M.O. Form 2373

DUPLICATE

THE DAILY WEATHER REPORT

BRITISH SECTION

1st January to 31st March

1939

METEOROLOGICAL OFFICE
-4 AUG 1971
LIBRARY

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

INTRODUCTION

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

NOTES REGARDING THE BRITISH SECTION.

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

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

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

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

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

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

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

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

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

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

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

The observations presented on this chart are not synchronous, but as from 1st January, 1938, a change was made which gives approximately synchronous observations over a larger area than formerly.

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

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

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

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

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

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

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

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

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

THE INTERNATIONAL AND UPPER AIR SECTIONS.

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

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

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

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

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

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

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

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

THE BEAUFORT SCALE OF WIND FORCE

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

GALE WARNINGS

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

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

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

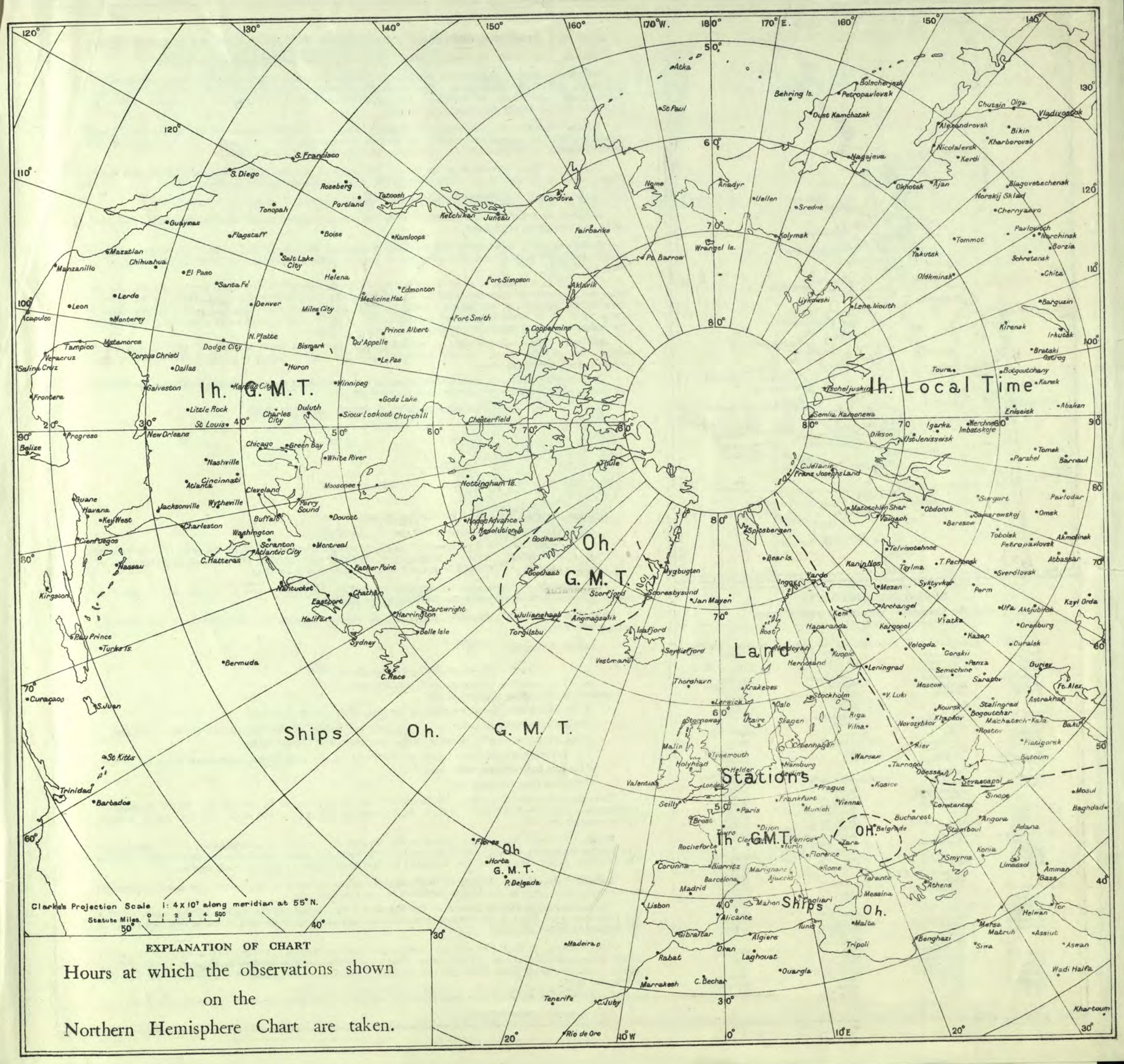
The *South Cone* (point downwards) is hoisted for gales commencing from a Southerly point. Such gales often veer, sometimes as far as Northwest.

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

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

▲ North Cone hoisted : ▼ South Cone hoisted :

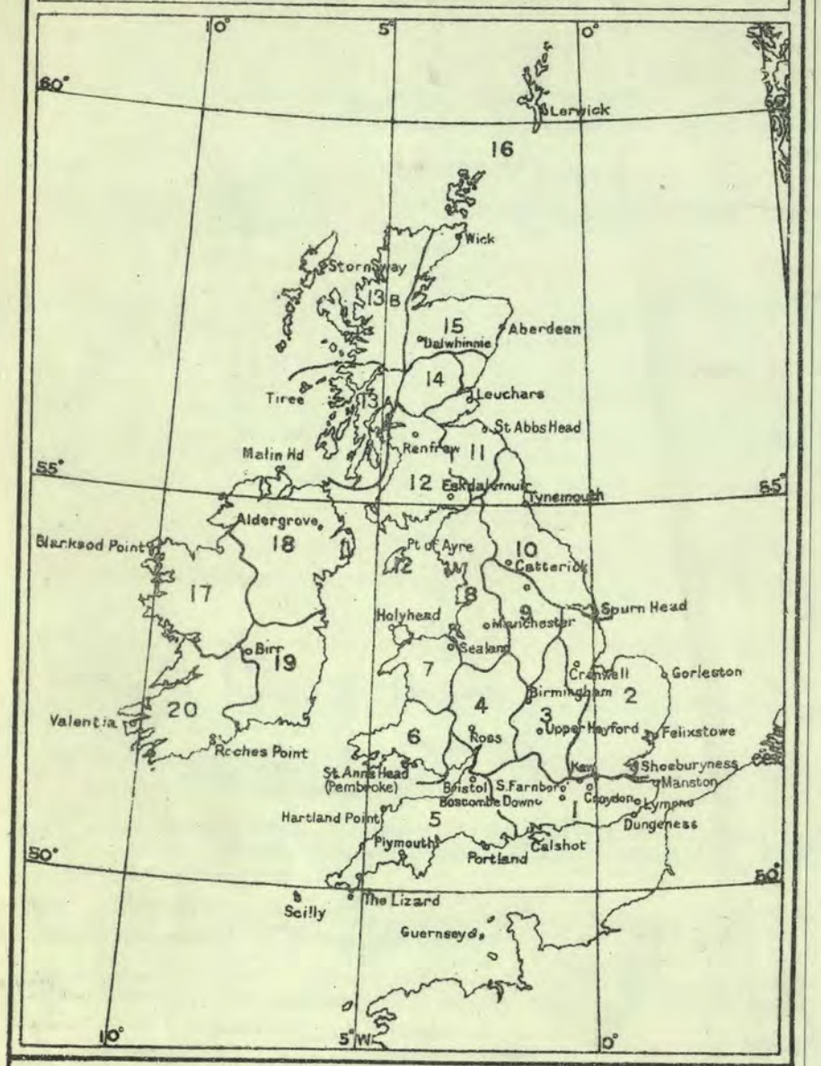
The time or times of issue of the gale warning telegrams is shown below the " further outlook " on page 2 of the Report.



EXPLANATION OF CHART

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

FORECAST DISTRICTS AND STATIONS IN GREAT BRITAIN AND IRELAND



FORECAST DISTRICTS
and the Counties comprised within them

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

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

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

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

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

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

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

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

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

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

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

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

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

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

14. *Mid Scotland.*
Perth.

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

16. *Orkneys and Shetlands.*

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

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

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

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

NOTES ON THE INFORMATION CONTAINED IN THE DAILY WEATHER REPORT

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

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

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

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

Point of Ayre.—The first observations are made at 0030 G.M.T. instead of at 0100 G.M.T.

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

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

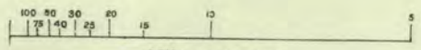
The wind at a height of 1,500–2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the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

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

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

GEOSTROPHIC WIND SCALE FOR

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



Miles per hour.

This scale applies under the following conditions :—

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

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

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

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

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

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

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

where x is the vapour pressure in mb.

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

For air temperatures below 32° F. the value of F used is that appropriate to an ice surface.

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

For wet bulb temperatures below 32° F. the value of f used is that appropriate to an ice surface.

t the dry bulb temperature; and

t' the wet bulb temperature

The entries in columns 7 and 21 are limited to 10, 25, 35, etc., to 85, 92 and 97. Entry 10 indicates that relative humidity is between 0 and 19 : 25, between 20 and 29 ;.....and so on ; 92, between 90 and 94 ; 97 between 95 and 100.

Wind.—All wind directions specified in the reports are "true," as distinguished from "magnetic." The arrows indicating wind direction are drawn to fly with the wind. Each feather denotes two steps on the Beaufort Scale; thus force 5 is indicated by two whole feathers and one half feather.

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

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

N.B.—Readers of the Report who are unacquainted with the method of construction and the use of weather charts are recommended to read "The Weather Map: An Introduction to Modern Meteorology," (2nd Edition, 1930), to be purchased from H.M. Stationery Office, York House, Kingsway, W.C.2, price 3s. 2d. post free. (Reprinted 1938.)

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

H.M.S.O. Press, Cornwall House, S.E.1.

G. 746/3557. Wt. 8087a. D. 3773. Gp. 248. 370. 4/39

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

MONTHLY SUPPLEMENT, February, 1939. No. 266.

DUPLICATE
METEOROLOGICAL OFFICE LIBRARY

Mild generally. Very sunny in South and Southeast England. Wet in Scotland.

The outstanding feature of the month was the unusually sunny weather experienced in Southeast England. At Kew Observatory it was the sunniest February at least since 1880, the previous record of 91 hours in 1922 being exceeded by 14 hours. Sunshine records were broken at Croydon and equalled at Shoeburyness.

A large anticyclone centred over Central Europe maintained rather cold easterly winds for the first three or four days, 21 degs. of frost being recorded in the screen at Buxton on the night of 2nd - 3rd, but for most of the remainder of the month depressions moving NE. on the Atlantic caused a persistent mild, southwesterly type of weather. On 10th the temperature of 62°F. at Aberdeen was 5 degrees above the highest previously recorded there in early February, while at Kew Observatory temperature rose above the seasonal level on all but two days between 4th and 28th. 50°F. was reached or exceeded in some part of the British Isles every day.

There was a marked deficiency of sunshine in Scotland and Ireland, and a smaller shortage in Wales and SW. England, but over most of England totals were well above the usual February values. Noteworthy individual measurements were 10.0 hours at St. Anns Hd. and 9.7 hours at Malvern on 24th.

Low pressure troughs associated with Atlantic depressions caused frequent, and sometimes heavy, precipitation in the North and West, with snow occasionally on the higher ground, but rainfall aggregates in the east and south of England were low, and at Cranwell was less than half the February average. Among large 24-hour rainfall readings were 50 mm. at Ambleside on 6 - 7th and 47 mm. at Eskdalemuir on 8 - 9th. At Renfrew it was the wettest February since records began there in 1921 while the monthly total at Eskdalemuir was 87%. above average.

