	85	7	6	-	-	9+	9+	1500	1	2
Liverpool (Bidston)	1013·7	-1·6	WSW	3	ir₀	44	85	7	9	-	-	7-8	7-8	1500	1	*
Chester (Sealand)	1015·2	-3	SSW	1	6c	44	85	6	5	-	-	2-3	2-3	1500	1	*
Harrogate... ...	1013·5	-1·4	SSW	2	r₀r₀	42	95	5	5	-	-	10	10	1450	1	*
Spurn Head ...	1014·5	-1·2	SSW	4	p/r	40	95	6	6	2	-	7-8	10	2500	1	3
Birmingham ...	1016·6	-1·8	SSW	3	c/p/r	40	95	7	5	-	-	7-8	7-8	2500	1	*
Cranwell	1016·2	-2·0	SW'S	4	c/r	39	95	6	5	-	-	10	10	2500	1	*
Gorleston	1018·8	-1·8	WSW	3	0	40	85	6	6	-	-	10	10	2500	1	2
Valentia Obs. ...	1017·5	-6	NW	3	6c/p	47	95	8	5	-	-	2-3	2-3	800	1	3
Roches Point ...	1016·4	-1·4	W	3	c	49	85	8	3	-	-	9	9	1500	1	4
Pembroke... ...	1016·5	-1·0	SW'W	5	c/r	48	95	7	9	1	-	4-6	7-8	1500	1	2
Ross-on-Wye ...	1017·2	-1·6	SSW	3	c	43	85	6	5	1	-	7-8	10	2500	1	*
Leafield	1016·1	-2·0	SSW	5	c	39	85	7	5	-	-	7-8	7-8	4000	1	*
Cardington ...	1018·1	-1·4	SW'S	3	o/pr	40	85	6	6	-	-	10	10	2500	1	*
Winchester ...	1019·5	-1·4	SE	2	m	40	95	4	5	-	-	10	10	4000	1	*
S. Farnborough ...	1019·5	-1·4	SW	3	o	40	85	6	5	-	-	10	10	1500	1	*
London (Kew) ...	1019·3	-1·6	SSW	3	m	40	95	4	5	-	-	9+	9+	1500	1	*
Croydon	1020·0	-1·2	SW	3	z	39	95	5	5	-	-	9	9	2500	1	*
Manston																*
Shoeburyness ...	1019·9	-1·4	SW	3	o	40	85	6	5	-	-	10	10	1500	0	*
Clacton-on-Sea ...	1020·2	-2·0	S	3	c	41	95	7	5	-	-	7-8	7-8	4450	0	2
Felixstowe ...	1020·0	-1·8	SW	2	z	41	95	6	5	-	-	10	10	1500	1	2
Scilly (St. Mary's)	1018·8	-1·6	W	4	rr	48	95	5	6	-	-	10	10	2500	1	3
Falmouth... ...	1020·8	-1·8	SWW	4	id	47	95	6	6	-	-	10	10	2500	1	2
Plymouth... ...	1019·3	-1·6	SW	5	c	48	85	7	5	-	-	10	10	2500	1	2
Portland Bill ...	1019·4	-1·0	SW	4	c	48	75	8	4	-	-	9+	9+	2500	1	2
Calshot, S'hampton	1020·3	-1·0	S'W	2	c	44	85	6	5	-	-	9+	9+	2500	1	1
Dungeness ...	*	*	SW	2	0	*	*	7	5	-	*	10	10	2500	*	1
Lympne	1020·1	-1·4	SSW	2	z	39	85	6	5	2	-	7-8	10	2500	1	*
Guernsey	1021·0	-1·0	WNW	1	0	46	75	6	5	-	-	10	10	2500	0	2

PAST 24 HOURS.

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)
Lerwick	c o i r	c o i r₀ d₀ m₀	o i x₀ n₀	c
Stornoway ...	o i d, c	o i d b c	b e p r	b c
Wick	c	c r₀ r	c d d c	c b c
Tiree	c b₀ p r b d₀ c	c p d₀	i r₀ b c	j d₀
Nairn	b c	b c c r	r c	c
Aberdeen	o r r c i r₀	c i r₀ b c	b c 3₀	b c r₀
Malin Head ...	c O i r b c	b c c p r	b c c i d a₀ f₀	b c i d₀
Renfrew	r₀ r₀ c, r	c r m₀ c	c b c	b c w n₀
Inchkeith (Edin.)	c p r	c p r b c	b c	c b c
Leuchars	c i r₀ c	c b c m₀	b c w n₀	b c n₀ b c w
Eskdalemuir ...	o r r c d c	c d r₀ c	c c i r₀	c o i r₀ b c
Tynemouth ...	o b c	b c o i r₀	o b c	b c
Blacksod Point ...	b c	p c	p c	p c c
Aldergrove ...	o d₀ d₀	c p i r c b c	c b c c	c b c
Donaghadee ...	c i r₀ c	c b c	b b c	b c c
Birr Castle ...	o r c i r r r	o r c	c o	o r₀ c b c
Holyhead... ...	i r₀ i d₀ m₀	p r₀ p r	p r₀ b c c	c
Liverpool (Bidston)	c i r c	c r r₀ c	r₀ c c v	c c o r₀
Chester (Sealand)	b c c m₀ c	i r₀ c p r₀	b c c i r₀	b c c
Harrogate... ...	c r₀ b c c m	c o m r₀ r₀	o c i r	o b i r
Spurn Head ...	b c	p r	c p r₀ c b c	c p r₀ b c
Birmingham ...	b c c	c p r₀ c	c o r₀ c	c
Cranwell	b c c p r₀	c o i r m₀	c m₀ r₀	c m₀ r₀
Gorleston	c o r₀	o r₀ o	o r₀ r₀	o r₀ r₀ o
Valentia Obs. ...	c i r₀ o i d i d	c i d₀ c p b d c	b c c p r₀	c
Roches Point ...	o i d c	c p₀ c	c w	c b c w
Pembroke... ...	c p₀ o i d	c i r q	c i r q	c b c c
Ross-on-Wye ...	c	c	c o d₀ d₀	o n b c f
Leafield	c	c	b c r₀ c	c i r f c
Cardington ...	c m₀	c m₀ p r	c m₀ r₀ c	c m₀
Winchester ...	o f f o m₀	c m₀	c m d₀ r₀	o r o f f
S. Farnborough ...	~~o m d c~~	c f c r₀ o	o c m₀ d₀ c o	o m₀ r m
London (Kew) ...	o f d₀ o f	c p c m	c m c a₀ d₀	c m₀ i d₀
Croydon	o f e f e d₀	o f d₀ c m m₀	c o m₀	c r₀ d₀
Manston				
Shoeburyness ...	f	o m₀	o m₀	c r₀ b c m
Clacton-on-Sea ...	c m c	c	c o	o r o
Felixstowe ...	o m₀ c r₀	c i r₀ m₀	c m₀ d₀	o r n₀
Scilly (St. Mary's)	c	c p o r	o r c f₀	b c e p
Falmouth... ...	o c b c	b l o i d m₀	o i d a₀ b c	b c
Plymouth... ...	o c z	c	c o d d₀ m b	b o f c
Portland Bill ...	c	c	c i r₀ r₀	o r₀ r₀ c
Calshot, S'hampton	o f e m	c m c m₀	c m₀ b c c	c c r₀ r₀ r c
Dungeness ...	b c	o	*	p
Lympne	c	c m₀	c b b c m₀	c o d₀ p r f
Guernsey	b c c o	o	o p r k	o p r i r

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EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

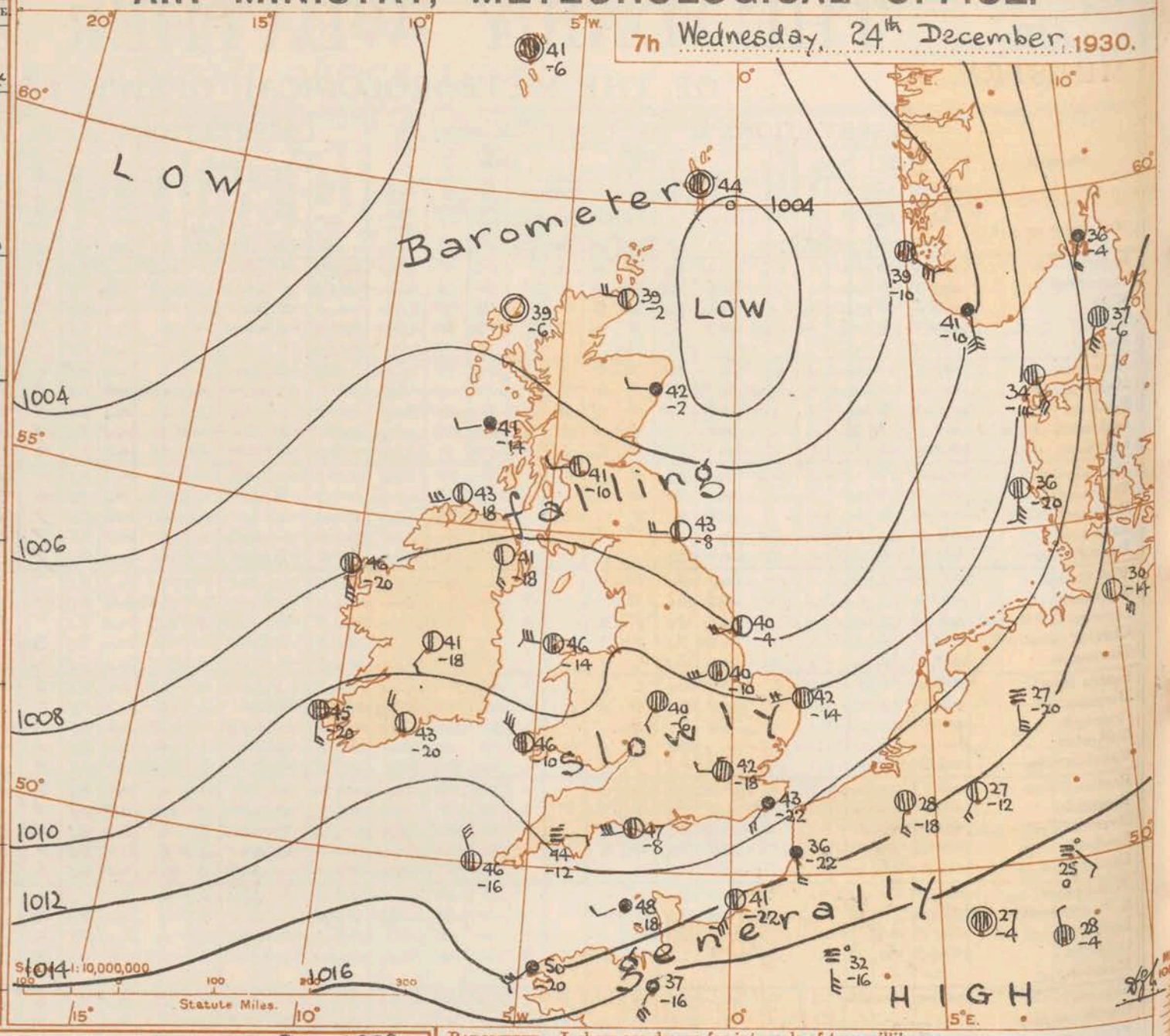
REPORTS from HEALTH RESORTS for 23rd December 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 22nd to 9h. 23rd	TEMPERATURE. Max. 9h.—17h. 23rd	RAINFALL. Night. 17h. 22nd to 9h. 23rd	RAINFALL. Day. 9h.—17h. 23rd	SUNSHINE. Sunrise to Sunset. 23rd
Dunbar	bc	bcc	40	48	-	Trace	2·7
Berwick-on-T.	ocbc	bcc	39	46	-	-	1·9
Douglas	orRmcb	circb	39	48	3	2	1·3
Llandudno	cir	cid	41	49	1	0·3	1·4
Colwyn Bay	obbcb	bror	40	52	-	1	1·5
Rhyl	cbc	bccpr	39	50	-	1	2·6
Wallasey	o	err	39	48	-	2	0·0
Southport ‖	od	dorc	39	46	0·2	1	0·0
Blackpool	oro	odc	40	47	1	4	0·2
Morecambe	rror	orro	39	45	1	7	0·0
Ilkley	bccm	oro	35	43	-	0·6	0·0
Cleethorpes	cwco	roo	32	40	Trace	1	0·0
Mablethorpe	ocm	cocm	31	41	-	1	0·4
Skegness	obcm	mod	32	42	Trace	Trace	0·9
Aberystwyth	c	cir	41	47	-	4	0·0
Bath	mc	c	33	45	-	-	0·0
Cheltenham †	cmoc	coc	36	44	-	-	0·0
Leamington Spa	bcc	or	35	42	-	0·3	0·8
Lowestoft	bcco	idoco	36	42	-	0·5	0·0
Dovercourt	oc	oc	34	41	Trace	-	0·0
Maldon	fo	do	33	41	-	Trace	0·0
Southend	or	o	34	41	Trace	Trace	0·0
Ilfracombe	o	or	40	48	-	1	0·0
Bude	co	comd	39	48	-	0·5	0·0
St. Ives	c	o	41	49	-	-	0·2
Penzance	c	com	42	51	-	-	0·3
Torquay	omo	cocm	36	46	-	-	0·1
Jersey	bf	bcc	37	47	-	-	4·7
Weymouth	mc	c	35	47	-	-	0·0
Bournemouth	o	o	33	44	0·3	-	0·0
Ventnor	fouo	oz	40	43	-	-	0·0
Southsea	ofm	omo	36	43	-	-	0·0
Bognor Regis	fco	co	36	42	-	-	0·0
Littlehampton	cfc	c	34	41	Trace	-	0·0
Worthing	co	o	35	45	Trace	-	0·0
Brighton	co	c	36	45	-	-	0·0
Eastbourne †	o	o	37	43	1	-	0·0
Hastings †	bco	o	40	43	0·4	-	0·0
Folkestone	c	cod	38	44	-	-	0·4
Dover	c	co	38	43	-	-	1·2
Deal	co	oco	37	42	-	-	0·3
Tunbridge Wells	odo	o	29	40	2	2	0·0
Ramsgate	co	o	41	42	Trace	-	0·0
Margate	c	c	40	43	-	-	0·0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Wednesday, 24th December 1930.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 24th Dec. 1930.
1. S.E. England	All Districts.
2. E. England	Light or moderate winds between south and west; cloudy with brighter intervals, but occasional rain or showers; rather mild during day, slight ground frost at night, local mist or fog at night and in early morning.
3. E. Midlands	
4. W. Midlands	
5. S.W. England	
6. South Wales	
7. North Wales	
8. N.W. England	
9. N. Midlands	
10. N.E. England	
11. S.E. Scotland	
12. S.W. Scotland & Isle of Man	
13. A. W. Scotld. / B. N.W. Scotland.	
14. Mid-Scotland	
15. N.E. Scotland	
16. Orkneys and Shetlands.	
17. N.W. Ireland	
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	

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

GENERAL INFERENCE.

Disturbances crossing the British Isles from west to east will maintain mild, unsettled conditions generally with rain at times in most districts.

FURTHER OUTLOOK.

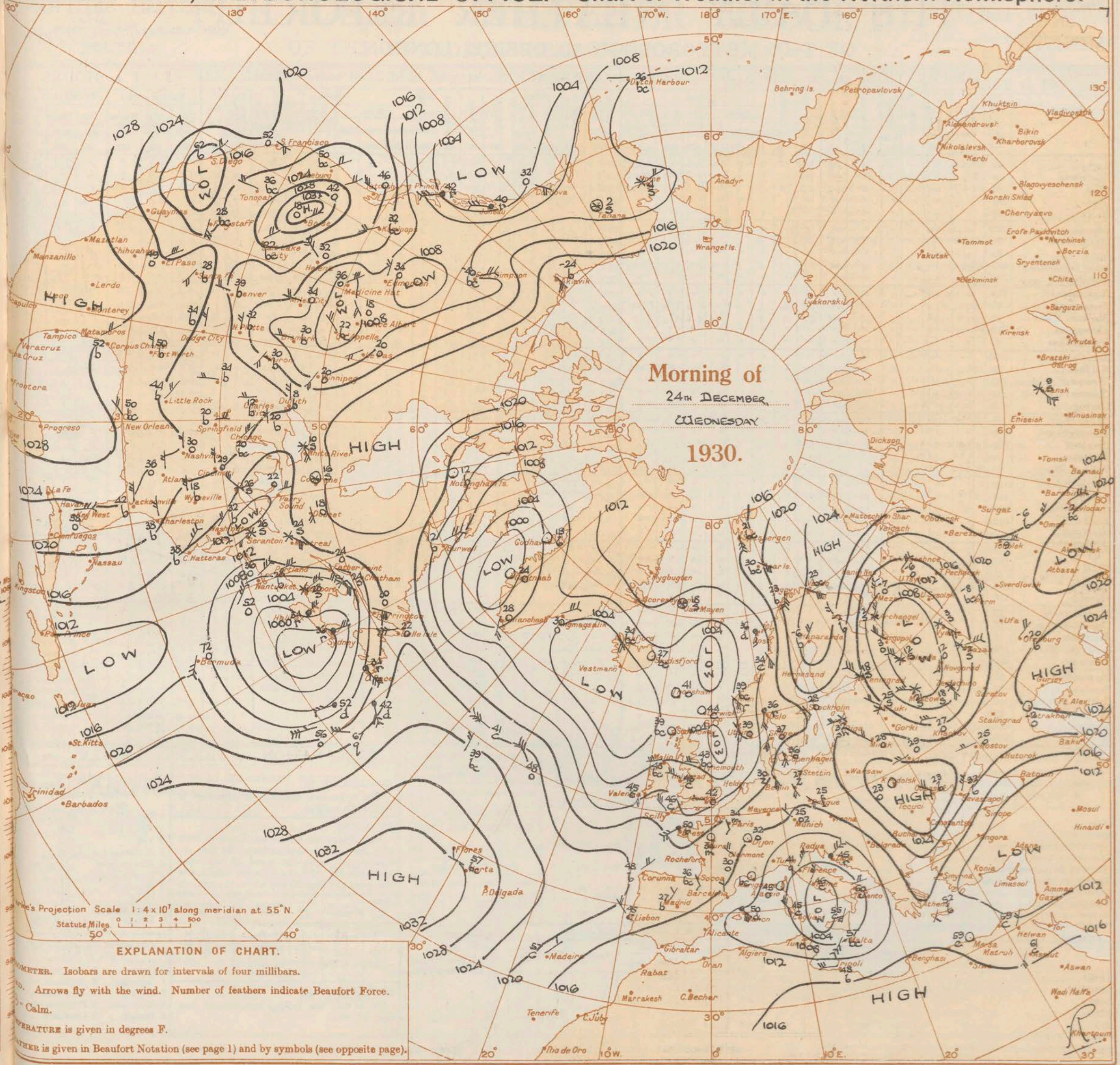
Rather unsettled and mainly mild with some rain at times but brighter intervals.

Forecasts issued at 1000 G.M.T.

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

H.M. Stationery Office Press, Kingsway, W.C.2.
F-2497/2165 m 26 D.6026 Gp. 908. 3/31

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

○ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 24th December 1930.

No. 25,234

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

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)
Lerwick	54	1005.0	0	-	0	c	44	95	7	5	2	-	4-6	10	1500
Stornoway	34	1006.1	-2	NNW	1	bc	43	95	7	3	-	-	2-3	2-3	4000
Wick	81	1004.7	0	WNW	2	c	42	95	8	3	1	-	4-6	7-8	1500
Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Nairn	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Malin Head	51	1009.9	-4	W'N	3	bc/d	45	95	7	9	-	-	2-3	2-3	1500
Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Inchkeith (Edin.)	190	1007.4	-2	SW	4	c	44	95	7	5	2	-	2-3	7-8	1500
Leuchars	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Tynemouth	67	1008.5	-2	W	2	bc	45	85	6	2	-	-	4-6	4-6	2500
Blacksod Point	10	1011.9	-10	W	3	bc	45	85	7	5	-	-	4-6	4-6	450
Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Holyhead	26	1012.3	-4	W'N	4	c	47	95	7	5	-	-	9+	9+	1500
Liverpool (Bidston)	189	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Spurn Head	29	1010.4	-10	W	3	bc	41	95	6	3	-	-	4-6	4-6	4000
Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cranwell	241	1011.8	-12	WSW	3	bc/r	40	98	6	5	-	-	4-6	4-6	2500
Gorleston	14	1013.7	-16	WSW	4	r	40	98	6	6	-	-	10	10	1500
Valentia Obs.†	30	1015.3	-10	W'N	3	o	48	95	8	6	-	-	10	10	1500
Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Pembroke	150	1013.2	-4	NW	3	c	47	85	8	8	2	-	8	10	2500
Ross-on-Wye	228	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Winchester	272	*	*	*	*	*	*	*	*	*	*	*	*	*	*
S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Croydon	244	1014.8	-26	SSW	4	3	41	95	6	5	-	-	10	10	800
Manston	135	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Clacton-on-Sea	55	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Scilly (St. Mary's)	163	1015.6	-18	NW	4	bc	48	95	7	8	-	-	4-6	4-6	4000
Falmouth	200	1016.1	-16	W'S	2	bc	47	95	7	8	-	-	4-6	4-6	4000
Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Portland Bill	32	1013.8	-24	SW	5	o/r	49	78	8	5	-	-	10	10	1500
Calshot, S'hampton	8	1015.0	-22	SSW	3	c	47	88	8	5	-	-	9+	9+	2500
Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lympne	347	1015.4	-22	SW	2	3	40	95	5	5	-	-	10	10	1500
Guernsey	173	1016.9	-24	SW	2	r	46	98	6	6	-	-	10	10	1500

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

Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
Lerwick	1004.6	0	-	0	c	44	95	7	5	2	-	2-3	9	1500	1	*
Stornoway	1005.1	-6	-	0	b	39	95	5	-	-	-	0	0	-	1	0
Wick	1004.3	-2	WNW	2	bc	39	95	8	8	1	-	2-3	4-6	1500	1	2
Tiree	1006.4	-14	WSW	1	id	41	95	6	5	2	-	4-6	7-8	800	1	2
Nairn	1004.9	*	-	0	c	43	95	7	5	-	-	7-8	7-8	1500	0	*
Aberdeen	1004.7	-2	W	1	d	42	95	7	6	-	-	7-8	7-8	800	1	1
Malin Head	1006.6	-18	WSW	3	bc/d	43	95	7	9	-	-	2-3	2-3	1500	1	2
Renfrew	1006.7	-10	W	1	bc	41	95	6	5	-	-	4-6	4-6	2500	1	*
Inchkeith (Edin.)	1006.3	-6	WSW	3	c	48	95	7	5	2	-	4-6	10	2500	0	1
Leuchars	1006.2	-2	WSW	3	c	39	95	7	4	7	-	2-3	7-8	4000	1	*
Eskdalemuir	1006.7	-8	-	0	c	39	95	7	5	-	-	7-8	7-8	1500	1	*
Tynemouth	1006.6	-8	W	2	bc	43	95	7	2	-	-	4-6	4-6	2500	0	1
Blacksod Point	1007.9	-20	S	3	c	46	85	7	5	-	-	9	9	800	1	3
Aldergrove	1008.3	-18	S'W	2	bc	41	95	7	5	-	-	4-6	4-6	1500	1	*
Donaghadee	1008.2	-12	WSW	2	c	42	95	7	5	-	-	9	9	800	1	1
Birr Castle	1008.0	-18	SW	1	bc	41	95	8	5	-	-	4-6	4-6	2500	1	*
Holyhead	1009.4	-14	W'N	4	c	46	85	7	5	-	-	9+	9+	2500	1	2
Liverpool (Bidston)	1008.6	-10	WSW	3	r	43	95	8	6	-	-	10	10	1500	1	*
Chester (Sealand)	1010.0	-8	WSW	2	c	43	85	7	5	-	-	9	9	1500	1	*
Harrogate	1008.0	-10	SW'W	3	b	40	95	7	6	3	-	Tr	Tr	2500	1	*
Spurn Head	1007.6	-4	W'S	2	bc	40	95	6	6	1	-	2-3	4-6	4000	1	3
Birmingham	1010.4	-6	SW	1	0	40	95	8	5	-	-	10	10	2500	1	*
Cranwell	1009.3	-10	WSW	3	c	40	95	6	6	2	-	4-6	10	1500	1	*
Gorleston	1010.1	-14	W	2	0	42	95	6	6	-	-	10	10	1500	1	1
Valentia Obs.†	1010.2	-20	S'W	2	0	45	85	8	5	-	-	10	10	2500	1	3
Roches Point	1011.2	-20	NW	2	bc	43	95	8	5	-	-	2-3	2-3	1500	0	2
Pembroke	1010.3	-10	NW	3	c	46	85	8	8	2	-	4-6	9+	2500	1	2
Ross-on-Wye	1010.7	-10	-	0	cf	38	95	1	5	-	-	9+	9+	1500	1	*
Leafield	1010.4	-10	SW	3	F	41	95	1	5	-	-	10	10	1150	1	*
Cardington	1010.4	-6	W'S	2	0	41	95	6	5	-	-	10	10	2500	1	*
Winchester	1011.1	-8	-	0	of	41	95	1	5	-	-	10	10	1150	1	*
S. Farnborough	1011.0	-10	W	1	m	42	95	4	5	-	-	10	10	220	1	*
London (Kew)	1011.0	-12	W	2	c	43	95	5	5	-	-	9+	9+	2500	1	*
Croydon	1011.4	-18	W	1	3	42	95	6	5	-	-	10	10	1500	1	*
Manston																*
Shoeburyness	1011.1	-26	W	1	m	41	95	4	5	4	-	2-3	4-6	1500	1	*
Clacton-on-Sea	1010.9	-20	SW	3	0	42	95	6	5	-	-	10	10	450	0	2
Felixstowe	1011.1	-20	SSW	2	c	42	95	5	5	-	-	10	10	800	1	1
Scilly (St. Mary's)	1012.8	-16	NW'N	3	c	46	95	8	2	-	-	7-8	7-8	4000	1	1
Falmouth	1013.0	-10	W	3	bc	44	95	8	2	-	-	2-3	2-3	4000	1	1
Plymouth	1011.8	-12	E	1	f	44	95	3	5	-	-	10	10	1150	1	0
Portland Bill	1011.1	-8	W	3	c	47	85	8	8	-	-	7-8	7-8	1500	1	3
Calshot, S'hampton	1011.4	-12	SW	3	c	44	95	8	5	-	-	9	9	1500	1	1
Dungeness																
Lympne	1010.9	-22	SW	2	df	43	85	1	5	-	-	10	10	1150	1	
Guernsey	1012.8	-18	WSW	1	ir	48	95	6	6	-	-	10	10	1500	2	5

PAST 24 HOURS.

Stations.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 23rd Hrs. (36)
Lerwick	45	43	*	1	0.1	0.0
Stornoway	47	39	*	6	2	0.0
Wick	44	39	*	1	0.5	*
Tiree	47	40	31	0.4	1	0.2
Nairn	46	43	*	1	1	0.9
Aberdeen	44	38	32	2	0.2	0.0
Malin Head	48	42	*	2	1	0.9
Renfrew	47	41	37	5	Tr	0.2
Inchkeith (Edin.)	47	42	40	0.3	-	1.9
Leuchars	47	38	33	0.1	Tr	1.2
Eskdalemuir	43	39	32	10	1	0.0
Tynemouth	43	42	36	0.2	-	*
Blacksod Point	49	43	*	1	2	*
Aldergrove	46	39	36	0.6	-	0.2
Donaghadee	47	41	*	0.2	-	*
Birr Castle	47	39	32	2	0.2	0.0
Holyhead	48	45	43	2	0.2	0.2
Liverpool (Bidston)	46	42	39	2	1	0.0
Chester (Sealand)	48	38	33	Tr	0.1	0.1
Harrogate	42	39	33	0.3	1	0.0
Spurn Head	42	39	*	1	Tr	0.3
Birmingham	40	39	37	0.1	0.5	1.4
Cranwell	41	39	37	1	0.3	0.6
Gorleston	45	39	36	0.2	1	0.0
Valentia Obs.†	49	44	41	0.6	0.3	0.6
Roches Point	50	42	*	Tr	Tr	*
Pembroke	49	45	*	1	0.1	0.4
Ross-on-Wye	44	37	29	-	1	0.0
Leafield	39	38	36	-	0.6	0.0
Cardington	42	39	35	0.1	Tr	0.7
Winchester	40	38	36	Tr	1	0.0
S. Farnborough	40	39	29	0.1	1	0.0
London (Kew)	40	40	38	Tr	Tr	0.0
Croydon	41	39	35	0.2	0.3	0.0
Manston	41	39	37	1	0.3	0.6
Shoeburyness	42	38	35	-	0.3	0.0
Clacton-on-Sea	43	40	38	-	1	0.0
Felixstowe	42	39	38	0.1	0.5	0.0
Scilly (St. Mary's)	52	45	*	2	3	1.1
Falmouth	49	44	*	0.2	0.6	0.1
Plymouth	49	44	41	-	0.6	0.1
Portland Bill	48	46	*	-	1	*
Calshot, S'hampton	44	32	32	Tr	3	0.0
Dungeness						
Lympne	43	39	*	-	0.6	
Guernsey	41	37	30	-	1	0.0
	46	45	41	-	3	1.5

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night mm.	Sunshine to Sunset, hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility. 9h. (To-day.)
Kew	18	of d_3 of	open	ca c_4 d_3 d_2	40	40	38	Tr	Tr	0.0	*	*	6
Croydon	244	of e_2 fe d_2	of d_3 con $_4$	con $_5$ o_5 d_3	41	39	35	0.2	0.3	0.0	*	*	4
Greenwich (Royal Observatory)	149	of d	of d c $_4$	cra $_3$ caf	40	39	29	0.3	0.3	0.0	94	92	3
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	44	38	36	0.4		0.0	86	93	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	116	f	c f c	*	40	40	34	-	0.3	*	*	94	*
Kensington Palace	80	of c f	of o_5	*	42	41	34	-	0.4	*	At 18h. 83	93	*
Hampstead Observatory	450	of	of	*	41	38	35	Tr	0.3	0.0	*	95	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
1.7	10hn 23rd	0.3	0-7hn 24th

Kew Observatory. Max.	Time.	Min.	Time.
2.2	8hn 23rd	0.1	1-4hn 24th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 23rd December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 24th December. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1021.5	-	0	m	34	1016.3	SSE	1	m	34
Brussels	1021.2	SSE	2	o	30	1013.7	SSW	2	3	28
Berlin	1024.2	SE	1	f	34	1017.0	SSE	2	3	27
Zürich	1019.6	NE	1	3	30	1016.7	N	1	o	28
Rome	1003.9	NNE	5	bc	48	1004.3	NNE	3	c	46

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
37	30	-	-
30	27	-	-
39	27	-	-
30	28	-	-
57	46	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

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

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thurs day 25th December 1930.

No. 25,235

OBSERVATIONS at 13h. G.M.T. 24th December

Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
Lerwick	1004·m	-m	SSE	1	c	m	85	8	5	7	-	m-6	7-8	1500
Stornoway ...	1003·1	-10	-	0	c	m0	95	9	2	-	-	9	9	m000
Wick	1004·1	-6	WNW	2	c	m2	85	8	9	-	-	9	9	1500
Tiree	1003·3	-18	SSE	2	6c	m7	95	8	8	9	-	2-3	2-3	1500
Nairn	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	1003·9	-10	WNW	3	c	m83	95	8	5	-	-	9	9	2500
Malin Head ...	1003·5	-18	S	2	c	m3	95	7	5	3	-	7-8	9+	1500
Renfrew	1004·9	-1m	-	0	c	m3	95	6	5	-	-	10	10	1500
Inchkeith (Edin.)	1005·0	-1m	W	2	2	m3	95	5	5	8	-	m-6	m-6	2500
Leuchars	1004·7	-10	SW	2	c	m1	85	6	5	6	-	m-6	7-8	2500
Eskdalemuir ...	1004·5	-1m	-	0	c	m2	85	8	7	-	-	9	9	1500
Tynemouth ...	1004·8	-12	W	2	6c	m5	85	7	2	-	-	m-6	m-6	2500
Blacksod Point ...	1001·9	-20	S	m	c/p	m8	85	7	5	-	-	9+	9+	220
Aldergrove ...	1005·1	-18	SSW	3	0	m2	95	6	5	-	-	10	10	800
Donaghadee ...	1005·m	-12	WSW	1	c	m3	95	7	5	-	-	9	9	800
Birr Castle ...	1004·9	-2m	S	1	c	m3	95	8	5	2	-	9	10	2500
Holyhead	1006·6	-16	SSW	2	c	m6	75	8	5	-	-	10	10	m000
Liverpool (Bidston)	1005·9	-16	SSW	2	c/o	m3	85	8	6	-	-	10	10	1500
Chester (Sealand)	1007·0	-20	WSW	2	c/o	m5	85	6	5	-	-	9+	9+	m000
Harrogate	1005·7	-10	SW	2	c	m	95	7	5	-	-	9	9	m000
Spurn Head ...	1005·6	-6	SSW	1	c	m2	95	5	5	3	9	2-3	7-8	1500
Birmingham ...	1006·7	-18	WSW	1	c	m	85	-	5	-	-	9	9	2500
Cranwell	1006·3	-22	W	3	-	m2	95	m	5	-	-	10	10	2500
Gorleston ... W.S.	1007·3	-16	NE	2	0	m	95	6	5	-	-	10	10	2500
Valentia Obs. ...	1002·8	-m6	SSE	m	c/o	m7	95	8	5	2	-	7-8	10	1500
Roches Point ...	1005·m	-28	SW	2	c	m7	85	8	4	-	-	9	9	1500
Pembroke	1005·9	-20	W	2	c	m6	85	8	8	-	-	9+	9+	1500
Ross-on-Wye ...	1007·0	-20	SSW	2	c	m	85	7	5	-	-	9+	9+	m000
Leafield	1006·7	-20	WSW	2	c	m	85	7	5	-	-	9+	9+	m000
Cardington ...	1007·6	-18	W	1	c	m	95	6	5	-	-	9+	9+	2500
Winchester ...	1007·6	-2m	SSW	1	z	m	95	5	5	-	-	10	10	1500
S. Farnborough ...	1007·5	-22	WSW	1	z	m5	95	6	5	-	-	10	10	2500
London (Kew) ...	1007·6	-26	-	0	0	m3	95	5	5	-	-	10	10	800
Croydon	1008·9	-18	W	1	m	m3	95	m	5	-	-	10	10	m50
Manston														
Shoeburyness ...	1006·6	-20	WNW	2	6c	m6	95	5	5	6	-	m-6	m-6	m000
Clacton-on-Sea ...	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	1008·1	-18	WSW	1	z	m3	95	5	5	-	-	9+	9+	800
Scilly (St. Mary's)	1007·6	-2m	W	2	c/p	m7	95	8	2	-	-	9	9	m000
Falmouth	1008·2	-30	SSW	3	c	m8	85	8	9	3	-	7-8	9	m000
Plymouth	1007·m	-3m	-	0	f	m6	95	m	7	-	-	9+	9+	m000
Portland Bill ...	1007·2	-2m	W	3	c	m8	85	8	m	m	-	m-6	7-8	2500
Calshot, S'hampton	1008·0	-20	WSW	2	c	m9	85	6	5	-	-	9	9	1500
Dungeness ...	•	•	-	0	c	•	•	7	8	7	•	m-6	9	2500
Lympne	1007·m	-30	SSE	1	z	m5	95	6	m	-	-	7-8	7-8	m000
Guernsey	1008·5	-30	WSW	1	c/d	51	85	6	5	-	-	7-8	7-8	1500

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

Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
Lerwick	1003·0	-2	-	0	c	m3	95	7	5	/	-	m-6	7-8	1500	/	•
Stornoway ...	1001·1	-6	-	0	c	m0	95	6	2	-	-	7-8	7-8	m000	/	0
Wick	1003·3	-m	WNW	2	c	m0	95	7	8	-	-	9	9	1500	/	2
Tiree	1000·8	-12	SSE	3	c	m	95	8	5	/	-	7-8	9+	1500	/	2
Nairn	1002·m	•	-	0	c	m0	95	6	2	-	-	7-8	7-8	1500	/	•
Aberdeen	1003·3	-2	-	0	c	m2	95	6	5	-	-	9+	9+	2500	/	0
Malin Head ...	1000·0	-1m	SSE	2	c	m1	95	7	5	-	-	7-8	7-8	2500	/	/
Renfrew	1003·3	-10	E	2	c	m1	95	6	5	-	-	10	10	2500	/	/
Inchkeith (Edin.)	1003·5	-8	NE	/	z	m3	95	5	5	-	-	10	10	800	0	0
Leuchars	1003·6	-2	SW	/	c/o	38	95	6	5	7	-	7-8	9	2500	/	•
Eskdalemuir ...	1003·m	-6	SW	/	c	39	95	8	5	-	-	7-8	9	1500	/	•
Tynemouth ...	1003·m	-m	WNW	/	0	m	85	6	6	-	-	10	10	1500	0	/
Blacksod Point ...	997·9	-16	S	m	rr	m5	95	6	6	-	-	10	10	450	/	3
Aldergrove ...	1001·9	-26	ESE	2	0	m1	95	6	5	-	-	10	10	800	/	•
Donaghadee ...	1002·2	-10	WSW	/	c	m1	95	7	5	-	-	9	9	800	/	0
Birr Castle ...	1000·m	-20	SE	/	0	m2	95	7	6	-	-	10	10	1500	/	•
Holyhead	1003·3	-22	SSE	3	c/o	m3	95	7	6	-	-	9+	9+	2500	/	/
Liverpool (Bidston)	1003·1	-1m	ESE	/	fg	m2	85	8	5	-	-	m-6	m-6	2500	/	•
Chester (Sealand)	1004·m	-1m	SSE	/	z	m1	95	5	5	-	-	10	10	2500	/	•
Harrogate	1004·0	-6	SW	/	c	m1	95	5	5	-	-	9+	9+	2500	/	•
Spurn Head ...	1003·m	-2	W	/	c/d	m2	95	5	5	-	-	10	10	m50	/	2
Birmingham ...	1004·6	-10	-	0	cf	m2	95	6	5	-	-	10	10	m000	/	•
Cranwell	1004·3	-10	SW	/	m	m0	95	m	5	-	-	10	10	m000	/	•
Gorleston ...	1004·7	-2m	-	0	0	m	95	5	5	-	-	10	10	1500	0	/
Valentia Obs. ...	996·0	-3m	SSE	m	c/o	m6	85	7	6	-	-	10	10	1500	/	3
Roches Point ...	999·7	-28	SW	3	c	m7	85	7	6	-	-	9	9	1500	0	2
Pembroke	1002·0	-m0	~~SSW~~	2	c	m5	85	8	8	-	-	9+	9+	1500	/	2
Ross-on-Wye ...	1003·9	-1m	E	/	m	m2	95	m	5	-	-	10	10	1500	/	•
Leafield	1004·3	-1m	SSE	/	0	m0	95	5	5	-	-	10	10	1500	/	•
Cardington ...	1004·9	-16	SW	/	c	m1	95	7	5	-	-	10	10	2500	/	•
Winchester ...	1004·3	-12	ESE	/	cf	m1	95	3	5	-	/	?	10	2500	?1	•
S. Farnborough ...	1005·0	-16	-	0	0f	m2	95	3	5	-	-	10	10	2500	/	•
London (Kew) ...	1004·9	-16	SE	2	c/p	m3	95	m	5	3	-	m-6	7-8	2500	/	•
Croydon	1006·5	-1m	SW	2	c/o	m2	95	m	5	-	-	9+	9+	1500	/	•
Manston																•
Shoeburyness ...	1005·7	-12	-	0	cf	m1	95	3	5	-	-	9+	9+	1500	/	•
Clacton-on-Sea ...	1005·m	-1m	ESE	/	0	m3	95	5	5	-	-	10	10	800	0	/
Felixstowe ...	1005·9	-8	-	0	c/p	m2	95	m	5	-	-	10	10	800	/	/
Scilly (St. Mary's)	1001·9	-26	SE	2	c	m6	95	8	5	-	-	7-8	7-8	m000	/	/
Falmouth	1003·9	-20	SE	2	c	m6	85	8	5	2	-	7-8	10	m000	0	/
Plymouth	1003·0	-28	SSW	2	c	m6	95	7	5	-	-	9+	9+	1500	/	0
Portland Bill ...	1003·m	-12	NW	/	6c	m5	85	8	6	2	-	m-6	m-6	1500	/	2
Calshot, S'hampton	1004·m	-18	SE	2	c/o	m5	95	6	6	2	-	7-8	10	1500	/	0
Dungeness ...	•	•	W	/	z	•	•	5	5	m	•	2-3	7-8	2500	•	/
Lympne	1006·6	-6	WSW	/	z	m1	95	6	m	-	-	2-3	2-3	2500	/	•
Guernsey	1004·m	-2m	SW	/	c/p	m7	95	6	5	-	-	7-8	7-8	1500	2	2

PAST 24 HOURS.