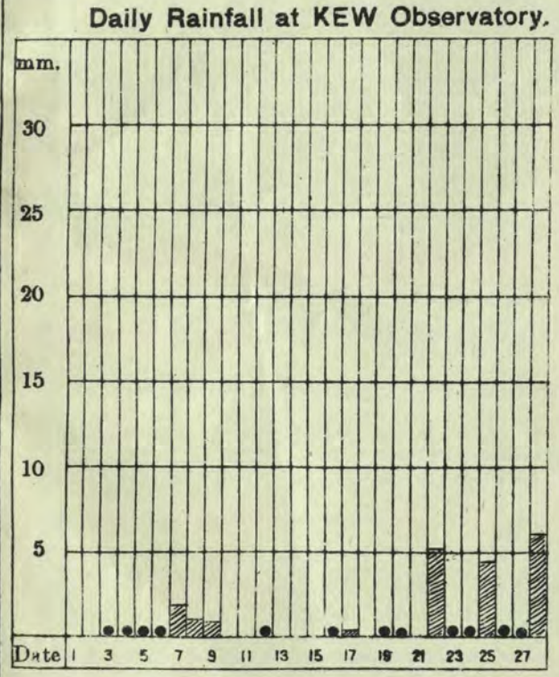
Thunder was reported from W. and N. Scotland on 16th and 17th, from W. Ireland, Scotland and London on the 26th, and locally in SE. England on 28th. Hail showers fell over most parts of the country during the last week.

Gales were frequent, though not usually severe, along the N. and W. coasts, while an intense depression which crossed England on 23rd - 24th caused gales of a more widespread nature. The highest reported gusts were 72 m.p.h. at The Lizard and 71 m.p.h. at Pembroke on 23rd, and 77 m.p.h. at Valentia and 76 m.p.h. at The Lizard on the 28th.

Fog was mainly confined to the opening week of the month and persisted locally all day on 3rd and 4th.

Aurora was observed in many parts of the country during the evening of the 24th.

Daily Rainfall at KEW Observatory.



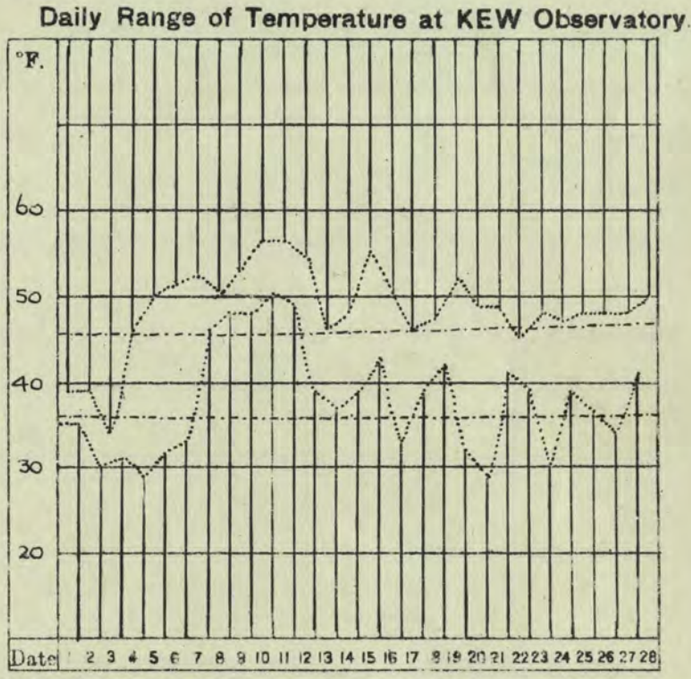
● = Less than 0·5 mm.

RAINFALL. Total for Month. 20 mm.

Daily Sunshine at KEW Observatory

SUNSHINE. Total for Month. 105 hrs.

Daily Range of Temperature at KEW Observatory.



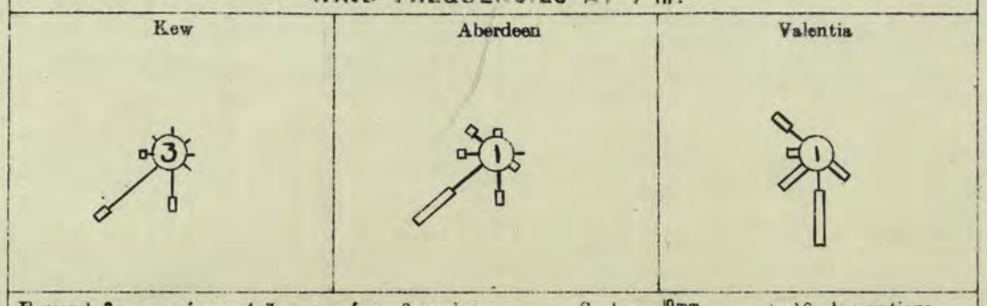
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.*

STATIONS.	PRESSURE Mean	PRESSURE Difference from average	TEMPERATURE Mean	TEMPERATURE Difference from average
	mb.	mb.	°F.	°F.
Kew	1018·7	+2·7	43·1	+2·0
Aberdeen	1007·7	−2·9	42·7	+3·0
Valentia	1014·6	+1·2	47·3	+2·5

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

WIND FREQUENCIES AT 7 hr.



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

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

	miles.
Kew ...	6,460
Aberdeen ...	6,502
Lerwick ...	17,058
Valentia ...	11,669

SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

† TEMPERATURE.

District.	Stations.	Number of daily readings within fixed limits. Maximum. 32° or below	33° - 41°	42° - 50°	51° - 59°	60° - 68°	Average Maximum.	Minimum. 23° or below	24° - 32°	33° - 41°	42° - 50°	51° - 59°	Average Minimum.	Extremes—Warmest and Coldest. Days. Highest Max.	Date.	Lowest Max.	Date.	Nights. Highest Min.	Date.	Lowest Min.	Date.	Number of Ground Frosts.
							°F.						°F.	°F.		°F.		°F.		°F.		
1	London ... (Kew Obsy).	0	3	17	8	0	45.5	0	7	13	8	0	36.6	56	10, 11	34	3	50	11	29	5, 21	14
	Croydon ...	0	3	15	10	0	45.2	0	6	14	8	0	35.9	57	11	36	3	49	10, 11, 12	25	3	10
	Calshot** ... (Southampton)	0	1	18	9	0	45.7	0	5	16	7	0	37.1	55	15	40	3	48	11	30	2, 3	6
	Lympne ...	0	3	22	3	0	43.7	0	4	20	4	0	34.9	52	10	37	1, 2	46	11	27	2, 3	14
2	Shoeburyness ...	0	3	17	8	0	45.6	1	2	19	6	0	34.6	56	11	35	3	48	11	23	3	12
	Gorleston ...	0	3	18	7	0	44.2	0	2	19	7	0	36.2	58	10	35	2	49	11	32	3, 17	3
	Cranwell ...	1	3	15	9	0	44.0	0	5	17	6	0	33.6	59	10	30	2	50	11	25	3	13
3	Birmingham ... (Edgbaston)	2	1	19	6	0	43.4	0	6	17	5	0	35.1	57	11	30	2	49	11	25	3	9
4	Ross-on-Wye ...	0	3	16	9	0	45.4	0	6	14	8	0	35.8	57	11	33	1, 2	49	11, 12	24	3	13
5	The Lizard ...	0	0	17	11	0	*	0	0	13	15	0	*	53	18	43	2	49	6, 10	35	24	*
7	Holyhead ...	0	1	24	3	0	45.6	0	2	10	16	0	39.9	52	6	40	3	48	10	28	2	3
8	Chester ... (Sealand)	1	2	16	8	1	45.6	0	5	16	5	2	35.8	60	11	32	2	52	10	25	3	11
10	Tynemouth ...	0	4	16	8	0	44.1	1	2	15	9	1	36.8	57	10	35	2	51	11	23	3	5
11	Leuchars ...	0	4	18	6	0	44.0	0	4	14	9	1	34.4	56	10	37	2	52	11	28	3	10
12	Renfrew ...	0	3	19	6	0	44.1	0	4	14	9	1	34.6	56	10	33	2	52	11	24	3	8
	Eskdalemuir ...	0	11	17	0	0	41.1	2	7	12	7	0	31.5	50	10	33	2, 3	47	11	15	2	9
13B	Stornoway	0	1	21	6	0	44.7	0	0	18	10	0	37.1	54	10	40	16	49	11	33	1, 18	*
15	Aberdeen ..	0	3	17	7	1	43.8	0	4	15	8	1	35.7	62	10	37	2	51	11	27	3	9
18	Aldergrove ...	0	5	16	7	0	*	0	3	15	10	0	*	55	7, 10	38	1	49	6, 10, 11	28	3	9
19	Dublin ... (Phœnix Park)	0	2	11	14	1	47.3	2	4	15	5	2	34.7	60	10	38	2	52	10	21	3	11
	Birr Castle ...	0	1	15	12	0	46.8	0	2	15	9	2	36.3	59	7	41	26	52	10	29	24	13
20	Valentia ... (Cahirciveen)	0	0	14	14	0	48.5	0	0	9	15	4	41.1	55	9	43	22	52	10	35	24	0

LOW CLOUD.

Stations.	Number of observations within fixed limits. 7 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	13 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	18 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.
London (Kew Obsy).	1	19	0	4	20	0	1	20	0
Croydon	7	13	0	3	20	0	1	20	0
Calshot** (Southampton)	6	15	0	3	20	0	3	17	0
Lympne	7	10	1	7	16	0	6	12	1
Shoeburyness	1	14	1	2	21	1	3	14	2
Gorleston	2	19	0	1	21	0	1	18	0
Cranwell	6	10	1	6	16	1	5	15	1
Birmingham (Edgbaston)	9	10	0	6	17	0	4	15	0
Ross-on-Wye	3	22	0	2	24	0	5	19	0
The Lizard	2	25	0	1	27	0	1	27	0
Holyhead	8	16	0	1	20	0	7	19	0
Chester (Sealand)	3	21	1	1	24	0	0	26	0
Tynemouth	3	25	0	1	27	0	0	28	0
Leuchars	6	19	0	7	19	1	5	22	0
Renfrew	2	26	0	5	23	0	3	24	0
Eskdalemuir	19	7	0	18	9	0	19	7	0
Stornoway	0	27	1	0	27	0	0	28	0
Aberdeen	5	16	0	7	16	0	8	14	0
Aldergrove	7	17	0	7	19	0	3	23	0
Dublin (Phœnix Park)	*	*	*	*	*	*	*	*	*
Birr Castle	6	19	0	7	21	0	7	19	0
Valentia (Cahirciveen)	6	22	0	11	17	0	10	18	0

FOG, MIST and GOOD VISIBILITY.

Stations.	Number of observations within fixed limits. 7 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.	13 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.
London (Kew Obsy).	0	0	2	1	7	0	1	0	2	6
Croydon	0	0	1	0	11	0	1	0	0	4
Calshot** (Southampton)	0	0	1	0	13	0	0	1	0	20
Lympne	0	2	1	1	9	0	0	0	0	16
Shoeburyness	0	1	0	1	15	0	1	0	0	12
Gorleston	0	0	1	0	10	0	0	1	1	5
Cranwell	0	0	0	2	15	0	0	0	1	17
Birmingham (Edgbaston)	0	0	3	0	10	0	0	1	4	10
Ross-on-Wye	0	0	1	0	20	0	0	0	1	22
The Lizard	0	2	0	0	25	0	1	0	1	24
Holyhead	0	0	0	1	22	0	0	0	0	21
Chester (Sealand)	0	0	2	1	17	0	0	0	0	22
Tynemouth	0	0	0	0	17	0	0	2	0	8
Leuchars	0	0	0	1	23	0	0	0	1	22
Renfrew	0	0	2	1	15	0	0	0	2	16
Eskdalemuir	0	1	2	3	12	0	1	1	3	12
Stornoway	0	0	0	0	25	0	0	0	0	21
Aberdeen	0	0	0	0	14	0	0	1	1	13
Aldergrove	0	0	0	0	18	0	0	0	0	18
Dublin (Phœnix Park)	*	*	*	*	*	*	*	*	*	*
Birr Castle	0	0	0	0	27	0	0	0	0	28
Valentia (Cahirciveen)	0	0	0	0	20	0	0	0	0	18

UPPER AIR TEMPERATURE.