Stations. (For heights see p. 4.)	Weather. 7h.–13h. 24th (37)	Weather. 13h.–18h. 24th (38)	Weather. 18h. 24th to 1h. 25th (39)	Weather. 1h.–7h. 25th (40)
Lerwick	c6c	6c	bcc	coir°
Stornoway ...	cif	c	bcc	bc
Wick	6czd°c	c	bc	bc
Tiree	id°6c	cid°	c	c
Nairn	cd°	d°c	cbcx	bcc
Aberdeen	od°d°c	cm°	cbcm	cpr m°
Malin Head ...	6cd°c	ce		cp°bcbc
Renfrew	6ccm°	cm°	crcm°	cm°°
Inchkeith (Edin.)	6cm°m°	6cc om°m°c		oci°°
Leuchars	cjp6ccm°	cb°cd°m°	cid°m°bc	bccwm°
Eskdalemuir ...	cid°c	c	cpr°c	cr5
Tynemouth ...	6c	6c0	bcm°	oi°°
Blacksod Point ...	c	rr	rr	ro
Aldergrove ...	6codd	m°oc0m°	om°	cm°
Donaghadee ...	c	c	c	c
Birr Castle ...	6cc	c0	0r0	oi°c
Holyhead	cm°c	pr	r°cbcm°	bcm°
Liverpool (Bidston)	cci°0	cci°0	c0	0
Chester (Sealand)	jpcm°	ci°cm°	cm°	cm°
Harrogate	66cc	c	c0	0
Spurn Head ...	cprc	cm id	omm	omf3c
Birmingham ...	c	cmf	cfm	cor°
Cranwell	cm°p°	crmi°m		cmofe
Gorleston ...	om°m°	om°m°	oif	ofoir°
Valentia Obs. ...	cr°c	cr°cr°c	cr°crr	cr°c
Roches Point ...	c	cp°c	coir	orroi°
Pembroke	cid°	cid°	cirbc	bc
Ross-on-Wye ...	fp°cifbc	cm°0	om°f	ofid
Leafield	0fec	c0	0bcmic	corr
Cardington ...	cm°	cm°c	cm°	cmdd
Winchester ...	0ffcm°	cm°ff	0FFcm	0rr
S. Farnborough ...	0mfcfbcm	cp°cf	0f0m	0morrm°
London (Kew) ...	6m°	cp°cm	cm	cm0mr°r
Croydon	cm	6cm°ci°		cr°0rr°
Manston				
Shoeburyness ...	6cm°f6cm°	fe	cf	orrom°
Clacton-on-Sea ...	0cz	cz0mm	0gmf	0f0
Felixstowe ...	0r0m°	cm°pr	cm6cffc	crrcr°
Scilly (St. Mary's)	cp°0	cp°c	cprr	orrbc
Falmouth	6cc	c0ir°	0r	0irbc
Plymouth	0fec	cr°	cdrrrR	oddm6c
Portland Bill ...	c	cdcprc6c	0r0rr	orrR°R
Calshot, S'hampton	cr°m°	6c	air°fcfe	crr°crr
Dungeness ...	p			omr
Lympne	0dsfcm°	c6cm°	6c0frm°	bcorr
Guernsey	p6cid	cop°c	0irrr	0ir0

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus, R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, solar halo. ⊍, lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

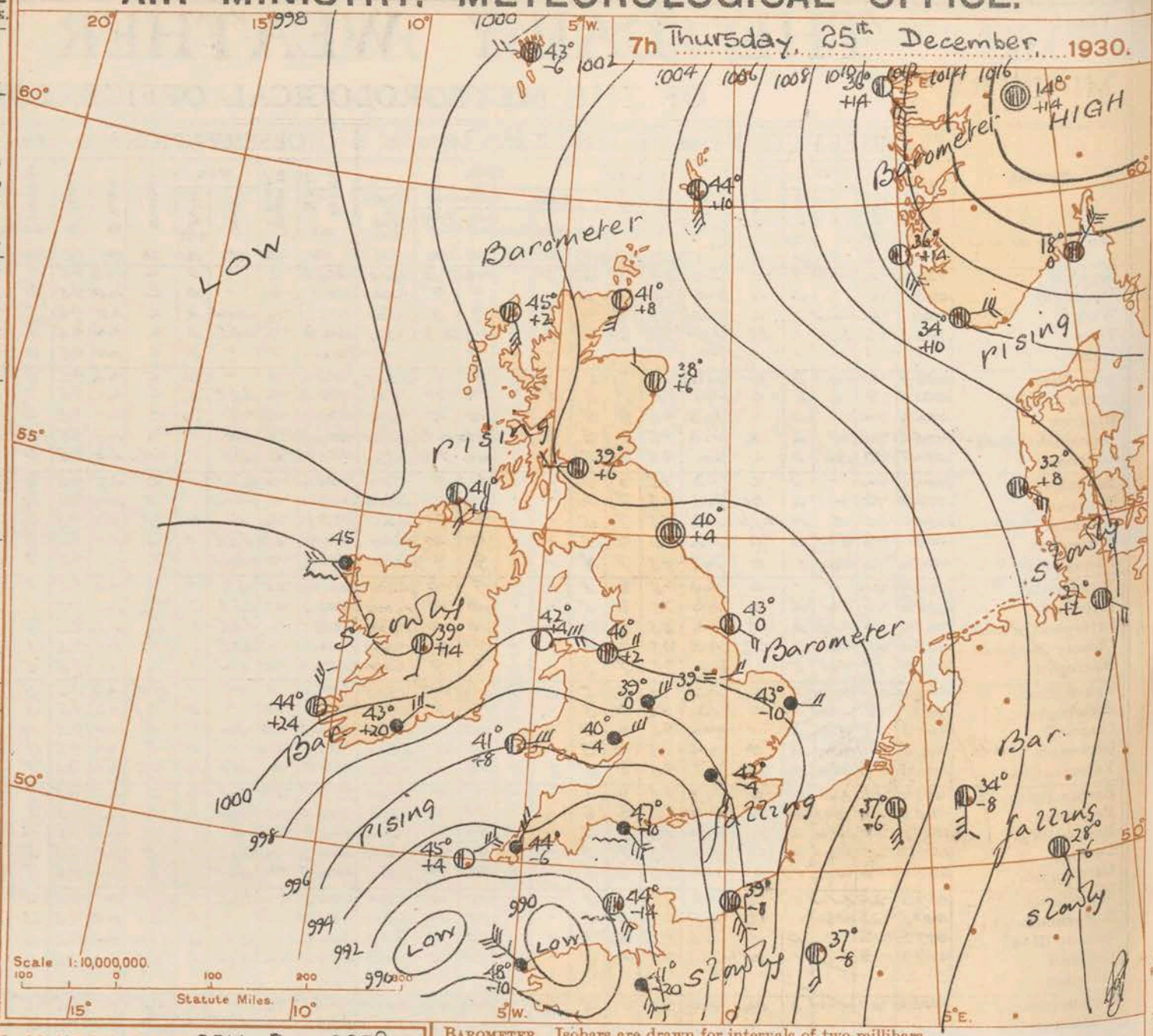
REPORTS from HEALTH RESORTS for 24th December 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 23rd to 9h. 24th	TEMPERATURE. Max. 9h.—17h. 24th	RAINFALL. Night. 17h. 23rd to 9h. 24th	RAINFALL. Day. 9h.—17h. 24th	SUNSHINE. Sunrise to Sunset. 24th
Dunbar	bcwm	bcm	41	44	0·3	-	0·7
Berwick-on-T.	cr	c	41	44	-	Trace	0·2
Douglas	c	cirb	43	45	-	Trace	0·0
Llandudno	c	crbc	46	46	2	0·3	0·0
Colwyn Bay	or	bcobc	43	46	5	Trace	0·0
Rhyl	c	cbc	41	41	1	-	0·1
Wallasey	iro	oro	40	46	6	1	0·7
Southport ‖	oco	rodo	43	46	1	1	0·0
Blackpool	oc	cod	40	46	1	0·1	0·3
Morecambe	mec	cbbcc	39	45	Trace	Trace	0·1
Ilkley	bca	cod	38	40	2	Trace	0·0
Cleethorpes	od	od	38	43	0·4	0·2	0·0
Mablethorpe	om	ome	37	43	0·3	-	0·0
Skegness	ndrom	om	38	42	1	-	0·0
Aberystwyth	cprc	c	43	47	1	-	1·0
Bath	cbc	c	35	47	Trace	-	0·5
Cheltenham †	cmc	cm	41	45	1	-	0·2
Leamington Spa	om	oc	38	43	Trace	-	0·0
Lowestoft	id	c	39	43	1	-	0·0
Dovercourt	doc	roc	39	44	5	2	0·0
Maldon	c	oirf	38	44	1	1	0·0
Southend	cfe	coiof	39	45	0·4	0·1	0·3
Ilfracombe	oro	o	42	47	7	1	0·0
Bude	oio	c	44	49	0·3	0·2	0·0
St. Ives	o	o	44	49	1	-	0·0
Penzance	c	c	40	49	2	-	0·4
Torquay	dip	bcwmcm	39	48	0·4	-	0·2
Jersey	rcbcc	rc	40	50	3	0·4	0·6
Weymouth	fbcc	cpc	39	50	2	1	1·2
Bournemouth	mbc	bco	37	48	2	-	2·6
Ventnor	bo	ur	42	51	2	0·3	4·1
Southsea	bcfb	co	40	48	3	-	2·7
Bognor Regis	fcbc	co	41	46	3	-	0·6
Littlehampton	bcpbc	bcc	38	47	3	-	1·9
Worthing	bcc	co	40	46	2	-	1·2
Brighton	cocbc	bc	43	48	1	-	1·8
Eastbourne †	coio	ocbco	40	48	4	1	1·3
Hastings †	cobc	comc	39	47	4	1	0·2
Folkestone	odmc	coc	39	47	2	0·2	0·3
Dover	motibc	mbccbc	41	47	1	0·2	0·5
Deal	occ	bcc	38	47	-	-	0·7
Tunbridge Wells	obc	coc	37	48	1	-	1·7
Ramsgate	cbc	bcem	40	44	1	-	1·1
Margate	cbc	bccd	44	45	1	Trace	1·2

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

AIR MINISTRY. METEOROLOGICAL OFFICE.

7h Thursday, 25th December 1930.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 25th Dec. 1930.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Wind easterly light or moderate; cloudy; occasional rain or showers; mist locally: temperature about normal.
5. S.W. England 6. South Wales 7. North Wales	Wind easterly, moderate or fresh; mainly cloudy; showers or occasional rain; mist locally; temperature about normal.
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind southeast light to fresh; mainly cloudy: showers or occasional rain; mist locally; temperature about normal.
17. N.W. Ireland 18. N.E. Ireland	Moderate variable winds; mainly cloudy: showers or occasional rain; mist locally; normal temperature.
19. S.E. Ireland	As 8 - 16.
20. S.W. Ireland	As 17.

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force.
TEMPERATURE is given in degrees F. Calm. = ⊙
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. ϒ Thunder. ϒ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A depression centred near Brest is moving southeast and another depression is situated south of Iceland, while an anticyclone over Scandinavia is increasing in intensity. Weather will be unsettled with occasional rain or showers in most districts.

FURTHER OUTLOOK.

None issued.

F.C.R.

Forecasts issued at 1200 G.M.T.

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

H.M. Stationery Office Press, Kingsway, W.C.2
F 2497/2165 Pk 26 D.6026 Gp 308 3/3113 2/30.

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

Morning of THURSDAY, 25TH DECEMBER. 1930.

Lambert's Projection Scale 1 : 4 x 10^7 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 the wind. Number of feathers indicate Beaufort Force.

○ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 25th December 1930.

No. 25,235

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

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)
Lerwick	54	1003·7	0	-	0	c	44	95	7	5	2	-	4.6	10	1500
Stornoway ...	34														
Wick	81	1001·8	0	SSE	3	bc	44	95	8	9	-	-	4.6	4.6	1500
Tiree	22														
Nairn	82														
Aberdeen	37														
Malin Head ...	51														
Renfrew	36														
Inchkeith (Edin.)	190	1002·3	+2	E	1	o	42	95	8	5	-	-	10	10	1500
Leuchars	30														
Eskdalemuir ...	794														
Tynemouth ...	67														
Blacksod Point ...	10	997·4	-4	S	4	RR	44	95	6	6	-	-	10	10	×
Aldergrove ...	238														
Donaghadee ...	40														
Birr Castle ...	173														
Holyhead... ...	26														
Liverpool (Bidston)	189														
Chester (Sealand)	16														
Harrogate... ...	478														
Spurn Head ...	29	1001·0	-6	-	0	om	41	95	4	5	-	-	10	10	220
Birmingham ...	535														
Cranwell	241														
Gorleston	14	1002·1	-16	-	0	f	41	95	2	5	-	-	10	10	<150
Valentia Obs.† ...	30														
Roches Point ...	22														
Pembroke... ...	150	996·2	-20	E	4	bc	44	85	8	8	2	-	4.6	4.6	2500
Ross-on-Wye ...	223														
Leafield	612														
Cardington ...	100														
Winchester ...	272														
S. Farnborough ...	237														
London (Kew) ...	18														
Croydon	244														
Manston	135														
Shoeburyness ...	11														
Clacton-on-Sea ...	55														
Felixstowe ...	15														
Scilly (St. Mary's)	163	994·8	-30	SW	2	rr	45	95	7	6	-	-	10	10	4000
Falmouth... ...	200	995·7	-14	ESE	3	c	45	95	8	5	-	-	7·8	7·8	4000
Plymouth... ...	82														
Portland Bill ...	32	996·5	-36	SE'E	3	rr	~~58~~ 48	~~95~~ 85	8	5	-	-	10	10	1500
Calshot, S'hampton	8														
Dungeness ...	20														
Lympne	347														
Guernsey	173	997·2	-44	S	3	rr	46	95	7	6	-	-	10	10	1500

OBSERVATIONS at 7 hr. G.M.T. 25th December

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1004·5	+10	S'E	3	c	44	95	7	5	2	-	4.6	10	1500	1	*
1000·7	+2	SSE	3	c	45	75	9	-	-	-	9	9	4000	1	*
1002·8	+8	SSW	3	bc	41	85	8	5	-	-	4.6	4.6	1500	1	2
1000·5	+10	SE'S	4	c	43	85	8	7	-	-	7·8	9	1500	0	3
002·5	•	W	1	c	33	85	8	5	8	-	4.6	7·8	4000	0	*
1003·1	+6	WNW	1	c/pr	38	95	6	6	-	-	9	9	1500	1	0
999·4	+6	S'E	2	c	41	95	7	5	-	-	9	9	2500	0	1
1002·6	+6	W	1	o/c	39	95	6	5	-	-	10	10	1500	1	*
1002·4	+2	NE	2	c	42	95	8	5	4	-	4.6	9+	1500	0	0
1003·2	+2	NNW	1	c	35	95	9	5	3	-	7·8	9	2500	1	*
1002·1	+10	NE	2	rs	37	95	7	5	-	-	9+	9+	1500	1	*
1001·6	+4	-	0	o	40	95	7	6	-	-	10	10	1500	1	1
1000·0	+10	W	4	c	45	85	7	6	-	-	10	10	×	2	4
1000·9	+6	E	3	c	41	85	7	6	-	-	9	9	1500	1	*
1000·2	+4	SSE	2	c	45	75	7	5	-	-	7·8	7·8	1500	0	1
1000·0	+14	S	1	c	39	95	7	5	-	-	9+	9+	2500	1	*
999·7	+4	E	5	bc	42	95	7	5	-	-	2·3	2·3	5700	1	2
999·5	+2	NE'E	2	o	41	85	7	5	-	-	10	10	1500	0	*
1000·2	+2	ENE	2	cm	40	95	8	5	-	-	10	10	1500	0	*
1001·6	0	-	0	o	37	95	5	5	-	-	10	10	2500	1	*
1000·2	0	SEE	2	c	43	95	6	5	2	-	4.6	9+	2500	1	2
999·6	0	ENE	3	i	39	95	7	6	-	-	10	10	1500	1	*
1000·2	0	E'N	2	f	39	95	7	5	-	-	10	10	1500	1	*
1000·1	-10	E'S	2	f	43	95	8	6	-	-	10	10	1500	1	2
1000·1	+24	N	4	i	44	95	8	5	-	-	7·8	7·8	1500	1	3
998·2	+20	NE	4	i	43	95	7	6	-	-	10	10	1500	1	3
998·9	+8	E	3	bc	41	95	7	5	-	-	4.6	4.6	2500	1	2
997·3	-4	ENE	3	d	40	95	7	6	3	-	10	10	450	1	*
997·6	-6	E'N	4	r	39	95	4	6	-	-	10	10	220	1	*
999·5	-8	ENE	3	d	39	95	4	5	-	-	10	10	220	1	*
997·7	-4	E'S	2	f	43	95	7	6	-	-	10	10	800	1	*
997·5	-4	E	2	r	43	95	5	6	5	-	10	10	800	1	*
998·0	-4	E	1	f	43	95	4	5	-	-	10	10	800	1	*
999·2	-4	SE	2	r	42	95	5	6	-	-	10	10	450	1	*
999·3	-8	ESE	2	o	44	95	6	5	-	-	10	10	1500	1	*
999·1	-6	SSE	4	o	45	95	7	5	-	-	10	10	800	0*	2
999·6	-6	SSE	3	c/r	44	95	7	5	2	-	7·8	10	1500	1	2
999·3	+4	ENE	5	bc	45	95	8	4	-	-	2·3	2·3	4000	1	2
995·3	-6	NNE	4	f	44	95	8	5	1	-	2·3	4.6	4000	1	2
992·9	-4	NE	3	c	45	95	7	6	-	8	7·8	9+	1500	2	1
993·3	-10	SE'E	5	RR	47	85	8	6	-	-	10	10	1500	2	4
996·1	-8	SE	5	r	45	95	7	6	2	-	4·6	10	1500	1	2
•	•	S	5	r	•	•	6	3	-	•	10	10	2500	•	3
999·2	-2	S	4	r	42	95	5	6	-	-	10	10	450	1	*
992·6	-14	SE	3	o	44	95	7	5	-	-	10	10	1500	2	4

PAST 24 HOURS.

Stations.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 24 hrs. (36)
Lerwick	45	42	*	Tr.	1	0.2
Stornoway ...	43	40	*	-	0.1	0.2
Wick	42	38	*	0.1	0.2	*
Tiree	47	41	37	0.2	-	2.2
Nairn	~~44~~	33	*	0.~~4~~	-	0.0
Aberdeen	44	35	30	0.3	1	0.2
Malin Head ...	43	40	*	0.2	Tr.	0.0
Renfrew	~~43~~	39	36	-	0.2	0.0
Inchkeith (Edin.)	43	41	38	-	Tr.	1.7
Leuchars	~~43~~	34	28	Tr.	Tr.	0.7
Eskdalemuir ...	~~42~~	35	34	0.1	0.2	0.0
Tynemouth ...	46	39	33	-	1	*
Blacksod Point ...	48	43	*	1	13	*
Aldergrove ...	~~43~~	37	34	0.1	-	0.0
Donaghadee ...	44	40	*	-	-	*
Birr Castle ...	~~43~~	39	38	-	0.5	0.0
Holyhead... ...	47	40	37	1	0.5	0.0
Liverpool (Bidston)	~~44~~	40	37	1	-	1.0
Chester (Sealand)	~~44~~	39	37	0.3	-	0.2
Harrogate... ...	~~44~~	37	35	-	-	1.1
Spurn Head ...	43	40	*	0.2	Tr.	0.2
Birmingham ...	~~44~~	38	38	-	0.2	0.0
Cranwell	~~44~~	37	35	0.2	0.1	0.0
Gorleston	44	39	35	-	0.1	0.0
Valentia Obs.† ...	47	43	41	7	11	0.0
Roches Point ...	48	42	*	~~1~~	10	*
Pembroke... ...	47	40	*	~~1~~	Tr.	0.2
Ross-on-Wye ...	~~44~~	39	38	0.2	0.4	1.0
Leafield	~~44~~	37	31	0.2	2	0.1
Cardington ...	~~44~~	38	37	-	0.2	0.0
Winchester ...	~~44~~	39	34	~~1~~	8	0.1
S. Farnborough ...	~~44~~	40	37	0.1	1	0.0
London (Kew) ...	~~44~~	41	33	~~1~~	1	0.0
Croydon	~~44~~	41	37	~~1~~	3	0.0
Manston						
Shoeburyness ...	47	38	31	~~1~~	2	0.8
Clacton-on-Sea ...	43	39	37	-	-	0.0
Felixstowe ...	43	37	34	1	2	0.0
Scilly (St. Mary's)	47	42	*	0.3	7	0.2
Falmouth... ...	49	43	*	~~1~~	5	0.4
Plymouth... ...	48	43	42	~~1~~	5	0.0
Portland Bill ...	50	43	*	1	4	*
Calshot, S'hampton	49	43	37	0.3	7	2.0
Dungeness ...	~~42~~	~~41~~	2500	0.3	0.4	*
Lympne	~~44~~	37	31	0.3	2	0.6
Guernsey	51	44	43	~~1~~8	5	1.9

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (To-day.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew	18	om	c/cm	cm/r	~~44~~	41	33	Tr.	1	0.0	•	•	~~4~~
Croydon	244	cm	c/cm/r	cr/rr	~~44~~	41	37	Tr.	3	0.0	•	•	
Greenwich (Royal Observatory) ...	149	c/f	c/d/f	c/m/r/d	~~44~~	39	30	Tr.	5	0.0	92	98	4
City (Bunhill Row)	—	•	•	•	•	•	•	0.0	•	•	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	45	43	37	.3	•	0.0	87	91	•
Regents Pk. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	•	•	•	•
Camden Square	110	o	o	•	~~44~~	42	34	-	2	•	•	96	•
Kensington Palace	80	oc	co	•	~~44~~	41	34	-	4	•	At 18h. 85	97	•
Hampstead Observatory	450			•						0.0			•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 25th

South Kensington.	Time.	Min.	Time.
Max.			
1·0	15h. 24h.	0·3	5h.-6h. 25th.

Kew Observatory.	Time.	Min.	Time.
Max.			
0·4	20h.24	0·2	2h.25

FOREIGN OBSERVATIONS

18h. G.M.T. 24th December

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1010·3	SSW	2	m	41
Brussels	1008·3	SSW	3	c	34
Berlin	1012·3	E	3	o	30
Zürich	1014·3	W	1	o	30
Rome					

7h. G.M.T. 25th December

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
1002·5	S	2	c	~~37~~
1003·5	S	3	c	~~34~~
1008·6	SSE	1	o	27
1008·2	E	1	o	28

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
~~34~~	~~30~~	-	2
~~34~~	~~26~~	1	0.2
30	25	-	-
30	27	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 26th Dec. 1930.

No. 25,236

OBSERVATIONS at 13h. G.M.T. 25th Dec.

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)
Lerwick	1005.9	-2	SSE	3	c	43	85	7	5	7	-	4-6	7-8	1500
Stornoway ...	1000.9	-4	SSE	4	c	45	65	8	5	7	-	4-6	9	4000
Wick	1002.5	-4	SSE	4	c	43	95	8	9	2	-	7-8	7-8	1500
Tiree	1001.1	-2	SSE	4	c	45	65	8	5	3	8	4-6	9+	2600
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	1004.0	0	WNW	2	c/r	41	95	6	8	-	-	7-8	7-8	2500
Malin Head ...	1000.2	0	S'E	4	bc	42	95	6	5	5	-	2-3	4-6	2500
Renfrew	1003.0	+4	NE	1	m$_o$	41	95	5	5	-	-	9+	9+	2500
Inchkeith (Edin.)	1003.7	+2	NE	1	m$_o$	43	95	5	5	3	-	7-8	10	4000
Leuchars	1003.7	+2	N	1	c	43	95	6	5	-	-	9+	9+	4000
Eskdalemuir ...	1003.0	-2	E'N	3	c	39	95	8	5	-	-	9	9	1500
Tynemouth ...	1002.6	0	E	1	c	45	95	7	4	-	-	9	9	2500
Blacksod Point ...	1000.6	+4	-	0	bc	47	75	8	7	-	-	2-3	2-3	2500
Aldergrove ...	1001.7	+2	E'S	2	c	43	85	5	8	-	-	9	9	2500
Donaghadee ...	1001.6	+4	SSE	3	c	45	75	7	5	-	-	9	9	1500
Birr Castle ...	1001.5	+6	NW	1	c	41	95	6	-	2	-	0	10	-
Holyhead... ...	1001.5	+2	E	4	c	44	95	5	2	3	-	Tr.	9	4000
Liverpool (Bidston)	1001.1	+4	E'N	4	m	43	75	4	5	7	-	4-6	7-8	800
Chester (Sealand)	1001.8	+2	E	1	m	41	95	4	5	3	-	4-6	9	4000
Harrogate... ...	1002.3	+6	NNW	1	fc	39	95	3	5	-	-	9+	9+	<150
Spurn Head ...	1001.2	+2	SE'E	3	ir$_o$	44	95	7	3	2	-	4-6	9+	4000
Birmingham ...	1001.0	0	ENE	3	fr	40	95	3	6	-	-	10	10	1500
Cranwell	1001.1	-4	ENE	2	id$_o$	42	95	6	6	-	-	10	10	800
Gorleston	1001.0	+4	SE	2	id$_o$	43	95	6	6	-	-	10	10	1500
Valentia Obs. ...	1001.6	-6	NNE	2	c/pr	46	85	8	5	-	1	7-8	7-8	1500
Roches Point ...	1001.6	+12	N	3	bc	45	85	8	3	-	-	2-3	2-3	1500
Pembroke... ...	998.5	+6	NE	3	c	44	85	7	8	6	-	4-6	7-8	2500
Ross-on-Wye ...	999.6	+8	ENE	2	id$_o$	41	95	4	5	-	-	10	10	450
Leafield	999.3	+6	E'N	3	m	41	95	4	6	-	-	10	10	220
Cardington ...	1000.3	+4	NE'E	1	ir$_o$	42	95	5	6	-	-	10	10	450
Winchester ...	999.0	+6	ESE	4	c	43	85	7	5	-	-	9+	9+	800
S. Farnborough ...	999.3	+12	ESE	2	c	43	85	6	6	-	-	10	10	1500
London (Kew) ...	1000.3	+6	SSE	2	c	44	85	6	6	-	-	9+	9+	1500
Croydon	1000.3	+4	SSE	3	c/r	43	85	6	5	7	-	4-6	7-8	800
Manston														
Shoeburyness ...	1000.7	0	S'E	3	c	44	85	7	5	7	-	9	9	1500
Clacton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe ...	1001.0	+14	S	2	r$_o$	42	95	5	6	2	-	9	10	1500
Scilly (St. Mary's)	997.4	+20	NNE	6	c	47	95	7	2	-	-	7-8	7-8	4000
Falmouth... ...	997.5	+6	N	4	bc	46	95	7	5	3	-	4-6	4-6	4000
Plymouth... ...	996.2	+10	ENE	3	c	47	85	8	6	-	-	9+	9+	2500
Portland Bill ...	995.9	+18	E'S	6	c	47	75	7	8	-	-	10	10	1500
Calshot, S'hampton	998.0	+4	E'S	5	c	45	85	6	5	-	-	10	10	1500
Dungeness ...	*	*	S	4	c	*	*	7	5	-	*	10	10	2500
Lympne	1000.7	+4	SE	3	m$_o$	40	85	6	5	-	-	9+	9+	1500
Guernsey	994.6	+16	E	3	o/d	43	95	7	5	-	-	10	10	1500

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

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)
1005.3	-2	SSE	4	c	43	75	7	5	2	-	4-6	9+	1500	0	*
997.3	-16	SSE	4	b	45	75	8	-	-	-	0	0	-	1	3
1002.6	0	S	4	c	44	95	8	8	1	-	4-6	7-8	1500	1	3
998.5	-12	SSE	6	c	44	75	7	5	7	-	7-8	10	2500	0	4
1001.7	*	-	0	c	37	85	6	5	2	-	2-3	7-8	2500	0	*
1004.1	+4	S	2	c	43	85	6	8	-	-	9	9	2500	1	0
998.7	-6	S'E	5	c	43	75	6	5	3	-	7-8	9	2500	0	1
1003.0	0	E	2	c	40	95	6	5	-	-	9+	9+	2500	1	*
1003.7	0	E	2	o	42	95	8	5	-	-	10	10	800	0	0
1003.8	+2	-	0	c	39	95	6	5	3	1	4-6	9	4000	1	*
1003.7	+4	ENE	2	c	37	95	8	5	-	-	9	9	1500	1	*
1003.5	+6	ESE	3	bc	45	85	8	2	-	-	4-6	4-6	2500	0	2
998.2	-14	S	4	c	45	85	7	7	-	-	10	10	2500	0	3
1001.4	-2	ESE	3	c	39	95	5	5	-	-	9+	9+	4000	1	*
1001.3	-2	S'E	2	c	46	75	7	5	-	-	7-8	7-8	2500	0	1
1001.4	+2	SSE	1	c	40	95	6	-	2	-	0	10	-	1	*
1002.2	+6	SE'S	1	c	42	95	6	6	-	-	10	10	5700	1	0
1002.6	+10	E	2	f	42	85	3	5	-	-	10	10	800	0	*
1002.9	+12	-	0	m	41	95	4	5	-	-	7-8	7-8	4000	0	*
1003.2	+6	-	0	m	40	95	4	5	-	-	10	10	<150	1	*
1002.0	+2	SSE	5	rr	43	95	6	6	-	-	10	10	4000	1	4
1003.4	+12	ESE	2	m	41	95	4	5	-	-	10	10	1600	1	*
1003.0	+20	SE	1	m	41	95	4	6	-	-	10	10	800	1	*
1003.0	+12	SSW	1	id$_o$	42	95	6	6	-	-	10	10	1500	1	2
1000.7	-4	SE	3	c	44	95	8	5	2	-	2-3	10	1500	1	3
1002.0	+14	NW	3	bc	43	95	8	3	-	-	4-6	4-6	1600	1	3
1001.2	+8	ENE	3	c/r	43	95	6	3	2	-	7-8	10	2500	1	2
1002.8	+14	E'N	2	fo	41	95	3	5	-	-	10	10	450	1	*
1002.4	+10	SE'E	3	c	40	95	5	5	-	-	10	10	2500	1	*
1002.9	+14	SSW	2	o	41	95	6	5	-	-	10	10	800	1	*
1002.2	+16	ENE	2	c	41	85	7	5	-	-	9+	9+	2500	1	*
1002.1	+22	E	1	m	37	95	4	-	3	-	0	1	-	1	*
1003.1	+20	ESE	2	b	40	85	5	-	-	-	0	0	-	1	*
1002.4	+6	E'S	3	m$_o$	39	85	6	5	7	-	2-3	7-8	1500	1	*
1003.5	+16	SSE	2	bc	41	85	6	2	-	-	4-6	4-6	2500	1	*
1003.3	+20	SSE	4	c	43	85	7	5	-	-	7-8	7-8	800	0	2
1003.6	+16	S	2	m$_o$	42	85	6	5	-	-	10	10	800	1	1
1000.3	+10	NNE	4	c	46	85	8	8	-	-	9	9	4000	0	3
999.6	+8	NE'N	4	c	46	85	7	5	-	-	7-8	7-8	4000	0	3
1000.8	+28	NE	2	id$_o$	45	85	6	6	-	-	10	10	1500	1	0
999.0	+28	E	6	c	45	75	8	8	-	-	10	10	2500	2	4
1001.3	+14	E	4	c	44	85	8	5	-	-	10	10	800	1	1
*	*	SSE	4	bc	*	*	7	-	7	*	0	2-3	-	*	3
1003.0	+14	SE'E	3	m$_o$	38	85	6	5	7	-	2-3	7-8	2500	1	*
998.4	+30	E	2	o	43	95	7	5	-	-	10	10	1500	1	3

PAST 24 HOURS.