Pressure. mb.	Normal Height. Feet.	Mildenhall. Normal Temp. °F.	Mean. °F.	No. of Reports.	Aldergrove. Mean. °F.	No. of Reports.	Mean. °F.	No. of Reports.
950	1,770	36.4	39.8	43	41.2	44		
850	4,660	29.1	34.4	43	35.6	44		
750	7,870	20.9	26.2	43	26.8	44		
650	11,460	9.2	14.2	43	14.2	44		
550	15,550	-4.5	-0.8	43	0.1	44		

UPPER WINDS.

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

Station Height. Metres.	Lympne. No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Plymouth (Mt. Batten). No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Holyhead. No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Renfrew. No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Station Height. Metres.
		kilometres per hour.						kilometres per hour.						kilometres per hour.						kilometres per hour.					
500 above ground.	78	19	40	17	1	0	48	9	29	9	0	0	48	8	26	11	1	0	63	12	26	18	7	0	500 above ground.
1000 above M.S.L.	65	15	29	17	3	0	28	5	17	6	0	0	29	3	19	6	1	0	36	3	16	13	4	0	1000 above M.S.L.
2000 " "	30	6	17	5	2	0	9	1	4	4	0	0	8	1	5	1	1	0	14	2	4	5	2	1	2000 " "
3000 " "	16	6	7	3	0	0	6	0	0	6	0	0	2	0	2	0	0	0	4	0	1	2	0	1	3000 " "
4000 " "	3	2	0	1	0	0	1	0	0	0	1	0	1	1	0	0	0	0	1	0	1	0	0	0	4000 " "

† The readings and averages used, are, except in the case of Phœnix Park, the maximum for the period 7 h.–18 h., and the minimum for the period 18 h.–7 h. The readings and averages for Phœnix Park are for daily periods ending 21 h. Averages are for periods of at least 10 years (See M.O. 364).

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

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

N. K. JOHNSON M.Sc., A.R.C.S, Director.

DUPLICATE

SUNSHINE, RAINFALL, AND HUMIDTY FEBRUARY 1939.

District.	Stations.	Sunshine: Number of Days with Duration: Nil.	0·1—3h.	3·1—6h.	6·1—9h.	Above 9h.	Maximum Duration: Hours.	Date.	Total for past 12 months.	Difference from average.	Total for Month.	Difference from average.	Highest and Lowest Totals on record for Month: First year of record.	Highest.	Year.	Lowest.	Year.	Rainfall: ‡Number of days with amount: 0, trace or 0·1 mm.	0·2—1 mm.	1·1—5 mm.	5·1—15 mm.	15·1—25 mm.	Above 25 mm.	Maximum fall in 24 hrs.: mm.	Date.	Total for past 12 months.	Difference from Average.	Total for Month.‡	Difference from Average.	Highest and Lowest Totals on record for Month: First year of record.	Highest.	Year.	Lowest.	Year.	Days with Thunder.	Days with Snow or Sleet.
									Hours.	Hours.	Hours.	Hours.		Hrs.		Hrs.										mm.	mm.	mm.	mm.		mm.		mm.			
1	London ... (Kew Obsy).	5	5	9	9	0	7·6	6, 20, 21	1494	+25	105	+44	1880	91	'22	27	'81, '17	21	2	3	2	0	0	6	28	527	-79	20	-19	1856	105	'79	2	'95	0	0
	Croydon ...	6	6	8	8	0	8·0	26	1484	-41	104	+42	1922	103	'22, '28	37	'24	20	1	4	3	0	0	12	28	690	+11	37	-12	1921	118	'37	4	'21	0	0
	Calshot** ... (Southampton)	4	8	10	6	0	8·6	6	1659	-87	106	+24	1881	123	'91	37	'97	20	2	5	1	0	0	5	25, 28	575	-71	29	-17	1871	144	'15	1	'91, '32, '34	0	0
	Lympne ...	5	7	7	9	0	8·7	26	1762	-3	111	+27	1921	124	'28	46	'26	18	3	5	2	0	0	8	28	728	+4	29	-21	1920	121	'37	3	'34	0	0
2	Shoeburyness ...	6	6	7	8	1	9·1	23	1623	-93	105	+28	1919	105	'20	49	'24	20	4	2	2	0	0	9	28	456	-47	24	-7	1920	83	'37	4	'34	0	0
	Gorleston ...	7	5	7	9	0	9·0	26	1567	-76	107	+32	1908	113	'34	41	'31	19	6	2	1	0	0	8	28	553	-69	20	-18	1871	87	'16	4	'91	0	0
	Cranwell ...	7	9	5	7	0	8·4	6	1452	-86	88	+18	1921	99	'34	46	'29	19	4	4	1	0	0	6	22	639	+49	17	-21	1917	89	'23	9	'21	0	0
3	Birmingham ... (Edgbaston)	6	11	6	5	0	8·1	15, 24	1264	-40	77	+20	1887	108	'87	9	'17	14	4	7	3	0	0	7	28	770	+96	36	-7	1893	149	'23	4	'21	0	2
4	Ross-on-Wye ...	5	11	6	5	1	9·2	24	1472	-13	87	+18	1915	119	'34	40	'26	14	5	6	3	0	0	8	22	663	-54	35	-16	1859	170	'23	0·3	'91	0	0
5	Falmouth ... (Observatory)	9	7	7	4	1	9·5	24	1609	-101	78	-2	1881	127	'09	43	'86	10	5	7	6	0	0	11	22	1048	-59	68	-26	1871	229	'23	1	'32	1	0
7	Holyhead ..	11	7	7	2	1	9·3	24	1503	-47	61	-14	1914	108	'30	36	'18	10	4	9	4	1	0	16	8	1073	+186	78	+16	1871	152	'64	5	'32	0	0
8	Chester ... (Sealand)	6	11	7	4	0	8·8	24	1404	+28	82	+20	1923	91	'33	43	'26	16	3	6	2	1	0	24	27	765	+104	65	+25	1922	124	'37	1	'32	0	0
10	Tynemouth ...	9	8	8	3	0	6·7	26	1305	*	67	*	1935	*	*	*	*	17	7	3	1	0	0	7	28	673	+52	21	-14	1915	79	'23	15	'34	0	0
11	Leuchars ...	7	13	3	5	0	8·1	16	1420	-50	69	-7	1922	108	'34	33	'23	12	5	6	5	0	0	12	21	800	+147	56	+11	1922	102	'26	2	'32	0	2
12	Renfrew ...	11	12	4	1	0	6·1	19	1257	+64	41	-9	1921	83	'33	22	'23	5	2	11	8	2	0	25	6	1277	+338	142	+60	1921	121	'37	1	'32	1	4
	Eskdalemuir ...	16	7	4	1	0	6·2	1	1119	-82	35	-19	1910	106	'32	23	'18	4	2	7	10	3	2	47	8	2041	+612	235	+109	1910	242	'15	5	'32	0	6
13B	Stornoway .	9	16	2	1	0	7·1	1	1177	-38	39	-16	1881	91	'86	23	'03	3	4	10	10	0	1	28	21	1353	+87	141	+28	1870	204	'98	15	'32	0	4
15	Aberdeen ...	8	9	8	3	0	8·4	16	1315	-14	65	-5	1881	121	'98	33	'23	18	3	2	4	1	0	15	21	824	+76	66	+14	1871	130	'23	6	'91	0	1
18	Aldergrove ...	10	14	3	1	0	6·1	12	1235	*	39	*	1927	84	'32	37	'29	8	4	13	3	0	0	9	23	961	+123	70	+9	1926	105	'37	3	'32	0	3
19	Dublin ... (Phœnix Park)	1	21	3	2	1	9·2	24	1225	-212	60	-15	1881	109	'10	39	'97	11	8	7	1	1	0	21	22	758	+56	51	+6	1865	108	'25	2	'91	0	2
	Birr Castle ...	6	14	6	2	0	7·0	24	1186	-120	52	-14	1881	102	'06	34	'29	8	4	11	5	0	0	13	21	1129	+302	70	+12	1862	133	'25	4	'34	0	3
20	Valentia ... (Cahirciveen)	8	15	4	1	0	6·3	23	1282	-86	44	-22	1880	112	'30	29	'26	1	9	12	5	1	0	24	20	1597	+183	127	-5	1866	279	'14	11	'32	1	0

MINIMUM SURFACE HUMIDITY.

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

Stations.	95 to 100 %	90 to 94 %	80 to 89 %	70 to 79 %	60 to 69 %	50 to 59 %	40 to 49 %	30 to 39 %	20 to 29 %	0 to 19 %
London (Kew)	0	1	1	11	5	7	3	0	0	0
Ross-on-Wye ...	0	1	0	6	13	6	2	0	0	0
Falmouth (Obsy.)	2	2	10	7	7	0	0	0	0	0
Renfrew ...	0	0	12	7	9	0	0	0	0	0
Eskdalemuir ...	2	2	9	8	6	1	0	0	0	0
Aberdeen ...	0	0	3	5	10	9	1	0	0	0
Valentia ...	0	2	6	5	12	2	1	0	0	0

STATE OF GROUND AT 18 h.

No. of Days each type was recorded.

Stations.	0	1	2	3	4	5	6	7	8	9
London (Kew)	2	26	0	0	0	0	0	0	0	0
Ross-on-Wye	0	28	0	0	0	0	0	0	0	0
Renfrew ...	0	25	2	1	0	0	0	0	0	0
Eskdalemuir	0	21	4	2	1	0	0	0	0	0
Aberdeen ...	2	24	0	2	0	0	0	0	0	0
Valentia ...	2	26	0	0	0	0	0	0	0	0

CODE for State of Ground.

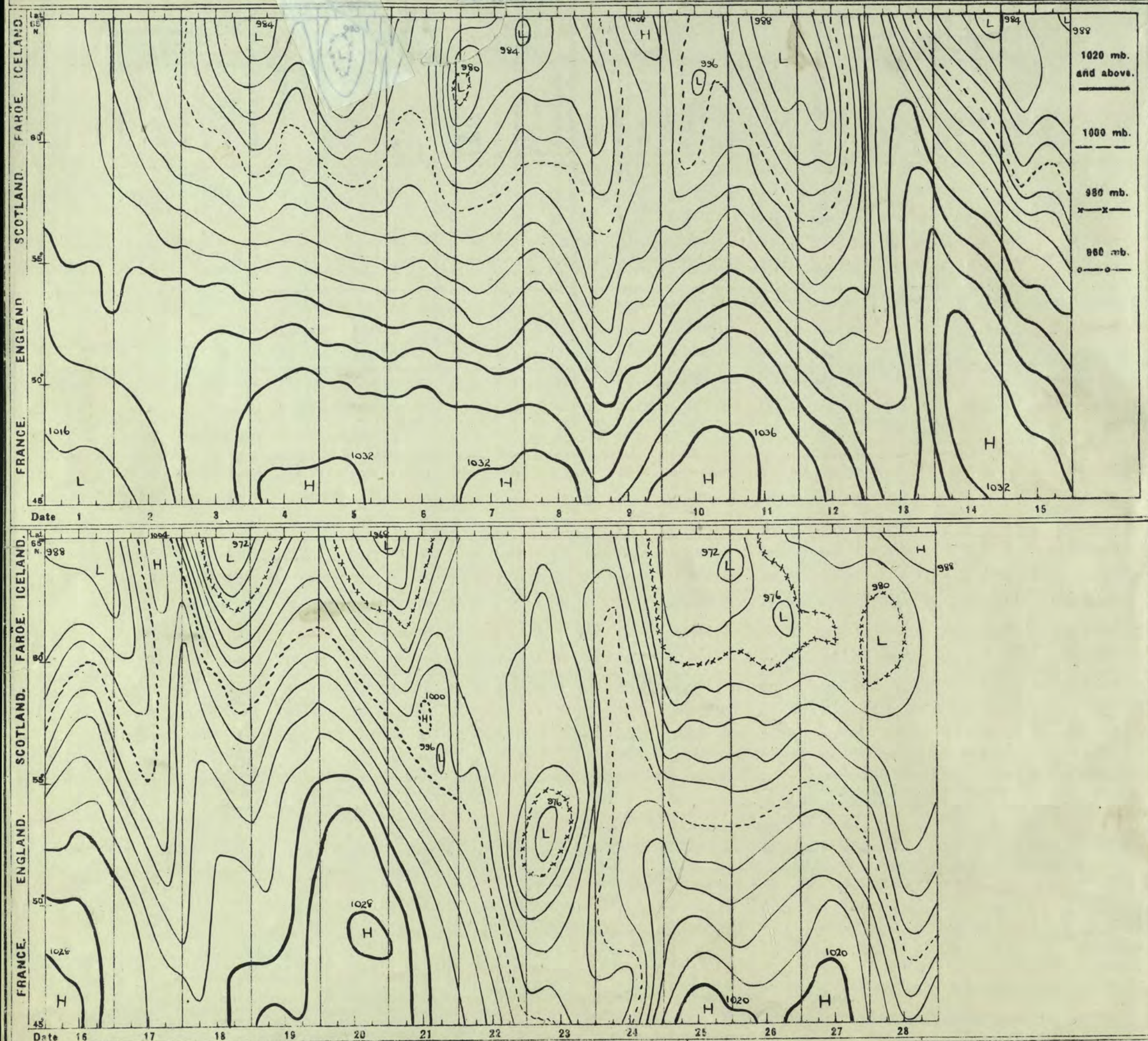
0 Dry.
1 Wet.
2 Flooded.
3 Frozen hard and dry.
4 Partly covered with snow or hail.
5 Covered with ice or glazed frost.
6 Covered with thawing snow.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow, greater than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