WEATHER. 7h.–13h. 25th (37)	13h.–18h. 25th (38)	18h. 25th to 1h. 26th (39)	1h.–7h. 26th (40)
c	c	coir$_o$	oir$_o$
c	bcb	bc	bcorr
bcirc	c	bcc	cirr
cbcc	c	cir$_o$	rRR
cbc	bcc	cbcc	c
cr$_o$m$_o$	c	c3$_o$c	orr q
cbcz$_o$	bccz$_o$z$_o$	c	bcccir
cm$_o$m	cm$_o$	c	crr
c	cm$_o$o	bccir$_o$	coir$_o$
cd$_o$rc	cm$_o$w	cw$_B$pgrm$_o$	corr q
cpr$_o$c	c	cbcc	corrm$_o$
om	cbc	r	oir$_o$q
bc	c	rr	prbc q
m$_o$c	m$_o$c	*cm$_o$	ccrr
c	cbc	bcc	bcrrc
c	c	c	crbc
bcm$_o$	cm$_o$	cor$_o$	oir$_o$q
ofbcm	bcmof	fo o	o.oqir
cm$_o$m	cm	comm$_o$	com$_o$r$_o$
comf	bcofmd$_o$	onffd$_o$	oc
cp$_o$r	orr	orr$_o$	oc
or$_o$r$_o$m	for$_o$m	onc	co
ofeidm	oidm		omcm$_o$
or$_o$r$_o$	oid$_o$	oid$_o$o	coq
cp$_o$r	c	cp$_o$corr	drrcpq
oir$_o$bc	bc	bccw	crrc
cm$_o$	ir$_o$m$_o$	oq	oir$_o$q
efddm	d$_o$mof	ofcm$_o$	om$_o$
orir$_o$m	cm	cbcc	co
oddrrir$_o$m	oir$_o$com$_o$	om$_o$	cm$_o$
or$_o$r$_o$c	c	cb	bcc
orrmd$_o$m	om$_o$cm	bmx	bmxcm$_o$
cmr$_o$cz$_o$	bcm$_o$bm$_o$	bcm$_o$bm	bmxom$_o$
r	bc	bcm$_o$x	cm$_o$x
opr$_o$c	cbcm$_o$	bcm$_o$	a
or$_o$o	ac	cpdc	cbc
crr$_o$m	cr$_o$r$_o$om$_o$	dm$_o$c	c
bcc	c	c	cr$_o$
bcr$_o$cbc	bcc	coc	coirm$_o$q
cd$_o$d$_o$	cd$_o$m$_2$	om$_o$do	od$_o$ri
orrc	c	co	oc
crrr$_o$rcm	cm$_o$p$_o$c		c
om	bc	*	o
r	bc	b	bbc c
oido	oido	o	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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
j, precipitation within sight of station.
k, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

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

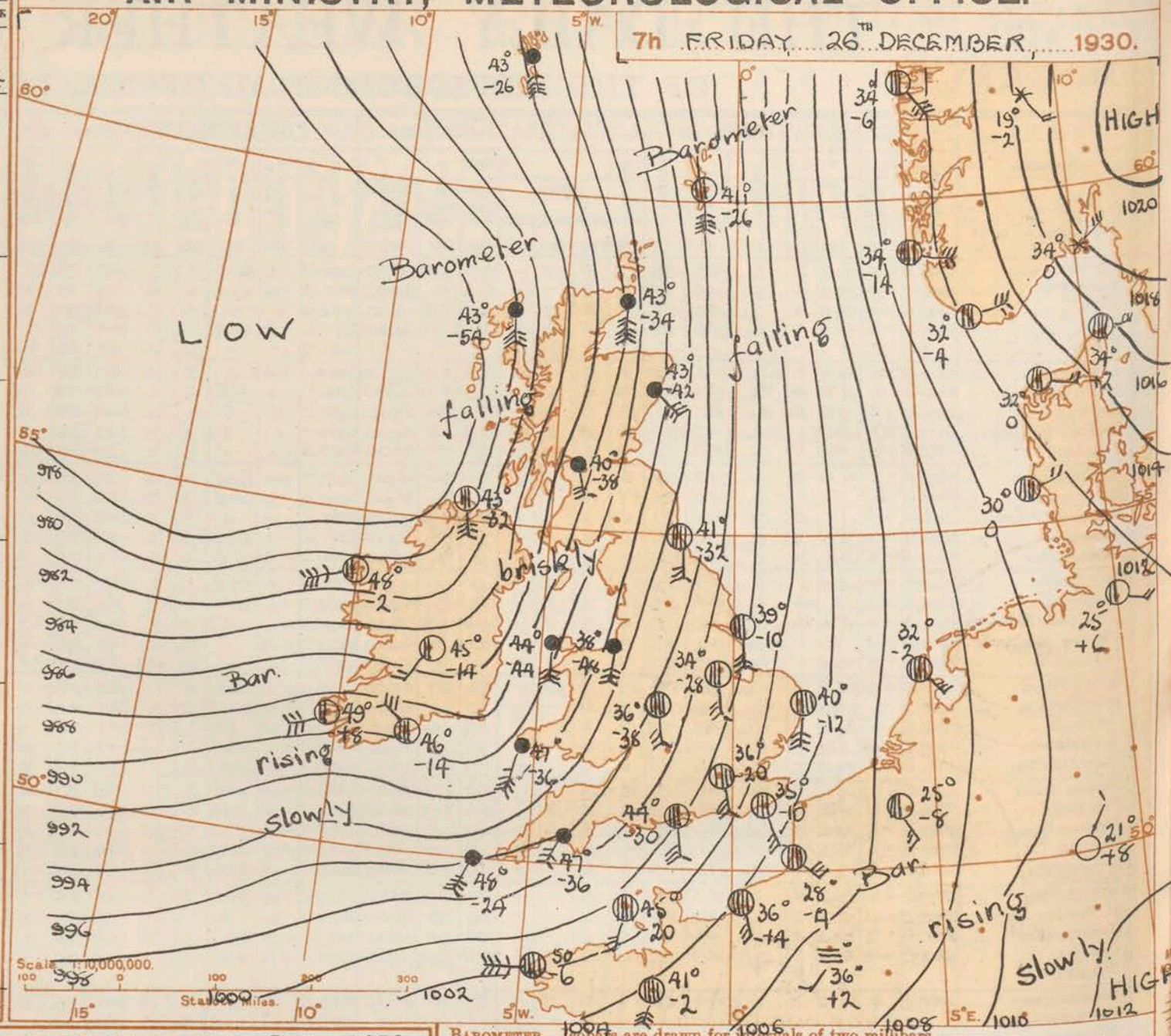
REPORTS from HEALTH RESORTS for 25th December 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 24th to 9h. 25th	TEMPERATURE. Max. 9h.—17h. 25th	RAINFALL. Night 17h. 24th to 9h. 25th	RAINFALL. Day. 9h.—17h. 25th	SUNSHINE Sunrise to Sunset. 25th
Dunbar	bcwe	c	37	42	0·3	Trace	0.0
Berwick-on-T.	cber.	ber.r	38	45	2	Trace	1·4
Douglas	bcx	cbc	37	44	1	-	0.0
Llandudno	c	c	40	43	-	-	0·2
Colwyn Bay	m o	obc o	39	42	-	-	0·2
Rhyl	cm.	cm.	39	44	-	-	0.0
Wallasey	fc	cf	40	44	-	-	0.0
Southport ‖	omc	co	39	45	-	-	0.0
Blackpool	c	c	40	42	-	-	0.0
Morecambe	mcbc	bbcc	40	44	Trace	-	1.7
Ilkley	c	c	37	42	Trace	-	0.0
Cleethorpes	ocr.	or.	38	45	Trace	1	0.0
Mablethorpe	or.m	or.m.	39	43	-	1	0.0
Skegness	omdo	opro	38	43	Trace	1	0.0
Aberystwyth	cz.	cz.	41	44	-	-	0.0
Bath	r.r.c	d.c	39	45	3	1	0.0
Cheltenham †	oroid	idoido	39	44	2	0·5	0.0
Leamington Spa							
Lowestoft	ir.o	oid	39	44	1	1	0.0
Dovercourt	roc	doc	39	45	3	Trace	0.0
Maldon	roc	c	39	45	2	0·3	0.0
Southend	or	c	39	44	2	Trace	0.1
Ilfracombe	o	o	43	46	-	-	0.0
Bude	becr.	bec	42	47	0.4	0.2	1.7
St. Ives	o	pr	44	48	3	Trace	0.0
Penzance	c	cr.	43	48	3	0·2	0.5
Torquay	Rptl	o	41	47	5	1	0.0
Jersey	cd	cm	43	43	5	Trace	0.0
Weymouth	rc	c	42	47	7	Trace	0.1
Bournemouth	rroro	o	41	45	7	2	0.0
Ventnor	or	ou	43	44	7	0·5	0.0
Southsea	or	o	43	45	5	0.4	0.0
Bognor Regis	oro	co	43	45	2	Trace	0.0
Littlehampton	cr.c	cbc	42	45	8	Trace	0.0
Worthing	or.c	c	43	45	10	Trace	0.0
Brighton	c	cbc	44	45	7	-	0.0
Eastbourne †	c	cbc	42	47	9	-	0.0
Hastings †	cbc	cbcc	43	47	4	-	1·2
Folkestone	oro	oc	39	43	4	Trace	0.0
Dover	roc	c	43	43	3	0·3	0.0
Deal	o	obc	40	43	2	Trace	0.0
Tunbridge Wells	ocbc	bccb	40	44	2	-	1·0
Ramsgate	doc	c	41	43	1	1	0.0
Margate	cr	c	42	44	1	0.4	0.0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h FRIDAY 26TH DECEMBER, 1930.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 26th Dec. 1930.
1. S.E. England 2. E. England... 3. E. Midlands	Fresh to strong winds from between south and west, dull with rain at first, improving temporarily later; mild.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Strong southwest to west winds, backing again later; cloudy, occasional rain or showers, some brighter periods, general rain probable again tomorrow; mild.
9. N. Midlands 10. N.E. England 11. S.E. Scotland	Fresh to strong winds from between south and southwest; dull with rain at first, improving temporarily later; mild.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland.	Winds varying from between south and west, strong to gale; occasional rain or showers, brighter periods, general rain probable again tomorrow; mild.
14. Mid-Scotland 15. N.E. Scotland	As 9 - 11.
16. Orkneys and Shetlands.	Southerly gale; dull, rain; mild or moderate temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind varying from between west and south, strong to gale, moderating temporarily; cloudy, occasional rain or showers, general rain probable again tomorrow; mild.

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

GENERAL INFERENCE.

A deep depression off Northwest Ireland and an associated trough over the Bristol Channel are both moving northeast, while a fresh depression is indicated over the Atlantic. Strong winds or gales will occur in all districts with occasional rain or showers.

FURTHER OUTLOOK.

Unsettled with strong winds or gales from between south and west.

Times of issue of Gale Warnings.

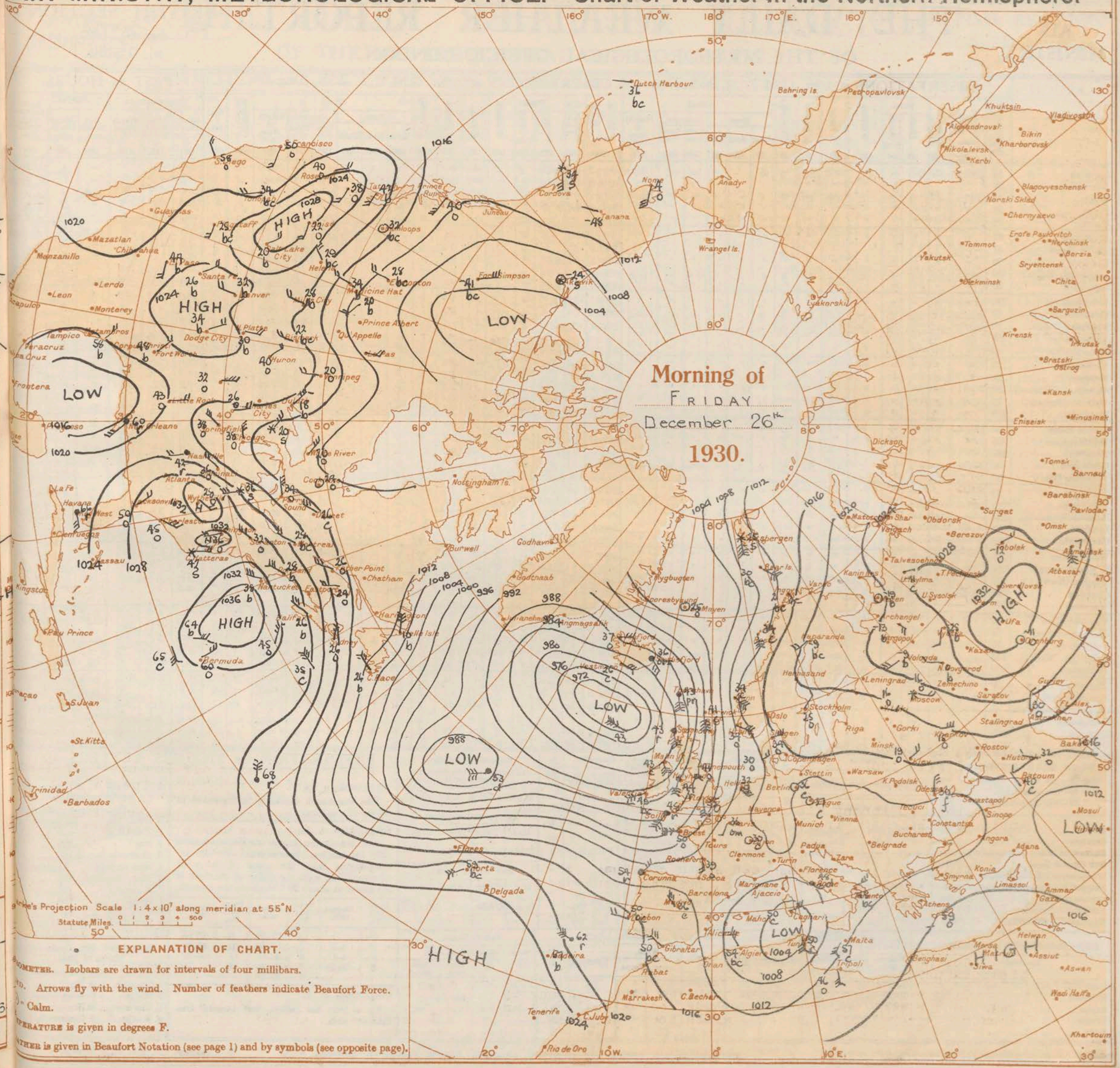
South Cone at 1515 on 25th in 5,6,7,8,12, 13A,13B,17,18,19,20.
South Cone at 1930 on 25th in 1,2,10,11,15,16

Forecasts issued at 1000 G.M.T.

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

H.M. Stationery Office Press, Kingsway, W.C.2
F= 2497/2/65. m. 26 D.8026. Gp. 908. 3/3/0. 12/30.

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

(0) = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 26th Dec 1930.

No. 25236

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

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)
Lerwick	54	1002·0	-20	S'E	6	ir$_o$	43	95	7	6	-	-	10	10	1500
Stornoway	34														
Wick	81	997·3	-26	S	7	c	44	86	8	8	-	-	9	9	1500
Tiree	22														
Nairn	82														
Aberdeen	37														
Malin Head	51														
Renfrew	36														
Inchkeith (Edin.)	190	999·7	-20	SE	4	c	42	95	8	5	2	-	4-6	9+	1500
Leuchars	30														
Eskdalemuir	794														
Tynemouth	67	1000·8	-20	SSE	5	o/r	44	85	8	6	-	-	10	10	1500
Blacksod Point	10	985·0	-46	SSW	9	RR	44	95	6	6	-	-	10	10	1150
Aldergrove	238														
Donaghadee	40														
Birr Castle	173														
Holyhead	26														
Liverpool (Bidston)	189														
Chester (Sealand)	16														
Harrogate	478														
Spurn Head	29	1002·4	+2	S	4	o	41	95	6	6	-	-	10	10	2500
Birmingham	535														
Cranwell	249														
Gorleston	14														
Valentia Obs.†	30	1005·3	+4	S'E	1	c	40	95	7	6	2	-	4-6	9	2500
Roches Point	22														
Pembroke	150	997·4	-18	SSE	5	q	46	95	7	5	-	-	10	10	1500
Ross-on-Wye	223														
Leafield	612														
Cardington	100														
Winchester	272														
S. Farnborough	237														
London (Kew)	18														
Croydon	244	1004·0	-2	SE'S	2	-	32	95	-	-	-	-	-	-	-
Manston	135														
Shoeburyness	11														
Clacton-on-Sea	55														
Felixstowe	15														
Scilly (St. Mary's)	163	1000·1	-16	SW	4	c	47	85	7	5	-	-	9+	9+	4000
Falmouth	200	1001·1	-18	SE'S	4	c	47	75	8	5	-	-	9	9	4000
Plymouth	82														
Portland Bill	32	1001·7	0	SE	5	c	45	75	8	4	-	-	10	10	1500
Calshot, S'hampton	8														
Dungeness	20														
Lympne	347														
Guernsey	173	1003·2	+4	-	0	0	41	95	7	5	-	-	10	10	1500

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

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)
Lerwick	997·2	-26	SSE	8	c	41	65	7	5	2	-	4-6	9+	1500	0	*
Stornoway	978·2	-54	SSE	7	rr	43	85	6	6	-	-	10	10	4000	2	5
Wick	988·1	-34	S	9	rr	43	85	8	6	2	-	7-8	9	1500	1	5
Tiree	976·9	-42	S'E	7	rr	43	95	6	6	2	-	7-8	10	800	1	5
Nairn	984·6	*	-	0	c	43	75	7	3	-	-	7-8	7-8	2500	0	*
Aberdeen	991·5	-42	SE	6	rr	43	95	7	6	-	-	10	10	800	1	4
Malin Head	977·8	-32	S	6	c/r	43	95	6	6	-	-	9+	9+	1500	1	3
Renfrew	987·2	-38	SSE	4	rr	40	85	6	6	-	-	10	10	1500	1	*
Inchkeith (Edin.)	990·4	-40	SSE	5	ir$_o$	41	95	7	5	-	-	10	10	1500	1	3
Leuchars	990·7	-40	ESE	5	r$_o$r$_o$	42	85	6	6	-	-	10	10	800	1	*
Eskdalemuir	990·3	-34	S'E	6	rr	36	85	6	6	-	-	10	10	1500	1	*
Tynemouth	995·6	-32	S	4	o/r	41	88	6	6	-	-	10	10	1500	1	4
Blacksod Point	980·2	-2	WSW	8	bc	48	75	7	8	-	-	4-6	4-6	1500	1	5
Aldergrove	983·8	-44	S'W	5	ir$_o$	42	95	7	6	-	-	10	10	800	1	*
Donaghadee	983·1	-40	SSW	2	c	45	95	7	6	-	-	9	9	800	1	2
Birr Castle	984·8	-14	SW	2	bc	45	85	8	8	-	-	4-6	4-6	2500	1	*
Holyhead	989·3	-44	S'W	6	r$_o$r$_o$	44	95	6	6	-	-	10	10	1500	1	4
Liverpool (Bidston)	991·9	-40	ESE	5	ir	38	85	7	6	-	-	10	10	1500	1	*
Chester (Sealand)	993·3	-48	SSE	6	ir$_o$	38	85	6	6	-	-	10	10	1500	1	*
Harrogate	998·2	-30	SE'S	4	c	35	85	7	6	2	-	4-6	10	2500	1	*
Spurn Head	999·3	-10	S'W	5	c	39	95	6	6	2	-	7-8	10	4000	1	3
Birmingham	997·4	-38	SSE	4	o	36	95	8	5	-	-	10	10	1500	1	*
Cranwell	999·0	-28	SSE	4	c	34	95	5	-	2	7	-	10	-	1	*
Gorleston	1003·0	-12	S'E	6	c	40	75	7	9	-	-	10	10	1500	0	3
Valentia Obs.†	989·3	+8	WSW	6	bc/pr	49	85	8	8	-	-	4-6	4-6	1500	1	4
Roches Point	989·6	-14	NW	4	c	46	95	8	3	-	-	7-8	7-8	1500	1	5
Pembroke	991·4	-36	SSW	7	RR	47	95	5	3	-	-	10	10	1500	1	3
Ross-on-Wye	996·0	-40	SE	5	ir$_o$	40	95	5	5	-	-	10	10	800	1	*
Leafield	998·8	-26	SE'S	5	o	34	95	6	6	-	-	10	10	1500	1	*
Cardington	1000·7	-28	SE'S	4	o	34	95	6	5	-	-	10	10	800	1	*
Winchester	999·1	-30	SSE	4	o	41	95	7	5	-	-	10	10	1500	1	*
S. Farnborough	999·7	-32	SSE	3	o	37	95	5	5	-	-	10	10	1500	1	*
London (Kew)	1000·6	-30	SE	3	o	37	85	6	5	-	-	10	10	2500	1	*
Croydon	1002·3	-20	SSE	4	o	36	85	6	5	-	-	10	10	2500	1	*
Manston																*
Shoeburyness	1002·7	-16	SE	4	c	36	85	7	5	-	-	7-8	7-8	2500	0	*
Clacton-on-Sea	1002·6	-10	SSE	5	bc	38	85	7	23	-	-	4-6	4-6	800	0*	3
Felixstowe	1002·7	-20	SSE	4	c	38	85	7	5	2	-	7-8	10	2500	1	3
Scilly (St. Mary's)	994·1	-24	SW'S	7	rr	48	95	6	6	-	-	10	10	2500	1	4
Falmouth	996·4	-30	SW'S	7	rr	47	95	6	6	-	-	10	10	2500	1	4
Plymouth	996·4	-36	SW	5	rr	47	95	6	6	-	-	10	10	1500	1	3
Portland Bill	998·0	-40	S	5	c	48	85	8	4	-	-	10	10	1500	1	4
Calshot, S'hampton	999·9	-30	S'E	4	c	44	85	7	5	-	-	9	9	1500	0	2
Dungeness			S	5	3	*	*	6	5	-	*	10	10	2500 1500	*	3
Lympne	1003·2	-10	SE'S	4	c	35	85	7	5	2	-	7-8	10	1500	1	*
Guernsey	1000·8	-20	SSW	3	o	45	95	6	5	-	-	10	10	1500	1	3

PAST 24 HOURS.

STATIONS.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 25th Hrs. (36)
Lerwick	44	41	*	-	1	0·0
Stornoway	46	43	*	-	1	0·3
Wick	44	43	*	0.4	1	*
Tiree	45	41	39	-	8	0·1 ~~1·0~~
Nairn	40	33	*	-	0·1	1·9
Aberdeen	43	41	39	0.2	<5	0·5
Malin Head	43	40	*	-	3	2·3
Renfrew	41	36	31	-	3	0·0
Inchkeith (Edin.)	46	40	35	-	0·2	0·5
Leuchars	44	38	36	0.6	2	1·7
Eskdalemuir	40	34	30	1	2	0·4
Tynemouth	45	41	38	-	5	*
Blacksod Point	47	44	*	0.1	12	*
Aldergrove	44	37	34	-	2	1·5
Donaghadee	46	43	*	-	6	*
Birr Castle	41	37	34	-	3	0·0
Holyhead	44	39	33	-	1	0·0
Liverpool (Bidston)	43	37	36	-	Tr	0·0
Chester (Sealand)	42	38	36	-	Tr	0·0
Harrogate	40	35	34	Tr.	0·1	0·0
Spurn Head	44	38	*	2	4	0·0
Birmingham	41	35	33	1	-	0·0
Cranwell	43	33	32	0.2	4	0·0
Gorleston	43	39	37	2	0·1	0·0
Valentia Obs.†	47	43	42	1	6	1·4
Roches Point	47	40	*	2	6	*
Pembroke	46	42	*	1	3	0·1
Ross-on-Wye	41	38	34	1	-	0·0
Leafield	41	32	31	2	-	0·0
Cardington	43	32	29	2	-	0·0
Winchester	44	33	30	2	-	0·0
S. Farnborough	43	30	20	1	Tr	0·0
London (Kew)	46	32	23	Tr	Tr	0·2
Croydon	44	31	28	1	-	1·2
Manston						
Shoeburyness	46	33	27	0·2	-	0·1
Clacton-on-Sea	45	38	36	3	0·2	0·0
Felixstowe	44	38	35	0·3	-	0·0
Scilly (St. Mary's)	48	45	*	-	1	2·0
Falmouth	48	44	*	Tr.	0.6	0·5
Plymouth	47	44	43	0·2	0·1	0·0
Portland Bill	48	43	*	0.4	-	*
Calshot, S'hampton	45	40	38	1	-	0·0
Dungeness	44	36	*	Tr.	-	*
Lympne	43	35	29	1.	Tr	0·0
Guernsey	44	41	39	0.4	-	0·0

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	cnr$_o$e3$_o$	bca$_o$b a$_o$	bca$_o$ox0m$_o$	46	32	23	2	Tr	0·2	•	•	6
Croydon	244	r	bc	bcn$_o$xcn$_x$	44	31	28	1	-	1·2	•	•	5
Greenwich (Royal Observatory)	149	cdnc	cbcc	cbcbbcc	46	30	19	0·3	Tr	0·0	82	91	6
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0·0	•	•	•
Westminster (St. James' Park)	27	•	•	•	46	35	31	-		0·0	81	87	•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•	•	•	•	•
Camden Square	110	o r o c	c o	•	43	36	27	Tr	-	•	•	91	•
Kensington Palace	80	o r c c	c b c	•	45	38	26	0·4	-	•	At 18h. 84	81	•
Hampstead Observatory	450	o f b c	b c	•	43	32	27	0·3	Tr	0·0	•	79	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 26th

South Kensington.			
Max.	Time.	Min.	Time.
1·0	10h. 25th	<0·3	5h.-7h. 26th

Kew Observatory.			
Max.	Time.	Min.	Time.
0·6	21h25m 25th	0·1	6h26m 26th

FOREIGN OBSERVATIONS.

STATIONS.	18h. G.M.T. 25th Dec. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 26th Dec. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1003·0	SSE	2	c	37	1007·1	SW	1	m	36
Brussels	1004·3	ESE	2	b	32	1006·3	SSE	3	c	25
Berlin	1009·3	SE	1	o	30	1011·8	-	0	m	30
Zürich						1012·5	S	1	3	28
Rome						1007·7	SE	3	a$_o$a$_o$	48

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
39	34	-	-
37	23	0·3	Tr.
30	28	-	

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

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

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 27th December 1930.

No. 26,237

OBSERVATIONS at 13h. G.M.T. 26th December

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)
Lerwick	993·8	-20	SSE	8	ir$_o$	40	95	7	6	2	–	4-6	10	1500
Stornoway ...	975·7	-2	SSE	7	c	45	75	8	8	2	–	7-8	9+	4000
Wick	984·4	-12	SSE	9	o	41	95	7	6	–	–	10	10	1500
Tiree	976·6	+14	SW	5	c	46	85	7	8	–	3	4-6	7-8	1500
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	987·8	-16	SSE	7	rr	40	85	6	6	–	–	10	10	800
Malin Head ...	979·7	+30	SW'w	6	c/pr	45	95	7	9	–	9	7-8	7-8	1500
Renfrew	983·8	-6	SE's	4	c/pr	40	85	7	9	–	–	9+	9+	1500
Inchkeith (Edin.)	986·2	-16	SSE	5	c	38	95	7	5	3	–	4-6	7-8	1500
Leuchars	984·4	-14	SE	6	c/r	38	85	6	6	3	1	9	9+	1500
Eskdalemuir ...	986·2	-8	S	4	o	34	95	6	5	–	–	10	10	1500
Tynemouth ...	989·7	-20	SSE	4	rs	35	95	6	6	–	–	10	10	1500
Blacksod Point ...	986·3	+40	W	8	c	47	75	7	8	–	–	7-8	7-8	450
Aldergrove ...	984·3	+14	SSW	5	c/pr	45	85	7	9	–	–	7-8	7-8	1500
Donaghadee ...	983·1	0	W	2	c	46	85	7	5	2	–	4-6	7-8	2500
Birr Castle ...	990·5	+30	WSW	4	c	47	75	8	8	–	–	7-8	7-8	2500
Holyhead... ...	989·7	+20	W	5	cjp	49	75	6	5	3	9	9+	9+	2500
Liverpool (Bidston)	987·9	-6	SSW	3	bc/pr	43	95	7	5	3	–	2-3	4-6	2500
Chester (Sealand)	988·7	-8	SSE	1	bc	46	95	6	8	–	–	2-3	2-3	2500
Harrogate... ...	990·0	-46	SE	2	sf	32	95	3	5	–	–	10	10	<150
Spurn Head ...	989·9	-28	S	7	RS	37	95	6	6	–	–	10	10	2500
Birmingham ...	990·3	-28	WSW	2	bc	44	95	6	5	–	–	4-6	4-6	1500
Cranwell	990·4	-54	SSE	5	rs	35	95	5	6	–	–	10	10	450
Gorleston	995·9	-36	SSE	7	rr	35	95	6	6	–	–	10	10	800
Valentia Obs. ...	995·3	+30	W's	5	bc	49	75	8	8	–	–	2-3	2-3	2500
Roches Point ...	994·1	+20	NW	4	bc	49	75	8	3	–	–	2-3	2-3	1500
Pembroke... ...	991·3	+14	W	7	pr	50	75	7	8	–	–	7-8	7-8	1500
Ross-on-Wye ...	991·7	-12	W's	3	cjp	47	85	8	9	–	–	7-8	7-8	2500
Leafield	990·6	-26	W	5	bc/r	45	95	8	8	–	–	4-6	4-6	1500
Cardington ...	991·4	-54	SSE	4	rr	40	95	5	6	–	–	10	10	450
Winchester ...	991·6	-32	W	5	c/r	46	85	7	9	–	–	7-8	7-8	800
S. Farnborough ...	990·8	-54	W	5	rr	45	95	5	6	–	–	10	10	800
London (Kew) ...	990·8	-62	S	3	rr	44	95	6	6	–	–	10	10	800
Croydon	993·1	-46	S'W	4	rr	44	95	5	6	–	–	10	10	450
Manston														
Shoeburyness ...	994·4	-48	S	3	RR	42	95	6	9	–	–	10	10	800
Clacton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe ...	995·6	-46	SE	5	RR	40	95	5	6	2	–	10	10	800
Scilly (St. Mary's)	997·7	+10	W'N	7	c	52	85	6	8	6	8	2-3	7-8	4000
Falmouth... ...	996·9	+4	W's	7	bc	52	65	7	3	1	–	4-6	4-6	4000
Plymouth... ...	996·4	+22	WNW	5	bc/r	49	85	7	9	–	1	4-6	4-6	1500
Portland Bill ...	992·8	-24	W'N	7	c	50	75	8	8	8	–	4-6	7-8	1500
Calshot, S'hampton	991·7	-42	W'N	7	q	51	75	8	8	7	–	4-6	7-8	1500
Dungeness ...	*	*	SW	6	rr	*	*	4	9	–	*	10	10	800
Lympne	995·3	-46	S'W	4	rr	42	95	5	6	–	–	10	10	<150
Guernsey	996·9	-18	WNW	5	bc	51	75	6	5	6	–	4-6	4-6	2500

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
993·9	-8	SSE	9	ir$_o$	40	85	7	6	–	–	10	10	1500	1	*
978·9	+24	SW	4	bc	44	85	7	3	–	–	4-6	4-6	4000	1	3
985·9	+6	SSE	9	o/r	42	95	7	9	–	–	10	10	1500	1	7
982·5	+38	SW	5	r$_o$r$_o$	46	95	7	9	7	–	7-8	9	1500	1	3
984·3	*	S'E	3	bc	40	75	8	–	8	4	0	4-6	–	0	*
989·6	+16	SSE	5	ir	41	85	6	6	–	–	10	10	800	1	4
986·4	+40	WSW	6	cjp	47	95	7	9	6	9	2-3	7-8	1500	1	4
987·4	+26	SSW	4	pr	45	95	7	8	–	–	9+	9+	1500	1	*
988·1	+44	SSE	3	c	39	95	6	5	–	–	7-8	7-8	2500	0	2
988·8	+22	S	2	c	38	95	6	8	–	–	9	9	2500	1	*
990·9	+34	–	0	ir$_o$	35	95	6	5	–	–	10	10	1500	3	*
991·9	+24	SSW	2	o/pr	37	95	6	6	–	–	10	10	1500	1	3
991·8	+24	W	6	c	47	65	7	8	–	–	4-6	4-6	800	0	4
991·4	+46	SSW	4	bc	42	85	7	5	7	–	2-3	4-5	2500	1	*
989·1	+24	WSW	2	b	45	75	7	–	–	–	0	0	–	0	1
994·5	+24	WSW	2	c	43	75	8	8	–	–	7-8	7-8	2500	1	*
995·6	+40	WNW	6	bc	47	75	6	5	3	–	2-3	2-3	2500	1	3
994·1	+32	WSW	4	c	45	85	8	5	–	–	7-8	7-8	2500	0	*
995·1	+44	W	3	bc	47	75	8	5	–	–	4-6	4-6	2500	1	*
993·5	+34	–	0	df	35	95	3	5	–	–	10	10	<150	3	*
992·6	+8	SW's	2	c	39	95	6	3	2	9	7-8	9+	2500	1	4
996·3	+34	W	3	b	44	85	8	–	–	–	0	0	–	1	*
994·3	+34	WNW	3	pr	42	95	7	6	–	–	9	9	800	1	*
993·6	+6	SSW	3	r$_o$r$_o$	40	95	6	6	–	–	10	10	1500	1	3
997·5	+10	WSW	5	c	47	75	8	5	2	–	7-8	9+	2500	1	4
998·4	+20	NW	3	bc	46	75	8	5	–	–	2-3	2-3	1500	0	3
997·6	+28	W	5	q	49	75	7	3	4	9	2-3	4-6	1500	1	3
997·9	+40	W's	3	b	45	75	8	1	–	9	Tr.	Tr.	4000	1	*
997·1	+40	W	5	bc	43	75	8	4	–	–	2-3	2-3	4000	1	*
995·7	+30	W'N	4	bc	45	85	7	5	–	–	4-6	4-6	2500	1	*
998·7	+40	W	4	b	45	75	8	–	–	–	0	0	–	1	*
997·3	+40	W	4	b	42	95	7	–	–	–	0	0	–	1	*
997·0	+50	W's	3	b	44	85	6	–	–	–	0	0	–	1	*
997·4	+42	W's	4	b	44	85	6	–	–	–	0	0	–	1	*
995·4	+40	W's	4	b	44	85	5	–	–	–	0	0	–	1	*
994·0	-26	WNW	4	c	43	95	7	5	–	–	9	9	800	1	3
993·9	+2	W'N	2	bc/r	42	95	7	5	–	–	4-6	4-6	2500	1	1
1002·3	+30	W'N	5	bc	50	85	7	8	–	–	4-6	4-6	4000	1	4
1002·6	+10	SW'w	4	c	49	75	7	4	–	–	7-8	7-8	4000	0	2
1001·3	+28	WNW	5	bc	49	75	7	5	–	–	2-3	2-3	2500	1	3
999·2	+36	W	7	c/pr	50	75	8	4	4	–	4-6	7-8	2500	2	5
999·1	+48	W	3	b	46	75	7	–	–	–	9	9	–	1	2
*	*	W	3	b	*	*	7	–	–	*	0	0	–	*	3
995·3	+30	W	4	b	45	85	6	–	–	–	0	0	–	1	*
1002·1	+30	WNW	4	bc	51	65	6	5	6	–	4-6	4-6	2500	1	4

PAST 24 HOURS.

WEATHER. 7h.–13h. 26th (37)	13h.–18h. 26th (38)	18h. 26th to 1h. 27th (39)	1h.–7h. 27th (40)
coir$_o$	oir$_o$	ocr	oir$_o$
c	oid, bc	cbc	bcrr
crro	ocrrc	crre	c
c$_o$q$_o$iR	qc	cPR	rRr
cdoqbc	cbc	bcq	cpr
orrq	orrir	orcr$_o$	cr$_o$
cbccir	cpor	cp$_o$bcbcc	ocirb
rrcpr	cpr	R,b,c	c,rr
oir$_o$c	c	cir$_o$bc	bcor$_o$o
or$_o$rrcq	cpqrcq	crcm$_o$	rorrq
orsosos$_o$	oirid,m$_o$	od$_o$prc	corroir
orsrs	oir$_o$s	obc$_o$bc	bcoir$_o$
prz	prq,bc	rrq	prq
cr$_o$por	cp$_o$rc bc	bccc	crrc
cp$_o$rc	cbcb	bbcc	crr
cpor	cpor	cp$_o$r	cprbc
rRqbcpor	cbcm$_o$	bccm	rirq
rprbc	? prcc	cbc	corqip
rRm$_o$	prqcbc	bbc	corir$_o$
cofss	offsd$_o$	of b	or
rSrs	orsc	cirobc	bcc
oror	bcb	bbc	cor
oRSRSSSrs	orsm$_o$co	cr$_o$b	bm$_o$c
oqr$_o$r$_o$	orrq	orbc	bcc
bccpp$_o$bcb	bbc p$_o$c	crpr$_o$p$_o$	cr$_o$irpbq
cpbc	bcpbc	bccpc	cpbc
iRbcq	bcq	bccrq	orrmq
dr$_o$r$_o$bcc	pbcb	bbcc	cd$_o$
omRRbc	bcbpo	b	bcod
cdoor$_o$rm$_o$	orrm$_o$bc	bcb	bccid$_o$
codamrrR	bcqb	bbcc	c
cm$_o$od$_o$rrm	orr bccfpq	bo	oid$_o$
cm$_o$cm$_o$rr	bcbm$_o$	bm$_o$	c
odr$_o$rrm$_o$	orrm$_o$cb	bm$_o$	bcm$_o$
orrm$_o$	orrom$_o$	bm$_o$	cpr$_o$c
brc	bcorr	cbc	bcc
crrRm$_o$	cRRcm$_o$bc	bcb	cm$_o$
orcp$_o$	cbcp	c	cidm
oircbcq	bcq,	cq	orrmq
orrqcpRb	cm$_o$b	bo	adm$_o$d$_o$
Rrrc	cp$_o$r	c	co3$_o$
cr$_o$orrrqcp	cbcqb	bwc	c,cir$_o$
o	bc	*	o
orrm$_o$	orrcbm$_o$	b	bbcm$_o$
oiarc	bccbc	bcebc	bccor

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,
R, heavy rain. r$_o$, slight rain.
rr, continuous rain.
<, less than (for cloud height).
⊕, solar halo. ☾, lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus :—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

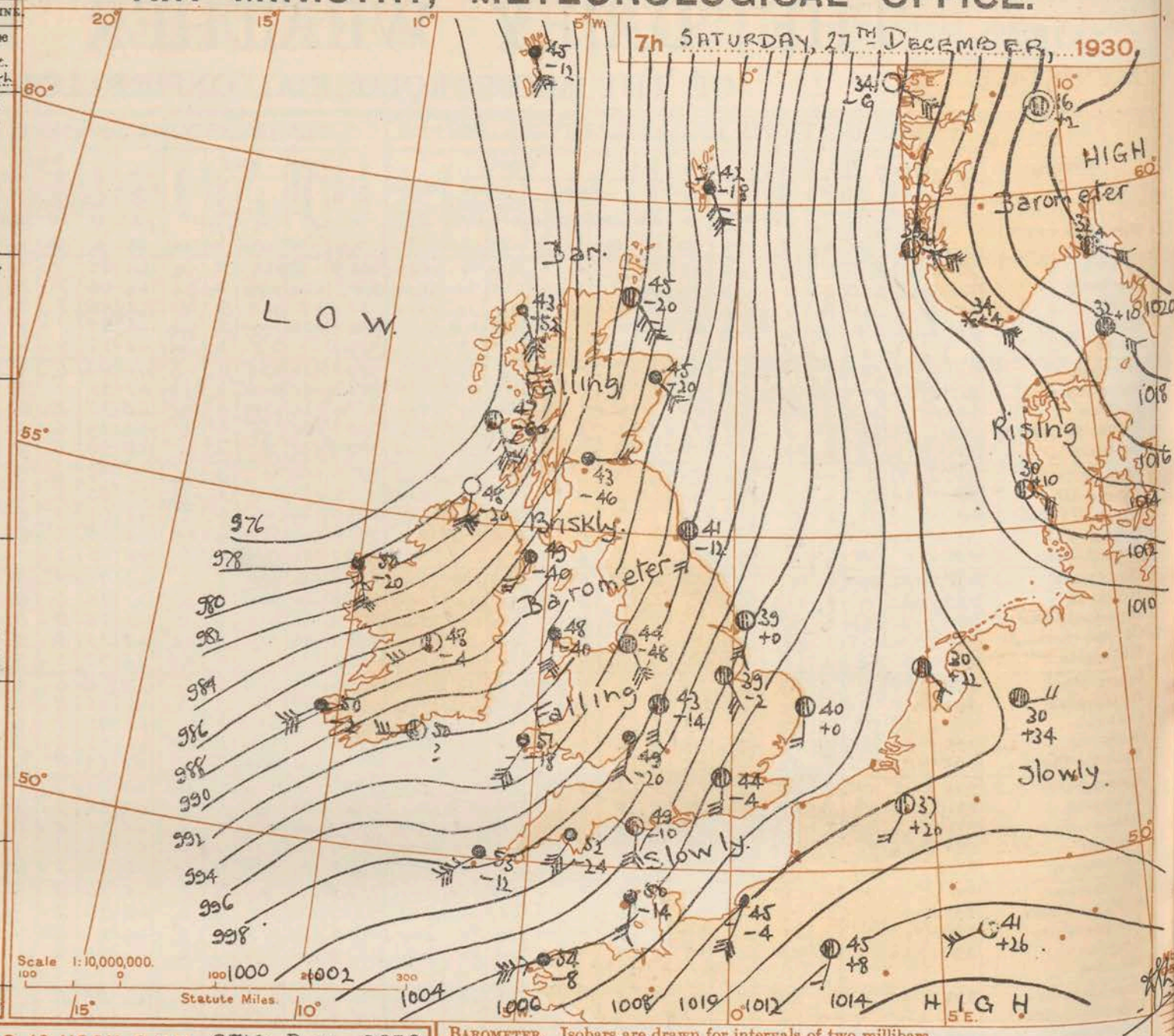
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 26th December 1930.

Stations	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 25th to 9h. 26th	Temperature. Max. 9h.—17h. 26th	Rainfall. Night. 17h. 25th to 9h. 26th	Rainfall. Day. 9h.—17h. 26th	Sunshine. Sunrise to Sunset. 26th
Dunbar	crsbc	bc	36	38	5	3	0·5
Berwick-on-T.	orsc	or	35	39	9	1	0·0
Douglas	oRRsbc	cirbc	42	48	10	1	1·0
Llandudno	rcbc	cir	41	49	1	3	1·1
Colwyn Bay	rrobc	bcroo	39	49	4	4	0·3
Rhyl	erbc	cprbc	38	48	1	4	0·5
Wallasey	orr	c/ro	38	47	1	2	0·5
Southport ‖	or	coro	36	47	2	4	0·0
Blackpool	or	cbcc	36	47	3	3	0·4
Morecambe							
Ilkley	s	sorof	33	35	4	7	0·0
Cleethorpes	orsS	Srso	36	39	4	12	0·0
Mablethorpe	orsrm	orrm	32	39	2	11	0·0
Skegness	omr	ro	35	40	1	8	0·0
Aberystwyth	cprq	cprbc	42	48	1	1	0·2
Bath †	rrc	pcbcb	38	50	3	3	0·8
Cheltenham †	orrc	bcroc	36	47	1	5	1·7
Leamington Spa	or	orco	36	47	1	5	1·8
Lowestoft	oco	oirc	37	41	~	~	0·0
Dovercourt	oc	rcc	37	43	~	9	0·0
Maldon	or	ro	35	44	~	8	0·0
Southend	omr	orbc	36	44	~	7	0·0
Ilfracombe	co	op	43	51	5	1	0·3
Bude	cbc	bcbc	43	51	3	~	1·8
St. Ives							
Penzance	c	cbc	45	53	5	~	1·8
Torquay	orrork	dcbc	45	52	3	2	3·6
Jersey	dc	dcbcc	40	52	Trace	1	0·4
Weymouth	rdcc	bcc	43	51	3	2	0·8
Bournemouth	r	bc	41	50	0·3	5	1·5
Ventnor	ouor	orcb	40	50	Trace	2	0·9
Southsea	or	or	39	51	~	4	1·0
Bognor Regis	docbc	o	40	50	~	3	0·3
Littlehampton	cr	crbc	39	50	~	3	0·8
Worthing	or	cbc	40	51	~	3	0·6
Brighton	ocrc	cod	40	50	~	3	0·4
Eastbourne †	qorr	rocbc	39	49	~	4	0·4
Hastings †	or	orrcbc	38	48	0·2	6	0·3
Folkestone	xor	orcbc	35	48	~	9	0·0
Dover	or	robc	36	48	~	9	0·0
Deal	or	orcb	32	47	~	7	0·4
Tunbridge Wells	or	orcb	32	47	~	7	0·4
Ramsgate	co	orc	36	45	~	7	0·0
Margate	cr	cr	35	45	~	10	0·0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 27th Dec. 1930.
1. S.E. England 2. E. England 3. E. Midlands	Southerly to westerly winds, strong, reaching gale force at times; rain followed by showers and bright intervals; mild at first, somewhat cooler later.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Southwesterly to northwesterly winds strong, reaching gale force at times; rain at first followed by showers and bright intervals; mild at first, a little cooler later.
10. N.E. England 11. S.E. Scotland	As 1 - 3.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. / B. N.W. Scotland. 14. Mid-Scotland	As 4 - 9.
15. N.E. Scotland 16. Orkneys and Shetlands.	Southerly to southwesterly winds, strong, reaching gale force at times; rain followed by showers and brighter intervals; mild.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Southwesterly to northwesterly winds, strong, reaching gale force at times; squally showers and brighter intervals; normal temperature.

Barometer. Isobars are drawn for intervals of two millibars.
Wind. Arrows fly with the wind. Number of feathers indicate Beaufort force.
Temperature is given in degrees F. Calm, ⊙
Weather Symbols :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 1/10 clouded. ◕ Sky 1/10 to 1/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡° Mist. T Thunder. K Thunderstorm.
Sea Disturbance. ~ Rough. ≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

An intense depression centred off the northwest seaboard will move eastward together with associated secondaries. Weather will be very unsettled generally with strong winds or gales and rain and showers in all districts.

FURTHER OUTLOOK.

Unsettled with strong winds and rain at times or showers.

Times of Issue of Gale Warning.

South cone at 1515 on 25th in 5,6,7,8,12,13A, 13B.

South cone at 1930 on 25th in 1,2,10,11,15,16 17,18,19,20.

Forecasts issued at 0930 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2.
F.- 2497/2165 m. 26 D.6026. Cp. 308. 3/30.

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

Morning of

27th. DECEMBER,

SATURDAY.

1930.

Lambert's Projection Scale 1 : 4×10^7 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 the wind. Number of feathers indicate Beaufort Force.

○ Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 27th December 1930.

No. 25,257

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

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)
Lerwick	54	992·2	+4	SSE	2	hz	41	85	7	6	-	-	10	10	1500
Stornoway ...	34	983·5	+10	SW	3	bc	46	95	7	4	-	-	2·3	2·3	4000
Wick	81	988·5	+10	SSE	8	c	42	95	7	6	2	-	7·8	10	1500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head ...	51	988·7	-4	S	6	hz	44	86	7	6	-	-	10	10	1500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	993·7	+22	SW	3	bc	43	95	8	-	1	-	0	2·3	-
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir ...	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth ...	67	987·3	+20	SW	2	bc	37	95	6	2	-	-	4·6	4·6	2500
Blacksod Point ...	10	984·2	-60	SE	7	rr	46	95	6	6	-	-	10	10	1150
Aldergrove ...	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee ...	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle ...	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead... ...	26	988·2	+2	SW's	4	c	48	75	6	-	2	-	0	10	-
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate... ...	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head ...	29	999·2	+12	W's	1	bc	39	95	6	-	1	-	0	2·3	-
Birmingham ...	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1001·5	+28	WSW	3	b	38	85	6	-	-	-	0	0	-
Gorleston	14	1001·4	+36	-	0	bc	42	95	6	-	1	-	0	4·6	-
Valentia Obs.† ...	30	982·0	-46	SSW	7	dd	52	95	6	6	-	-	10	10	1500
Roches Point ...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke... ...	150	999·4	+2	SW	4	q	50	75	7	5	-	-	10	10	2500
Ross-on-Wye ...	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington ...	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester ...	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew) ...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1003·0	+16	SW	4	bc	43	85	7	-	-	4	0	2·3	-
Manston	135	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness ...	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	168	1001·7	-10	SW's	5	c	51	85	7	5	-	-	9+	9+	4000
Falmouth... ...	200	1003·1	+4	SW's	5	c	50	85	7	5	2	-	7·8	10	4000
Plymouth... ...	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill ...	32	1003·7	+12	WSW	4	c	50	85	7	4	-	-	10	10	2500
Calshot, S'hampton	8	1004·1	+16	WSW	3	c	46	85	8	-	-	7	0	9+	-
Dungeness ...	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1004·0	+42	WNW	3	b	39	95	7	-	-	-	0	0	-
Guernsey	173	1005·2	+16	WSW	1	bc	50	85	6	5	-	-	4·6	4·6	2500

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

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
992·3	-18	SSE	9	hz	42	95	7	6	-	-	10	10	1500	1	*
977·7	-52	SSE	7	rr	43	85	8	6	-	-	10	10	4000	2	4
986·7	-20	SSE	9	c	45	85	8	6	-	-	10	10	1500	1	7
986·8	-60	SSE	8	c	47	95	8	7	-	-	7·8	9	1500	1	5
983·2	•	SE	4	c	44	85	8	3	-	-	7·8	7·8	2500	0	*
991·3	-20	SE	5	hz	45	85	7	6	-	-	10	10	1500	1	4
978·5	-20	S	6	r	48	95	8	6	-	-	1	1	2500	1	4
987·7	-46	E	4	rr	43	85	8	6	2	-	7·8	10	1500	2	*
990·9	-28	SSE	3	hz	43	85	8	6	-	-	10	10	800	1	*
991·3	-30	SE	5	rr	41	85	8	6	-	-	10	10	450	1	*
991·0	-40	S	5	ir	39	95	8	6	-	-	10	10	1500	1	*
995·9	-12	S	2	o	41	95	8	6	-	-	10	10	1500	1	3
976·9	-20	SSE	8	cbr	50	95	7	7	-	-	7·8	7·8	*	1	5
984·0	-40	S'E	5	bc	48	95	7	6	-	-	2·3	2·3	2500	1	*
984·8	-40	SW	3	rr	49	95	7	6	-	-	9	9	800	1	2
986·4	-4	SW	3	bc	48	85	8	8	-	-	4·6	4·6	2500	1	*
990·9	-40	S	6	r	46	95	8	6	-	-	10	10	800	1	4
993·2	-40	ESE	6	o	44	95	7	6	-	-	10	10	1500	1	*
995·6	-48	SE'S	6	r	44	95	7	5	-	-	10	10	1500	1	*
996·7	-34	SE	3	rr	38	95	7	5	-	-	10	10	2500	3	*
1000·8	0	SSW	4	c	39	95	8	6	2	-	9	10	4000	1	4
1000·0	-14	S	4	o	43	95	8	6	-	-	10	10	2500	1	*
1001·1	-2	SE	3	c	39	95	8	6	2	-	9	10	2500	1	*
1004·5	0	SSW	2	c	40	95	8	6	2	-	4·6	10	2500	0	2
987·7	-2	SW'S	6	bc	50	75	8	3	-	-	2·3	2·3	2500	1	4
992·8	+10	W	3	bc	50	95	8	3	-	-	4·6	4·6	1500	1	4
993·6	-18	SSW	7	rr	51	95	8	6	2	-	9	10	800	1	4
998·9	-20	S	4	id	47	95	8	6	2	-	9+	10	1500	1	*
1000·8	-14	S'E	5	d	43	95	8	6	-	-	10	10	1500	1	*
1002·9	-4	S'E	3	c	42	95	7	5	-	-	7·8	7·8	1500	1	*
1002·4	-10	S'E	4	o	47	95	7	5	-	-	10	10	800	1	*
1003·0	-8	S	2	ir	45	95	7	6	2	-	9	10	1500	1	*
1003·7	-10	S'E	2	c	44	95	7	5	2	-	7·8	10	1500	1	*
1004·5	-4	S	3	cm	44	85	6	-	2	-	0	10	-	1	*
1005·2	0	SSW	2	c	42	95	6	7	-	-	9+	9+	2500	1	*
1004·6	+10	SW	2	c	42	95	6	5	-	-	7·8	7·8	800	0	2
1005·4	+2	SSW	2	cm	41	95	6	5	-	-	10	10	4000	1	1
998·3	-12	SW'W	7	id	53	95	6	6	-	-	10	10	2500	1	4
999·0	-6	SW	7	o	53	95	6	6	-	-	10	10	2500	1	3
999·7	-24	SW	6	d	52	95	6	6	-	-	10	10	450	2	4
1001·2	-22	S	5	ir	51	85	6	6	-	-	10	10	1500	1	4
1003·1	-10	S'W	5	c	49	85	7	5	2	-	7·8	10	1500	1	2
•	•	S	3	bc	•	•	•	-	•	-	4·6	4·6	1500	•	3
1005·6	0	SE'S	2	cm	43	95	6	5	-	-	7	9+	4000	1	*
1004·3	-14	S	4	rr	50	95	6	5	-	-	10	10	1500	1	4

PAST 24 HOURS.

Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 26th Hrs. (36)
41	40	*	0·6	5	0·0
46	42	*	1	3	0·0
54	42	*	3	1	*
47	42	41	5	5	0·1
42	39	*	Tr.	0·3	1·5
44	41	39	17	3	0·0
47	43	*	3	3	1·1
45	42	39	6	6	0·8
41	39	38	0·1	1	1·3
43	37	36	7	4	0·0
36	34	32	9	3	0·0
41	37	31	5	1	*
49	45	*	1	9	*
45	38	35	0·1	4	0·2
47	40	*	0·3	6	*
47	39	32	0·4	4	0·8
50	45	41	9	5	1·6
46	41	37	3	2	0·7
48	40	34	6	1	1·0
35	35	31	10	1	0·0
39	38	*	9	0·2	0·0
46	39	38	5	1	1·1
43	37	34	7	Tr.	0·0
40	38	37	8	0·2	0·0
50	46	45	0·1	5	1·8
50	45	*	1	3	*
51	47	*	5	1	2·8
48	42	34	3	0·1	0·8
46	37	32	8	0·1	1·4
45	36	31	6	0·1	0·2
49	39	31	6	-	1·4
48	39	30	5	0·1	0·9
47	38	32	7	Tr.	0·6
45	38	35	5	-	0·2
48	39	36	8	Tr.	0·0
44	37	35	8	-	0·0
43	39	34	9	-	0·0
52	48	*	1	0·6	3·4
52	49	*	3	2	2·6
52	48	46	4	1	1·8
52	49	*	3	-	*
51	41	32	5	Tr.	0·9
48	41	*	6	Tr.	*
46	37	32	7	Tr.	0·0
52	50	44	3	0·2	1·0

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18				47	38	32	4	Tr	0·6	•	•	6
Croydon	244				47	41	35	5	-	0·2	•	•	6
Greenwich (Royal Observatory) ...	149				47	39	31	5	Tr	0·0	92	91	5
City (Bunhill Row)	—				•	•	•	•	•	0·0	•	•	•
Westminster (St. James' Park) ...	27				48	37	30	•	•	0·0	92	85	•
Regents Pk. (Botanic Gardens) ...	168				•	•	•	•	•	•	•	•	•
Camden Square	116				47	38	33	9	-	•	•	92	•
Kensington Palace	80				46	39	29	4	Tr.	•	At 18h. 84	92	•
Hampstead Observatory	450				44	36	27	8	0·1	0·0	•	93	•

Weather: Morning / Afternoon / Night — 24 hrs. ended 9h.

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 26th December: Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 27th December: Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1002·2	SSW	2	cld	45	1011·1	SW	1	c	45
Brussels	995·2	S	4	r	37	1008·6	SSW	2	bc	37
Berlin	1009·9	SSE	2	c	30					
Zürich										
Rome	1011·7	ESE	3	c	46					

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
45	43	2	-
37	37	0	2
31		-	
52		3	

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 27th

South Kensington. Max.	Time.	Min.	Time.
1·0	15h 26th	<0·3	24-7h 27th

Kew Observatory. Max.	Time.	Min.	Time.
0·3	20h 26th	<0·1	6h 27th

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

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

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 28th Dec. 1930.

No. 25238

OBSERVATIONS at 13h. G.M.T. 27th Dec

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)
Lerwick	986·8	-40	SE.	10	rr	40	95	6	6	-	-	10	10	1500
Stornoway	968·1	-48	S	8	c	46	85	6	6	8	-	4-6	7-8	4000
Wick	978·1	-44	SSE	9	c	45	85	7	9	6	-	4-6	7-8	1500
Tiree	969·2	-52	S	8	rr	45	85	6	6	2	-	9+	10	800
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	982·3	-46	S	4	c|r	46	85	6	9	-	-	9+	9+	450
Malin Head	973·4	-26	S'W	8	c|r	47	95	6	6	-	-	9+	9+	1500
Renfrew	981·9	-18	SSW	6	q	49	65	7	8	7	-	7-8	9	2500
Inchkeith (Edin.)	983·0	-12	SW	5	bc	50	85	8	5	-	-	2-3	4-6	5700
Leuchars	983·0	-28	S	5	bc	47	85	8	1	-	-	4-6	4-6	2500
Eskdalemuir	988·2	-14	SSW	7	c	46	95	7	5	-	-	9+	9+	1500
Tynemouth	988·5	-20	SSW	3	bc	46	86	6	2	-	-	2-3	2-3	2500
Blacksod Point	978·4	+4	WSW	9	PH(R)	43	85	6	6	-	-	10	10	2500
Aldergrove	982·6	-10	S'W	7	c	47	75	7	8	-	-	7-8	7-8	2500
Donaghadee	983·2	-10	SW	2	bc	47	75	7	3	-	-	2-3	2-3	4000
Birr Castle	988·1	-12	WSW	5	pr	45	85	6	3	-	-	9+	9+	2500
Holyhead	991·5	+2	SW	6	q	51	75	6	6	3	-	5-	1	1500
Liverpool (Bidston)	991·5	0	SW	6	q	50	65	8	4	-	-	1	1	4000
Chester (Sealand)	993·3	+4	SW'W	5	b	52	65	7	5	-	-	1	1	2500
Harrogate	992·0	-6	SSW	4	b	48	86	7	6	-	-	1	1	2500
Spurn Head	993·5	-18	SSW	6	rr	45	85	6	6	-	-	10	10	2500
Birmingham	996·5	-2	WSW	5	bc	50	75	8	1	6	-	2-3	2-3	2500
Cranwell	998·2	-28	SSW	5	$r_o r_o$	49	85	6	6	-	-	10	10	800
Gorleston	999·9	-40	S	7	$r_o r_o$	46	85	6	6	-	-	10	10	1500
Valentia Obs.	992·1	-30	SW	7	pr_o	47	75	8	6	2	-	7-8	7-8	2500
Roches Point	994·4	+10	W	4	bc	48	75	8	3	-	-	2-3	2-3	1500
Pembroke	995·3	0	SW'W	6	q	51	75	7	7	8	-	4-6	4-6	2500
Ross-on-Wye	997·3	0	WSW	4	bc	52	75	7	1	-	9	2-3	2-3	4000
Leafield	998·3	0	SW'W	5	bc|r	47	85	7	8	-	9	4-6	4-6	1500
Cardington	998·1	-22	SSW	5	$r_o r_o$	51	95	6	6	-	-	10	10	800
Winchester	1000·1	-14	SSW	4	Dr	53	95	4	6	-	-	10	10	220
S. Farnborough	999·8	-18	SW'S	4	dd	52	95	5	6	-	-	10	10	450
London (Kew)	999·9	-24	SSW	4	$i d_o$	52	95	5	5	2	-	7-8	10	1500
Croydon	1001·3	-26	SSW	4	$d_o d_o$	51	95	5	6	-	-	9+	9+	450
Manston														
Shoeburyness	1002·1	-32	S'W	6	c	49	95	7	8	-	-	10	10	1500
Clacton-on-Sea	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe	1001·5	-34	S'W	5	c|d	46	95	7	5	2	-	7-8	10	800
Scilly (St. Mary's)	1002·0	+8	WSW	7	bc	53	75	6	1	-	-	2-3	2-3	4000
Falmouth	1001·9	0	SW	7	bc	53	75	7	5	-	-	4-6	4-6	4000
Plymouth	1001·8	+18	WSW	6	bc	53	75	7	1	-	-	2-3	2-3	1500
Portland Bill	1000·8	0	SW	5	c	52	85	7	4	-	-	9+	9+	1500
Calshot, S'hampton	1001·0	-8	SW'W	6	$d_o d_o$	52	95	6	6	-	-	10	10	450
Dungeness	*	*	SSW	5	$d_o d_o$	*	*	5	6	-	*	10	10	1500
Lympne	1002·7	-14	S'W	5	df	48	95	2	5	-	-	10	10	<150
Guernsey	1004·7	+4	WSW	4	$i d_o$	52	95	6	6	-	-	10	10	1500

OBSERVATIONS at 18h. G.M.T. 27th Dec

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)
Lerwick	977·4	-46	SSE	9	ir	43	95	6	6	-	-	10	10	1500	2	*
Stornoway	962·3	0	SSW	7	o|r	46	95	6	6	-	-	10	10	4000	2	5
Wick	970·8	-28	SSE	9	c	46	88	7	3	-	-	10	10	1500	1	7
Tiree	970·8	+28	SW	9	c|r	46	85	6	8	7	-	9	10	800	1	5
Nairn	970·7	*	S	7	q	44	75	8	5	-	2	4-6	4-6	4000	0	*
Aberdeen	978·9	-20	SSE	4	c	46	75	6	8	-	-	7-8	7-8	2500	1	4
Malin Head	977·7	+48	SW'W	8	c|r	46	95	6	6	1	-	4-6	10	1800	1	5
Renfrew	980·4	-10	SSW	6	pr	46	75	7	8	-	-	9+	9+	1500	2	*
Inchkeith (Edin.)	981·1	-10	SW	6	c	46	88	8	5	1	-	4-6	10	1500	0	4
Leuchars	981·2	-6	SSW	7	r_o	46	65	8	6	7	-	2-3	9+	2500	1	*
Eskdalemuir	985·5	+8	SW'W	7	c	43	75	7	5	-	-	9+	9+	1500	1	*
Tynemouth	989·8	-10	WSW	4	bc	46	75	7	8	-	-	4-6	4-6	2500	1	3
Blacksod Point	988·1	+66	WSW	8	c	47	65	6	3	-	-	9+	9+	<150	0	7
Aldergrove	985·5	+40	SSW	7	c|pr	43	85	7	8	-	-	9+	9+	1500	1	*
Donaghadee	984·9	+14	W	4	c	45	75	7	6	3	-	2-3	7-8	4000	0	2
Birr Castle	992·9	+32	WSW	4	bc|pr	42	75	8	3	-	-	4-6	4-6	2500	1	*
Holyhead	994·6	+30	SW'W	7	u	47	75	7	8	-	-	2-3	2-3	1500	1	4
Liverpool (Bidston)	993·9	+14	SW	6	q	47	65	8	5	-	-	4-6	4-6	4000	0	*
Chester (Sealand)	995·4	+20	SW	6	q	48	65	7	3	-	-	2-3	2-3	2500	0	*
Harrogate	993·5	+10	SSW	5	b	48	75	7	-	3	-	0	Tr	-	1	*
Spurn Head	995·4	+2	WSW	4	bc	45	85	7	-	1	-	0	2-3	-	1	4
Birmingham	999·8	+26	SW	4	bc	47	75	8	6	-	-	4-6	4-6	1500	1	*
Cranwell	997·9	+26	SW'W	5	bc	46	75	6	7	-	-	2-3	2-3	4000	1	*
Gorleston	1000·1	+24	SW	3	bc	48	85	7	-	8	-	0	4-6	-	1	3
Valentia Obs.	999·0	+46	SW'W	7	ph	44	75	8	6	-	-	9	9	1500	1	5
Roches Point	999·0	+34	W	4	bc	49	75	8	3	-	-	4-6	4-6	1500	1	4
Pembroke	998·7	+20	SW'W	7	q	50	75	7	8	4	1	2-3	4-6	2500	1	4
Ross-on-Wye	1000·8	+20	WSW	5	b	47	75	8	1	-	-	1	1	4000	1	*
Leafield	1001·3	+14	SW	5	bc	45	75	8	3	-	-	2-3	2-3	4000	1	*
Cardington	1001·0	+14	WSW	5	b	47	75	7	-	3	-	-	1	-	1	*
Winchester	1004·0	+24	SW'S	4	b	48	85	7	5	-	-	1	1	2500	1	*
S. Farnborough	1002·9	+20	WSW	4	bc	47	85	7	5	-	1	1	2-3	1500	1	*
London (Kew)	1003·2	+14	SW	3	bc	47	95	6	7	7	8	Tr	2-3	2500	1	*
Croydon	1003·5	+20	SW	4	3	49	95	6	-	-	5	-	2-3	-	1	*
Manston																*
Shoeburyness	1003·4	+26	S'W	3	c	47	95	5	-	1	-	0	7-8	-	1	*
Clacton-on-Sea	1002·1	+14	SSW	4	bc	45	95	6	-	5	-	0	4-6	-	1	3
Felixstowe	1002·3	+10	SW'W	3	bc	45	85	7	-	-	8	0	4-6	-	1	2
Scilly (St. Mary's)	1005·1	+30	SW	7	bc|pr	47	95	7	3	-	-	4-6	4-6	4000	1	5
Falmouth	1005·4	+8	S	7	bc	50	75	8	3	-	-	4-6	4-6	4000	0	3
Plymouth	1005·0	+20	W	5	bc	51	75	7	9	-	-	2-3	2-3	2500	1	4
Portland Bill	1003·9	+18	WSW	6	c	52	75	7	4	2	-	7-8	9+	1500	1	4
Calshot, S'hampton	1003·7	+14	WSW	5	bc	49	85	6	-	-	3	-	4-6	-	1	3
Dungeness	*	*	WSW	4	c	*	*	7	4	1	*	4-6	7-8	2500	*	3
Lympne	1004·2	+22	SW'W	4	c	47	95	7	5	9	8	1	9+	4000	1	*
Guernsey	1007·6	+30	W	4	bc	52	85	6	5	-	-	4-6	4-6	2500	1	4

PAST 24 HOURS.

Stations.	Weather. 7h.—13h. 27th (37)	Weather. 13h.—18h. 27th (38)	Weather. 18h. 27th to 1h. 28th (39)	Weather. 1h.—7h. 28th (40)
Lerwick	orr	orrir$_o$	oic_o	oir$_o$
Stornoway	eiRtL	oiR		beir
Wick	errc	c	cir	$cir_o r$ bc
Tiree	cqire	$ciRr_{so}$	cPRq	PR
Nairn	cd_obcq	bcq	cq PRq	q|prbc
Aberdeen	orrqc	cbcc	bc	bc
Malin Head	bbc $c_3 o_3 o$	$cic_3 o_3 o$	cq_{PR} $bc_3 o_3 o$	c PRbc
Renfrow	rrbcq	cprq	f_o R q	cpr_o q
Inchkeith (Edin.)	cirbc	bcc	$bccr_o$	bc
Leuchars	$orrq_{mo}$bc	bccprcq	cbcpr$_o$q	bcprq
Eskdalemuir	orrcq	cq	cpir$_o$	c
Tynemouth	orrqbc	bcpq	bcq	bcq
Blacksod Point	phrlq	prq	phq	phq
Aldergrove	cbcb	bccpr$_o$pre	cepre	c
Donaghadee	rrbc	bc	bcb	b
Birr Castle	bccprq	cpr	cprrl	bcpr$_o$
Holyhead	$r_o$cbcbq	pr$_o$q	bcbq	bcbq
Liverpool (Bidston)	cprbbcqb	bqbq	bcqyb	b
Chester (Sealand)	ir$_o$bcq	bcprq	bq	bcprq
Harrogate	oriRb	bcbq	bq	bbcpq
Spurn Head	cor$_o$r	cr$_o$bc	bcq	bcq
Birmingham	oir$_o$r	bc	bc	bccpr
Cranwell	cd_orr	crpb	bz$_o$	b-cpr$_o$b
Gorleston	oir$_o$q	orrqc	bcbq	bc
Valentia Obs.	bbcpbccp$_o$	cp$_o$bccph	bccph$_o$	cph$_o$q
Roches Point	bcqpbc	bcpqbc	bcpqb	bbc
Pembroke	rrbcq	bcq	bpbq	bbcpq
Ross-on-Wye	d_{og}ig$_{gbc}$	bc	bqbccb	bbcor
Leafield	oirkqc	bcq	b	b
Cardington	cd_ocor$_{go}$	or_{so}bcb	bbw	bw
Winchester	oddm	odrcbc	b	bbcb
S. Farnborough	cod_od	odd_obbc	b	bbcb
London (Kew)	id_ocm$_o$	crbcbm$_o$	bm$_o$b	bw
Croydon	ddd_o6m$_o$	orrcr$_o$bcm	bcmbc$_o$	b
Manston				
Shoeburyness	o	oiRcm$_o$	cm$_o$	bc
Clacton-on-Sea	c	corbc	bcb	bbc
Felixstowe	$codd n_o$	crrr$_o$m$_o$	bcb	bbc
Scilly (St. Mary's)	od_obc	bccp	bc	bcp
Falmouth	or_ocbcq	bcp$_o$q	bcq	bcp
Plymouth	om_oddbq	bqcpr	bqc	b-cpR
Portland Bill	oi_oRc	c	b	b2iRbc
Calshot, S'hampton	$cddd_{ogo}$	odd_ocbm$_o$	bcm$_o$bw	bc
Dungeness	d	bc		bc
Lympne	$cn_o$of$_o$fd_o	$of_{do}r_o$c	cbcm$_o$	bbcm$_o$w
Guernsey	$or id_o$	oid bc	oRbc	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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
ss, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

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

<, less than (for cloud height).

⊕, solar halo. ☾, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

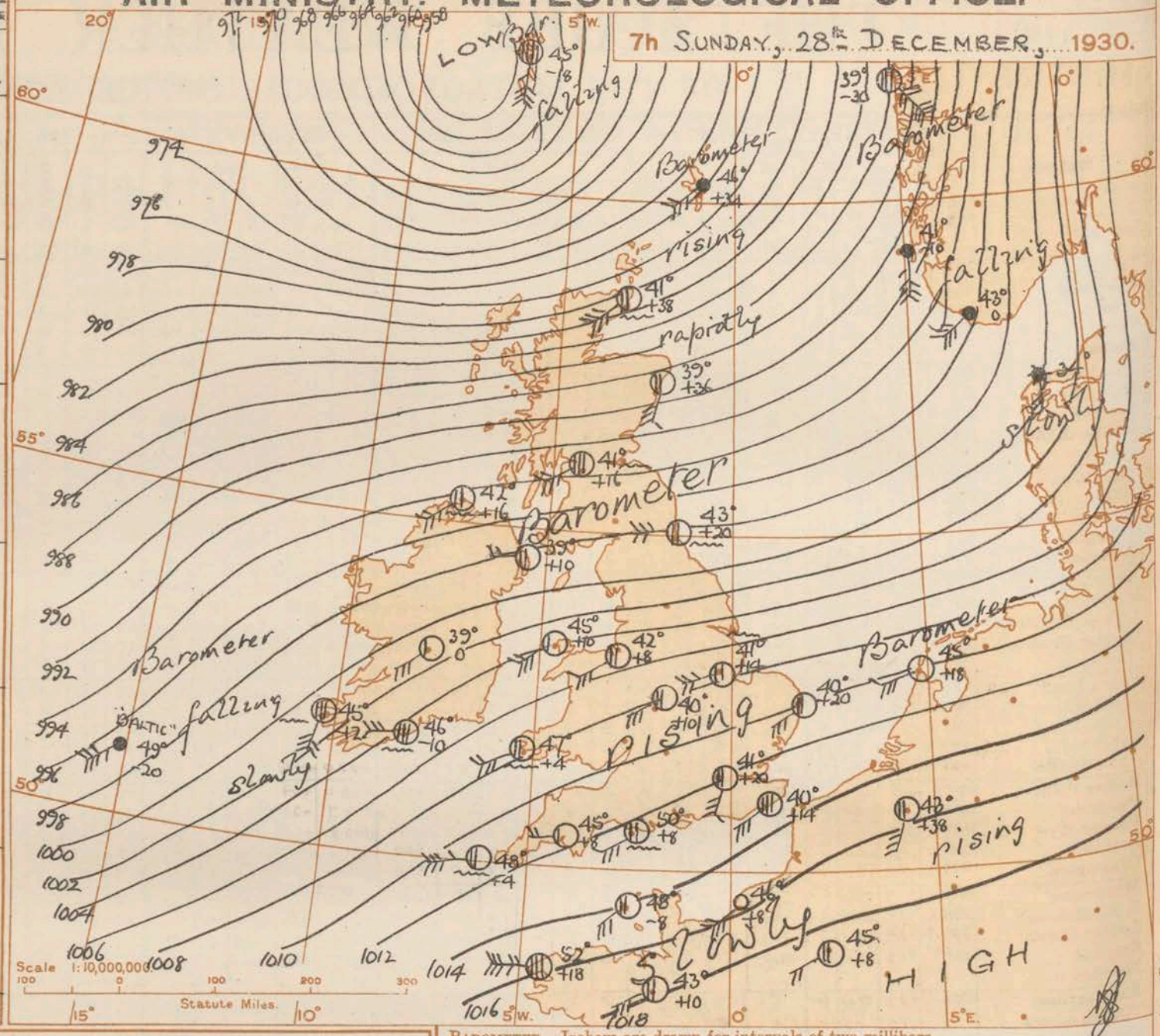
REPORTS from HEALTH RESORTS for 27th December 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 26th to 9h. 27th	TEMPERATURE. Max. 9h.—17h. 27th	RAINFALL. Night. 17h. 26th to 9h. 27th	RAINFALL. Day. 9h.—17h. 27th	SUNSHINE Sunrise to Sunset 27th
Dunbar	cr	bcrb	35	49	1	1	2.6
Berwick-on-T.	r_0c	c	37	49	2	2	1.0
Douglas	ccbbc	cbcirpkcb	42	51	14	0.3	3.5
Llandudno	$r_0$cbc	bcc	45	53	1	0.3	2.6
Colwyn Bay	rrbcb	bcbbp	43	53	3	1	3.0
Rhyl	crbc	bcpr	39	53	2	1	2.3
Wallasey	orcbc	bbcr	38	52	2	1	3.9
Southport ... ‖ ...	ro	bcbco	41	51	3	1	3.5
Blackpool	orc	bcb	37	50	3	2	24
Morecambe	rrccb	rcbbc	37	51	4	1	1.9
Ilkley	mr	bcb	32	50	2	2	1.3
Cleethorpes	$d_0$oc	Rcb	32	49	0.3	2	1.3
Mablethorpe	orm$_0$	orcbcm$_0$	35	49	1	2	1.0
Skegness...	o	obco	35	50	Trace	Trace	0.0
Aberystwyth	bcorr	cprcg	45	51	3	1	1.1
Bath	cp	cbcb	39	56	1	0.3	2.2
Cheltenham ... † ...	cmcip	bccpc	39	53	1	1	1.4
Leamington Spa	orc	bcc	38	52	1	-	1.7
Lowestoft							
Dovercourt	bc	doc	37	47	Trace	Trace	0.0
Maldon	oro	orc	38	52	-	2	0.0
Southend	om	odrbc	37	49	0.1	1	0.0
Ilfracombe	bbc	bcop	47	53	3	1	1.1
Bude	pbc	bc	43	54	1	-	3.1
St. Ives	cp	cp	49	52	5	1	1.5
Penzance	cb	bcpr	48	54	4	0.3	4.2
Torquay	ordqm	orabcgp		55	2	0.4	
Jersey	drc	c	46	53	0.1	1	0.0
Weymouth	$r_0$dc	cbcb	43	53	1	0.4	1.5
Bournemouth	d	bcbc	43	53	1	1	1.2
Ventnor	orodf	odfbc	44	52	1	(Trace)	0.2
Southsea	or	ocbc	42	53	0.5	1	0.4
Bognor Regis	idco	co	42	51	4	1	0.0
Littlehampton	cr	crbc	39	51	Trace	2	0.0
Worthing	od	odc	41	51	Trace	2	0.0
Brighton...	od	doc	43	51	Trace	1	0.0
Eastbourne ... † ...	ordo$_0$	d_0o	43	53	-	2	0.0
Hastings ... † ...	omrdo	ordoc	40	51	0.4	2	0.0
Folkestone	od	ordoc	39	51	-	1	0.0
Dover	ord	rdoc	40	52	Trace	1	0.0
Deal	o or	robc	38	52	-	3	0.0
Tunbridge Wells	o or	oro	33	52	-	3	0.0
Ramsgate	o	ode	40	50	-	0.2	0.0
Margate	cd$_0$	cd$_0$	39	53	-	0.8	0.0

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

AIR MINISTRY. METEOROLOGICAL OFFICE.

7h SUNDAY, 28th DECEMBER, 1930.



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

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 28th Dec., 1930.
1. S.E. England 2. E. England 3. E. Midlands 4. W. Midlands	Moderate to fresh west to southwest winds, stronger later, bright, apart from local thundery showers at first, cloud increasing with rain probable tomorrow; mild.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Winds between west and south, becoming strong to gale later, cloud increasing, rain later; showers and brighter periods tomorrow; mild.
9. N. Midlands 10. N.E. England 11. S.E. Scotland	As 1 - 4.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. / B. N.W. Scotland. 14. Mid-Scotland	Westerly wind strong to gale, backing southwest or south, showers with bright periods at first, cloud increasing, rain later; mild.
15. N.E. Scotland 16. Orkneys and Shetlands.	Wind west to southwest, strong to gale, cloudy, rain or showers; mild.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind southerly, strong to gale, veering west later, dull, rain; showers with brighter periods tomorrow; mild to normal temperature.