**The extremes of rainfall and sunshine from Calshot are supplemented by those from Southampton.

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

PRESSURE: ICELAND TO GULF OF LIONS FEBRUARY, 1939.

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.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 1st February, 1939

No. 28195

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1018.5	-6	ENE	4	z	39	65	5	5	-	6	2-3	7-8	2500
	Croydon	1018.9	-8	ENE	5	z_0	38	75	6	5	-	-	4-6	4-6	2500
	S. Farnborough	1018.4	-10	E'N	4	z_0	38	75	6	5	-	-	4-6	4-6	2500
	Boscombe Down	1017.6	-10	E	3	z_0	37	75	6	5	-	-	2-3	2-3	1500
	Calshot (Sthmtn.)	1017.6	-8	ENE	5	z_0	38	75	6	5	-	-	4-6	4-6	1500
	Lympne	1019.6	-6	E'N	4	z_0	35	75	6	5	-	-	4-6	4-6	2500
	Manston	1019.8	-8	E'N	4	c	37	75	6	5	-	-	9	9	1500
2	Shoeburyness	1020.0	-6	ENE	4	c	38	75	6	8	-	-	9	9	2500
	Felixstowe	1021.1	-6	E'S	4	c	38	75	8	7	-	1	7-8	7-8	2500
	Gorleston	1022.3	-4	ESE	5	c	38	75	7	8	-	-	9+	9+	2500
	Mildenhall	1021.3	-12	E'S	5	c	37	75	8	5	-	1	9	9+	4000
	Cranwell	1021.9	-4	E'S	3	c	37	75	8	5	-	-	10	10	2500
3	Birmingham	1020.0	-6	E	4	m	34	75	4	5	-	-	9+	9+	800
	Upper Heyford	1019.5	-6	E	4	c	37	75	7	8	-	-	7-8	7-8	1500
4	Ross-on-Wye	1018.0	-8	E'N	3	c	37	65	7	7	-	-	7-8	7-8	2500
5	Hartland Point	1013.6	-12	ESE	5	c	35	75	7	5	4	-	4-6	7-8	1500
	Bristol	1018.1	-6	E	3	z_0	36	75	6	5	-	-	4-6	4-6	1500
	Portland Bill	1014.8	+4	E	6	c	39	85	7	5	-	-	10	10	1500
	Plymouth	1012.9	-18	ESE	4	z_0	40	75	6	5	-	5	4-6	7-8	1500
	The Lizard	1011.1	-8	ESE	7	c	43	85	6	8	6	-	7-8	9	1500
	Scilly (St. Mary's)	1009.8	-6	SE'E	6	c	45	75	7	5	7	-	7-8	9+	1500
	Guernsey	1013.4	-12	ENE	5	oc	36	75	7	5	3	-	2-3	4-6	2500
6	Pembroke	1015.3	0	SE	7	cq	37	75	7	8	7	-	7-8	9	2500
7	Holyhead	1017.7	+4	E	6	b	39	65	8	-	4	9	0	tr	-
	Chester (Sealand)	1020.?	-6	ESE	4	z_0	37	75	6	5	-	-	7-8	7-8	2500
8	Manchester	1021.1	-6	E'N	5	z_0	38	65	5	7	-	-	4-6	4-6	4000
10	Spurn Head	1023.2	+2	E'S	3	c	40	75	7	5	2	-	7-8	9+	2500
	Catterick	1023.4	-6	SE'E	2	c	39	75	8	5	-	-	9+	9+	2500
	Tynemouth	1024.6	-4	SSE	3	c	40	75	8	8	-	-	9+	9+	1500
11	St. Abbs Head	1024.7	+2	ESE	4	o	40	85	9	5	-	-	10	10	2500
	Leuchars	1025.0	-2	ESE	4	c	41	75	9	5	-	-	9+	9+	4000
12	Renfrew (Abbots I.)	1023.4	-6	E'S	4	z_0	40	75	6	8	5	-	7-8	9	2500
	Eskdalemuir	1023.3	-6	E	3	c	36	75	6	5	-	1	7-8	7-8	1500
	Point of Ayre														
13A	Tiree	1020.4	0	ESE	4	bc	42	75	8	2	6	5	2-3	4-6	4000
13B	Stornoway	1022.5	-2	ESE	3	b	43	65	9	-	4	-	tr	tr	5700
15	Dalwhinnie	1025.5	-2	SW	3	c	35	75	7	4	5	1	4-6	7-8	2500
	Aberdeen	1025.9	-4	ESE	2	o	40	85	6	5	-	-	10	10	2500
	Wick	1026.0	-2	SSE	5	c	40	85	8	5	2	-	9	10	1500
16	Lerwick	1027.5	0	E	2	PR	40	75	8	5	7	-	7-8	10	1500
17	Blacksod Point	1013.8	-4	ESE	6	c	41	92	8	-	4	-	0	7-8	-
18	Malin Head	1019.0	-4	SSE	4	bc	41	75	8	5	-	-	4-6	4-6	5700
	Aldergrove	1019.6	-2	SE'E	3	z_0	38	75	6	5	-	-	9+	9+	2500
19	Birr Castle	1014.9	-2	ESE	3	:	41	65	7	5	7	-	7-8	9	1500
20	Valentia Obsy. †	1009.0	-2	SE'E	6	z_0	45	85	6	5	-	-	10	10	1500
	Roches Point	1012.?	-2	E'S	5	$9r_0$	41	85	7	5	-	-	10	10	800

OBSERVATIONS at 18h. G.M.T. 31st January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 31st (37)	Weather 13h.–18h. 31st (38)	Weather 18h. 31st to 1h. 1st (39)	Weather 1h.–7h. 1st (40)
London (Kew)	1017.9	-2	NE'E	6	z_0	37	75	6	5	-	-	9	9	1500	1	*	cz_0	cz_0	cm_0	cm_0
Croydon	1018.0	-6	E	6	z_0	36	85	5	5	-	-	9+	9+	2500	1	*	$cbcz_0$	$bcz_0\ bm_0$	$cbcm_0w$	bcm_0xcm_0
S. Farnborough	1017.5	-2	E'N	3	z_0	35	85	5	5	-	-	9+	9+	1500	1	*	cbbc	bcb,c	c,bw	$bwbcm_0$
Boscombe Down	1017.1	+2	E'N	3	z_0	34	85	6	-	-	-	0	0	-	4	*	$cbcm_0bm_0$	bm_0	bm_0cm_0	bm_0cm_0x
Calshot (Sthmtn.)	1017.2	-2	ENE	4	z_0	37	85	5	5	3	-	4-6	9	2500	1	3	cm_0	bm_0	cm_0	cm_0bm_0
Lympne	1018.8	-2	E'N	3	z_0	34	85	5	5	-	-	9	9	1500	1	§ 3	cz_0bcm_0	bcz_0cm_0	cbm_0x	bm_0x
Manston	1018.9	+2	ENE	3	z_0	36	85	6	5	-	-	7-8	7-8	1500	1	*	cz_0	$cz_0\ bcm_0$	$bccm_0x$	cm_0x
Shoeburyness	1019.1	-2	ENE	4	c	38	85	7	5	-	-	9	9	2500	1	*	cm_0	cm_0c	c	c
Felixstowe	1020.1	0	E	5	z_0	38	85	6	5	-	8	7-8	7-8	1500	0	3	cbc	$bcccm_0$	cm_0	cm_0om_0
Gorleston	1021.0	-6	E'S	4	c	37	75	7	8	-	-	10	10	2500	0	4	cq	cq	cq	c
Mildenhall	1020.5	0	ENE	3	c	35	85	8	5	-	-	7-8	7-8	1500	0	*	c	c	c	c
Cranwell	1021.1	-2	E'N	2	c	36	85	7	5	-	-	7-8	10	1500	1	*	c	c	c	c
Birmingham	1019.2	-6	ENE	4	c	34	75	5	5	-	-	9+	9+	800	1	*	cm	cm	c	c
Upper Heyford	1018.6	-6	E'N	4	z_0	33	85	6	5	-	-	4-6	4-6	1500	1	*	c	$cbbcm_0$	cm_0	cm_0
Ross-on-Wye	1018.1	0	ENE	2	z_0	33	85	6	5	-	-	4-6	4-6	2500	1	*	cbcc	bc	c	c
Hartland Point			ESE	6	c	35	85	7	7	6	-	4-6	7-8	1500	1	3	c	bcc	c	cbccbc
Bristol	1017.2	0	ENE	3	z_0	34	85	6	5	-	-	2-3	2-3	1500	1	*	$cbcm_0$	bcz_0b	bm_0bcc	cm_0
Portland Bill	1013.1	-4	E	6	c	39	92	7	5	-	-	10	10	1500	1	5	oc	c	o	o
Plymouth	1012.1	-2	ESE	6	z_0	39	75	6	5	-	6	2-3	4-6	1500	1	2	cm_0bcz	bcz_0	bcz_0cz_0	cz_0
The Lizard	1010.9	+10	ESE	7	c	41	92	6	8	2	-	7-8	9+	1500	1	4	czq	cq	cq	c
Scilly (St. Mary's)	1009.6	+2	SE'E	6	c	42	92	6	8	2	-	7-8	10	1500	1	4	c	c	c	c
Guernsey	1012.5	0	E'N	5	bc	38	75	7	1	3	-	2-3	2-3	2500	1	4	cbc	bc	bcc	cbc
Pembroke	1014.3	-4	SE	8	bcq	38	75	7	8	-	-	4-6	4-6	1500	1	4	cq	cq bc (gale)	cq	cq
Holyhead	1016.3	-2	E	6	b	36	85	8	-	-	-	0	0	-	0	4	bbc	b	wm_0b	bx
Chester (Sealand)	1020.2	-4	ESE	2	z_0	37	75	6	5	-	-	9+	9+	1500	1	*	cbccz	cz_0	cm_0	cm_0
Manchester	1020.1	-8	E.	4	z_0	37	75	5	-	-	-	0	0	-	0	*	$czbczz_0$	bcz_0	bz_0qbcbm	bm_0mx
Spurn Head	1021.9	-8	E'S	3	c	38	85	8	5	-	-	10	10	2500	0	2	c	c	c	c
Catterick	1023.1	+2	ESE	2	c	37	85	8	5	-	-	10	10	1500	1	*	cm_0ir_0c	c	c	c
Tynemouth	1022.9	-4	ESE	4	c	40	75	8	5	-	-	9+	9+	1500	1	2	c	c	c	co
St. Abbs Head	1024.1	-2	SE	4	o	38	92	9	5	-	-	10	10	2500	0	3	co	o	o	o
Leuchars	1024.2	0	E	3	id_0	39	85	8	5	-	-	10	10	1500	1	*	c	cid_0	cid_0c	c
Renfrew (Abbots I.)	1022.4	0	E'N	4	z_0	39	85	6	8	6	-	4-6	7-8	2500	1	*	$cbcm_0z$	$cbccz_0$	bcz_0	bcb
Eskdalemuir	1023.0	0	ENE	3	bc	33	85	7	5	-	1	4-6	4-6	1500	1	*	cm_0	cbc	cm_0	$cbcm_0x$
Point of Ayre	1020.1	-2	S'E	5	bc	39	85	7	4	-	-	2-3	2-3	1500	0	3		bc	bcbb	bc
Tiree	1019.2	-4	ESE	3	bc	40	85	8	5	4	5	1	2-3	4000	0	3	bc	bc	bcb	b
Stornoway	1020.9	-4	ESE	3	bc	42	65	8	-	4	6	0	4-6	-	1	1	bcb	bbc	bcc	cb
Dalwhinnie	1024.1	-4	N	3	c	33	75	7	4	-	4	4-6	7-8	2500	7	*	c	c	*	cbc
Aberdeen	1025.0	-2	SE'E	1	c	40	85	6	5	-	-	10	10	2500	1	1	cd_0oz	cd_0cz_0	cz_0	cz_0
Wick	1024.6	-6	SSE	5	c	41	85	8	5	2	-	7-8	10	1500	1	2	c	c	c	c
Lerwick	1026.6	-2	E	2	c	39	75	8	5	2	-	7-8	10	1500	1	*	c	c	c	c
Blacksod Point	1011.9	-8	ESE	5	c	41	85	8	-	4	-	0	10	-	0	3	cq	cq	bcq	bcq
Malin Head	1016.9	-16	SSE	5	bc	39	85	7	-	4	-	0	2-3	-	0	3	cbc	bc	Ⓘ bcbcc	cbc
Aldergrove	1016.9	-16	SE	6	z_0	37	75	6	5	-	-	2-3	2-3	1500	1	*	ccm_0	cm_0bcbm	$bccm_0$	cm_0
Birr Castle	1012.8	-4	ESE	3	bc/p	38	65	8	5	4	-	4-6	4-6	2500	1	*	bcc	cbc	bc	bccx
Valentia Obsy. †	1007.8	-2	ESE	6	z_0	43	75	6	6	-	-	10	10	1500	1	4	cid_0m_0	cm_0cz_0	cz_0	cz_0c
Roches Point	1011.7	-4	E'S	5	c	42	85	7	8	2	-	7-8	10	1500	1	4	cir_0	c	c	cir_0