S.C.R.

GENERAL INFERENCE.

A very intense depression centred near the Faeroes is moving slowly eastward, and a fresh disturbance is already approaching Southwest Ireland. Thundery showers, but with considerable bright periods, are probable in England and Scotland today, but an early renewal of rain in Ireland is likely to spread later to all districts.

FURTHER OUTLOOK.

Unsettled and probably stormy, perhaps somewhat colder in western districts.

Times of Issue of Gale Warning.

South cone at 1515 on 25th in 5,6,7,8,12,13A, 13B.

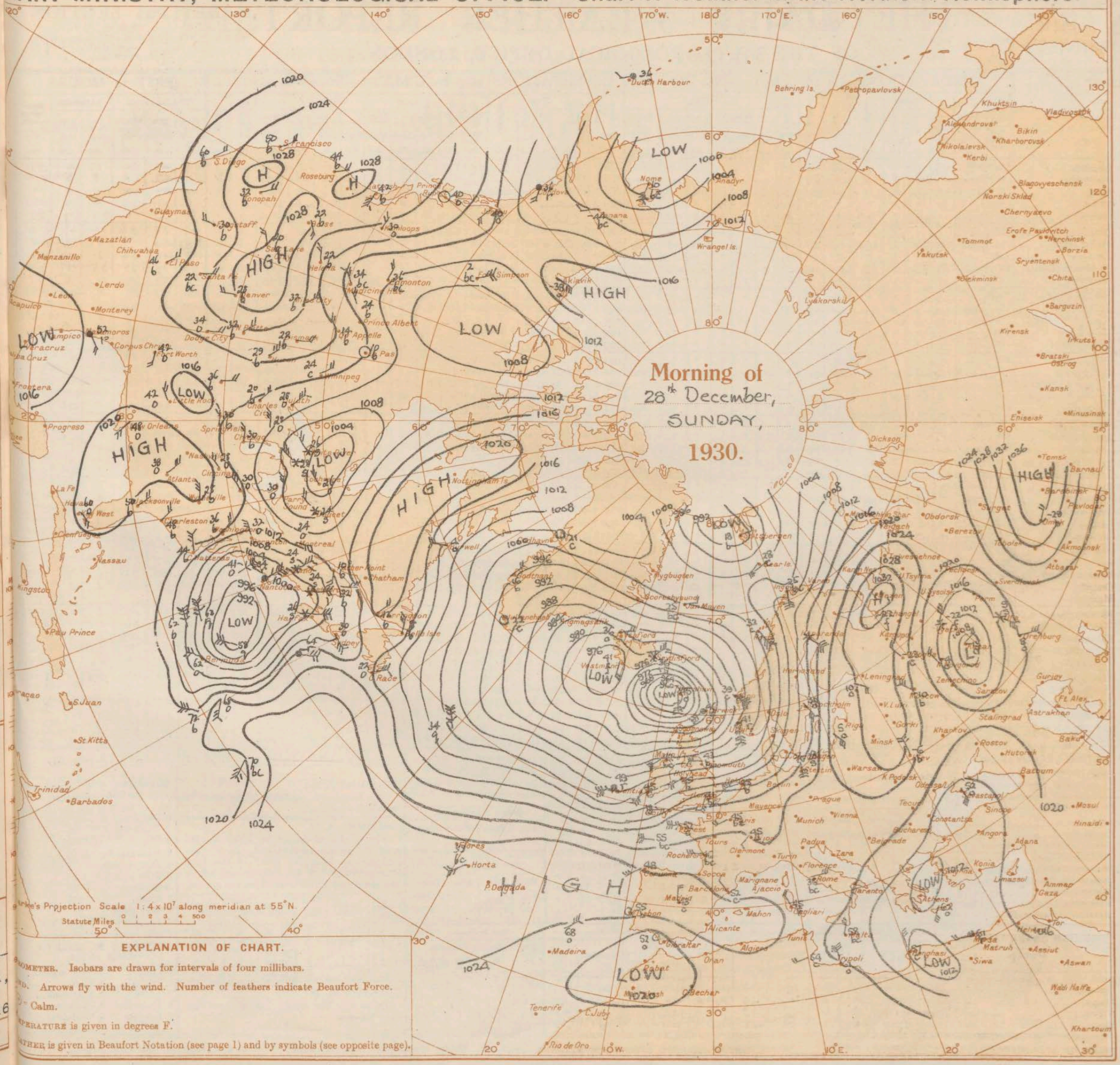
South cone at 1930 on 25th in 1,2,10,11,15,16, 17, 18, 19, 20.

Forecasts issued at 1200 G.M.T.

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

H.M. Stationery Office Press, Kingsway, W.C.2.
F-2491/2185 m 26 D 6028 Gp 308 31.12 2/30.

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

○ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 28th Dec. 1930.

No. 25238

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

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)
Lerwick	54	971.1	-18	S	8	ir.	46	85	7	6	-	-	10	10	1500
Stornoway ...	34	972.0		WSW	8	iR	45	85	6	6	-	-	10	10	4000
Wick	81	971.4	+28	SSW	8	ir	44	86	8	6	1	-	4.6	7.8	1500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	~~978.0~~	•	~~WSW~~	~~8~~	ir	45	85	6	6	-	-	~~10~~	~~10~~	~~4000~~
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head ...	51	988.3	+42	SW	8	c/pr	42	85	7	9	-	-	7-8	7-8	1500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	985.6	+16	WSW	8	bc	43	86	8	9	-	-	4.6	4.6	1500
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir ...	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth ...	67	994.2	+14	W	5	bc	44	65	8	5	-	-	2.3	2.3	1500
Blacksod Point ...	10	994.1	+24	W	3	Q	44	65	7	9	—	—	10	10	220
Aldergrove ...	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee ...	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle ...	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead... ...	26	1001.3	+28	WSW	6	q	45	75	7	4	-	-	2.3	2.3	4000
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate... ...	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head ...	29	1000.1	+10	W'S	5	bc	42	86	7	-	2	-	0	2.3	-
Birmingham ...	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	1003.2	+16	SW	6	b	42	75	6	-	-	-	0	0	-
Gorleston	14	1006.2	+16	SW	3	b	42	95	8	-	5	-	0	Tr.	-
Valentia Obs.† ...	30	1001.6	+6	WSW	6	bc	43	95	8	9	-	-	2.3	2.3	2500
Roches Point ...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke... ...	150	1004.7	~~+2~~	WSW	5	q	49	75	7	1	-	9	Tr.	1	2500
Ross-on-Wye ...	223	•	~~M~~ •	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington ...	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester ...	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew) ...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1008.9	+20	SW	4	b	46	75	7	—	—	—	0	0	-
Manston	135	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness ...	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1010.0	+12	W'S	5	bc	48	75	7	2	-	-	2.3	2.3	4000
Falmouth... ...	200	1010.2	+12	WSW	4	bc	47	65	8	2	-	-	2.3	2.3	4000
Plymouth	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill ...	32	1009.6	+28	WSW	6	b	50	75	8	-	-	-	0	0	-
Calshot, S'hampton	8	1009.8	+26	WSW	4	b	46	75	7	-	-	-	0	0	-
Dungeness ...	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1009.5	+30	WSW	4	z	42	85	6	-	-	-	0	0	-
Guernsey	173	1012.2	+20	WSW	1	bc	49	75	8	5	-	-	4.6	4.6	2500

OBSERVATIONS at 7 hr. G.M.T. 28th Dec

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. 0-2 (29)	Sea. 0-9 (30)
975.2	+34	SW	5	ir.	46	85	7	6	-	-	10	10	1500	1	•
979.2	+26	WSW	8	ir	43	75	7	6	-	-	4.6	4.6	4000	2	5
980.8	+38	SW	6	bc	41	95	8	5	-	8	2-3	4-6	1500	1	4
988.8	+20	SW	7	bc	~~44~~	75	7	8	-	-	~~4-6~~	~~4-6~~	1500	1	5
984.5	•	S'W	4	bc	39	85	8	3	-	-	4.6	4.6	2500	2	•
989.0	+36	SSW	4	bc	39	85	8	-	5	-	0	2.3	-	1	3
993.6	+16	SW'W	5	bc/p	42	95	7	9	-	-	4-6	4-6	1500	1	4
994.3	+16	SW'W	5	q	41	75	7	8	-	-	7-8	7-8	2500	1	•
993.5	+32	WSW	8	bc	41	75	8	5	-	-	2-3	2-3	2500	0	5
993.1	+40	SW	6	q	40	75	8	8	6	-	2-3	2-3	2500	2	•
997.7	+14	SW'W	6	c	38	75	7	5	-	-	9	9	1500	1	•
998.1	+20	W	5	bc	43	55	8	8	-	-	2-3	2-3	2500	0	53
996.7	+6	SW	5	q	43	85	8	3	7	-	4-6	4-6	1500	1	4
998.3	+10	S'W	5	c	39	85	7	5	1	-	4-6	7-8	2500	1	•
998.5	+10	W	2	bc	39	75	7	5	-	-	2-3	2-3	4000	0	1
1001.~~4~~	+0	SW	3	b/pr.	39	95	8	3	-	-	1	1	2500	1	•
1004.3	+10	SW'W	5	q	45	85	8	5	-	-	1	1	2500	1	3
1004.0	+12	SW	4	b	42	75	8	5	-	-	1	1	4000	0	•
1004.6	+8	SW'W	4	b/pr	42	75	8	3	-	-	1	1	4000	1	•
1003.8	+10	SSW	4	b	41	75	7	3	-	-	1	1	2500	1	•
1004.2	+4	SW	5	bc	40	95	7	-	1	-	0	4-6	-	0	4
1008.4	+10	SW	3	bc	40	85	8	5	1	-	1	4-6	4000	1	•
1007.0	+14	SW'W	5	bc	41	75	6	-	4	1	0	2-3	-	1	•
1009.3	+20	SW	3	bc	40	85	7	-	3	-	0	2-3	-	0	2
1001.3	-12	S'W	5	c/ph.	45	85	8	5	1	-	4-6	10	1500	1	4
1004.0	-10	W	4	c	46	85	8	3	-	-	7-8	7-8	1500	1	4
1006.3	+4	WSW	5	q	47	85	8	1	8	9	2-3	4-6	2500	1	4
1009.6	+10	W'S	4	ir	42	85	6	6	-	-	10	10	2500	1	•
1008.6	+10	SSW	4	bc	36	85	8	4	-	6	Tr	2-3	4000	1	•
1009.3	+10	SW'W	4	b	39	85	7	-	3	-	0	1	-	1	•
1011.8	+4	S'W	3	bc	39	95	7	8	-	-	2-3	2-3	2500	1	•
1011.0	+8	SW'S	3	b	41	85	8	-	-	3	0	1	-	1	•
1011.6	+8	S'W	3	bc	40	85	7	5	8	-	1	2-3	2500	1	•
1012.0	+20	SSW	4	b	41	85	7	-	7	-	-	1	-	1	•
1012.0	+14	S	4	bc	41	95	7	5	4	-	2-3	4-6	2500	1	•
1010.5	+10	WSW	4	bc	41	95	7	19	-	-	2-3	2-3	800	1	2
1011.4	+24	SW	3	c	40	85	7	-	3	-	-	7-8	-	1	2
1010.7	+4	W'S	4	bc	48	95	8	2	-	-	4-6	4-6	4000	1	5
1011.2	+2	WSW	6	bc/pr	47	75	8	3	-	-	2-3	2-3	4000	1	3
1011.9	+8	W	2	b2	45	85	8	9	-	-	1	1	2500	2	2
1011.3	+8	WSW	4	bc~~c~~	50	75	8	8	-	-	2-3	2-3	1500	1	4
1011.9	+10	SW	4	bc/pr	44	85	7	3	-	-	2-3	2-3	2500	1	1
•	•	SW	3	bc	•	•	7	5	-	•	4-6	4-6	4000	•	2
1012.3	+14	SW	3	3	40	95	6	5	4	-	7-8	7-8	4000	1	3
1013.6	-8	SW	3	bc	48	85	8	5	-	-	4-6	4-6	1500	2	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)	Night 18h-7h mm. (35)	SUNSHINE 27th Hrs. (36)
43	42	•	12	4	0.0
50	42	•	8	5	0.0
46	40	•	-	5	•
~~48~~	~~39~~	~~34~~	~~5~~	~~4~~	0.0
46	39	•	0.1	7	2.7
47	38	36	14	-	0.0
~~48~~	40	•	1	~~54~~	0.4
49	40	36	3	10	2.2
50	37	37	0.8	Tr	3.5
49	37	33	11	2	2.1
46	37	34	9	0.1	0.1
49	41	35	3	-	•
50	39	•	4	5	•
49	35	32	0.1	0.1	2.2
50	38	•	0.5	-	•
49	38	32	2	1	2.3
51	45	40	2	-	2.6
50	42	38	1	-	3.2
53	42	37	1	0.4	3.2
48	40	36	7	0.3	1.7
47	39	•	2	-	0.8
51	38	33	1	0.5	2.3
50	40	37	1	Tr	1.4
49	40	35	2	-	0.0
51	41	39	3	0.4	2.4
51	45	•	3	2	•
52	46	•	3	0.2	2.3
52	41	33	1	2	2.2
51	36	31	3	-	1.4
51	38	34	1	Tr	0.8
53	37	32	5	-	1.2
53	~~35~~	33	1	-	0.6
53	40	32	1	Tr	0.3
53	39	33	2	-	0.0
51	39	34	2	-	0.0
48	41	36	1	-	0.0
49	39	34	1	-	0.0
51	39	34	1	1	4.8
52	41	36	1	1	4.2
54	42	39	0.5	1	2.4
53	46	•	1	1	•
52	42	34	2	0.1	0.4
51	47	•	0.1	Tr	•
50	38	32	1	0.1	0.0
54	45	40	3	3	0.5

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather Morning.	Weather Afternoon.	Weather Night.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility. 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
Kew	18	$1d_0 a\ n_0$	$er\ bc\ ba_0$	$ba_0\ bbw$	53	40	32	1	Tr	0.3	•	•	5
Croydon	244	$ode\ d_0 d_0 a$	$orr\ r_0 r_0 ba$	$bca_0 b3_0 b$	53	39	33	2	-	0.0	•	•	6
Greenwich (Royal Observatory) ...	149	cd_0	$cr\ w$	$b\ x$	53	38	27	3	Tr	0.0	90	92	5
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	53	40	31	2		0.0	86	83	•
Regents Pk. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	•	•	•	•
Camden Square	110	odo	orb	•	51	41	31	2	-	•	87		•
Kensington Palace	80	orbc	bcb	•	53	41	29	2	-	•	At 18h. 79		•
Hampstead Observatory	450									0.0	89		•

FOREIGN OBSERVATIONS.

STATIONS.	18h. G.M.T. 27th Dec. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 28th Dec. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1009.9	SSW	3	ir_0	52	1011.7	WSW	2	3	45
Brussels	1006.4	SSW	4	ir_0	46	1012.0	SW'S	2	bc	41
Berlin	1018.1	ESE	2	m	30	1014.4	SE	2	$1d_0$	32
Zürich	1020.0	S	2	3	39	1021.0	SE	1	rr	41
Rome	1016.5	ESE	2	bc	48	1022.3	NW	4	b	36

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0.6	17hn 27th	<0.3	1-6hn 28th

Kew Observatory. Max.	Time.	Min.	Time.
0.2	17hn 27th	<0.1	0-4hn 28th

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. m.m.	Rainfall. Night. mm.
54	45	Tr	1
	41	1	1
32		-	
48	39	-	1
57	32	4	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13-18	9	47-54
1	1-3	5	19-24	10	55-63
2	4-7	6	25-31	11	64-75
3	8-12	7	32-38	12	75
		8	39-46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	„
2	Fog	550	„
3	Moderate fog	1,100	„
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	„
6	Moderate „	6½	„
7	Good „	12½	„
8	Very good „	31	„
9	Excellent „	beyond 31m.	

COLUMN 30.—Code for State of Sea.

0	Calm.	5	Very rough.
1	Smooth.	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Precipitous.
4	Rough.	9	Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. Simpson, C.B., D.Sc., F.R.S., Director.

† 1 hr. observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 29th December 1930.

No. 25,239

OBSERVATIONS at 13h. G.M.T. 28th December

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)	°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)
Lerwick	981.8	+10	SW	4	pr.	45	75	7	8	7	-	4-6	7-8	1500
Stornoway ...	986.2	+30	WSW	6	bc	43	75	8	3	-	-	4-6	4-6	4000
Wick	987.5	+28	SSW	6	c	42	85	8	8	9	8	4-6	7-8	1500
Tiree	992.4	+36	SW	6	bc jp	46	65	7	8	-	-	4-6	4-6	1500
Nairn														
Aberdeen	994.0	+20	SW	4	bc	43	75	8	-	4	9	0	2-3	-
Malin Head ...	994.6	-4	S'W	5	c	40	95	8	7	6	9	2-3	7-8	2500
Renfrew	997.8	+10	SW	3	pw(r)	42	85	6	8	-	9	9	9	2500
Inchkeith (Edin.)	997.2	+10	SSW	5	bc	43	75	8	4	8	-	2-3	4-6	2500
Leuchars	997.1	+14	SW	5	bc	43	75	8	2	6	-	2-3	2-3	2500
Eskdalemuir ...	999.6	0	WSW	5	pw(r)	40	85	7	8	-	-	9+	9+	1500
Tynemouth ...	1001.4	0	WSW	4	bc	45	75	7	9	-	-	2-3	2-3	2500
Blacksod Point ...	992.9	-24	SW	3	c	44	85	8	5	-	-	9+	9+	220
Aldergrove ...	997.4	-27	S'E	4	c	40	85	7	5	2	-	2-3	9	2500
Donaghadee ...	996.2	-8	SSW	3	c	42	85	7	5	2	-	4-6	7-8	2500
Birr Castle ...	995.0	-46	SE	2	rr	43	95	6	6	-	-	10	10	2500
Holyhead... ...	1002.3	-24	SSW	5	PH(r)	47	95	6	3	-	8	9	10	1500
Liverpool (Bidston)	1004.0	0	SE	4	c	45	75	8	6	-	-	4-6	9	2500
Chester (Sealand)	1005.2	-10	SSW	3	c	50	65	8	7	-	8	2-3	7-8	2500
Harrogate... ...	1004.2	0	SSW	4	c	43	75	7	7	-	7	0	9	-
Spurn Head ...	1006.7	+2	SW	4	c	45	75	6	8	2	9	4-6	7-8	4000
Birmingham ...	1008.1	-8	S	4	bc	43	85	7	8	3	8	0	4-6	-
Cranwell	1008.1	-6	SW	5	c	44	75	7	5	3	6	2-3	9+	4000
Gorleston	1011.4	0	SW	4	bc	47	80	7	7	-	8	-	2-3	4000
Valentia Obs. ...	989.5	-18	SSE	7	RR	48	85	6	6	-	-	10	10	1500
Roches Point ...	996.4	-46	SW	7	r	49	95	7	6	-	-	10	10	1500
Pembroke... ...	1003.6	-24	SSW	6	c pr	50	95	7	6	-	-	4-6	10	1500
Ross-on-Wye ...	1007.9	-10	SW	4	c	47	75	7	6	-	-	2-3	9+	2500
Leafield	1009.3	-6	SSW	5	c	46	75	8	6	1-3	6	Tr	7-8	2500
Cardington ...	1010.2	-4	SW	5	bc	47	65	8	5	3	-	4-6	4-6	4200
Winchester ...	1011.6	-10	S'W	4	c	50	75	7	5	-	6	7-8	9	2500
S. Farnborough ...	1012.2	-2	SW	4	bc	49	75	8	5	1	4	1	4-6	2500
London (Kew) ...	1012.6	-2	SW	4	c	48	75	6	6	1	-	2-3	7-8	2500
Croydon	1012.7	-2	SW	4	bc	50	65	6	8	7	-	5	1	4-6	2500
Manston														
Shoeburyness ...	1012.5	0	SW	4	b	49	85	7	5	-	-	1	1	2500
Clacton-on-Sea ...														
Felixstowe ...	1012.6	-6	SW	3	bc	46	85	8	-	-	4	0	4-6	-
Scilly (St. Mary's)	1006.7	-36	SW	7	c	51	95	6	5	-	-	9+	9+	4000
Falmouth... ...	1009.0	-12	SSW	8	c	51	85	7	4	2	-	4-6	10	4000
Plymouth... ...	1010.2	-20	SW	6	c	51	85	7	6	2	-	7-8	10	1500
Portland Bill ...	1010.9	-12	SW	6	c	52	75	7	4	4	8	7-8	9	2500
Calshot, S'hampton	1012.5	-6	SW	4	c	51	75	8	5	-	8	4-6	7-8	2500
Dungeness ...			SW	4	bc							2-3	2-3	2500
Lympne	1013.2	-6	SW	4	b	50	85	8	1	-	1	Tr.	Tr.	1500
Guernsey	1015.0	-4	SSW	4	bc	52	75	7	5	-	-	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 28th December

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)
Lerwick	985.9	+26	SW	5	c pr	45	85	7	8	-	-	7-8	7-8	1500	1	4
Stornoway ...	987.2	+6	SW	3	bc	40	75	8	4	3	-	2-3	2-3	4000	1	3
Wick	989.3	+2	SSW	6	bc	40	85	8	6	-	8	2-3	4-6	1500	1	4
Tiree	987.9	-36	SE	3	c	44	85	87	8	2	-	7-8	10	1500	0	4
Nairn	990.4		SW	1	bc	38	85	8	8	8	-	4-6	4-6	4000	0	4
Aberdeen	994.0	-8	SSE	3	c	40	85	6	5	-	6	2-3	7-8	1500	1	3
Malin Head ...	985.2	-64	E'S	3	rr	41	95	6	5	2	-	4-6	10	1500	1	3
Renfrew	991.6	-46	ESE	3	rr	41	95	6	5	-	-	10	10	1500	2	4
Inchkeith (Edin.)	993.5	-20	S	3	c	42	95	6	5	2	-	2-3	9	2500	0	1
Leuchars	993.6	-30	SE	3	ir.	40	85	7	5	2	-	4-6	10	2500	2	4
Eskdalemuir ...	992.8	-48	S	3	RR	38	95	6	6	-	-	10	10	800	2	4
Tynemouth ...	996.7	-32	S	3	r.	43	85	6	6	-	-	10	10	1500	1	2
Blacksod Point ...	981.4	-30	SE	6	rr	42	95	7	6	-	-	10	10	150	1	5
Aldergrove	995.0	-62	SE'S	4	rr	45	95	6	6	-	-	10	10	800	1	4
Donaghadee	996.0	-48	SSW	3	r.	46	95	7	6	-	-	9	9	800	1	1
Birr Castle	985.2	-24	SW	4	c	50	85	8	5	1	-	7-8	10	1500	1	4
Holyhead... ...	993.2	-44	S'W	4	ir.	49	95	8	6	-	-	10	10	450	1	4
Liverpool (Bidston)	996.0	-46	SE	5	or	45	95	6	6	-	-	10	10	2500	1	4
Chester (Sealand)	997.4	-44	SSE	5	ir.	48	80	7	6	2	-	4-6	10	1500	1	4
Harrogate... ...	998.5	-30	S'E	5	rr	44	85	6	6	-	-	10	10	2500	1	4
Spurn Head ...	1002.0	-10	S'W	6	c	45	85	7	8	2	-	4-6	10	4000	0	5
Birmingham ...	1002.7	-40	S	5	ir.	47	85	8	5	-	-	7-8	7-8	1500	1	4
Cranwell	1003.3	-34	S	5	or	45	85	7	6	1	-	2-3	10	1500	1	4
Gorleston	1010.1	-12	SSW	5	c	45	75	8	5	1	-	0	10	-	0	3
Valentia Obs. ...	986.4	+2	SW	4	c	48	85	8	5	1	-	7-8	7-8	1500	1	4
Roches Point ...	989.3	-20	SW	7	c	51	85	7	8	-	-	9	9	1500	1	6
Pembroke... ...	994.4	-40	SSW	6	RR	50	85	7	6	-	-	10	10	800	2	5
Ross-on-Wye ...	1002.1	-34	S'W	6	r.	50	75	8	6	-	8	4-6	9+	2500	1	4
Leafield	1004.5	-30	S'W	6	c	46	85	8	6	-	-	9+	9+	2500	1	4
Cardington ...	1006.3	-20	SSW	6	c pr	49	75	8	5	-	-	7-8	10	2500	1	4
Winchester ...	1007.8	-28	S	6	c	49	85	7	5	-	-	10	10	1500	1	4
S. Farnborough ...	1008.5	-22	S	5	c	49	85	8	5	-	-	9+	9+	2500	1	4
London (Kew) ...	1009.1	-20	S'W	4	c	49	85	7	5	2	-	4-6	10	2500	1	4
Croydon	1010.3	-18	SSW	5	cq	48	75	7	8	2	-	7-8	9+	800	1	4
Manston																
Shoeburyness ...	1011.1	-10	SSW	5	bc	47	85	6	5	1	-	2-3	4-6	2500	0	4
Clacton-on-Sea ...	1011.4	-6	SSW	5	bc	46	95	7	-	2	-	0	7-8	-	0	3
Felixstowe ...	1010.9	-10	SSW	5	c	46	85	7	-	3	6	0	7-8	-	1	3
Scilly (St. Mary's)	998.6	-42	SSW	9	c	52	85	6	5	-	-	9+	9+	4000	0	5
Falmouth... ...	1001.3	-24	S'W	10	c	52	85	7	5	1	-	4-6	7-8	4000	0	6
Plymouth... ...	1003.8	-40	SSW	8	c	52	85	7	6	-	-	9+	9+	800	1	4
Portland Bill ...	1006.6	-28	SSW	7	c	52	75	7	5	-	-	9	9	2500	1	5
Calshot, S'hampton	1009.0	-22	SSW	7	c	50	75	7	5	2	-	7-8	9	1500	0	4
Dungeness ...			SW	6	c							4-6	10	2500	1	3
Lympne	1012.3	-14	SSW	6	c	47	85	7	5	7	8	2-3	9+	2500	1	4
Guernsey	1010.6	-30	S	4	bc	51	75	7	5	-	-	4-6	4-6	4000	1	4

PAST 24 HOURS.

STATIONS. (For heights see p. 4.)	Weather. 7h.–13h. 28th (37)	Weather. 13h.–18h. 28th (38)	Weather. 18h. 28th to 1h. 29th (39)	Weather. 1h.–7h. 29th (40)
Lerwick	ir. c pr	cb. r C	cpr, bc c	bc ir. m. cbc
Stornoway ...	ci Rq	bc		q b r r r
Wick	bcc	cbc	cr. ro m	
Tiree	bc bc	bcc	RR	crr R
Nairn	bc pr	bc x	bcc PR q	PRo
Aberdeen	bc	bc	corr	orroc
Malin Head ...	bc pr c	bc c ir.	crr m c ir	cirbc
Renfrew	c pr q	br h r	orr Rc	c
Inchkeith (Edin.)	bc	bc c ir.	orr c oir	cbc
Leuchars	bc pr bc q	bc q r.	crr c pr cr	cre
Eskdalemuir ...	c pr h	cd. o RR	o lR or r	orr q c
Tynemouth ...	bc pq	bc o ir.	oir q bc	bcc
Blacksod Point ...	c	rr	rr	pc
Aldergrove	c bc c	com ir.	crr c	cpr.
Donaghadee	bb c c	cr. r.	ir c q	cbc q
Birr Castle	b c or r	o r r c	cbc	b x r c
Holyhead... ...	b b c c	r r m.	ir R q. c	c
Liverpool (Bidston)	bc pr c	por q r	p q ir b	c q r R
Chester (Sealand)	b b c	c ir. r	o br q	orr
Harrogate... ...	b b c c	c b or r	roc q	corr
Spurn Head	b c c	bc	oc b c q	c pr.
Birmingham ...	b c	ei r.	ei r. or	orr r.
Cranwell	c b. b b c	cr.	c b z.	b c c q ir.
Gorleston	b c q	b c c q	c b z q	b c c q
Valentia Obs. ...	ir. c r r s	o RR or r c	ci r c p	ci r c p c r.
Roches Point ...	c r or r	o ir c	c p r p h c	c b c
Pembroke... ...	c o p. q	o R r q	R r i r q	o r r
Ross-on-Wye ...	R c b c c	cori d. q	c q d.	R q r or
Leafield	b b c	cor. c	coq	o b i r q
Cardington ...	b b c	bc ci r.	c	c d.
Winchester	b c c	c	c pr.	c p form.
S. Farnborough ...	b b c	b c c q c	c q b c c	cor q r
London (Kew) ...	b m. c m.	c m. c	c q	c p z q
Croydon	b w b c 3.	b c c 3. o q	c q	c p form.
Manston				
Shoeburyness ...	b	b b c m.	b c m. c q	c q
Clacton-on-Sea ...	b c	b c c	c b c	b c c
Felixstowe ...	b c	b c c	c r h c	c
Scilly (St. Mary's)	b c c	c i	c d or c	c h p or
Falmouth... ...	b c c q	o c q	c or r q	o r t q
Plymouth... ...	b. c q	c q r.	c q o R r r	o r e p r d q
Portland Bill ...	b c P R c	c	c	c R c R
Calshot, S'hampton	b c. c	c	c q	c q
Dungeness ...	b.	b.	·	c
Lympne	c b	b c c	c b b c m.	b c m. q
Guernsey	b c c b c	c i r q	c i r q	

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered).
c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds,
F, thick fog, „ less than 220 yds.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix ó indicates slight; repetition of letters indicates continuity: thus,
R, heavy rain. r_o, slight rain.
rr, continuous rain.
<, less than (for cloud height).
⊕, solar halo. ☿, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"t r" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

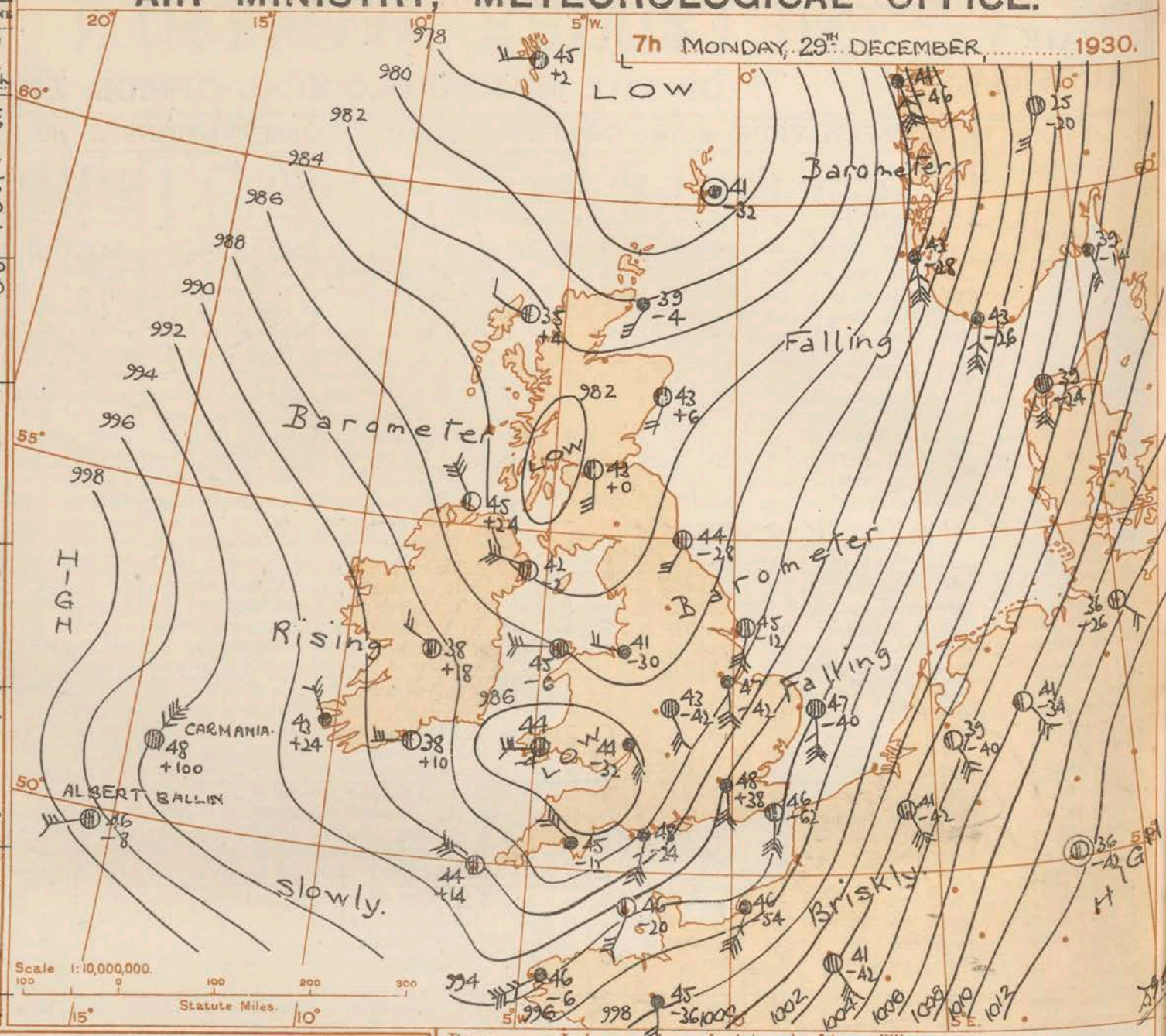
REPORTS from HEALTH RESORTS for 28th December 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 27th to 9h. 28th	TEMPERATURE. Max. 9h.—17h. 28th	RAINFALL. Night. 17h. 27th to 9h. 28th	RAINFALL. Day. 9h.—17h. 28th	SUNSHINE Sunrise to Sunset. 28th
Dunbar	b	bc	41	45	–	–	3.2
Berwick-on-T.	cbc	bcc	35	45	–	–	2.6
Douglas	cbqco	qRRom	41	48	–	6	0.3
Llandudno	bbc	crq	44	51	–	1	0.7
Colwyn Bay	obo	rr	42	51	–	10	0.5
Rhyl	bbccb	corr	42	48	–	5	1.3
Wallasey	bbcc	orr	41	48	–	–	1.4
Southport ‖	bbcc	coro	42	46	–	3	1.3
Blackpool	bcc	cor	44	45	–	4	0.0
Morecambe	cbcc	crro	43	46	–	6	0.3
Ilkley	bbc	or	39	45	Trace	0.5	1.3
Cleethorpes	b	bc	38	46	–	–	3.4
Mablethorpe	bbc	becom.	38	45	–	–	3.8
Skegness	ob	bo	35	46	Trace	Trace	2.6
Aberystwyth	cqprh	cqcir	42	50	2	2	0.0
Bath	b	bbceq	36	52	Trace	–	3.5
Cheltenham †	bbc	bccor	40	50	2	1	2.1
Leamington Spa	c	c	39	49	0.5	–	2.1
Lowestoft	b	b	37	48	–	–	5.5
Dovercourt	bc	bc	37	48	–	–	4.2
Maldon	b	bo	37	49	–	–	4.3
Southend	b	bbcoc	40	50	–	–	4.4
Ilfracombe	co	bo	42	52	2	0.3	0.1
Bude	cbcc	cqc	42	54	–	–	0.3
St. Ives	c	c	44	52	–	–	3.8
Penzance	c	c	45	53	–	–	0.8
Torquay	tbambc	ph,pbc	41	53	0.6	0.6	1.7
Jersey	rbc	bc	48	52	1	Trace	4.5
Weymouth	bcb	coc	45	54	–	–	2.7
Bournemouth	b	o	41	51	–	–	2.8
Ventnor	orpcb	coc	42	51	2	Trace	3.4
Southsea	orrcb	bcoc	41	52	0.4	–	3.6
Bognor Regis	bcb	bcco	43	50	2	–	3.8
Littlehampton	bc	bcc	41	50	0.5	–	4.2
Worthing	bcb	bcc	42	52	0.5	–	4.4
Brighton	cbc	bc	43	50	–	–	4.5
Eastbourne †	rcbc	bbcc	44	51	3	0.2	3.5
Hastings †	opcb	cbbcc	41	51	1	0.3	4.0
Folkestone	dbcb	bbcc	39	51	–	–	4.2
Dover	bcb	bbcc	42	50	–	–	4.6
Deal	bc	bco	40	49	–	–	4.5
Tunbridge Wells	b	bbco	38	50	–	–	4.0
Ramsgate	bc	bcc	41	50	–	–	5.0
Margate	bc	bc	40	51	–	–	4.6

† Max. Temp. for period 21h. yesterday to 17h. to day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h MONDAY, 29TH DECEMBER, 1930.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 29th Dec. 1930.
1. S.E. England 2. E. England... 3. E. Midlands	Wind veering west to northwest and moderating; showers locally at first, then fair; local morning fog; colder, with ground frost night and morning.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind northwest, strong locally, moderating; freshening from south tomorrow; bright intervals and showers; probably general rain setting in tomorrow; normal day temperature, frost at many places at night; local morning fog.
9. N. Midlands 10. N.E. England 11. S.E. Scotland	Wind west to northwest, light to fresh, backing tomorrow; bright intervals, local showers; local morning fog, normal temperature, frost at night.
12. S.W. Scotland & Isle of Man	As 4 - 8.
13. A. W. Scotld. B. N.W. Scotland.	Fresh or strong northwest wind, moderating; wintry showers and bright intervals, rather cold, frost at night.
14. Mid-Scotland	
15. N.E. Scotland	As 9 - 11.
16. Orkneys and Shetlands.	Westerly winds, fresh at times; showery, rather cold.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 4 - 8.

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 5/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡° Mist. ϒ Thunder. ϒ Thunderstorm.
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 is crossing the British Isles, followed by a wedge of high pressure, which will be accompanied by a temporary improvement. Further disturbances from the Atlantic will maintain very unsettled weather.