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_0, slight rain.
rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. Ⓘ lunar halo. Aurora.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.

Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.

An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.

"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

† See disturbance reported from Dungeness.

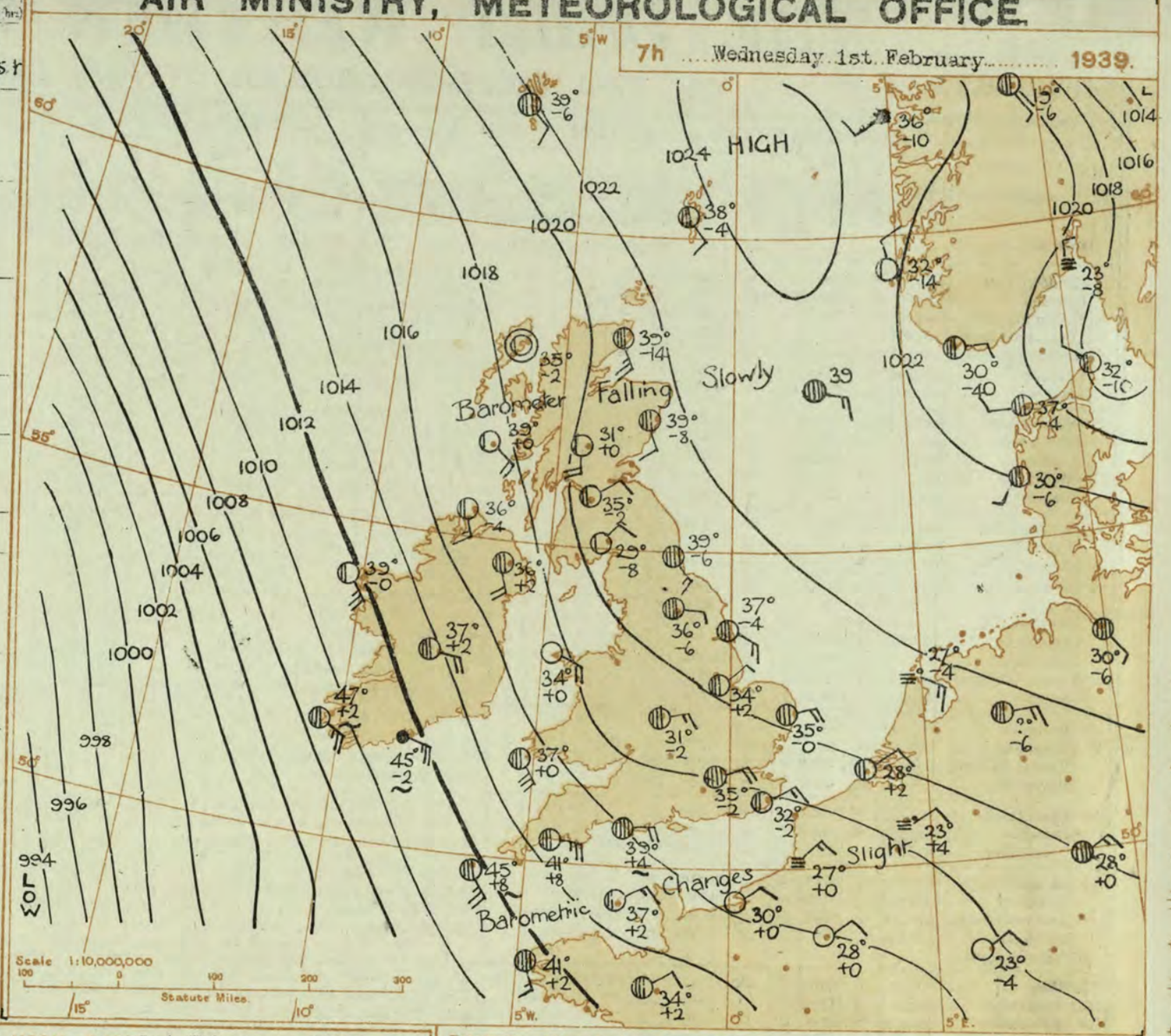
REPORTS from HEALTH RESORTS for 31st January 1939

Districts	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 30 to 9h. 31 st	Temperature. (°F.) Max. 9h.—17h. 31 st	Rainfall. (mm.) Night. 17h. 30 to 9h. 31 st	Rainfall. (mm.) Day. 9h.—17h. 31 st	Sunshine (hr.) Sunrise to Sunset 31 st
1	Tunbridge W.	cbc	bc	32	38	-	-	5.3
	Bournemouth	c	bc	34	38	-	-	0.8
	Ventnor ...	o7.	coz	35	37	-	-	0.1
	Southsea ...	ocbc	bbcw	35	40	-	-	4.2
	Bognor Regis	ocbc	bcbbc	34	39	-	-	4.0
	Littlehampton	cbc	bc	34	40	-	-	4.8
	Worthing ...	cbcb	b	35	39	-	-	4.1
	Brighton ...	bc	bc	35	39	-	-	3.2
	Eastbourne† ...	c	c	35	39	-	-	0.3
	Hastings† ...	cbc	bcc	33	39	-	-	2.0
	Folkestone ..	mc	cbcc	34	38	-	-	2.2
	Dover ..	bcc	cbc	35	38	-	-	2.3
	Deal	ocbc	bcbcc	35	*	-	-	1.3
	Ramsgate ...	c	c	34	38	-	-	1.4
	Margate ...	cbc	bcc	35	38	-	-	0.0
2	Southend ...	c	c	36	39	-	-	1.1
	Clacton-on-Sea	cbc	bc	35	38	-	-	3.2
	Dovercourt ...	bc	bc	36	39	-	-	4.7
	Lowestoft ..	c	c	36	38	-	-	0.0
	Skegness ..	oco	o	36	40	-	-	0.0
	Mablethorpe...	o	o	37	39	-	-	0.0
	Cleethorpes ...	c	c	37	40	-	-	0.0
3	Leamington S.	oc	c	33	36	-	-	2.2
4	Cheltenham†	cbc	bcb	32	38	-	-	4.3
5	Bath	cbc	bbc	34	38	-	-	3.4
	Weymouth ...	c	c	36	38	-	-	0.0
	Jersey ...	cbc	bc	33	40	-	-	4.3
	Torquay ...	oq	coq	38	40	-	-	0.0
	Falmouth	c	c	40	43	-	-	0.3
	Penzance ...	cq	bccqc	41	45	-	-	0.5
	St. Ives ...							
	Bude... ...	bc	bc	35	39	-	-	4.1
	Ilfracombe ...	cbc	bcb	35	38	-	-	3.3
6	Aberystwyth	zbc	bcz	34	39	-	-	7.0
7	Llandudno ...	cbc	bcb	34	38	-	-	4.6
	Colwyn Bay...	bcc	bcb	31	38	-	-	4.2
	Rhyl	cm	cbcc	32	37	-	-	1.6
8	Wallasey ..	cbc	bc	32	38	-	-	2.7
	Southport ...	cbcbz	bczcz	30	40	-	-	4.3
	Blackpool ...	cbcb	bm	32	38	-	-	5.4
	Morecambe ...	bcb	b	35	39	-	-	4.9
9	Ilkley.. ...	c	c	33	38	-	-	0.0
	Harrogate ...	c	c	34	37	-	-	0.0
10	Berwick-on-T.	c	co	38	41	0.1	-	0.0
11	Dunbar ...	bc	bc	37	42	-	-	0.2
12	Troon... ...	xcbcb	bcc	32	42	-	-	5.2
	Douglas ...	bc	c	36	38	-	-	0.3

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

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h ....Wednesday 1st February..... 1939.



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

Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 1st February, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Light or moderate east or southeast winds; considerable bright periods but cloudy near east coast; fog forming at night, probably persisting particularly near populous areas; rather cold; frost at night.
5 S.W. England 6 South Wales ...	Moderate or fresh southeast winds; mainly cloudy, occasional slight local rain; rather cold but temperature tending to rise.
7 North Wales ... 8 N.W. England 9 N. Midlands ...	Moderate or fresh southeast winds, decreasing later; bright periods, but local fog forming at night; rather cold; frost at night.
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.	As 7 - 9.
14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	As 1 - 4.
17 N. W. Ireland 18 N. E. Ireland	As 7 - 9.
19 S. E. Ireland 20 S. W. Ireland	As 5 - 6.

GENERAL INFERENCE.

An anticyclone extends over the North Sea and a complex depression southwest of Ireland is filling up. There will be considerable bright periods in most districts, but local fog will probably form during the night. It will continue rather cold with frost at night.

FURTHER OUTLOOK.

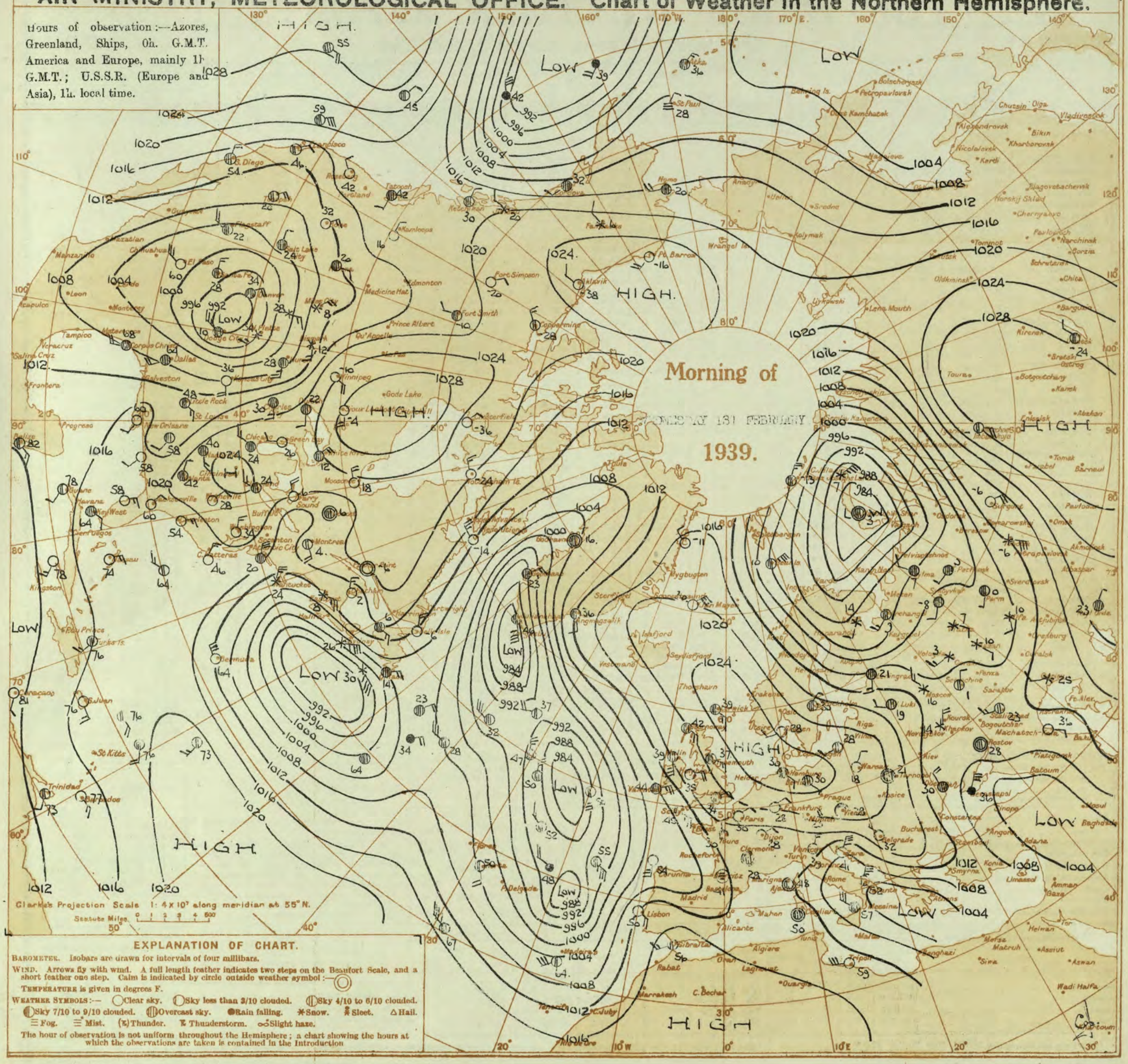
Probably foggy and cold in places.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 1st February, 1939

No. 28195

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1018·4	-2	E'N	3	Z_0	34	92	6	1	-	-	2-3	2-3	1500
	S. Farnborough	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1018·5	-6	E'N	3	Z_0	32	85	5	-	-	-	0	0	-
	Manston ...	154	1018·5	-4	E'N	3	Z_0	35	85	5	3	-	-	9	9	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ..	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ..	5	1020·8	-2	SE'E	4	c	36	85	7	8	-	-	10	10	2500
	Mildenhall ...	19	1019·7	-8	E'N	4	c	34	85	8	5	-	-	9+	9+	1500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1013·7	+10	E	5	c	40	85	7	5	4	-	4-6	7-8	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1015·0	+2	ESE	6	0	40	92	7	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1011·7	+2	ESE	6	c	43	97	6	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	1010·4	+4	SE	5	c	45	92	6	5	-	-	10	10	1500
	Guernsey ..	175	1014·1	+2	E'S	2	c	36	85	6	8	-	-	9+	9+	2500
6	Pembroke ...	142	1015·2	+4	SSE	7	cq	37	85	7	8	2	-	7-8	10	1500
7	Holyhead ...	26	1016·8	+10	E'N	4	b	35	85	7	-	-	-	0	0	-
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1021·1	-2	ESE	4	c	37	85	8	5	2	-	7-8	10	4000
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1021·9	-6	ESE	3	c	40	75	8	5	-	-	9+	9+	1500
11	St Abbs Head ..	280	1022·3	-4	SE	3	0	39	85	8	5	-	-	10	10	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1017·1	-2	SSE	7	b	38	85	8	1	-	1	Tr	1	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1019·5	-4	ESE	4	c	42	75	8	-	5	-	7-8	7-8	5700
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1023·1	-6	SSE	5	c	39	85	8	5	2	-	9	10	1500
16	Lerwick ...	156	1024·7	-10	SE	3	c	39	75	8	5	2	-	7-8	10	800
17	Blacksod Point	18	1012·1	0	SE	5	bc	38	85	8	-	4	-	0	4-6	-
18	Malin Head ...	84	1016·6	-2	SSE	5	c	39	85	7	8	5	-	4-6	7-8	4000
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1007·8	0	E'N	5	0	44	97	8	5	-	-	10	10	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1018·1	-2	NE'E	3	Z_0	36	85	6	5	-	-	10	10	1500	1	*
	Croydon ...	1017·9	-2	ENE	4	Z_0	35	85	5	5	-	-	10	10	1500	1	*
	S. Farnborough	1017·7	+2	E'N	2	Z_0	33	92	6	5	-	-	9+	9+	1500	3	*
	Boscombe Down	1017·8	0	E'N	3	Z_0	31	97	6	5	-	-	10	10	1500	4	*
	Calshot (Sthmtn.)	1017·5	+4	NE'N	4	Z_0	33	92	6	-	-	-	0	0	-	1	3
	Lympne ...	1018·1	-2	NE'E	3	Z_0	32	92	5	5	-	-	4-6	4-6	1500	3	§2
	Manston ...	1018·3	0	ENE	3	Z_0	34	85	5	5	-	-	7-8	7-8	1500	1	*
2	Shoeburyness ...	1018·4	0	ENE	4	c	36	85	7	8	-	-	9	9	2500	1	*
	Felixstowe ..	1018·5	-6	ESE	3	Z_0	36	85	6	5	-	-	10	10	1500	0	2
	Gorleston ..	1020·0	0	E'N	4	c	35	85	7	5	-	-	10	10	2500	0	2
	Mildenhall ...	1019·6	+2	E'S	2	c	33	85	7	5	-	-	10	10	1500	0	*
	Cranwell ...	1020·4	+2	NE'E	1	c	34	85	7	5	-	-	9+	10	1500	1	*
3	Birmingham ...	1019·2	-2	E	3	c	31	85	6	5	-	-	10	10	800	1	*
	Upper Heyford	1019·0	+2	E'N	3	Z_0	31	85	6	5	-	-	10	10	800	1	*
4	Ross-on-Wye	1018·2	0	ENE	2	Z_0	33	85	6	5	-	-	10	10	1500	1	*
5	Hartland Point	1013·3	+2	ENE	5	b	35	92	7	5	-	-	1	1	1500	0	3
	Bristol ...	1017·6	0	E	3	Z_0	34	85	6	5	-	-	9+	9+	1500	1	*
	Portland Bill ...	1014·7	+4	E	4	0	39	92	7	5	-	-	10	10	1500	1	4
	Plymouth ...	1014·3	-2	SE'E	4	Z_0	39	75	6	5	-	-	9	9	1500	1	2
	The Lizard ...	1012·6	+8	E'S	5	c	41	97	7	8	2	-	7-8	9+	2500	1	3
	Scilly (St. Mary's)	1011·5	+8	SE'S	5	c	45	92	7	5	-	-	10	10	1500	1	4
	Guernsey ..	1014·1	+2	ENE	3	bc	37	75	7	-	1	-	0	2-3	-	1	3
6	Pembroke ...	1015·3	0	SE	6	cq	37	85	6	8	-	-	7-8	7-8	2500	1	3
7	Holyhead ...	1016·5	0	E'S	4	b	34	85	8	-	-	-	0	0	-	5	2
	Chester (Sealand)	1019·2	+4	ESE	3	Z_0	35	85	6	5	-	-	10	10	1500	1	*
8	Manchester ...	1019·4	0	ESE	1	m	29	92	4	-	3	-	0	2-3	-	3	*
10	Spurn Head ...	1020·2	-4	E'S	3	c	37	85	7	5	-	-	10	10	800	0	3
	Catterick ...	1021·0	-6	E'N	1	c	36	85	7	5	-	-	10	10	1500	1	*
	Tynemouth ...	1020·7	-6	SE	3	0	39	75	8	5	-	-	10	10	1500	1	2
11	St Abbs Head ..	1020·6	-6	SE	3	0	38	75	8	5	-	-	10	10	2500	0	3
	Leuchars ...	1021·4	-10	SE	2	c	39	75	9	5	-	-	9+	9+	2500	1	*
12	Renfrew (Abbots I.)	1021·0	-2	ENE	2	bc	35	85	7	5	-	-	2-3	2-3	4000	1	*
	Eskdalemuir ...	1021·1	-8	NE'E	2	b	29	92	6	5	-	-	1	1	800	1	*
	Point of Ayre...	1018·2	+4	SSE	4	c	37	85	8	4	-	-	7-8	7-8	1500	0	3
13A	Tiree	1017·0	0	SE'E	4	b	39	85	8	-	4	-	Tr	1	-	0	3
13B	Stornoway ...	1018·6	-2	-	0	b	35	92	9	-	4	-	Tr	Tr	5700	1	0
15	Dalwhinnie ...	1021·4	0	S	4	b	31	92	7	4	-	-	1	1	2500	7	*
	Aberdeen ...	1021·3	-8	SSE	2	c	39	75	6	5	-	-	9+	9+	2500	1	1
	Wick ...	1020·5	-4	SSE	5	c	39	75	8	5	2	-	9	10	1500	1	2
16	Lerwick ...	1023·4	-4	SE	2	c	38	75	8	5	2	-	7-8	10	1500	1	*
17	Blacksod Point	1011·1	0	SE	5	bc	39	92	8	-	4	-	0	2-3	-	0	3
18	Malin Head ...	1016·9	-4	S'E	3	bc	36	92	7	8	4	-	2-3	4-6	4000	0	3
	Aldergrove ...	1016·4	+2	SSE	4	Z_0	36	97	6	5	-	-	9	9	1500	1	*
19	Birr Castle ...	1012·8	+2	E'S	4	c	37	85	8	5	-	-	10	10	2500	1	*
20	Valentia Obsy. †	1008·2	+2	ESE	5	c	47	85	7	5	-	-	9+	9+	1500	1	4
	Roches Point	1011·6	-2	E'S	5	Z_0	45	92	7	6	2	-	4-6	10	1500	1	4