FURTHER OUTLOOK.

Rain in most districts; probably snow on high ground in the North.

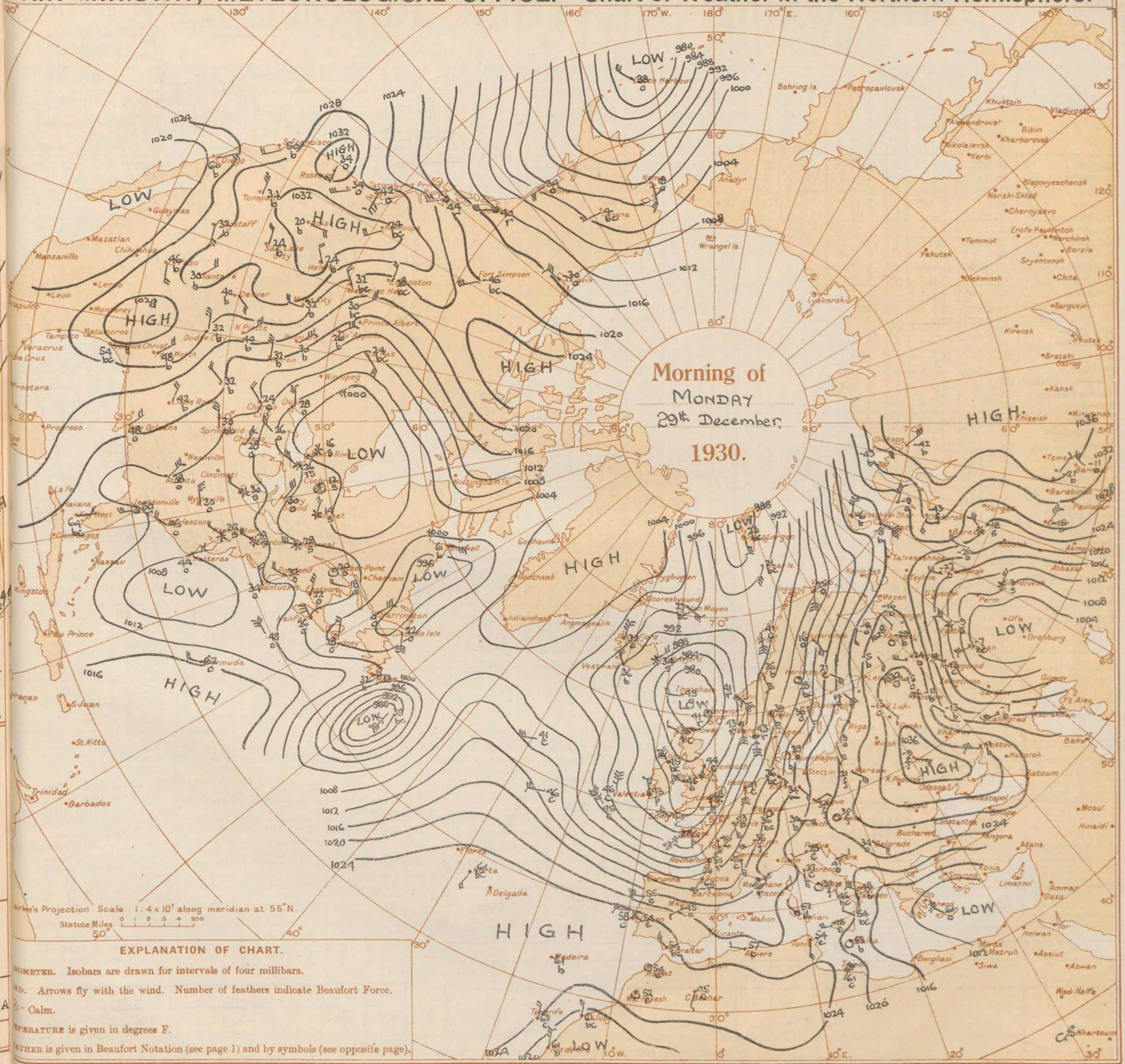
Times of issue of Gale Warnings.

Forecasts issued at ▼ South Cone at 1515 on 25th. in 5,6,7,8,12,13A and 13B; and at 1930 on 25th. in 1,2,17,18, 19 and 20.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press Kingsway, W.C.2
F 2437/2165 m 26 D.8024 & 308 3/31 2/30

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

○ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 29th December 1930.

No. 25,239

OBSERVATIONS at 1 hr. G.M.T. 29th December

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)
Lerwick	54	986.0	-20	S	2	bc	44	75	8	5	-	-	2.3	2.3	2500
Stornoway ...	34	982.7	-16	-	0	C	35	95	7	4	-	-	10	10	4000
Wick	81	982.8	-36	ESE	2	r.c.	41	95	8	8	-	-	10	10	1500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head ...	51	978.4	-10	S	4	c/r	44	95	7	6	1	-	7-8	9	1500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	983.0	-20	SW	3	ir	47	95	8	6	-	-	10	10	800
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir ...	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth ...	67	987.6	-28	SW	4	bc	49	75	8	3	-	-	2.3	2.3	4000
Blacksod Point ...	10	985.6	+22	—	0	RR	41	95	6	6	—	—	10	10	<150
Aldergrove ...	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee ...	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle ...	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	988.6	-6	SSW	5	c/r	46	95	6	5	1	-	7-8	10	1500
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate... ...	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head ...	29	992.7	-26	SSW	7	q	47	85	7	4	2	-	2.3	4.6	4000
Birmingham ...	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	994.7	-52	S	6	C	43	75	6	5	3	-	4.6	7.8	2500
Gorleston	14	1001.4	-26	SSW	7	bc	47	85	7	-	2	-	0	4.6	-
Valentia Obs.+ ...	30	986.4	-10	WNW	4	bc	47	95	7	8	-	-	4.6	4.6	2500
Roches Point ...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke... ...	150	982.0	-28	SSW	8	c/r	47	95	6	5	2	-	7-8	10	1500
Ross-on-Wye ...	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington ...	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester ...	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough ...	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew) ...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1002.6	-36	SW	5	q	49	75	7	5	-	-	9	9	1500
Manston	135	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness ...	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea ...	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe ...	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	982.5	-44	SSW	7	c	50	95	7	5	-	-	9+	9+	4000
Falmouth... ...	200	983.0	-46	S	7	C	47	95	7	5	2	-	4-6	10	4000
Plymouth... ...	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill ...	32	985.6	-56	SW	8	C	51	75	7	8	8	-	4.6	7.8	2500
Calshot, S'hampton	8	982.1	-54	SSW	8	ir.	50	85	7	5	-	-	10	10	1500
Dungeness ...	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	1004.3	-40	SSW	6	z	47	85	6	5	-	-	2.3	2.3	2500
Guernsey	173	1000.0	-70	S	4	c/r	51	85	5	5	-	-	10	10	1500

OBSERVATIONS at 7 hr. G.M.T. 29th December

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
977.7	-32	-	0	r.c.	41	95	6	6	-	-	10	10	800	1	*
983.1	+4	WNW	1	bc	35	95	7	7	-	-	4-6	4-6	4000	1	1
981.1	-4	SW	3	r.c.	39	95	8	8	1	-	4-6	7-8	1500	1	2
984.4	+24	NNW	5	bc	44	65	7	5	1	8	2-3	4-6	1500	1	4
983.1	•	-	0	0	36	95	7	5	-	-	10	10	1500	2	*
982.5	+6	SSW	2	C	43	95	6	5	-	-	7-8	7-8	2500	1	2
984.9	+24	NNW	6	bc	45	85	7	8	-	-	4-6	4-6	2500	0	4
983.8	0	S	3	c	43	75	7	5	2	-	7-8	10	2500	2	*
982.7	-4	SW	3	bc	43	95	8	-	8	-	0	4-6	-	0	1
983.6	+2	NE	1	C	38	95	7	8	-	-	7-8	7-8	4000	2	*
983.3	-12	SW	4	C	41	95	7	5	-	-	10	10	800	1	*
984.2	-28	SW	3	c	44	85	7	6	-	-	7-8	7-8	1500	1	3
991.5	+28	NW	6	C	44	75	6	8	—	—	7-8	7-8	220	0	5
985.7	-28	W	5	pc	38	95	7	9	-	-	9	9	1500	1	*
982.5	-2	WNW	6	q	42	85	7	3	-	-	7-8	7-8	2500	0	3
989.1	+18	NW	2	c	38	95	7	5	-	-	9+	9+	2500	1	*
986.4	-6	W'N	5	c	45	85	8	5	-	-	10	10	2500	1	3
983.4	-32	SW	2	RR	41	95	8	6	-	-	10	10	1500	2	*
985.7	-30	NW'W	2	rr	41	95	6	6	-	-	10	10	800	1	*
986.0	-30	SE'S	1	rr	43	95	5	6	-	-	10	10	2500	1	*
987.7	-12	S'W	5	C	45	95	7	3	2	-	7-8	10	4000	0	4
986.4	-42	SSE	4	c/r	43	95	8	6	-	-	10	10	800	1	*
987.5	-42	S'E	5	ir.	47	85	6	6	2	-	4-6	10	1500	1	*
993.6	-40	S	7	0	47	95	7	6	-	-	10	10	1500	0	5
991.1	+24	N'W	4	pc	43	75	7	6	-	-	9	9	1500	1	4
988.5	+10	W	3	bc	38	85	8	3	-	-	2-3	2-3	1500	1	5
985.6	-4	W	4	c/r	44	75	8	8	2	-	9	10	1500	2	3
985.8	-32	S'E	3	ir.	44	85	8	6	-	-	10	10	2500	1	*
986.8	-34	S	6	iR	44	95	6	6	-	-	10	10	1500	1	*
988.1	-40	S'W	6	id.	48	85	7	6	-	-	9	9	800	1	*
988.8	-36	S	6	ir	47	95	6	6	-	-	10	10	220	1	*
989.6	-40	S'W	5	r.c.	48	85	6	6	-	-	10	10	800	2	*
989.7	-50	S	5	ir.	49	85	8	9	2	-	7-8	10	1500	1	*
992.4	-38	S	5	rr	48	85	6	6	-	-	10	10	800	1	*
992.9	-46	S	6	q	47	85	8	5	-	-	10	10	2500	0	*
994.2	-50	S	6	c	47	85	7	25	-	-	7-8	7-8	800	0	3
993.2	-40	S	6	c	47	85	7	5	1	-	7-8	9	2500	1	4
990.2	+14	NW'W	6	c/r	44	85	7	8	-	-	9	9	4000	1	4
988.5	+6	WNW	5	rr	42	95	7	6	-	-	10	10	2500	2	3
987.4	-12	NW	5	ir.	45	85	7	6	-	-	10	10	1500	2	4
987.4	-20	S'W	7	RR	48	85	7	6	-	-	10	10	1500	2	6
989.2	-44	SSW	7	c/r	49	85	7	5	-	-	10	10	1500	1	4
•	•	SW	7	C	•	•	7	5	-	•	7-8	7-8	4000	•	4
993.8	-42	S	6	z	46	85	6	5	2	-	9	10	1500	1	*
995.4	-20	SW	4	bc/r	46	85	7	5	-	-	4-6	4-6	1500	1	4

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 28th Hrs.
(31)	(32)	(33)	(34)	(35)	(36)
47	41	*	2	2	0.0
45	33	*	4	-	0.3
42	38	*	-	3	*
45	36	35	-	18	2.0
41	35	*	0.2	8	1.1
43	40	38	-	10	4.0
42	41	*	4	9	0.9
43	38	386	2	17	0.2
44	39	37	0.2	2	2.9
44	37	31	0.2	8	3.9
40	37	36	10	21	0.0
45	43	37	1	1	*
46	40	*	8	8	*
46	37	35	5	0.1	0.7
47	40	*	7	1	*
50	36	30	9	Tr	0.0
50	45	42	9	6	0.0
46	40	39	2	12	1.6
50	41	40	0.5	8	2.4
44	43	40	0.6	2	2.4
46	43	*	-	Tr	3.1
47	43	42	Tr.	7	2.5
46	44	43	Tr.	1	2.7
48	44	41	-	-	3.9
51	38	35	16	3	0.0
52	35	*	12	6	*
52	41	*	5	19	0.0
50	43	41	2	18	2.1
47	42	42	Tr.	9	3.1
49	47	46	Tr.	Tr	3.3
50	47	45	-	3	3.9
50	47	44	Tr.	3	4.2
49	49	45	-	0.1	4.0
50	48	43	-	0.4	4.1
50	45	43	-	0.4	4.4
52	42	*	-	13	0.2
52	42	*	-	10	1.2
52	45	43	Tr.	8	0.8
53	45	*	1	11	*
52	48	45	-	0.5	3.6
50	45	*	0.6	Tr	*
50	45	43	-	-	4.4
52	46	42	Tr.	1	4.3

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. Yesterday.	Humidity. 15h. G.M.T. % Yesterday.	Humidity. 9h. G.M.T. % To-day.	Visibility 9h. To-day.
Kew	18	bm,cm,	cm,c	c,q,ir,	49	49	45	-	0.1	4.0	•	•	7
Croydon	244	bw,bc,z,	bcc,3m,q,	c,q,r,r,m,	50	48	43	-	0.4	4.1	•	•	6
Greenwich (Royal Observatory) ...	149	b	bc⊕c	c⊕o,r,r	50	47	41	-	1	3.7	77	88	6
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	1.4	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	51	43	43		1	3.7	69	77	•
Regents Pk. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	2.3	•	•	•
Camden Square	110	bc	c	•	49	42	43	-	2	•	•	90	•
Kensington Palace	80	bcb	bcco	•	50	45	42	-	2	•	At 18h. 81	88	•
Hampstead Observatory	450	bc	bbc	•	48	41	38	-	2	3.2	•	83	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 29th

South Kensington. Max.	Time.	Min.	Time.
0.6	15h 28m	<0.3	21h 28m to 7h 29m

Kew Observatory. Max.	Time.	Min.	Time.
0.2	11h 28m	0.1	22h 28m to 5h 29m

FOREIGN OBSERVATIONS.

18h. G.M.T. 28th December

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1019.1	WSW	2	b	48
Brussels	1017.1	S	4	c	43
Berlin	1019.4	SW	1	m	37
Zürich					
Rome					

7h. G.M.T. 29th December

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
1000.6	SSE	4	bc	43
1002.4	SSE	5	C	41
1016.4	SE	2	m	34
1016.7	N	1	F	30
1021.4	-	0	F	32

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
52	41	-	-
46	41	4	-
41	32	-	-
	28		4
	30		-

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1-3	5	19–24	10	55–63
2	4-7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 „
2 Fog	550 „
3 Moderate fog	1,100 „
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ „
6 Moderate „	6½ „
7 Good „	12½ „
8 Very good „	31 „
9 Excellent „	beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Precipitous.
4 Rough.	9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. Simpson, C.B., D.Sc., F.R.S., Director.

+ 1 hr. observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 30th December 1930.

No. 25240

OBSERVATIONS at 13h. G.M.T. 29th December

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)	0-9 Visibility (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)
Lerwick	980.3	+2.0	SW	2	bc	43	75	7	8	8	-	4-6	4-6	1500
Stornoway ...	985.6	+4	W	2	c	40	95	7	3	1	-	9	10	4000
Wick	984.6	+10	SW	3	bc	39	85	5	8	7	1	2-3	4-6	1500
Tiree	988.7	+3	NW	4	c/phr	45	65	8	8	3	8	4-6	9+	1500
Nairn	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Aberdeen	985.8	+4	WNW	2	c	39	85	8	5	7	1	2-3	9	4000
Malin Head ...	991.1	+32	NW	6	bc/pr	44	95	8	3	6	-	4-6	4-6	1500
Renfrew	988.4	+34	NW	2	c	42	85	8	5	7	8	7-8	9+	4000
Inchkeith (Edin.)	985.2	+6	NNW	3	c	43	95	7	5	1	-	4-6	9+	800
Leuchars	985.3	+6	NW	2	c	42	85	6	5	7	-	4-6	9+	4000
Eskdalemuir ...	984.7	+6	NE	2	c	41	85	8	5	3	8	9+	9+	2500
Tynemouth ...	985.0	+4	W	1	r_o	43	95	3	6	-	-	10	10	1500
Blacksod Point ...	996.8	+24	W	4	bc	44	85	8	8	-	-	4-6	4-6	2500
Aldergrove ...	990.6	+22	WNW	4	c/pr	41	85	8	9	1	-	7-8	9	2500
Donaghadee ...	988.7	+24	NNW	3	ph(r)	42	75	7	6	-	-	9+	9+	800
Birr Castle ...	995.7	+24	NW	3	bc	41	85	8	5	-	2	2-3	4-6	2500
Holyhead	990.5	+22	NNW	7	PH(R)	41	95	6	8	-	-	9+	9+	1500
Liverpool (Bidston)	985.9	0	W	6	PR	41	85	7	6	-	-	10	10	1500
Chester (Sealand)	987.3	+8	WNW	5	pr_o	43	85	7	6	2	1	4-6	9	1500
Harrogate... ...	984.4	-6	SW	2	c/r	39	95	6	6	2	-	9	10	2500
Spurn Head ...	984.3	-4	SSW	3	c/jp	45	95	7	3	3	-	4-6	9+	4000
Birmingham ...	988.2	+16	WNW	4	c	40	85	7	6	-	-	7-8	7-8	1500
Cranwell	985.4	-10	W	4	ir	43	85	6	6	2	-	7-8	10	800
Gorleston	987.4	-32	S'W	6	ir	46	95	6	6	-	-	10	10	1500
Valentia Obs. ...	1000.5	+40	NNW	4	ph(r)	41	85	8	6	-	-	7-8	7-8	2500
Roches Point ...	998.4	+34	N	3	bc	41	85	8	3	-	-	2-3	2-3	1500
Pembroke... ...	993.0	+24	NW	5	q	45	75	8	2	9	-	4-6	7-8	1500
Ross-on-Wye ...	990.2	+16	WNW	4	bc	44	75	8	8	7	2	2-3	4-6	4000
Leafield	988.4	+14	WSW	5	c/pr	40	85	9	6	9	3	2-3	9	800
Cardington ...	986.5	-10	SW'S	4	c	46	85	8	7	2	-	7-8	9+	2500
Winchester ...	989.6	+18	W'N	4	c	41	95	7	5	2	-	4-6	(4-6)9	800
S. Farnborough ...	988.1	-8	WNW	4	pr	43	95	8	6	7	-	7-8	9+	1500
London (Kew) ...	987.2	-18	SW	3	pr	46	85	6	6	7	-	9	9	1500
Croydon	988.2	-16	SW	3	c/pr	46	85	6	9	-	8	4-6	7-8	800
Manston														
Shoeburyness ...	987.8	-24	SSW	5	bc	48	85	8	2	6	-	4-6	4-6	2500
Clacton-on-Sea ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Felixstowe ...	988.4	-26	S'W	4	c/r	45	95	7	5	1	-	7-8	9	1500
Scilly (St. Mary's)	996.0	+28	NNW	4	c	48	75	8	8	7	1	4-6	7-8	4000
Falmouth... ...	995.7	+10	WNW	4	c	47	65	8	3	1	-	4-6	7-8	4000
Plymouth... ...	994.0	+26	NW	5	bc	48	55	8	2	6	1	1	4-6	2500
Portland Bill ...	990.7	+22	WNW	7	c	47	75	7	8	-	-	7-8	7-8	1500
Calshot, S'hampton	989.3	+10	WNW	5	c	44	85	8	8	2	-	7-8	9	1500
Dungeness ...	*	*	SW	7	c/jp	*	*	6	9	3	*	4-6	7-8	2500
Lympne	988.8	-26	SSW	6	pr	45	95	7	5	-	-	9+	9+	800
Guernsey	994.4	+24	WNW	5	c	48	65	7	5	-	-	7-8	7-8	1500

OBSERVATIONS at 18h. G.M.T. 29th December

Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	0-9 Visibility (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)
Lerwick	983.5	+8	SW	2	bc	43	85	7	8	4	-	2-3	2-3	2500	1	*
Stornoway ...	987.3	+14	WSW	4	r	42	95	7	6	-	-	10	10	4000	1	2
Wick	985.7	+10	WSW	2	bc	35	85	8	3	-	1	2-3	2-3	2500	0	2
Tiree	991.5	+14	W'N	5	<	**	65	8	5	3	-	4-6	7-8	1500	0	*
Nairn	987.7	*	SW	1	bc	35	85	8	-	8	-	0	4-6	-	0	*
Aberdeen	987.6	+12	WNW	3	c	37	85	7	-	7	8	0	7-8	-	1	2
Malin Head ...	993.5	+14	WNW	5	bc/pr	43	85	8	3	5	-	2-3	4-6	1500	1	4
Renfrew	991.4	+20	WNW	2	bc	36	95	7	-	-	2	0	4-6	-	1	*
Inchkeith (Edin.)	989.4	+26	W	3	c	40	85	8	5	1	-	2-3	7-8	4000	0	*
Leuchars	989.2	+26	W	3	c	38	75	8	-	7	-	0	9	-	1	*
Eskdalemuir ...	990.3	+34	NNW	4	c	37	75	8	5	-	-	9+	9+	2500	1	*
Tynemouth ...	986.6	+28	NW	3	ir_o	42	85	6	6	-	-	10	10	1500	1	3
Blacksod Point ...	998.0	+8	W	4	bc	43	75	7	4	-	-	4-6	4-6	2500	0	5
Aldergrove ...	995.0	+18	W	4	c	39	85	8	5	3	-	4-6	7-8	1500	1	*
Donaghadee ...	994.1	+20	WNW	5	q	41	75	7	3	-	-	4-6	4-6	2500	1	2
Birr Castle ...	999.4	+18	NW	2	b	37	85	8	-	3	-	0	1	-	1	*
Holyhead... ...	995.8	+38	NW'N	7	bc	46	75	7	1	3	4	1	4-6	2500	1	5
Liverpool (Bidston)	991.8	+36	NW;W	7	o/pr	43	75	8	6	-	-	10	10	1500	2	*
Chester (Sealand)	992.6	+32	NWW	6	pr	44	75	8	9	-	-	9	9	1500	2	*
Harrogate... ...	988.2	+40	WSW	1	rr	39	95	6	6	-	-	10	10	2500	1	*
Spurn Head ...	985.5	+4	W'N	4	c	42	95	6	5	3	-	4-6	9+	2500	1	4
Birmingham ...	993.6	+30	WNW	4	pr	38	95	8	6	-	-	10	10	800	1	*
Cranwell	988.2	+14	W'S	5	c	40	85	6	5	-	-	9	9	1800	1	*
Gorleston	989.2	+20	W	3	bc	42	95	7	1	-	-	4-6	4-6	2500	1	3
Valentia Obs. ...	1002.0	+2	WSW	4	pr	43	75	8	6	-	-	9	9	1500	1	3
Roches Point ...	1002.6	+24	WNW	3	bc	43	85	8	3	-	-	2-3	2-3	1500	1	3
Pembroke... ...	998.9	+20	NW	6	q	45	75	8	8	-	-	2-3	2-3	4000	1	3
Ross-on-Wye ...	995.3	+24	W	3	pr	42	75	8	9	-	3	7-8	9	4000	1	*
Leafield	994.2	+34	W	6	ir_o	39	85	7	6	-	-	9	9	1500	1	*
Cardington ...	991.7	+26	W'S	5	c	41	75	8	4	-	-	9	9	2500	1	*
Winchester ...	996.3	+40	W'S	4	b	39	85	8	-	-	1	0	1	-	1	*
S. Farnborough ...	995.1	+42	W	4	b	40	85	7	-	-	-	0	0	-	2	*
London (Kew) ...	994.3	+36	WSW	3	b	42	75	7	5	-	-	Tr.	Tr.	4000	1	*
Croydon	994.8	+38	W'S	4	z	41	75	6	-	7	-	0	1	-	1	*
Manston																*
Shoeburyness ...	992.9	+46	W'S	4	bc	42	95	6	2	1	-	1	4-6	2500	1	*
Clacton-on-Sea ...	991.3	+30	W	4	c	42	95	7	49	-	-	7-8	7-8	800	1	2
Felixstowe ...	991.7	+34	W'S	4	bc	42	85	7	2	-	8	4-6	4-6	4000	1	3
Scilly (St. Mary's)	1003.6	+36	WNW	5	bc	44	85	8	4	-	1	2-3	2-3	4000	0	3
Falmouth... ...	1002.5	+16	WNW	4	bc	43	75	8	3	-	-	4-6	4-6	4000	1	2
Plymouth... ...	1000.1	+36	NW	4	b	43	75	7	3	-	-	Tr.	Tr.	4000	1	2
Portland Bill ...	997.5	+24	W'S	5	bc	45	75	7	2	6	-	2-3	4-6	2500	1	4
Calshot, S'hampton	996.8	+38	W	4	b	41	85	8	3	-	9	1	1	2500	1	2
Dungeness ...	*	*	WNW	5	bc	*	*	7	5	4	*	2-3	4-6	2500	*	3
Lympne	994.0	+30	WSW	4	bc	41	85	7	5	-	2	1	4-6	800	1	*
Guernsey	1000.5	+40	W	4	bc	47	65	9	5	-	-	4-6	4-6	2500	1	4

PAST 24 HOURS.

Weather. 7h.–13h. 29th (37)	13h.–18h. 29th (38)	18h. 29th to 1h. 30th (39)	1h.–7h. 30th (40)
$or_o bc$	bc	$bc pr_o$	bc
$bc pr_o c$	c or	$o, bc pr$	$bc pr$
$cr_o bc$	bc	bc	bc
$cp_o zg bc$	$cbc cgc$	cbc	$bc q$
$o cbc$	$bc x$	$bc x$	bc
$cm_o bc$	cbc	$bc b$	bx
$cr_o cm_o$	$cm_o c$	$c, bb x$	bx
c	$cpr c$	$cb x$	$bx ox$
$co_o cf$	$oi frr$	$oi r_o bc$	bbc
$bc q$	bc	bc	c
$cpr_o prh$	cbc	$bc bx$	bc
$cphr_o$	$cb c q$	b	bx
$corr cbc$	$bc b$	$bx cr c$	$cor_o r$
cpr_o	$pr ir cq$	$bc bbc$	c, PR
$or Dq$	PR q	$qpr b$	b
rrc [illegible] mr	$cprh q$	$bc qpr b$	bc
$oc grr$	$cbe or r$	$or cbc$	bcc
cir	$cr_o mc$	$crr_o bc$	bc
odr	$cbcc$	$or bcc$	c
$r_o crr r_o$	$ir em_o$	$cr bm_o$	$bm_o c$
$oqr_o r_o$	$oi rcq$	$coir bc$	$bc b$
$cPRRp_o pr$	$cphrbcp$	$cphrpr ir$	$crr ir r_o$
bc	$bcp_o bc$	①bcpc	corr
cq	$p_o bcq$	bc ①	$orr q$
$cgr cbc$	bcc	$bcbbcc$	c
$oir cp$	cbc	$ir cbc$	bc
$cd_o dr kpr$	$Rqbc$	cbc	$bwbcc$
$orm PR c$	$c bcb$	b	$bbcc$
$fr_o bccp$	$cbcb$	$b, cp_o bw$	$bw or_o$
cp	$cr_o cb$	c	co
$bcrr PRm_o$	$cm_o bcb$	$bbm_o cd_o b$	$bbcm_o$
$cr bc cp$	$cprqbc$	$bccpr$	c
$cbcc$	cbc	$bcc ir$	$or_o rc$
$or_o bc$	$bc P$	bcc	$orrm_o q$
$or ir bqy$	$bye pr_o o$	$bcp r_o b$	$cors rrm_o q$
$oR ipc$	cbc	bbcc	corr
$cPR r_o q$	$cbcqb$	bw	$bcwc$
p	bc	*	b
$cm_o prRHq$	cpr	$cpr bm_o$	$b, cm_o w$
cprh	cbc	bccbc	corr

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered).
c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds,
F, thick fog, ,, less than 220 yds.
m, mist, ,, 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
s, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,
R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, solar halo. ☿, lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"$\frac{1}{10}r$" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

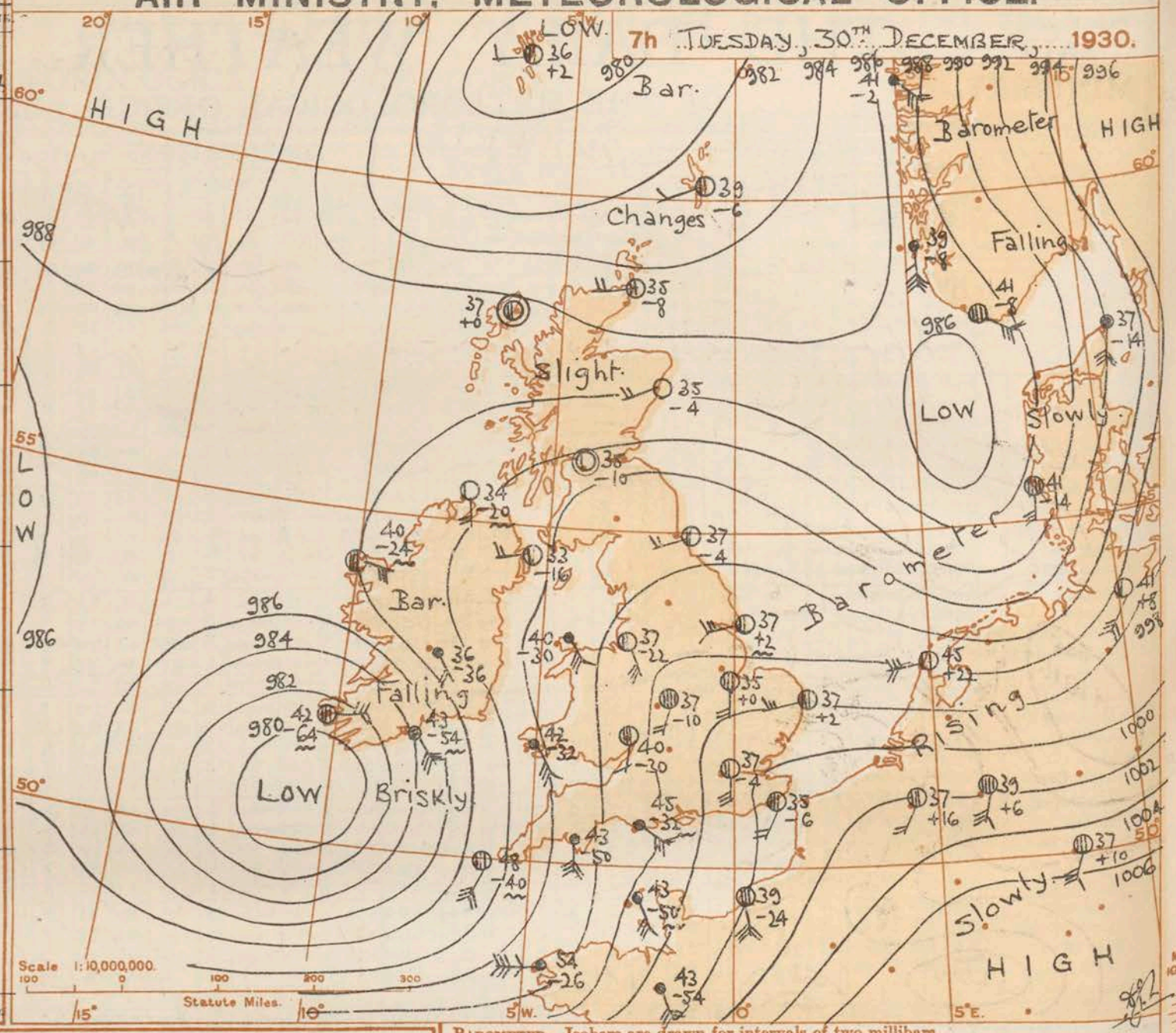
REPORTS from HEALTH RESORTS for 29th December 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 28th to 9h. 29th	TEMPERATURE. Max. 9h.—17h. 29th	RAINFALL. Night. 17h. 28th to 9h. 29th	RAINFALL. Day. 9h.—17h. 29th	SUNSHINE. Sunrise to Sunset. 29th
Dunbar	cm₀	c	40	50	1	-	0·0
Berwick-on-T.	o	c	41	44	1	-	0·0
Douglas	CRH	cqRh	40	44	5	5	0·0
Llandudno	cpcrrs	crqrrs	41	45	11	7	0·0
Colwyn Bay	o	crrrp	41	44	25	7	0·0
Rhyl	cqpr	corr	40	45	15	2	0·2
Wallasey	Rro	orqc	40	44	15	2	0·1
Southport	roc	opo	41	44	16	0·4	0·0
Blackpool	cp	opq	41	43	14	1	0·0
Morecambe	rrcor	cbbcc	40	43	19	1	0·1
Ilkley	iro	ocir	39	43	5	0·5	0·0
Cleethorpes	or₀	orRco	38	48	2	3	0·1
Mablethorpe	oirm₀	oirm₀	42	46	1	2	0·0
Skegness	od	doro	35	47	0·3	0·4	0·0
Aberystwyth	corrc	cprc	38	45	27	1	0·0
Bath	rc	cbcb	44	46	8	0·5	1·9
Cheltenham †	coirc	cbcc	44	51	6	1	1·9
Leamington Spa	orc	cp	38	46	8	0·3	0·8
Lowestoft	iio	cirdo	39	47	-	5	0·0
Dovercourt	roc	roc	44	47	0·2	3	0·5
Maldon	crc	bccrc	45	48	Trace	2	0·3
Southend	orc	orcbc	41	48	0·4	1	0·3
Ilfracombe	odc	c	43	48	10	0·2	0·6
Bude	pbc	bcprh	42	48	7	1	1·8
St. Ives	p	p	41	48	11	1	1·9
Penzance	tcb	bcpr	41	50	5	0·3	2·4
Torquay	qRpc	bcbpb	42	48	14	Trace	3·2
Jersey	rqc	c	42	49	3	3	0·2
Weymouth	Rrcpc	cbccb	44	48	14	0·1	1·6
Bournemouth	c	bcbc	43	48	6	-	1·3
Ventnor	rqpbc	bc.cb	44	47	0·5	2	1·5
Southsea	opc	cbc	44	48	2	0·3	1·4
Bognor Regis	robc	bco	44	48	2	2	1·0
Littlehampton	crbqp	bc	43	47	2	1	1·3
Worthing	orc	c	44	48	2	0·5	1·2
Brighton	ccbc	bcbc	47	49	0·4	-	1·1
Eastbourne †	ro₀ipo	ocbc	47	50	2	0·4	0·3
Hastings †	oroc	bcpc	46	50	7	4	0·8
Folkestone	or	oroc	46	48	0·4	5	0·3
Dover	rocp	cpc	47	49	Trace	3	0·8
Deal	oro	po	44	48	-	6	0·0
Tunbridge Wells	oroc	opo	41	47	5	1	0·3
Ramsgate	oir	irc	45	47	-	4	0·0
Margate	cor	cr	44	48	Trace	4	0·2

†Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖Min. Temp. 17h.-9h.

AIR MINISTRY. METEOROLOGICAL OFFICE.

7h TUESDAY, 30TH DECEMBER, 1930.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 30th Dec. 1930.
1. S.E. England	Wind south or southeast, veering west to northwest later, fresh or strong at first, a gale locally on coast; dull, rainy; probably fair later; milder, then colder again.
2. E. England	
3. E. Midlands	
4. W. Midlands	Wind southeast, veering west to northwest, moderate or fresh; dull, rain or sleet, probably fair later; normal temperature.
5. S.W. England	
6. South Wales	Wind west to northwest, strong to gale, moderating, backing later; occasional rain or showers; normal temperature.
7. North Wales	
8. N.W. England	Wind becoming northwest, strong locally at first, backing again later; some rain or sleet, snow on hills; improving temporarily; rather cold.
9. N. Midlands	
10. N.E. England	Wind east, backing north, light to fresh; dull, rain, sleet or snow, improving tomorrow; rather cold.
11. S.E. Scotland	
12. S.W. Scotland & Isle of Man	Wind variable, light or moderate; mainly fair; occasional local rain, sleet or snow; rather cold.
13. A. W. Scotld. B. N.W. Scotland.	Wind variable, light; bright periods; local wintry showers; rather cold, sharp frost locally.
14. Mid-Scotland	
15. N.E. Scotland	
16. Orkneys and Shetlands.	Wind west to northwest, light or moderate; showers and bright intervals, rather cold.
17. N.W. Ireland	As 11 - 12.
18. N.E. Ireland	Wind north, moderate or fresh, becoming light and variable, then freshening from a southerly point; some rain or sleet, then a temporary improvement; rather cold.
19. S.E. Ireland	
20. S.W. Ireland	

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 1/10 clouded. ◕ Sky 1/10 to 1/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A deep depression off Southwest Ireland is moving East-northeast. Another system on the Atlantic will fill up but further developments are likely to southwest of the British Isles. Weather will remain very unsettled, and snow will fall today in parts of Northern England and Wales.

FURTHER OUTLOOK.

Continuing very unsettled.

Times of issue of Gale Warning.

South Cone at 1900 on 29th in 5,6,7,8,12, 18,19 and 20; and at 0840 on 30th in 1 and 2.

Forecasts issued at 0950 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

Morning of
Tuesday
30th December.
1930.

Mercator's Projection Scale 1 : 4×10^7 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 the wind. Number of feathers indicate Beaufort Force.

C Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 30th December 1930.