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sun shine Hrs. (36)
1	London (Kew)	39	35	33	-	-	3·0
	Croydon ...	38	31	23	-	-	5·2
	S. Farnborough	40	32	27	-	Tr	5·3
	Boscombe Down	38	30	27	-	-	4·7
	Calshot (Sthmtn.)	39	32	31	-	-	2·9
	Lympne ...	35	30	27	-	-	4·0
	Manston ...	38	34	30	-	-	1·7
2	Shoeburyness ...	39	36	34	-	-	0·3
	Felixstowe ..	39	35	34	-	-	3·5
	Gorleston ..	38	34	33	-	-	0·0
	Mildenhall ...	39	32	31	-	-	0·3
	Cranwell ...	37	34	33	-	-	0·0
3	Birmingham ...	34	31	31	-	-	0·0
	Upper Heyford	38	31	30	-	-	*
4	Ross-on-Wye	37	32	30	-	-	4·6
5	Hartland Point	37	33	31	-	-	0·8
	Bristol ...	38	33	27	-	-	1·7
	Portland Bill ...	41	34	*	-	-	*
	Plymouth ...	41	39	36	-	-	4·2
	The Lizard ...	43	41	*	-	-	0·4
	Scilly (St. Mary's)	45	41	*	-	-	0·1
	Guernsey ..	40	36	33	-	-	3·8
6	Pembroke ...	39	36	*	-	-	1·6
7	Holyhead ...	39	33	29	-	-	7·2
	Chester (Sealand)	37	35	32	-	-	1·9
8	Manchester ...	39	27	19	-	-	3·1
10	Spurn Head ...	40	36	*	-	-	0·0
	Catterick ...	39	35	34	0·1	-	0·0
	Tynemouth ...	42	38	36	-	-	0·0
11	St Abbs Head ..	40	36	*	-	-	*
	Leuchars ...	41	38	37	Tr	Tr	0·9
12	Renfrew (Abbots I.)	41	35	29	-	-	2·4
	Eskdalemuir ...	37	29	25	-	-	0·3
	Point of Ayre...	41	36	*	-	-	3·5
13A	Tiree	43	37	34	-	-	6·2
13B	Stornoway ...	43	33	*	-	-	7·5
15	Dalwhinnie ...	37	30	24	-	-	2·0
	Aberdeen ...	40	39	37	Tr	-	0·0
	Wick ...	41	38	*	-	-	*
16	Lerwick ...	40	37	*	-	-	0·0
17	Blacksod Point	44	33	*	-	-	*
18	Malin Head ...	41	34	*	-	-	5·7
	Aldergrove ...	39	35	30	-	-	1·1
19	Birr Castle ...	49	36	29	-	-	0·6
20	Valentia Obsy. †	45	42	40	Tr	-	0·0
	Roches Point	44	42	*	1	0·1	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (2½ hrs. ended 9h.)	Weather Afternoon (2½ hrs. ended 9h.)	Weather Night (2½ 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	cZ_0	cZ_0	cm_0	39	35	33	-	-	3·0	*	*	5
Croydon ...	217	$cbcz_0$	bcz_0bm_0	$cbcm_0$	38	31	29	-	-	5·2	*	*	6
Greenwich (Royal Observatory) ...	149	c	b	c	38	35	32	-	-	1·8	74	80	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	1·6	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	40	36	35	-	-	2·1	76	81	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	39	35	34	-	-	1·9	72	80	*
Camden Square ...	110	bc	bc	*	39	35	33	-	-	*	*	82	*
Kensington ...	80	bc	bc	*	39	36	32	-	-	2·1	At 18h. 82	81	*
Hampstead Observatory ...	450	0	bc	0	38	33	33	-	-	3·1	*	87	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
0·3	16-18h 31st	<0·3	3-5h 1st

Kew Observatory Max.	Time.	Min.	Time.
0·2	12-13h 31st	0·1	8h 31st

FOREIGN OBSERVATIONS.

18h. G.M.T. 31st January — 7h. G.M.T. 1st February

Stations	18h. Barom. mb.	18h. Wind Direc.	18h. Wind Force	18h. Weather	18h. Temp. °F.	7h. Barom. mb.	7h. Wind Direc.	7h. Wind Force	7h. Weather	7h. Temp. °F.	Past 24 Hours Max. Day °F.	Past 24 Hours Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	1015·7	NE	2	Z_0	34	1015·5	ENE	2	Z_0	28	37	*	-	*
Brussels ...	1018·4	ENE	3	b	32	1018·3	ENE	2	m	23	36	27	-	-
Berlin ...	1024·4	NE	2	0	32	1035·6	-	0	c	30	32	30	Tr	-
Zürich ...	1018·0	SE	2	0	32	1017·5	NNE	1	0	27	32	27	-	-
Rome ...	1007·6	N	5	bc	50	1011·0	N	2	bc	39	*	*	7	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 2nd February, 1939.
No. 28196

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°F Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1018.7	0	ENE	4	m	38	75	4	5	-	5	1	4-6	2500
	Croydon ...	1018.6	+2	ENE	4	z_o	37	85	5	5	-	-	4-6	4-6	4000
	S. Farnborough	1018.5	0	ENE	3	z_o	40	75	5	5	-	-	1	1	2500
	Boscombe Down	1018.6	+4	ENE	3	z_o	35	85	5	5	-	-	4-6	4-6	1500
	Calshot (Sthmtn.)	1018.1	+6	NEN	3	z_o	39	75	6	-	-	-	0	0	-
	Lympne ...	1018.9	+2	NE'E	3	z_o	35	85	5	5	-	-	2-3	2-3	1500
	Manston ...	1018.8	0	ENE	3	z_o	36	85	5	5	-	-	9+	9+	800
2	Shoeburyness ...	1019.0	-2	ENE	4	c	39	85	6	5	-	-	9+	9+	1500
	Felixstowe ...	1020.1	+6	ENE	4	z_o	39	75	6	5	-	-	9+	9+	1500
	Gorleston ...	1020.1	-4	SE'E	3	c	36	85	6	5	-	-	10	10	2500
	Mildenhall ...	1020.1	-2	ENE	3	z_o	37	75	6	5	-	-	9+	9+	1500
	Cranwell ...	1020.7	+2	ENE	2	c	33	85	7	5	-	-	9+	9+	1500
3	Birmingham ...	1020.0	+4	NE	2	m	31	85	4	5	-	-	10	10	1500
	Upper Heyford	1020.0	+2	ENE	2	z_o	33	75	6	5	-	-	9+	9+	800
4	Ross-on-Wye	1019.1	+4	E'N	3	z_o	33	75	6	5	-	-	10	10	1500
5	Hartland Point	1015.7	+4	SE	4	c	38	85	6	5	2	-	7-8	9+	1500
	Bristol ...	1019.2	+6	ENE	3	z_o	35	85	6	5	-	-	9+	9+	1500
	Portland Bill ...	1016.6	+8	ENE	4	c	38	85	6	5	-	-	10	10	1500
	Plymouth ...	1016.0	+2	E'S	3	z_o	41	85	6	5	-	-	10	10	2500
	The Lizard ...	1014.8	+4	ESE	5	c	43	85	7	8	2	-	9	10	1500
	Scilly (St. Mary's)	1013.8	+6	SE	5	c	45	92	6	5	-	-	10	10	1500
	Guernsey ...	1015.4	+2	E	2	b	41	65	6	1	-	-	1	1	2500
6	Pembroke ...	1016.8	+10	SE'S	5	c	39	75	6	5	-	-	9+	9+	1500
7	Holyhead ...	1018.6	+2	SW'S	3	b	41	65	7	-	-	-	0	0	-
	Chester (Sealand)	1020.0	+2	SE	3	z_o	35	75	6	5	-	-	10	10	1500
8	Manchester ...	1020.2	-2	SE	2	bc$_o$	37	65	3	-	3	-	0	2-3	-
10	Spurn Head ...	1021.2	+2	ESE	2	c	36	85	6	5	-	-	9+	9+	800
	Catterick ...	1021.3	-2	SE'E	2	c	36	85	8	5	-	-	10	10	1500
	Tynemouth ...	1020.9	0	S	3	c	38	75	7	8	-	-	10	10	1500
11	St. Abbs Head ...	1021.3	0	SSE	4	c	37	85	8	5	6	-	9	10	2500
	Leuchars ...	1021.2	-2	SE	2	c	39	75	8	5	2	-	7-8	10	2500
12	Renfrew (Abbots I.)	1020.5	-2	NE'E	3	z_o	38	85	6	5	-	-	2-3	2-3	2500
	Eskdalemuir ...	1020.2	-2	-	0	bc	36	75	6	5	-	-	4-6	4-6	1500
	Point of Ayre ...	1019.1	+10	SE'S	4	c	40	75	7	5	-	-	7-8	7-8	2500
13A	Tiree	1017.5	0	SSE	4	bc	41	85	8	5	-	-	4-6	4-6	4000
13B	Stornoway ...	1018.2	+4	-	0	b	45	65	8	-	-	-	0	0	-
15	Dalwhinnie ...	1020.8	-4	S	4	b	34	92	8	-	-	-	0	0	-
	Aberdeen ...	1021.5	-2	SSE	2	c	39	75	6	5	-	-	9+	9+	1500
	Wick ...	1020.0	-8	SSE	5	bc	40	75	8	4	6	-	2-3	4-6	1500
16	Lerwick ...	1022.8	-4	SE	3	c	39	85	8	5	3	-	7-8	10	1500
17	Blacksod Point	1013.5	+10	ESE	6	bcq	40	92	7	-	4	9	0	4-6	-
18	Malin Head ...	1016.7	-4	SSE	4	z_o	38	85	6	5	-	9	4-6	9	2500
	Aldergrove ...	1018.1	+4	SSE	3	z_o	38	75	6	5	-	-	10	10	1500
19	Birr Castle ...	1014.7	+4	ESE	3	c	40	85	8	5	7	-	4-6	7-8	2500
20	Valentia Obsy. †	1010.5	+10	SE	5	c	49	85	7	5	-	-	9+	9+	1500
	Roches Point	1013.8	+8	ESE	4	c	45	92	7	5	-	-	9+	9+	1500