No. 25240

OBSERVATIONS at 1 hr. G.M.T. 30th December

Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
Lerwick	54	984.1	0	-	0	bc	40	95	8	8	8	-	2-3	4-6	1500
Stornoway	34	986.3	-6	WSW	3	bc	40	95	7	3	-	-	4-6	4-6	4000
Wick	81	986.4	+4	WSW	2	bc	37	95	8	8	6	-	2-3	4-6	2500
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51	993.5	-2	W	4	pr.	40	95	7	9	-	-	9	9	1500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	992.2	+10	WSW	3	bc	39	85	7	5	-	-	2-3	2-3	1500
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	991.6	+20	W	2	b	37	85	7	-	-	-	0	0	-
Blacksod Point	10	992.1	-10	W	3	bc	43	75	7	5	-	-	4-6	4-6	2500
Aldergrove	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	998.5	-2	W	4	c	43	75	7	5	3	8	2-3	7-8	2500
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	992.9	+18	NNW	6	bc	40	85	7	5	-	1	2-3	2-3	4000
Birmingham	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	996.3	+26	W	4	b	38	85	6	-	3	-	0	1	-
Gorleston	14	994.8	+32	W	3	bc	40	95	6	-	3	-	0	2-3	-
Valentia Obs.+	30	996.1	-26	S	1	0	39	95	6	6	-	-	10	10	2500
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke	150	999.1	-6	WNW	3	bc	45	75	8	4	1	-	2-3	4-6	4000
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew)	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	1001.1	+26	W'S	4	z	39	75	6	-	-	9	0	1	-
Manston	135	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	1001.1	-26	SW'S	5	ir	45	75	7	9	-	-	9+	9+	2500
Falmouth	200	1003.5	+4	SW'S	3	c	45	65	7	5	2	-	4-6	10	4000
Plymouth	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	1002.1	+12	W'S	4	c	47	65	8	4	2	-	7-8	10	2500
Calshot, S'hampton	8	1001.7	+14	W	4	bc	39	85	7	-	-	5	0	4-6	-
Dungeness	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	999.0	+14	W'N	4	z	39	85	6	-	-	-	0	0	-
Guernsey	173	1004.6	0	-	0	bc	45	75	8	5	-	-	4-6	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 30th December

Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low (23)	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)
983.1	-6	W'S	1	bc	39	95	7	8	-	-	4-6	4-6	1500	1	*
986.5	0	-	0	bc	37	95	7	3	-	-	4-6	4-6	4000	1	1
985.3	-8	W	2	bc	35	95	8	8	-	8	4-6	4-6	2500	0	2
989.0	-10	WSW	3	bc	40	85	8	8	7	-	4-6	4-6	2500	0	3
986.9	*	W	1	bc	37	85	8	5	-	-	4-6	4-6	4000	0	*
988.0	-4	SW	2	b	35	85	8	-	-	-	0	0	-	1	2
989.6	-20	S	2	b	34	95	8	4	-	-	1	1	5700	0	4
992.1	-10	-	0	b	35	95	8	4	-	-	1	1	4000	1	*
990.7	-4	WSW	3	b	38	95	8	-	4	-	0	1	-	0	1
989.9	-2	WSW	3	b	33	95	8	-	-	-	0	0	-	4	*
992.3	-4	S	1	0	32	95	5	5	-	-	10	10	220	1	*
993.4	-4	WSW	2	bc	37	95	6	5	-	-	2-3	2-3	1500	1	2
989.4	-24	ESE	3	c	40	85	6	-	2	-	0	10	-	0	4
991.9	-20	ESE	3	c	33	95	7	-	-	6	0	7-8	-	4	*
991.8	-16	W	2	bc	33	85	7	5	-	-	2-3	2-3	4000	0	1
988.7	-36	SE	2	r.c.	36	95	7	6	-	-	10	10	2500	1	*
993.7	-30	SE'S	4	id.	40	95	7	6	-	-	10	10	1500	1	2
993.9	-12	SSW	3	bc	39	75	8	5	-	8	Tr	2-3	2500	1	*
995.2	-22	S'E	3	bc	37	85	7	5	-	-	4-6	4-6	2500	2	*
994.5	0	SW	1	c	35	95	7	6	1	-	1	9	2500	1	*
994.6	+2	W'S	4	bc	37	95	6	5	-	-	4-6	4-6	4000	1	4
996.8	-10	SSW	2	c	37	85	8	5	-	-	10	10	2500	1	*
995.7	0	S	2	c	35	95	6	-	7	-	0	9+	-	1	*
997.6	+2	W'S	3	c	37	85	7	-	2	6	0	7-8	-	0	2
981.5	-64	E	5	c/r	42	85	8	6	2	-	7-8	10	2500	1	4
984.2	-54	SE	6	rr	43	95	6	6	-	-	10	10	1500	1	5
991.6	-32	SE	4	rr	42	95	7	3	-	-	10	10	1500	1	3
995.8	-30	SSW	1	c	40	75	7	6	2	-	Tr	10	2500	1	*
996.6	-26	SSE	3	c	34	95	78	-2	+1	-	0 7-8	7-8	5900	1	*
998.1	-10	SW'S	4	c	36	85	7	5	-	-	9	9	2500	1	*
997.6	-28	ESE	2	c	36	95	7	5	2	-	2-3	10	1500	1	*
998.0	-20	SE'S	2	o	38	85	6	5	-	-	10	10	5700	1	*
998.7	-14	S'W	1	o	37	95	7	5	-	-	10	10	2500	1	*
1000.4	-4	S	3	z	37	85	6	-	-	8	0	4-6	-	1	*
999.4	-10	SW	2	c	36	95	8	5	2	-	4-6	9 2-3	2500	1	*
1003.0	0	W	3	bc	38	75	7	5	1	-	4-6	4-6	800	0	2
999.3	+4	WSW	2	c	38	85	7	5	-	-	7-8	7-8	2500	1	2
988.4	-40	SSW	S	c	48	95	7	8	-	-	9	9	4000	1	4
991.6	-26	S'E	8	rr	45	95	6	6	-	-	10	10	2500	2	5
993.0	-50	S	5	rr	43	95	5	6	-	-	10	10	800	2	3
995.8	-32	SE'E	5	rr	45	75	7	5	-	-	10	10	1500	1	4
997.4	-22	S	5	ir	43	75	6	5	-	-	10	10	1500	1	2
•	•	SW	2	bc	•	•	7	-	2	*	0	4-6	-	*	7
1000.0	-6	SW'S	2	z	35	95	6	5	1	-	4-6	10	2500	1	*
996.2	-50	SSE	4	rr	43	95	8	6	-	-	10	10	1500	2	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 Hrs. (36)
43	39	*	2	1	2.6
42	36	*	2	2	0.4
40	34	*	0.6	-	*
45	40	32	0.2	Tr.	0.9
36	34	*	-	-	0.4
43	31	23	-	-	0.0
45	34	*	0.5	1	0.9
43	32	23	0.2	0.1	0.7
44	37	34	-	-	0.0
42	32	27	0.1	-	0.0
42	31	25	0.3	-	0.0
45	36	30	10	0.2	*
46	38	*	1	Tr	*
42	28	23	2	Tr	0.0
44	32	*	3	-	*
43	33	26	1	0.5	2.0
46	39	37	1	1	0.0
43	38	35	4	0.2	0.2
44	37	32	7	1	0.3
43	35	30	4	0.4	0.0
46	36	*	4	3	0.0
44	36	33	3	2	0.7
48	35	29	3	1	0.0
45	38	31	1	-	2.6
45	33	31	1	1	2.3
47	34	33	3	Tr	0.3
45	40	*	Tr.	10	*
50	41	*	0.5	3	1.1
49	37	32	3	Tr	0.3
48	35	30	3	Tr	0.3
49	37	31	7	0.1	0.3
49	37	33	5	Tr	0.0
47	34	33	3	Tr	0.3
48	35	30	3	Tr	0.3
49	37	31	7	0.1	0.3
49	38	*	4	Tr	*
46	34	29	8	0.1	0.7
49	43	37	1	2	1.2

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather Morning.	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	cp	cr.cb	co	49	37	31	7	0.1	0.3	•	•	4
Croydon	244	ocrrPRm	cm.bcb	bcbcrdbbcm	49	37	33	5	Tr	0.0	•	•	6
Greenwich (Royal Observatory)	149	rrer	crebc	bccr.bx	49	36	28	2	Tr	0.7	83	84	6
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Park)	27	•	•	•	49	37	32	2	•	0.2	81	85	•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•	0.1	•	•	•
Camden Square	116	orcor	cpc	•	46	37	32	3	-	•	At 18h.	85	•
Kensington Palace	80	beor	orbcco	•	47	38	32	3	-	•	61	80	•
Hampstead Observatory	450	ombc	c	•	45	34	28	3	0.1	0.2	•	83	•

5 Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 30th.

South Kensington. Max.	Time.	Min.	Time.
0.6	17-18h 29th	<0.3	23h 29th 7h 30th

Kew Observatory. Max.	Time.	Min.	Time.
0.2	13h 29th	<0.1	3h 30th

FOREIGN OBSERVATIONS.

18h. G.M.T. 29th December

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1000.1	WSW	6	bc	45
Brussels	995.2	SW	5	ir.	43
Berlin	1004.2	SE	4	c	37
Zürich	1010.8	W	2	RS	34
Rome	1012.6	ESE	1	id.	48

7h. G.M.T. 30th December

Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
1002.2	SW	2	c	37
1003.4	SW	2	c	39
1012.2	NW	2	c	37
1002.3	SE	3	c	45

Past 24 Hours.

Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
46		1	
45	37	0.3	0.5
39	34	-	-
37	34	1	3
48	45	2	10

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort. No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13-18	9	47-54
1	1-3	5	19-24	10	55-63
2	4-7	6	25-31	11	64-75
3	8-12	7	32-38	12	75
		8	39-46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	,,
6	Moderate ,,	6½	,,
7	Good ,,	12½	,,
8	Very good ,,	31	,,
9	Excellent ,,	beyond 31m.	

COLUMN 30.—Code for State of Sea.

0	Calm.	5	Very rough.
1	Smooth.	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Precipitous.
4	Rough.	9	Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. Simpson, C.B., D.Sc., F.R.S., Director.

+ 1 hr. observations are from Valentia W/T station.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 31st Dec. 1930.

No. 25241

OBSERVATIONS at 13h. G.M.T. 30th Dec.

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)
Lerwick	9834	+4	W'S	1	bc	42	85	8	8	8	-	2-3	4-6	1500
Stornoway ...	9868	-6	WSW	2	b bc	42	85	8	3	8	-	1	2-3	4000
Wick	986.0	+4	WSW	2	bc	39	85	8	8	8	1	2-3	4-6	2500
Tiree ...	987.3	991.5	+14	5 WNW	3 5	c	44	76	8	8	5	4	3	1500
Nairn														
Aberdeen	988.2	-4	SW	2	bc	39	65	6	7	-	-	2-3	2-3	4000
Malin Head ...	986.2	-24	SE	2	c	40	95	8	5	-	3	2-3	9	4000
Renfrew	990.0	-10	SE	1	c	38	95	6	5	-	1	4-6	7-8	1500
Inchkeith (Edin.)	9894	-8	W	2	bc	40	95	7	-	4	9	0	2-3	-
Leuchars	989.1	-8	WSW	2	b	37	85	6	-	3	-	6	Tr.	-
Eskdalemuir ...	9896	-26	NNE	1	c	33	95	7	5	-	6	4-6	9	450
Tynemouth ...	990.8	-16	SW	2	m	38	85	4	5	-	-	4-6	4-6	1500
Blacksod Point ...	9849	-20	ESE	6	c	39	95	7	5	-	-	9+	9+	220
Aldergrove ...	986.5	-30	NE	2	ir$_o$	37	95	6	6	1	-	4-6	10	2500
Donaghadee ...	987.0	-28	SSE	3	r$_o$r$_o$	40	85	7	6	-	-	9	9	800
Birr Castle ...	980.6	-40	E	1	o/r	39	95	7	6	-	-	10	10	2500
Holyhead... ...	9848	-58	ESE	6	r$_o$r$_o$	40	95	7	6	-	-	10	10	1500
Liverpool (Bidston)	986.7	-50	E	5	r$_o$r$_o$	39	85	6	6	-	-	10	10	1500
Chester (Sealand)	987.0	-58	SEE	5	rr	39	95	5	6	-	-	10	10	1500
Harrogate... ...	991.2	-26	SE	1	r+	36	95	3	5	2	-	9	10	<150
Spurn Head ...	991.4	-10	S'W	3	c	40	95	7	6	2	-	4-6	10	4000
Birmingham ...	988.8	-60	SE	4	rs$_o$rs$_o$	37	95	5	6	-	-	10	10	1500
Cranwell	991.4	-38	SE	3	ir$_o$	38	85	6	6	2	-	4-6	10	2500
Gorleston	9949	-28	S	4	c	42	95	6	-	2	-	0	10	-
Valentia Obs. ...	976.8	-24	SWW	4	iR	48	95	6	6	-	-	10	10	800
Roches Point ...	979.0	-14	SW	3	o	48	95	7	5	-	-	10	10	1500
Pembroke... ...	9794	-36	SW	6	rr	50	95	6	6	2	-	9	10	800
Ross-on-Wye ...	9845	-68	ESE	2	d$_o$d$_o$	41	95	7	6	-	-	10	10	1500
Leafield	987.2	-54	SE	6	rr	37	95	6	6	-	-	10	10	220
Cardington ...	990.9	-60	SE'S	4	r$_o$r$_o$	40	85	6	6	2	-	7-8	10	800
Winchester ...	987.0	-70	SE	5	dd	42	95	6	6	-	-	10	10	220
S. Farnborough ...	989.1	-62	SE'S	4	r$_o$r$_o$	41	95	6	6	-	-	10	10	800
London (Kew) ...	990.0	-70	SE'S	4	r$_o$r$_o$	41	85	6	6	-	-	10	10	1500
Croydon	991.1	-70	SE'S	4	dr	41	95	5	6	-	-	10	10	800
Manston														
Shoeburyness ...	9928	-30	SSE	3	r$_o$r$_o$	41	95	7	6	-	-	10	10	1500
Clacton-on-Sea ...														
Felixstowe ...	9938	-46	S	5	rr	43	75	7	6	2	-	7-8	10	800
Scilly (St. Mary's)	985.3	-12	WSW	7	PR	52	95	6	8	-	-	7-8	7-8	4000
Falmouth... ...	985.8	-20	WSW	8	c/r	53	95	6	6	1	-	7-8	9	2500
Plymouth... ...	9855	-20	W'S	5	o	52	95	6	6	-	-	10	10	800
Portland Bill ...	9850	-40	SW	6	rr	52	95	6	5	-	-	10	10	1500
Calshot, S'hampton	984.1	-66	SSE	5	rr	45	95	6	6	-	-	10	10	1500
Dungeness ...	*	*	S	6	rr	*	*	6	6	2	*	7-8	10	2500
Lympne	9930	-48	SE'S	5	r$_o$r$_o$	40	95	5	6	-	-	10	10	450
Guernsey	9894	-28	SW	4	o	54	95	6	5	-	-	10	10	1800

OBSERVATIONS at 18h. G.M.T. 30th Dec

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)
Lerwick	983.4	+4	W'S	1	bc	40	85	7	8	3	4-6	4-6	4-6	1500	1	*
Stornoway ...	986.2	0	WSW	1	bc jp	36	95	7	4	3	-	2-3	2-3	4000	1	1
Wick	985.9	0	SW	2	bc	33	95	8	5	-	-	2-3	2-3	4000	0	2
Tiree ...	9867	0	—	0	bc	32	95	9	8	4	8	2-3	2-3	2500	0	2
Nairn	986.7	*	-	0	bc	31	85	8	7	-	-	2-3	2-3	4000	94	*
Aberdeen	987.5	-2	WNW	2	b	32	85	5	5	-	-	Tr.	Tr.	4000	1	2
Malin Head ...	984.8	-2	ENE	3	c	43	95	8	2	-	6	2-3	7-8	2500	0	2
Renfrew	987.6	-10	NE	1	m	33	95	4	-	-	6	0	4-6	-	1	*
Inchkeith (Edin.)	987.7	-6	E	1	c	37	95	5	-	1	-	0	10	-	0	6
Leuchars	987.9	-	WSW	1	f	31	95	3	-	5	7-	0	4-6	-	4	*
Eskdalemuir ...	986.5	-16	E'N	3	c	33	95	8	-	-	7	0	10	-	1	*
Tynemouth ...	988.3	-16	S	2	o	39	85	7	6	-	-	10	10	1500	0	2
Blacksod Point ...	985.3	+16	NE	7	rr	40	95	6	6	-	-	10	10	150	2	6
Aldergrove ...	983.8	-6	NE	3	ir$_o$	39	85	6	6	-	-	9+	9+	800	1	*
Donaghadee ...	983.0	-18	SE	6	ir$_o$	41	85	7	5	-	-	9	9	1500	1	4
Birr Castle ...	978.6	-2	ENE	1	r$_o$r$_o$	39	95	7	6	1	-	7-8	10	2500	1	*
Holyhead... ...	978.6	-26	E	6	r$_o$r$_o$	40	95	5	6	-	-	10	10	800	1	3
Liverpool (Bidston)	980.0	-30	E'N	5	id	36	95	6	6	-	-	10	10	1500	1	*
Chester (Sealand)	980.8	-30	SE	3	r$_o$r$_o$	37	95	5	6	-	-	10	10	1500	2	*
Harrogate... ...	985.9	-34	E	3	rr	35	95	5	6	-	-	10	10	2500	1	*
Spurn Head ...	983.5	-22	SE	6	rr	41	85	7	6	1	-	7-8	10	4000	1	5
Birmingham ...	981.0	-22	E	1	rf	39	95	3	6	-	-	10	10	800	1	*
Cranwell	983.1	-42	E	3	r$_o$r$_o$	37	95	6	6	2	-	9	10	450	1	*
Gorleston	985.3	-48	SSE	7	rr	42	95	6	6	-	-	10	10	800	1	4
Valentia Obs. ...	977.2	+16	NNW	6	c	43	95	8	5	-	-	7-8	7-8	1500	1	4
Roches Point ...	977.2	-10	W	3	c	49	95	7	3	-	-	7-8	7-8	1500	1	4
Pembroke... ...	977.9	-6	WSW	5	c/pr	50	95	7	3	1	-	7-8	10	1500	2	3
Ross-on-Wye ...	980.5	-12	SSW	2	c	48	98	6	6	1	-	2-8	10	2500	1	*
Leafield	980.8	-20	S'W	4	c/r	44	95	7	6	1	-	4-6	9	800	1	*
Cardington ...	981.8	-46	S	3	ir$_o$	42	85	6	6	-	-	10	10	800	2	*
Winchester ...	982.6	-14	SSW	4	c/r	49	95	7	5	-	-	9	9	1500	1	*
S. Farnborough ...	983.0	-16	SSW	4	ir$_o$	50	95	6	6	1	-	7-8	10	1500	2	*
London (Kew) ...	982.7	-36	SSW	4	2	48	95	5	5	-	-	9	9	2500	1	*
Croydon	984.1	-18	SW	4	2	50	85	6	4	-	-	9	9	2500	1	*
Manston																*
Shoeburyness ...	983.6	-46	S	2	c	45	95	4	5	1	-	2-3	7-8	2500	1	*
Clacton-on-Sea ...	984.3	-50	SSE	7	rr	47	95	6	6	-	-	10	10	450	1	4
Felixstowe ...	984.3	-54	S'E	5	ir$_o$	43	95	6	6	-	-	10	10	450	1	4
Scilly (St. Mary's)	982.2	-16	W'S	7	c	49	95	7	2	-	2	2-3	9	4000	1	5
Falmouth... ...	983.7	-16	WSW	6	ir$_o$	49	95	7	6	1	-	4-6	9	2500	1	4
Plymouth... ...	982.9	-14	WSW	6	ir	51	85	7	6	-	-	9+	9+	800	2	4
Portland Bill ...	982.7	-8	SWW	7	c	52	85	7	3	4	-	7-8	9	1500	2	5
Calshot, S'hampton	983.7	-10	WSW	5	c	50	95	6	5	3	-	4-6	7-8	2500	1	3
Dungeness ...	*	*	SW	6	dr	*	*	4	6	2	*	7-8	10	800	*	4
Lympne	984.8	-32	SW'S	5	c/pr	48	95	6	6	2	-	9+	10	450	1	*
Guernsey	989.2	-4	SW	4	o	53	85	6	5	-	-	10	10	1500	2	4

PAST 24 HOURS. WEATHER.

STATIONS. (For heights see p. 4.)	7h.–13h. 30th (37)	13h.–18h. 30th (38)	18h. 30th to 1h. 31st (39)	1h.–7h. 31st (40)
Lerwick	bcpr$_o$bc	bcpr$_o$bc	bcpr$_o$	bc
Stornoway ...	bcpr$_o$	bc	bc	bcpr
Wick	bc	bc	bc	bc
Tiree ...	ebcqc	bbcx	bcxb	bcxp
Nairn	bc	bcpc	bcx	bx
Aberdeen	bxbcz$_o$	bcbz$_o$	bx	bx
Malin Head ...	bbcc⊕	bc 𝕌	𝕌ce	cbc
Renfrew	bbcxm$_o$	ffbcm	bcmbbcx	bbcx
Inchkeith (Edin.)	bbc	bccm$_o$	bcm$_o$m$_o$c	cbc
Leuchars	bxbm$_o$	bxm$_o$bjw	bcxfcbcvm$_o$	bcbx
Eskdalemuir ...	oxofc	ccx	crsrs$_o$	crscid$_o$
Tynemouth ...	bcm	bcmo	cirq	cirq
Blacksod Point ...	ir	rr	pc	pc
Aldergrove ...	bcxcxcir$_o$	c ir$_o$	cir$_o$	cbc
Donaghadee ...	cror$_o$	cir$_o$q	ir$_o$cq	cq
Birr Castle ...	orror$_o$	orrcr$_o$c	cr$_o$orr	orrcbc
Holyhead... ...	r$_o$cr$_o$	66m$_o$o	ir$_o$od$_o$	rrq
Liverpool (Bidston)	ooirr	orsrs	oir	orr
Chester (Sealand)	bccm$_o$$_o$$_o$	rrsd$_o$$_o$m	r$_o$d$_o$m$_o$r	orrm$_o$
Harrogate... ...	cofr$_o$	o$_o$forr	orr	orr
Spurn Head ...	bcc	crr	~~bcgcpiof~~	ofoqd
Birmingham ...	corr	orr$_o$rr	orr	orrbr
Cranwell	ccr$_o$m$_o$	crrm$_o$	cr$_o$c$_o$d$_o$d$_o$	omd$_o$f
Gorleston	cm$_o$m$_o$	orrq	o$_o$r$_o$qc	c
Valentia Obs. ...	cir$_o$iriR	ciRkpc	cir$_o$r$_o$	cp$_o$bc
Roches Point ...	oro	ocpc	coirc	cbc
Pembroke... ...	orrq	cir$_o$q	cir$_o$q	orRq
Ross-on-Wye ...	drrd$_o$	drrc	p$_o$corber	cocm
Leafield	coirr	orr	cor	cir$_o$
Cardington ...	ccr$_o$r$_o$m$_o$	orroird	oirm$_o$c	cid r$_o$m$_o$
Winchester ...	cr$_o$m$_o$dd	oddm$_o$c	cbc	bccr
S. Farnborough ...	or$_o$r	o$_o$rcm$_o$	cr$_o$mbcc	cbcpc
London (Kew) ...	occo$_o$m$_o$	crmcm	bcm$_o$c	ccr$_o$c
Croydon	bcm$_o$crrd	ordcm$_o$	cp$_o$bccm$_o$	corrr$_o$cm$_o$
Manston				
Shoeburyness ...	cor$_o$r	oir$_o$bcm	bcmcir	cir
Clacton-on-Sea ...	bcor$_o$	orq	orqop	opoc
Felixstowe ...	cerhqrq	crrm$_o$	cr$_o$m$_o$	c
Scilly (St. Mary's)	circp	cp	cp	cp
Falmouth... ...	oirm$_o$q	cirm$_o$q	cbccirq	cirpq
Plymouth... ...	orrddmir	r$_o$m$_o$cirq	bccoqr$_o$r$_o$	oqr$_o$r$_o$
Portland Bill ...	rrRRc2	rrcprc	cprc	cpRpr$_o$c
Calshot, S'hampton	or$_o$o$_o$rr	crrr$_o$d$_o$d$_o$	bcc	cm$_o$
Dungeness ...	o	r	*	p
Lympne	cor$_o$r$_o$m$_o$	or$_o$rrf	corpror	orrirm$_o$
Guernsey	oriro	o	oror	or$_o$pr

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered).
c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds,
F, thick fog, ,, less than 220 yds.
m, mist, ,, 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,
R, heavy rain. r$_o$, slight rain.
rr, continuous rain.
<, less than (for cloud height).
⊕, solar halo. 𝕌, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions, thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
Note.—Nimbus—ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

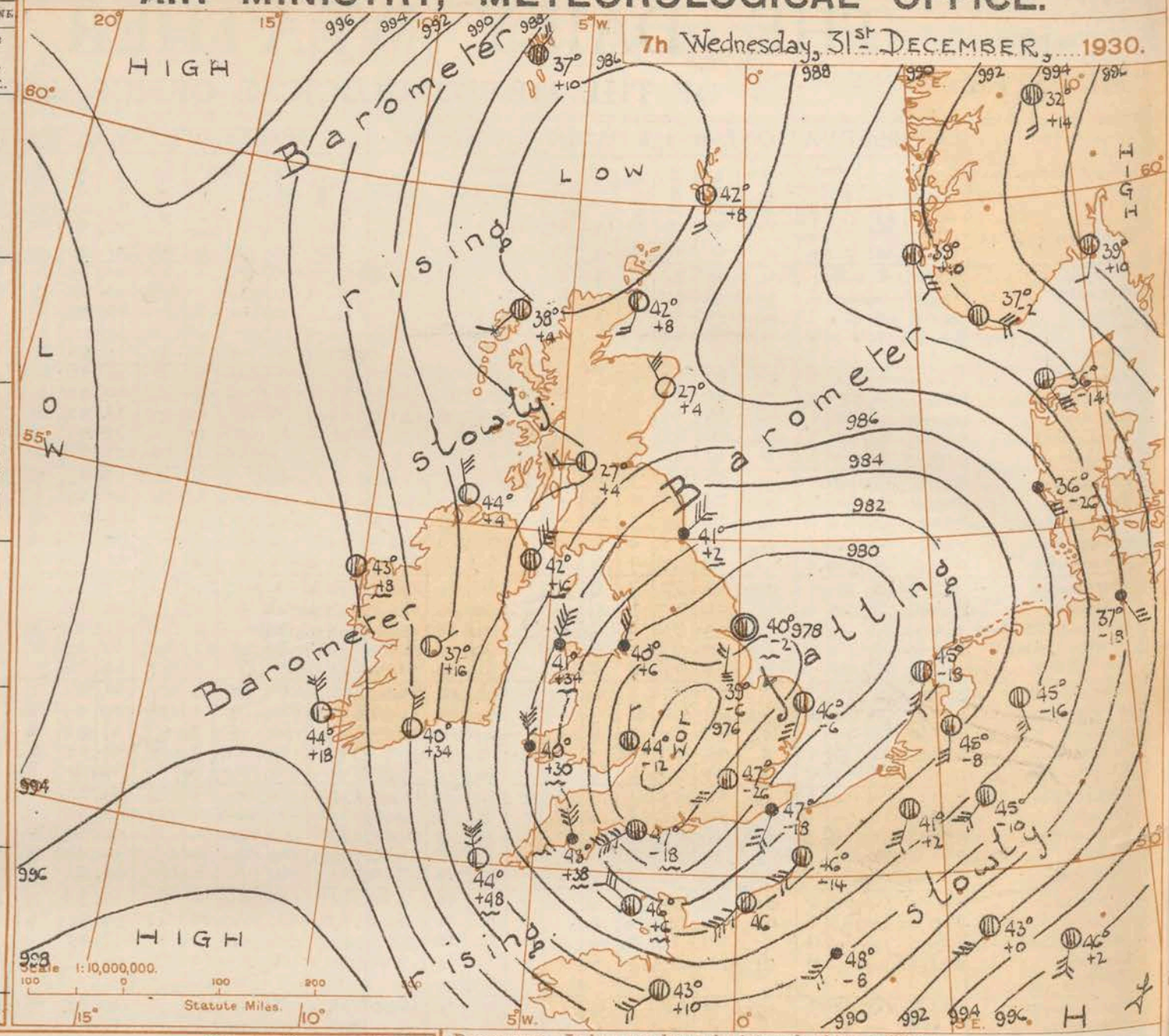
REPORTS from HEALTH RESORTS for 30th DECEMBER 1930.

STATIONS	WEATHER. Fore-noon.	WEATHER. After-noon.	TEMPERATURE. Min. 9h. 29th to 9h. 30th	TEMPERATURE. Max. 9h.—17h. 30th	RAINFALL. Night. 17h. 29th to 9h. 30th	RAINFALL. Day. 9h.—17h. 30th	SUNSHINE. Sunrise to Sunset. 30th
Dunbar	bx	bbc	35	41	-	-	4·6
Berwick-on-T.	bc	bcco	33	37	-	-	4·0
Douglas	oirm.	crm.q	36	42	4	1	0.0
Llandudno	or	rrs	39	42	1	9	0.0
Colwyn Bay	orr	r rs	38	40	0·3	6	0.0
Rhyl	cz.od	orrd.	37	41	0.4	3	0.0
Wallasey	cor	rro	38	40	-	7	0.0
Southport	orr	o	37	39	1	4	0.0
Blackpool	pho	or	36	40	z	3	0.0
Morecambe	rdpc	crdpc	36	42	Trace	0·3	0.0
Ilkley	c	r	36	38	Trace	3	0.0
Cleethorpes	oc	or.r	34	40	1	1	0.0
Mablethorpe	om.	orm.	34	41	1	1	0.0
Skegness	obom.	m.or	34	41	z	2	0·2
Aberystwyth	cir.	cir	38	48	0·3	4	0.0
Bath	rcr	rrcir	37	51	1	8	0.0
Cheltenham †	oroir	orr	36	47	1	7	0.0
Leamington Spa	or	or	37	41	0·2	3	0.0
Lowestoft	cbcco	iror	35	43	0·5	3	0.0
Dovercourt	roc	roc	33	44	1	5	0.0
Maldon	cor	rr	34	43	0·3	4	0.0
Southend	cor	or	37	44	0·5	3	0.0
Ilfracombe	or	or	39	52	4	5	0.0
Bude	droe	dr	40	52	3	2	0.0
St. Ives	pr	pr	42	54	15	1	0.0
Penzance	rc	cir	41	54	7	2	0.0
Torquay	orrmR	rcoqjP	38	53	6	3	0.0
Jersey	rqc	rqc	43	53	3	2	0·1
Weymouth	r r.	r.c	41	52	4	3	0.0
Bournemouth	r	o	37	51	3	3	0.0
Ventnor	or	orour	40	51	1	4	0.0
Southsea	or	oro	39	51	1	4	0.0
Bognor Regis	crr	oir	37	50	0·3	4	0.0
Littlehampton	cr.cr	crcpc	35	50	0·1	4	0.0
Worthing	or	dror	36	50	Trace	4	0.0
Brighton	rcor	rc	37	50	Trace	5	0.0
Eastbourne †	or.rr	rro	37	52	-	7	0.0
Hastings †	odr	orrm	36	49	0·2	5	0.0
Folkestone	xor	orm.	34	47	-	3	0.0
Dover	cprd	or	38	46	-	3	0.0
Deal	orr	or	36	45	-	5	0.0
Tunbridge Wells	or	or	35	49	Trace	5	0.0
Ramsgate	c	cir	37	45	0·3	1	0.0
Margate	c	cr	36	46	-	2	0.0

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h. 9h. ‖ Min. Temp. 17h.-9h.

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Wednesday, 31st DECEMBER, 1930.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm, ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 1/10 clouded. ◕ Sky 1/10 to 1/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 31st Dec., 1930.
1. S.E. England ▲	Fresh or strong northwest wind, falling light and backing south later; dull, some rain; a short fair interval later but local morning fog; colder.
2. E. England...	
3. E. Midlands	
4. W. Midlands	Fresh or strong north or northwest wind, falling light; freshening again from south tomorrow; becoming fine temporarily; rain or sleet probable tomorrow; local morning fog; cold, frost locally at night.
5. S.W. England ▲	
6. South Wales ▲	
7. North Wales ▲	
8. N.W. England ▲	Fresh northerly wind, becoming light variable; dull, some rain, then fair; local morning fog; rather cold.
9. N. Midlands	
10. N.E. England	
11. S.E. Scotland	Light variable wind, finally south or southwest; mainly fair; local fog later: cold, frost at night, sharp locally.
12. S.W. Scotland & Isle of Man	
13. A. W. Scotld. B. N.W. Scotland.	
14. Mid-Scotland	
15. N.E. Scotland	
16. Orkneys and Shetlands.	
17. N.W. Ireland	Wind becoming light variable; freshening decidely from south later: mainly fair at first, rain later: local fog tonight; rather cold, night frost locally: becoming milder tomorrow.
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	

GENERAL INFERENCE.

A depression over England is moving eastward and another depression is approaching from the Atlantic. Rain will fall over most of England today but a temporary improvement will spread eastward. Further rain will spread from west tomorrow.

FURTHER OUTLOOK.

Rain in most districts; probably snow on high ground in the north.

Time of Issue of Gale Warning.
▲ North cone at 0825 on 31st in 1,5,6,7 and 8.

Forecasts issued at 1010 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2.
F= 2497/2165. m. 26. 0.8028. Gp. 808. 31/810. 2/30.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

Morning of
Wednesday.
31st December.
1930.

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 the wind. Number of feathers indicate Beaufort Force.

⊕ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 31st Dec. 1930.

No. 25241

OBSERVATIONS at 1 hr. G.M.T. 31st Dec

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)
Lerwick	54	985·4	+8	-	0	bc/pc	38	95	7	8	-	-	4-6	4·6	1500
Stornoway	34	985·4	0	WSW	2	bc	37	95	7	9	-	-	4-6	4-6	4000
Wick	81	986·2	0	WSW	2	b	32	95	8	5	-	-	1	1	4000
Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Nairn	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Malin Head	51	987·0	+12	N	3	C	42	95	8	2	-	8	4-6	9	2500
Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Inchkeith (Edin.)	190	986·6	-2	NE	3	C	36	95	7	5	1	-	4-6	9	800
Leuchars	30	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tynemouth	67	984·3	-14	E	6	ir.	41	95	8	6	-	-	10	10	1500
Blacksod Point	10	989·0	+12	N	3	C	43	75	7	8	-	-	7-8	7·8	800
Aldergrove	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Holyhead	26	978·6	+10	NE'E	5	dd	41	95	5	6	-	-	10	10	800
Liverpool (Bidston)	189	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Spurn Head	29	978·6	-2	W'N	2	f	40	95	2	-	-	-	10	10	<150
Birmingham	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cranwell	241	979·2	-4	-	0	o/d	40	95	4	6	-	-	10	10	800
Gorleston	14	980·8	-8	SSW	3	C	45	95	6	6	6	-	0	9	-
Valentia Obs.†	30	?	+30	NW	6	DR	42	95	6	6	-	-	10	10	2500
Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pembroke	150	975·9	-10	WSW	3	bc/r	48	95	7	3	6	-	2-3	4-6	1500
Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cardington	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Winchester	272	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
London (Kew)	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Croydon	244	982·7	-8	SSW	4	z	47	85	6	5	-	-	9	9	1500
Manston	155	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clacton-on-Sea	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Felixstowe	15	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Scilly (St. Mary's)	163	980·8	+6	W'N	8	C	47	95	7	8	-	-	9	9	4000
Falmouth	200	980·9	-4	W'S	7	ir	47	95	7	6	3	-	7-8	9	2500
Plymouth	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Portland Bill	32	980·4	-6	SW	4	C	51	85	8	8	8	-	2·3	7·8	2500
Calshot, S'hampton	8	981·7	-8	WSW	3	C	48	85	7	5	4	-	2·3	7·8	2500
Dungeness	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lympne	347	982·6	-10	SSW	4	ir	47	95	5	6	-	-	10	10	450
Guernsey	173	984·4	-10	WSW	4	r.b.	49	95	6	6	-	-	10	10	1500

OBSERVATIONS at 7 hr. G.M.T. 31st Dec

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)
Lerwick	986·5	+8	S	2	bc	42	55	8	8	-	-	2·3	2·3	1500	1	*
Stornoway	986·7	+4	WSW	1	c	38	95	7	3	-	-	7·8	7·8	4000	1	1
Wick	986·4	+2	SSW	2	bc	36	95	8	8	-	-	2·3	2·3	4000	5	2
Tiree	9880	+2	NW	3	bc	42	85	9	8	-	-	2-3	2-3	1500	0	2
Nairn	987·2	•	-	0	b	25	85	8	5	-	-	1	1	4000	4	*
Aberdeen	987·8	+4	NW	3	b	27	95	8	-	-	-	0	0	-	4	2
Malin Head	988·1	+4	NNW	3	bc/p	44	85	8	2	-	-	2·3	2·3	2500	0	2
Renfrew	989·1	+4	W	2	bc	27	95	8	-	7	8	0	2·3	-	4	*
Inchkeith (Edin.)	988·8	+4	N	3	bc	36	95	8	-	4	-	0	2·3	-	0	1
Leuchars	987·9	0	NW	3	b	31	85	8	-	3	-	0	1	-	4	*
Eskdalemuir	985·3	+4	NNE	4	id.	35	95	6	6	1?	-	7?8	10	1500	1	*
Tynemouth	982·5	+2	NE	5	ir	41	95	7	6	-	-	10	10	1500	1	4
Blacksod Point	992·1	+8	WNW	3	bc	43	75	7	3	-	-	4-6	4-6	800	1	4
Aldergrove	989·0	+12	NW	3	bc	34	95	7	5	-	-	4-6	4-6	2500	1	*
Donaghadee	987·1	+16	NE	6	q.	42	75	7	5	-	-	7-8	7-8	1500	0	4
Birr Castle	989·4	+16	ENE	1	bc	37	95	8	5	-	-	2·3	2·3	2500	1	*
Holyhead	983·4	+34	NNE	8	rr	41	95	6	6	2	-	9	10	1500	1	4
Liverpool (Bidston)	979·4	+6	N'E	4	rr	39	95	7	6	-	-	10	10	1500	2	*
Chester (Sealand)	978·6	+6	N'E	3	rr	40	95	6	6	-	-	10	10	1500	2	*
Harrogate	980·7	0	N	3	rr	38	95	5	6	-	-	10	10	2500	1	*
Spurn Head	978·1	-2	-	0	o/d	40	95	6	5	-	-	10	10	1500	1	4
Birmingham	977·5	-8	NE	2	F	40	95	16	5	-	-	10	10	<150	1	*
Cranwell	978·2	-6	NNE	2	f	39	95	3	5	-	-	10	10	450	1	*
Gorleston	979·6	-6	SSW	3	c	46	85	6	4	-	-	9	9	1500	1	3
Valentia Obs.†	994·3	+18	NW'N	5	bc/pr	44	85	8	8	-	-	2·3	2·3	1500	1	3
Roches Point	992·3	+34	N	4	bc	40	85	8	3	-	-	2·3	2·3	1500	1	3
Pembroke	980·6	+30	NNW	7	RR	40	95	6	6	-	-	10	10	800	2	4
Ross-on-Wye	976·1	-12	NNE	1	c	44	95	5	5	-	-	9+	9+	2500	1	*
Leafield	976·2	-20	S	4	ir.	43	95	7	5	-	-	9+	9+	2500	1	*
Cardington	977·7	-10	SE'S	2	ir.	45	95	6	6	2	-	7·8	10	800	1	*
Winchester	977·2	-22	S	4	id.	45	95	7	5	-	-	9+	9+	1500	1	*
S. Farnborough	977·8	-20	SW	3	pr	45	95	7	9	-	-	9+	9+	1500	1	*
London (Kew)	978·2	-22	S'W	3	u	47	85	7	9	8	-	7-8	9	1500	1	*
Croydon	979·2	-26	SW	3	c/r	47	85	6	6	-	-	9	9	800	1	*
Manston																
Shoeburyness	979·8	-14	SSW	3	id.	46	95	7	6	-	-	9+	9+	1500	1	*
Clacton-on-Sea	980·1	-10	S	4	C	45	95	7	9	-	-	7·8	7·8	800	1	3
Felixstowe	980·4	-12	S'W	3	C	45	95	7	5	-	-	9	9	2500	1	3
Scilly (St. Mary's)	989·9	+48	NNW	8	bc	44	75	8	8	-	-	4-6	4-6	4000	1	5
Falmouth	985·1	+32	WNW	8	pr	43	85	7	3	-	-	7·8	7·8	4000	1	4
Plymouth	982·8	+38	NW	6	r.b.	43	85	7	6	-	-	10	10	800	2	5
Portland Bill	976·0	-18	W'S	9	C	47	75	7	3	-	-	10	10	1500	2	5
Calshot, S'hampton	977·4	-22	SW'W	4	C	47	85	6	5	2	-	7·8	10	1500	1	2
Dungeness	•	•	SW	5	ir.	•	•	6	6	-	•	10	10	1500	•	3
Lympne	980·1	-18	SSW	5	ir	47	95	56	6	-	-	10	10	800	1	*
Guernsey	983·8	+6	WNW	4	c/pr	46	75	6	3	-	-	10	10	1500	2	4

PAST 24 HOURS.

STATIONS.	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine Hrs. (36)
Lerwick	42	37	*	0.5	Tr	2.4
Stornoway	43	34	*	-	2	4.0
Wick	40	31	*	-	-	*
Tiree	45	31	20	-	0.3	3.6
Nairn	37	25	*	-	-	4.4
Aberdeen	40	26	22	-	-	2.1
Malin Head	43	40	*	-	-	0.0
Renfrew	40	27	17	-	-	1.8
Inchkeith (Edin.)	41	35	30	-	-	4.2
Leuchars	38	27	21	Tr.	-	4.7
Eskdalemuir	33	32	31	-	2	0.0
Tynemouth	39	39	34	-	8	•
Blacksod Point	41	39	*	2	3	•
Aldergrove	40	33	25	1	0.2	0.0
Donaghadee	44	40	*	2	1	•
Birr Castle	39	36	33	6	4	0.0
Holyhead	42	39	39	9	6	0.0
Liverpool (Bidston)	39	36	35	7	9	0.0
Chester (Sealand)	39	37	36	8	8	0.0
Harrogate	37	35	34	2	12	0.0
Spurn Head	42	38	*	1	3	0.0
Birmingham	39	38	38	8	2	0.0
Cranwell	39	36	36	8	3	0.0
Gorleston	45	41	40	4	6	0.0
Valentia Obs.†	51	42	38	7	2	0.1
Roches Point	50	39	*	3	3	•
Pembroke	51	40	*	5	10	0.0
Ross-on-Wye	45	44	39	8	2	0.0
Leafield	44	41	39	9	2	0.0
Cardington	42	42	40	3	2	0.0
Winchester	50	43	40	3	2	0.0
S. Farnborough	50	45	40	4	1	0.0
London (Kew)	48	46	41	2	0.5	0.0
Croydon	50	42	39	3	2	0.0
Manston						
Shoeburyness	46	39	42	3	1	0.0
Clacton-on-Sea	44	43	40	3	0.6	0.0
Felixstowe	44	44	41	5	0.4	0.0
Scilly (St. Mary's)	53	42	*	6	1	0.6
Falmouth	54	43	*	4	2	0.4
Plymouth	53	43	41	11	1	0.0
Portland Bill	53	46	*	3	4	*
Calshot, S'hampton	51	47	42	3	2	0.0
Dungeness	50	46	*	5	7	*
Lympne	49	44	43	8	10	0.0
Guernsey	54	46	40	5	3	0.0

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydor
9h—18h, Kensington.
9h—21h, other stations.

	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon. (24 hrs. ended 9h.)	Weather. Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	ococ.m.	crm.cm.	bcm.c.c	48	46	41	2	0·5	0·0	•	•	6
Croydon	244	bcm.c.rd	ordcm.	p.bc.c.rm	50	46	43	3	1	0·0	•	•	6
Greenwich (Royal Observatory)	149	cddir	cddir	cwidbc.ir	50	45	37	2	0·5	0·0	95	86	5
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0·0	•	•	•
Westminster (St. James' Park)	27	•	•	•	52	47	41	2		0·0	91	82	•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•	0·0	•	•	•
Camden Square	110	or	oro	•	48	46	41	3	1	•		88	•
Kensington Palace	80	am	omordr	•	49	46	37	3	1	•	At 18h. 97	85	•
Hampstead Observatory	450	orm	bc	•	48	42	37	3	1	0·0	•	86	•

5 Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 31st

South Kensington. Max.	Time.	Min.	Time.
1·2	10h 30m	<0·3	1-6h 31st

Kew Observatory. Max.	Time.	Min.	Time.
0·3	10h 30m	<0·1	3-4h 31st

FOREIGN OBSERVATIONS.

18h. G.M.T. 30th Dec

STATIONS.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	993·1	SSE	3	c/r	48
Brussels	991·6	SSE	5	r.r.	41
Berlin					
Zürich	1008·6	SW	1	c	37
Rome	1010·3	NNE	4	bc	43

7h. G.M.T. 31st Dec

STATIONS.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	988·3	SW	4	r.r.	48
Brussels	985·2	SSW	4	c	41
Berlin	996·4	SE	3	s.s.	34
Zürich	1002·8	S	1	ir.	41
Rome	1011·0	NE	1	0	34

Past 24 Hours.

STATIONS.	Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Rainfall. Night. mm.
Paris	48	45	4	5
Brussels	41	41	1	3
Berlin		34		
Zürich	41	37	-	2
Rome	52		1	

† 1 hr. observations are from Valentia W/T station.

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13-18	9	47-54
1	1-3	5	19-24	10	55-63
2	4-7	6	25-31	11	64-75
3	8-12	7	32-38	12	75
		8	39-46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55	yards.
1	Thick fog	220	,,
2	Fog	550	,,
3	Moderate fog	1,100	,,
4	Mist or haze	1¼	miles.
5	Poor visibility	2½	,,
6	Moderate ,,	6¼	,,
7	Good ,,	12½	,,
8	Very good ,,	31	,,
9	Excellent ,,	beyond 31m.	

COLUMN 30.—Code for State of Sea.

0	Calm.	5	Very rough.
1	Smooth.	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Precipitous.
4	Rough.	9	Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON. W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

PAGE 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION.

ADDITIONS & CORRECTIONS.

December, 1930.

I.—ADDITIONS.

Stations.	Date of Report.	Obsn. Date.	Obsn. Hour.	Barom. at M.S.L. mb.	Change in 3 hours.	Wind. Direc.	Wind. Force. 0-12	Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud. Form. Low.	Cloud. Form. Med.	Cloud. Form. High.	Cloud. Amount. Low. 0-10	Cloud. Amount. Total 0-10	Height of Base (feet)	State of Ground. 0-9	Sea. 0-9	Temperature. Max. Day 7h-18h °F.	Temperature. Min. Night. 18h-7h °F.	Temperature. Min. on Grass °F.	Rainfall. Day 7h-18h mm.	Rainfall. Night 18h-7h mm.	Sunshine. Hrs.	Weather. 7h-13h	Weather. 13h-18h	Weather. 18h-1h	Weather. 1h-7h
STORNOWAY.	1st.	30th	18h	1014.6	-16	S	7	ro ro	48	95	6	6	-	-	10	10	4000	1	4								or₀ro		
"	"	1st	1h	1011.5	-6	S	8	dd	47	95	6	6	-	-	10	10	4000											od₀d		
"	"	"	7h	1012.4	+10	S	8	dd	48	95	6	6	-	-	10	10	4000	1	5	50	47	*	0.2	0.4	0.0				od₀d
"	2nd.	2nd.	1h	1019.9	+2	S	4	c	47	85	7	6	3	-	2-3	7-8	4000											bc	
"	"	"	7h	1021.3	+14	W	1	c	47	85	7	2	-	-	9+	9+	4000	1	1	48	43	*		2	0.0				bc
"	3rd.	3rd.	1h	1024.3	-16	W	3	b	42	95	7	-	-	-	0	0	-											b	
"	"	"	7h	1025.6	0	SW	4	c	45	85	8	4	2	-	4-6	9+	4000	1	2	48	35	*		-	1.0				bc
"	9th	9th	1h	998.4	+16	W	1	bc	34	95	8	1	8	-	2-3	4-6	4000											bc	
"	"	"	7h	999.2	+12	W	1	bc	35	95	8	2	-	-	4-6	4-6	4000	4	1	40	33	*		-	0.0				bc
CALSHOT.	12th	12th	1h	1000.0	+22	W'S	4	b	46	85	7	5	-	-	2-3	2-3	4000											or₀r₀bw	
BLACKSOD POINT.	16th	16th	1h	1001.6	"	SW	6	c	48	95	7	9	-	-	7-8	7-8	450											PRqc	
ALDERGROVE.	26th	26th	7h	983.8	-44	S'W	5	ir₀	42	95	7	6	-	-	10	10	800	1	*		37	34		2	1.5				
DUNGENESS	26th	25th	13h	*	*	S	4	0	*	*	7	5	-	*	10	10	2500									om			
"	"	25th	18h	*	*	SSE	4	bc	*	*	7	-	7	*	0	2-3	-	*	3				Tr				bc		
BLACKSOD POINT	28th	27th	"	988.1	+60	WSW	8	c	47	65	6	3	-	-	9+	9+	<150	0	7								pr q		
"	"	28th	1h	994.1	+24	W	9	Q	44	65	7	9	-	-	10	10	220												
"	"	"	7h	996.7	+6	SW	5	q	43	85	8	3	7	-	4-6	4-6	1500	1	4	50	39	*	4	5				phq	phq
STORNOWAY.	"	"	1h	972.0	-	WSW	8	iR	45	85	6	6	-	-	10	10	4000												
TIREE	"	"	7h	988.8	+20	SW'W	7	bc	44	75	7	8	-	-	4-6	4-6	1500	1	5	48	39	34		4	0.0			cpRq	PR
"	29th	"	13h	992.4	+8	SW	6	bc ip	45	65	7	8	-	-	4-6	4-6	1500									bccbc			
"	"	"	18h	987.9	+38	SE	3	c	41	85	7	8	2	-	7-8	10	1500	0	4								bcc		
BLACKSOD POINT	"	"	13h	992.9	-24	SW	3	c	44	85	8	5	-	-	9+	9+	220									c			
"	"	"	18h	981.4	-30	SE	6	rr	42	95	7	6	-	-	10	10	<150	1	5								rr		
TIREE.	"	29th	7h	984.4	+12	NNW	5	bc	44	65	7	5	1	8	2-3	4-6	1500	1	4	45	36	35	-	18	2.0			RR	crrR
BLACKSOD POINT	"	"	1h	985.6	+22	-	0	RR	41	95	6	6	-	-	10	10	<150											rr	
"	"	"	7h	991.5	+28	NW	6	c	44	75	7	8	-	-	7-8	7-8	220	0	5	45	40	*	8	8	*				pc
TIREE	30th	"	13h	988.7	+18	NW	4	c ip hr	45	65	8	8	3	8	4-6	9+	1500									cprqbc			
"	31st	30th	18h	986.7	0	-	0	bc	32	95	9	8	4	8	2-3	2-3	2500	0	2								bbcx		
"	"	31st	7h	988.0	+2	NW	3	bc	42	85	9	8	-	-	2-3	2-3	1500	0	2	45	31	20	-	0.3	3.6			bcxb	bcxp
GUERNSEY.	13th.	12th	18h	1005.2		WSW	2	c	50	85	7	5	-	-	10	10	1500	3	1								c o		

II.—CORRECTIONS.

Date of Report.	Page.	Station.	Col. No.	Correct Entry.
1st	1	TIREE	38	om₀d₀c
	1	MALIN HEAD	29	0
	1	RENFREW	30	*
	1	BLACKSOD Pr.	22	8
	1	CALSHOT	29	0
	1	"	30	0
	4	MALIN HEAD	20	46
	4	RENFREW	20	46
2nd.	1	MALIN HEAD	12	2-3
	1	" "	14	4000
	1	LEUCHARS	38	cbccm₀
	1	ESKDALEMUIR	20	41
	1	BLACKSOD Pt.	28	-
	1	BIRR CASTLE	11	-
	1	BIRMINGHAM	3	ESE
	1	VALENTIA	16	+2
	1	LEAFIELD	7	95
	1	S. FARNBORO:	10	-
	1	SHOEBURYNESS	39	cm₀
	1	DUNGENESS	8	6
	4	RENFREW	28	1500
	4	BIRR CASTLE	17	NE
	4	LEAFIELD	28	2500
	4	"	32	41
	4	KEW.	27	7-8
	4	CALSHOT	3	NE'E
3rd	1	NAIRN	22	6
	1	INCHKEITH	39	ccm₀m₀
	1	S. FARNBORO:	29	i
	1	CLACTON-ON-SEA	27	4-6
	4	LIVERPOOL	29	0
	4	SPURN HEAD	10	2
	4	" "	13	10
	4	ROSS-ON-WYE	19	0
	4	"	22	6
	4	"	28	1500
	4	GUERNSEY.	32	51
4th	1	ESKDALEMUIR.	39	bxF
	1	"	40	bFbx
	1	DONAGHADEE	15	1031.7
	1	BIRR CASTLE	39	off
	1	HOLYHEAD	38	b, cm₀
	1	"	39	mmm₀W
	1	LEAFIELD	20	40
	1	S. FARNBORO:	39	obc
	1	PORTLAND BILL	3	NE
	1	"	4	4
	4	INCHKEITH	32	36
	4	BIRR CASTLE	19	0
	4	PEMBROKE.	8	6
5th	1	TIREE	5	m₀
	1	"	19	m₀
	1	HOLYHEAD	17	SSE
	1	ROSS-ON-WYE	3	ENE
	1	S. FARNBORO:	23	-
	1	"	26	0
	1	"	27	0
	1	"	28	-
	1	PORTLAND BILL	1	1024.9
	4	INCHKEITH	32	39
	4	ALDERGROVE	32	36
	4	BIRMINGHAM.	36	0.0
	4	ROSS-ON-WYE	29	1
	4	DUNGENESS	17	N
	4	"	18	1
	4	GUERNSEY.	28	2500
6th	1	TIREE	5	od₀d₀
	1	"	14	800
	1	"	37	com₀d₀d₀
	1	"	38	od₀dc
	1	MALIN HEAD	5	c/d
	1	RENFREW	38	cod₀
	1	LEUCHARS	4	3
	1	"	37	cbcwbm₀
	1	HOLYHEAD	37	cm₀
	1	S. FARNBORO:	9	-
	1	"	12	0
	1	"	13	0
	1	"	14	-
	1	"	23	-
	1	"	26	0
	1	"	27	0
	1	"	28	-
	1	CLACTON-ON-SEA	28	<150
	4	TIREE	27	9+
	4	STORNOWAY.	1	1016.2
	4	GORLESTON	34	Tr
7th	1	STORNOWAY.	20	45
	1	TIREE	5	c/r
	1	LEUCHARS	38	ofcmFF
7th	1	BLACKSOD Pr.	19	0
	1	BIRR CASTLE	2	-20
	1	HARROGATE	26	2-3
	1	"	27	2-3
	1	ROCHES Pr.	16	-10
	1	ROSS-ON-WYE	14	450
	1	CLACTON-ON-SEA	28	<150
	4	STORNOWAY.	6	37
	4	ESKDALEMUIR	15	1006.6
	4	HOLYHEAD	5	r₀r₀
	4	HARROGATE	15	1007.6
	4	BIRMINGHAM	35	Tr
	4	VALENTIA	32	38
8th	1	STORNOWAY.	20	43
	1	TIREE	38	bbcx
	1	TYNEMOUTH	9	6
	1	BLACKSOD Pr.	20	45
	1	ALDERGROVE	40	babcxcrr
	1	BIRR CASTLE	7	65
	1	HOLYHEAD	37	r₀r₀c
	1	CRANWELL	40	cfbm₀x
	1	PEMBROKE	27	2
	1	LEAFIELD	38	orr
	1	SHOEBURYNESS	5	c
	4	NAIRN	29	4
	4	ESKDALEMUIR	29	4
	4	ALDERGROVE	36	6.1
	4	HARROGATE	35	0.4
	4	PEMBROKE	32	43
	4	ROSS-ON-WYE	28	4000
9th	1	ABERDEEN	37	bbcc3
	1	RENFREW	7	95
	1	LEUCHARS	37	cxr₀r₀rsr
	1	BIRMINGHAM	21	85
	1	"	22	8
	1	CRANWELL	37	bm₀cr₀
	1	ROCHES Pr.	15	1004.5
	1	LEAFIELD	4	6
	1	"	40	bbcxm
	1	CARDINGTON	18	1
	1	WINCHESTER	38	orm₀pr₀b
	1	DUNGENESS	26	7-8
	1	"	24	7-8
	4	INCHKEITH	33	33
	4	WINCHESTER	15	1002.7
	4	S. FARNBORO:	19	bcf
	4	"	22	2
	4	DUNGENESS	19	bcf
	4	"	22	2
	4	"	34	0.1
10th	1	LERWICK.	29	1
	1	STORNOWAY	29	1
	1	TIREE	23	8
	1	NAIRN	23	-
	1	"	24	6
	1	"	26	0
	1	"	28	-
	1	ESKDALEMUIR	10	-
	1	"	11	2

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION.
ADDITIONS & CORRECTIONS.
December, 1930.

II.—CORRECTIONS.

Date of Report.	Page.	Station.	Col. No.	Correct Entry.
10th	1	BLACKSOD Pr.	1	1007.8
	1	BIRR CASTLE	9	-
	1	" "	10	1
	1	ROCHES Pr.	37	bc
	1	WINCHESTER	39	cbcbx
	1	SCILLY.	40	corc
	4	LERWICK.	32	37
	4	STORNOWAY.	36	1·8
	4	ESKDALEMUIR.	31	29
	4	LIVERPOOL	21	95
	4	VALENTIA.	28	2500
	4	CLACTON-ON-SEA	29	0
	4	" "	30	1
	4	SCILLY.	10	5
	4	"	11	9
	4	FALMOUTH.	34	3
	4	PORTLAND BILL	15	1013·3
	4	CALSHOT	19	bcF
	4	"	28	<150
	4	DUNGENESS.	30	1
11th	1	TIREE	40	$r_o r_o$ c
	1	ESKDALEMUIR.	37	ofxcx
	1	CRANWELL	40	ofx cmpr$_o$
	1	ROCHES Pr.	38	odc
	1	LEAFIELD.	3	SE'S
	1	"	37	bcxfF
	1	S. FARNBORO:	9	-
	1	"	12	0
	1	"	13	0
	1	"	14	-
	1	"	23	-
	1	"	26	0
	1	"	27	0
	1	"	28	-
	1	"	37	OFFe
	4	ABERDEEN	36	3·2
	4	LEUCHARS	31	34
	4	DONAGHADEE.	26	10
	4	"	27	10
	4	HOLYHEAD	19	*
	4	"	22	*
	4	"	23	*
	4	"	24	*
	4	"	25	*
	4	"	26	*
	4	"	27	*
	4	"	28	*
	4	"	29	*
	4	"	30	*
	4	FELIXSTOWE	17	S'E
	4	"	30	1
	4	LYMPNE	21	85
	4	"	28	1500
12th	1	STORNOWAY.	5	bc
	1	"	12	4-6
	1	"	13	4-6
	1	ESKDALEMUIR.	19	ss
	1	CLACTON-ON-SEA	15	993·8
	1	FELIXSTOWE	3	S'E
	1	PLYMOUTH.	7	65
	4	TIREE	30	3
	4	TYNEMOUTH	34	3
	4	BLACKSOD Pr.	17	ESE
	4	LIVERPOOL	21	95
	4	HARROGATE	35	3
	4	VALENTIA.	32	48
	4	ROCHES. Pr.	26	9
	4	"	27	9
	4	S. FARNBORO:	34	18
	4	DUNGENESS	17	WSW
	4	"	31	47
13th	1	TIREE	4	5
	1	RENFREW	39	orRmorr
	1	ESKDALEMUIR	39	orr$_o$RR
	1	"	40	oRRqbc
	1	BLACKSOD Pr.	20	53
	1	SEALAND	38	bccm$_o$
	1	SEALAND	39	cir$_o$
	1	KEW.	17	SW'W
	1	"	23	1
	1	CLACTON-ON-SEA	24	3
	1	"	26	2-3
	1	"	27	2-3
	1	FALMOUTH	19	PR
	1	CALSHOT	24	-
	1	"	25	1
	1	DUNGENESS	32	35
15th	1	STORNOWAY	3	W
	1	TIREE	37	bcprc PHR
	1	RENFREW	39	cm$_o$r$_o$b
	1	BIRMINGHAM	28	2500
	1	VALENTIA.	37	bccprq
	1	LEAFIELD	38	cbcRqhc3$_o$
	1	"	39	cr$_o$bx
	1	CLACTON-ON-SEA	24	3
	1	"	26	2-3
	1	"	27	2-3
	4	LERWICK	4	3
	4	ESKDALEMUIR.	15	1006·8
16th	1	RENFREW	40	cm$_o$rrm$_o$
	1	ROSS-ON-WYE	29	1
	1	ROCHES. Pr	38	c-crr
	1	SHOEBURYNESS	20	32
	1	CLACTON-ON-SEA	28	<150
	4	DUNGENESS	18	1
	4	RENFREW	32	33
	4	BIRMINGHAM	15	1003·9
	4	GORLESTON	20	38
	4	"	33	27
	4	LYMPNE	21	85
	4	GUERNSEY.	36	2·4
17th	1	MALIN HEAD	5	bc
	1	"	9	1
	1	"	10	3
	1	LEAFIELD	5	rr
	1	FELIXSTOWE	23	5
	4	INCHKEITH	34	5
	4	LIVERPOOL	31	38
	4	PEMBROKE	31	46
	4	PLYMOUTH	29	2
	4	PORTLAND BILL	29	2
18th	1	SPURN HEAD	22	6
	1	ROSS-ON-WYE	19	m
	1	"	22	4
	1	"	28	800
18th	1	ROSS-ON-WYE	29	1
	1	LEAFIELD	21	95
	1	"	22	1
	1	"	23	5
	1	"	25	-
	1	"	27	4-6
	1	WINCHESTER	20	33
	1	SHOEBURYNESS	39	bm$_o$
	1	"	40	bm$_o$xbcmx
	4	STORNOWAY.	6	47
	4	"	31	49
	4	MALIN HEAD	31	46
	4	ESKDALEMUIR.	35	1
	4	"	36	0.0
	4	DONAGHADEE	32	43
	4	BIRR CASTLE	33	41
	4	"	36	1·3
	4	SPURN HEAD	28	220
	4	BIRMINGHAM	31	38
	4	CRANWELL	20	34
	4	ROSS-ON-WYE	36	0·1
	4	LEAFIELD	18	id$_o$
	4	WINCHESTER	33	25
	4	SHOEBURYNESS	19	m
	4	"	29	4
19th	1	STORNOWAY.	7	95
	1	BIRMINGHAM	20	49
	4	STORNOWAY.	4	7
	4	"	15	1018·8
	4	NAIRN	25	1
	4	"	26	0
	4	LEUCHARS	29	1
	4	BLACKSOD Pr.	32	49
	4	LIVERPOOL	15	1033.7
	4	WINCHESTER	18	3
	4	S. FARNBORO:	29	1
	4	GUERNSEY.	30	2
20th	1	LIVERPOOL	7	95
	1	HOLYHEAD	38	ifeod$_o$
	4	STORNOWAY.	5	bc|pr
	4	DONAGHADEE.	20	49
	4	GORLESTON.	23	6
21st	1	LERWICK	17	W'S
	1	BLACKSOD Pr.	6	50
	1	ROCHES Pr.	30	2
	1	LEAFIELD	17	NW'W
	4	HOLYHEAD	7	85
	4	ROSS-ON-WYE	15	1035·1
	4	FELIXSTOWE	23	5
	4	PORTLAND BILL	12	2-3
	4	" "	13	2-3
	4	DUNGENESS	28	2500
	4	GUERNSEY.	7	85
	4	"	18	2
22nd	1	ALDERGROVE	16	0
	1	ROSS-ON-WYE	19	bF
	1	"	22	1
	1	LEAFIELD	19	b
	1	"	22	M
	1	"	38	b
	1	DUNGENESS	3	N
	4	TIREE	33	31
	4	BLACKSOD Pr	32	42
	4	SEALAND	36	0·6
	4	CRANWELL	36	5·3
	4	GORLESTON	8	35
	4	LEAFIELD	28	4000
	4	CLACTON-ON-SEA	29	0
	4	" "	30	1
	4	FALMOUTH	30	1
	4	DUNGENESS	17	NNW
	4	"	30	1
23rd	1	STORNOWAY	21	95
	1	RENFREW	3	SW
	1	TYNEMOUTH	15	1031.0
	1	BIRR CASTLE	29	1
	1	PEMBROKE	15	1032.2
23rd	1	ROSS-ON-WYE	29	1
	1	LEAFIELD	21	95
	1	"	22	1
	1	"	23	5
	1	"	25	-
	1	"	27	4-6
	4	LERWICK	20	33
	4	RENFREW	23	6
	4	"	24	2
	4	CROYDON	31	36
	4	"	34	0.3
	4	"	35	-
	4	DUNGENESS	23	7
	4	"	32	42
	4	GUERNSEY	33	28
24th	1	STORNOWAY.	20	45
	1	RENFREW	24	1
	1	"	26	4-6
	1	"	27	7-8
	1	SEALAND	37	bccr$_o$m$_o$c
	1	HARROGATE	22	S
	1	WINCHESTER	3	S'E
	1	S. FARNBORO:	37	offd$_o$ef
	1	CROYDON	2	-32
	1	PLYMOUTH	39	codd$_o$mb
	4	BIRMINGHAM	34	0·1
	4	CRANWELL	26	9
	4	PEMBROKE	12	7-8
	4	LEAFIELD	31	39
	4	CROYDON.	20	42
	4	CALSHOT.	32	43
	4	DUNGENESS	30	1
25th	1	ABERDEEN	8	43
	1	GORLESTON	3	W'S
	1	PEMBROKE	17	E
	1	WINCHESTER	16	-22
	1	"	29	1
	1	S. FARNBORO:	37	omfcffpcem
	1	DUNGENESS	40	omr
	1	LYMPNE	40	befrm
	4	WINCHESTER	31	44
	4	"	34	0·1
	4	FALMOUTH	35	5
	4	PORTLAND BILL	6	48
	4	"	7	85
	4	GUERNSEY.	34	8
26th	1	RENFREW	39	C
	1	LEUCHARS	39	cwpcqm$_o$
	1	SPURN HEAD	17	E'S
	1	CLACTON-ON-SEA	21	85
	1	PLYMOUTH	2	+10
	1	CALSHOT	17	E
	1	LYMPNE	39	b
	4	TIREE	20	43
	4	"	36	0·1
	4	LIVERPOOL	33	36
	4	PEMBROKE	19	RR
	4	CLACTON-ON-SEA	23	2
	4	PORTLAND BILL	5	C
	4	DUNGENESS	17	S
	4	"	28	2500
	4	"	31	44
	4	"	34	Tr
27th	1	TIREE	37	cRqiR
	1	INCHKEITH.	16	+24
	1	LEUCHARS	40	orrqm$_o$
	1	TYNEMOUTH	5	o|rs
	1	BLACKSOD Pr	26	4-6
	1	"	27	4-6
	1	ALDERGROVE	39	bcc
	1	HOLYHEAD	12	4-6
	1	"	17	W'S
	1	"	18	6
	1	"	39	bccm$_o$
	1	LIVERPOOL	15	994·1
	1	"	20	45
	1	SEALAND	39	bbc
27th	1	SPURN HEAD	21	95
	1	VALENTIA	18	4
	1	"	39	cp$_o$r$_o$rq
	1	ROCHES Pr	22	8
	1	LEAFIELD	17	W
	1	"	18	5
	1	"	19	bc
	1	"	28	2-3
	4	WICK	10	2
	4	"	13	10
	4	"	31	44
	4	TIREE	15	976·8
	4	NAIRN	31	43
	4	BLACKSOD Pr	15	978·9
	4	CALSHOT	24	2
	4	"	27	10
	4	DUNGENESS	18	3
	4	LIVERPOOL	5	0
28th	1	DONAGHADEE	6	47
	1	ROCHES Pr	20	45
	1	LEAFIELD	17	SW'W
	1	WINCHESTER	21	85
	1	SCILLY.	19	bc|pr
	1	FALMOUTH	17	SW'W
	1	PLYMOUTH	18	5
	1	ROCHES Pr.	2	+10
	4	MALIN HEAD	31	47
	4	*	35	4
	4	TYNEMOUTH	30	3
	4	BIRR CASTLE	15	1001.4
	4	PEMBROKE	2	+18
	4	LEAFIELD	15	1009·6
	4	S. FARNBORO:	32	41
	4	CLACTON-ON-SEA	23	1
	4	PORTLAND BILL	19	bc
	4	DUNGENESS	34	0·1
29th	1	LEAFIELD	25	-
	1	CLACTON-ON-SEA	27	7-8
	4	MALIN HEAD	12	4-6
	4	RENFREW	33	36
	4	LIVERPOOL	15	986·1
	4	PEMBROKE	2	-20
	4	CLACTON-ON-SEA	23	2
	4	PLYMOUTH	31	53
	4	LYMPNE	16	-52
	4	GUERNSEY.	15	990.4
30th	1	INCHKEITH	40	bc
	1	WINCHESTER	10	2
	1	"	13	9
	1	CLACTON-ON-SEA	23	4
	4	MALIN HEAD	30	2
	4	GORLESTON	34	4
	4	LEAFIELD	22	7
	4	"	23	-
	4	"	24	1
	4	"	26	0
	4	"	28	-
	4	S. FARNBORO:	33	30
	4	CLACTON-ON-SEA	26	2.3
	4	"	34	3
	4	CALSHOT	32	39
	4	GUERNSEY.	18	5
31st	1	LERWICK.	26	4-6
	1	"	27	4-6
	1	STORNOWAY.	19	bc
	1	"	5	bc
	1	TIREE	1	987·3
	1	"	2	*
	1	"	3	5
	1	"	4	2
	1	"	5	bc
	1	"	6	44
	1	"	7	75
	1	"	8	8
	1	"	9	8
	1	"	10	4
	1	"	11	3

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION.
ADDITIONS & CORRECTIONS.
December, 1930.

II.—CORRECTIONS.

Date of Report.	Page.	Station.	Col. No.	Correct Entry.
31st	1	TIREE	12	Tr
	1	"	13	2-3
	1	"	14	2500
	1	NAIRN	29	4
	1	RENFREW	12	7-8
	1	LEUCHARS	25	-
	1	HARROGATE	17	E
	1	"	18	3
	1	SPURN HEAD	39	crrcprof
	1	CARDINGTON	21	95
	1	CLACTON-ON-SEA	20	44
	1	"	22	6
	1	DUNGENESS	30	4
	4	ESKDALEMUIR	24	1
	4	"	26	7-8
	4	BLACKSOD. PT.	17	WNW
	4	BIRMINGHAM	23	1
	4	SHOEBURYNESS	32	42
	4	"	33	39
	4	DUNGENESS	31	49
	4	LYMPNE	22	6
	4	GUERNSEY.	18	5

Date of Report.	Page.	Station.	HEALTH RESORTS.
1st	2	MABLETHORPE	$o m_o e$, $o m_o e$. 46. 47. - - 0.0
"	"	ST IVES.	NIGHT RAINFALL . -
2nd	"	DUNBAR	SUNSHINE . 1.1 h .
4th	"	DEAL .	MAX . 48°.
5th	"	HASTINGS	NIGHT RAINFALL . 0.3 mm .
6th	"	CHELTENHAM.	MAX . 34°.
9th	"	LEAMINGTON SPA.	SUNSHINE . 1.4 h .
"	"	BOURNEMOUTH	WEATHER AFTERNOON . obcor.
11th	"	CHELTENHAM.	MAX . 35°.
"	"	ST. IVES.	DAY RAINFALL . 4 mm .
13th	"	EASTBOURNE	SUNSHINE . 0.3 h .
14th	"	"	$bbccr_o c$, cbcb. 43. 50. 4. 0.1 . 4.2
15th	"	DOVERCOURT	wbc , bc . 37. 44. Trace. - . 5.6.
"	"	MORECAMBE.	m_d cbc , cbbcc. 30. 46 1. - . 2.7
"	"	MABLETHORPE.	$bxw m_o$, bm_o . 34. 45. - - 5.7
17th	"	ILFRACOMBE.	c o , o p . 43. 51 5. 1. 0.3
18th	"	MABLETHORPE.	orm_o , $orcbcm_o$. 39, 49. 1. 2. 1.0.
"	"	"	bbc , $bccom_o$. 38. 45, - - 3.8.
20th	"	DUNBAR.	MAX . 50°.
"	"	ILKLEY.	MIN . 39°.

Date of Report.	Page.	Station.	LONDON. OBSERVATIONS.
3rd	1.	WESTMINSTER.	50 . 46. 43. - - 87 . 81
5th	1.	HAMPSTEAD.	of . of . 40. 25. 26. Tr. Tr. 100
6th	1	"	of . of . 33. 23. 25. Tr. Tr. 98
7th	1	WESTMINSTER.	41. 30. 25. - -
"	"	CAMDEN. SQ.	ofe. of . 37. 37. 34. - - 88
"	"	GREENWICH.	MIN. 36 GRASS. 33.
"	"	S. KENSINGTON.	ATMOSPHERIC. POLUTION. MAX. 2.0 18h 6th. MIN. <0.3 3-7th
9th	"	GREENWICH.	WEATHER. NIGHT. c D bc x f
14th	"	WESTMINSTER.	51 . 35. 29. - - 85. 91
"	"	CAMDEN SQ.	bc. cb. 47. 37. 30. - Tr. 94
15th	"	REGENTS. PK.	SUNSHINE. 2.2h
19th	"	KEW	9h. VISIBILITY. 4.
"	"	GREENWICH.	MIN. 47.
"	"	KEW.	ATMOSPHERIC. POLUTION. MAX. 1.3 11h. 18th. MIN. 0.1 4h 19th
23rd	"	HAMPSTEAD.	SUNSHINE 2.1 h
25th	"	CITY.	" 0.0h
"	"	WESTMINSTER.	45. 43. 37. 3mm. 0.0 87. 91.
"	"	HAMPSTEAD	SUNSHINE. 0.0h
"	"	S. KENSINGTON.	ATMOSPHERIC. POLUTION. MAX. 1.0. 19h. 24th. MIN. 0.3 5-6h 25th
26th	"	"	" " " 1.0 10h. 25th - <0.3 5-7h 26th
"	"	GREENWICH.	SUNSHINE. 0.3h
"	"	CITY.	" 0.0h
"	"	WESTMINSTER	46. 35. 31. - 0.0. 91. 87.
"	"	HAMPSTEAD	SUNSHINE. 0.0h.
27th	"	GREENWICH.	MAX. 46. MIN. 39.
"	"	CITY.	SUNSHINE. 0.0h
"	"	WESTMINSTER.	" 0.0h
"	"	HAMPSTEAD	" 0.0h
"	"	KEW.	ATMOSPHERIC. POLUTION. MAX. 1.0 15h. 26th. MIN. <0.3 2-7h 27th
28th	"	CITY.	SUNSHINE. 0.0h
"	"	WESTMINSTER.	53. 40. 31. 2mm. 0.0 86. 83
"	"	HAMPSTEAD	SUNSHINE. 0.0h
29th	"	REGENTS PK	" 2.3h
30th	"	WESTMINSTER.	49. 37. 32. 2mm 81. 86
31st	"	"	MIN. 47. GRASS. 41.

H.M. Stationery Office Press, Kingsway W.C.2.

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