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°F Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1018.6	+2	NE	3	z_o	38	85	5	5	-	-	9+	9+	2500	1	*
	Croydon ...	1018.9	+4	ENE	4	m	35	85	4	5	-	-	9+	9+	1500	1	*
	S. Farnborough	1018.7	+4	NE'E	1	m	34	85	4	5	-	-	9	9	1500	1	*
	Boscombe Down	1018.5	+2	NE'N	3	m	31	92	4	-	-	-	0	0	-	1	*
	Calshot (Sthmtn.)	1018.1	+2	NNE	3	m	36	85	4	-	-	-	0	0	-	1	1
	Lympne ...	1018.8	+2	NE'N	4	m	33	92	4	-	-	-	0	0	-	1	§ 2
	Manston ...	1018.9	+2	NE'E	2	z_o	32	92	5	5	-	-	4-6	4-6	1500	1	*
2	Shoeburyness ...	1019.2	+2	ENE	3	c	37	85	7	5	-	-	9+	9+	1500	1	*
	Felixstowe ...	1019.8	+2	E'N	3	z_o	38	85	5	5	-	-	2-3	2-3	1500	0	2
	Gorleston ...	1020.3	+2	E'N	3	c	36	85	6	8	-	-	9+	10	2500	0	2
	Mildenhall ...	1020.5	+6	ENE	2	z_o	33	85	6	5	-	-	10	10	1500	0	*
	Cranwell ...	1020.7	-2	NE'E	2	z_o	38	85	6	5	-	-	10	10	800	1	*
3	Birmingham ...	1020.2	+2	ENE	2	z_o	29	85	5	5	-	-	10	10	1500	1	*
	Upper Heyford	1019.9	+2	ENE	2	z_o	32	92	5	5	-	-	7-8	7-8	800	1	*
4	Ross-on-Wye	1019.5	0	NE'E	3	z_o	31	85	5	5	-	-	10	10	800	1	*
5	Hartland Point	1016.3	+4	E	3	c	37	85	6	5	2	-	9+	10	1500	0	3
	Bristol ...	1019.0	-2	ENE	4	z_o	32	85	5	5	-	-	9+	9+	1500	1	*
	Portland Bill ...	1016.0	-4	ENE	3	bc	38	85	6	5	-	-	4-6	4-6	1500	1	3
	Plymouth ...	1016.2	+2	E	3	z_o	41	75	5	5	-	-	10	10	1500	1	1
	The Lizard ...	1014.6	+8	ESE	5	c	43	85	7	8	2	-	7-8	9+	1500	1	3
	Scilly (St. Mary's)	1013.6	+2	ESE	4	c	43	92	6	5	-	-	10	10	1500	1	4
	Guernsey ...	1015.0	0	NE'E	3	bc	41	75	6	5	3	-	2-3	4-6	2500	1	3
6	Pembroke ...	1016.8	+4	SE	6	oq	38	85	6	5	-	-	10	10	1500	1	3
7	Holyhead ...	1018.2	+2	-	0	b	35	75	5	-	-	4	0	1	-	3	1
	Chester (Sealand)	1019.9	0	SE'E	3	z_o	33	85	6	5	-	-	10	10	1500	1	*
8	Manchester ...	1020.2	+4	ESE	1	bp	31	85	3	-	-	-	0	0	-	3	*
10	Spurn Head ...	1021.2	0	SE'E	3	c	35	85	7	5	2	-	7-8	10	1500	0	3
	Catterick ...	1021.3	+2	SE'S	2	c	34	85	8	5	-	-	9+	9+	1500	1	*
	Tynemouth ...	1021.1	+2	S	3	c	36	75	6	8	-	-	10	10	1500	1	2
11	St. Abbs Head ...	1020.0	-4	S	5	o	36	92	8	5	-	-	10	10	2500	0	3
	Leuchars ...	1020.7	-2	SSE	1	z_o	37	85	6	5	-	-	10	10	1500	1	*
12	Renfrew (Abbots I.)	1020.3	+4	NE'E	2	z_o	36	85	6	5	-	-	9	9	2500	1	*
	Eskdalemuir ...	1020.6	0	N	1	b	29	85	6	-	-	-	0	0	-	1	*
	Point of Ayre ...	1018.5	0	S'E	4	c	38	85	6	5	-	-	9+	9+	1500	0	3
13A	Tiree	1016.9	+2	SE	4	bc	38	92	7	5	-	-	4-6	4-6	2500	0	3
13B	Stornoway ...	1018.0	0	SW	1	b	36	92	8	5	-	-	1	1	4000	1	0
15	Dalwhinnie ...	1020.2	-2	S	5	b	30	92	8	-	-	-	0	0	-	7	*
	Aberdeen ...	1020.4	-6	S	3	c	38	85	6	5	-	-	9+	9+	1500	1	1
	Wick ...	1018.4	-6	SSE	5	c	40	85	7	8	7	-	4-6	7-8	1500	1	2
16	Lerwick ...	1020.9	-4	SSE	4	c	39	75	8	5	7	-	4-6	9+	1500	1	*
17	Blacksod Point	1019.6	-4	ESE	6	z_o	41	85	6	-	1	-	0	9	-	0	4
18	Malin Head ...	1017.1	+2	SSE	3	z_o	37	85	6	5	6	-	4-6	7-8	1500	0	2
	Aldergrove ...	1017.7	0	S'E	2	z_o	36	85	6	5	-	-	10	10	1500	1	*
19	Birr Castle ...	1014.3	+2	SE	2	bc	38	92	8	5	7	-	2-3	4-6	2500	1	*
20	Valentia Obsy. †	1010.8	+6	SE	4	c	49	85	7	5	-	-	9	9	1500	1	3
	Roches Point	1014.0	0	E'S	4	c	45	92	7	5	-	-	9+	9+	1500	1	4

PAST 24 HOURS.

District	Stations	Weather. 7h.–13h. 1st (37)	13h.–18h. 1st (38)	18h. 1st to 1h. 2nd (39)	1h.–7h. 2nd (40)
1	London (Kew)	cm$_o$bem	bemem$_o$	cm$_o$	cm$_o$
	Croydon ...	cbem$_o$	bem$_o$em	em	cm$_o$
	S. Farnborough	cbcb	bz$_o$erf	c	cm$_o$x
	Boscombe Down	cm$_o$xbem$_o$	bem$_o$m$_o$bm	bm	em$_o$em$_o$x
	Calshot (Sthmtn.)	bm$_o$xbm$_o$	be bm$_o$	bxm	em, bxm$_o$
	Lympne ...	bcc$_o$em$_o$	bm$_o$mx	bm m$_o$x	mcem$_o$x
	Manston ...	cm$_o$	cbcem$_o$	bcem$_o$x	cm$_o$x
2	Shoeburyness ...	ccm$_o$c	cm$_o$c	c	cm$_o$c
	Felixstowe ...	c m$_o$em$_o$	em$_o$	bcm$_o$	bcm$_o$, cm
	Gorleston ...	c	c	cz$_o$	cz$_o$
	Mildenhall ...	cm$_o$	cm$_o$	cm$_o$	cm$_o$c
	Cranwell ...	c	cem$_o$	cm$_o$	cm$_o$
3	Birmingham ...	cm	cm	c	co
	Upper Heyford	cm$_o$	cm$_o$	cm$_o$m	cm$_o$m
4	Ross-on-Wye	cz$_o$	cz$_o$m$_o$	om$_o$	om$_o$
5	Hartland Point	c	c	c	cbc
	Bristol ...	cm$_o$	cbcem$_o$	cm$_o$	cm$_o$x
	Portland Bill ...	cbz$_o$	obcz$_o$	m	mo
	Plymouth ...	cz$_o$oz$_o$m$_o$	om$_o$	om$_o$	om$_o$
	The Lizard ...	c	c	c	cz$_o$q
	Scilly (St. Mary's)	c	c	c	c
	Guernsey ...	bcb	bbc	bcc	cbcb
6	Pembroke ...	cq$_o$	cq m	cm$_o$	cm$_o$
7	Holyhead ...	bx	m$_o$b	bm$_o$x	bm$_o$x
	Chester (Sealand)	cm$_o$z$_o$	cz$_o$m$_o$	cm$_o$	cm$_o$
8	Manchester ...	bmxff	bfzff	bzffbmx	bmx, cmx
10	Spurn Head ...	c	c	co	o
	Catterick ...	c	c	c	cm$_o$om$_o$
	Tynemouth ...	oco	o	o	o
11	St. Abbs Head ...	c	o	cbcbm	bcm$_o$b
	Leuchars ...	c	c	cm$_o$	cm$_o$bxc
12	Renfrew (Abbots I.)	bxbcm$_o$	bbccm$_o$	bbcbm$_o$x	bm$_o$cmx
	Eskdalemuir ...	bcxbc	bcbx	bm$_o$x	bmx
	Point of Ayre ...	cbcc	c	cz	cz
13A	Tiree	bbc	bc	bc	bcc
13B	Stornoway ...	b	b	bc	bcc
15	Dalwhinnie ...	bc	b	*	b
	Aberdeen ...	cz$_o$	cz$_o$	cz$_o$	cbcbx
	Wick ...	cbc	bcc	cbc	Fbc
16	Lerwick ...	c	c	c	c
17	Blacksod Point	cbcq	cbczq	cq	cq
18	Malin Head ...	cz$_o$zc	cz$_o$zc	bcz$_o$⦶	cz$_o$zbc
	Aldergrove ...	cm$_o$	cm$_o$	cm$_o$xcm$_o$	cm$_o$
19	Birr Castle ...	c	cbc	bc	bcb
20	Valentia Obsy. †	circ	c	c	c
	Roches Point	circ	c	c	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). o, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_o$, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s$_o$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r$_o$, slight rain. rr, continuous rain.
<, less than (for cloud height). ⚡gale.
⊕, Solar halo. ⦶ lunar halo. ⌒Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

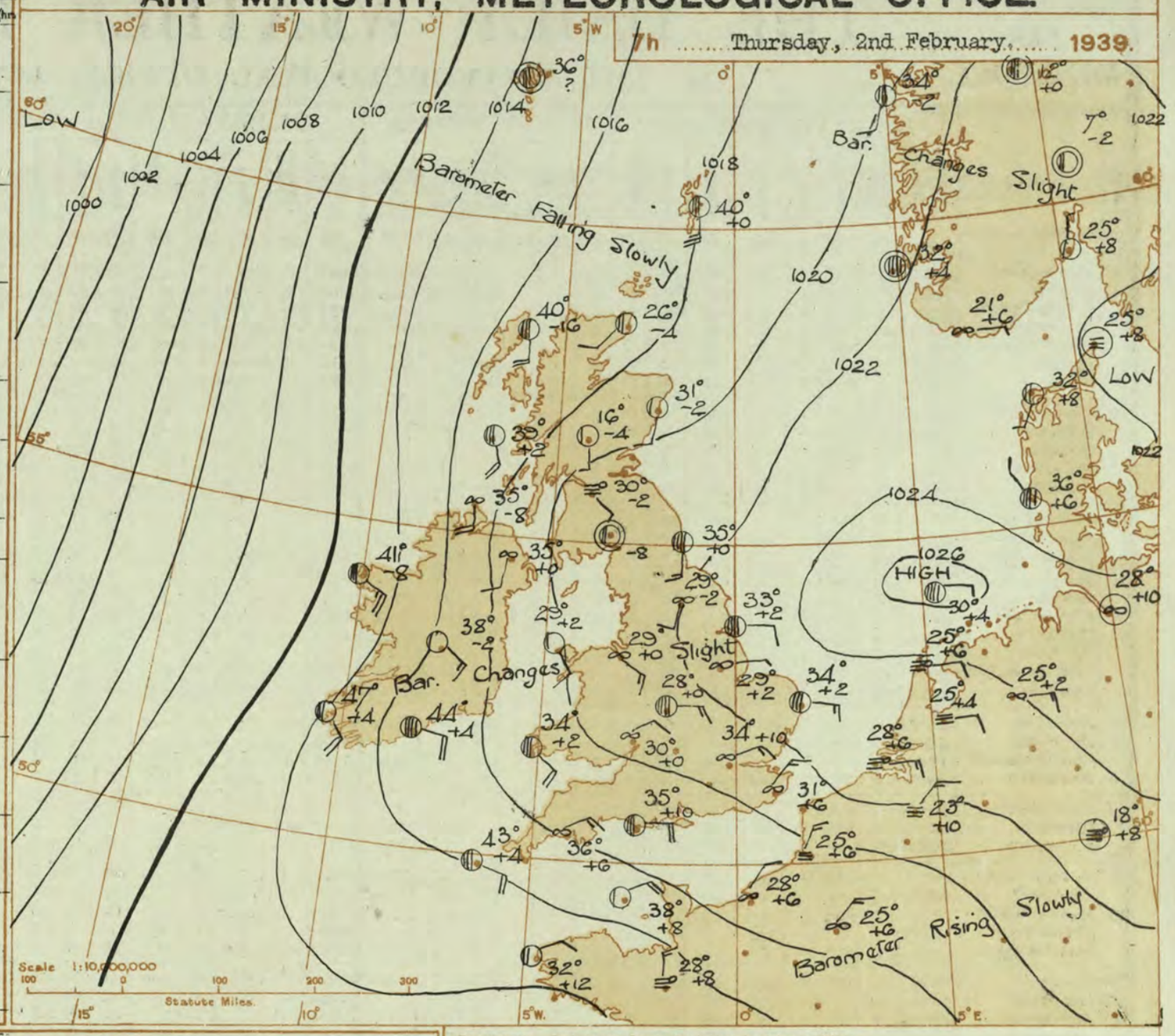
† Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 1st February 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 31st to 9h. 1st	Temperature. (°F.) Max. 9h.—17h. 1st	Rainfall. (mm.) Night 17h. 31st to 9h. 1st	Rainfall. (mm.) Day. 9h.—17h. 1st	Sunshine (hrs) Sunrise to Sunset. 1st
1	Tunbridge W.	ocbc	bcb	29	39	-	-	3.3
	Bournemouth	o	c	32	39	-	-	0.0
	Ventnor ...	oz	cbz	34	39	-	-	1.9
	Southsea ...	bcm	bm	31	42	-	-	5.7
	Bognor Regis	b	b	31	42	-	-	6.1
	Littlehampton	bc	bcb	31	42	-	-	6.0
	Worthing ...	b	b	31	41	-	-	6.0
	Brighton ...	bc	bc	31	41	-	-	6.1
	Eastbourne† ...	mcbc	bcbm	32	39	-	-	2.6
	Hastings† ...	bxcbc	bcb	31	39	Trace	-	4.3
	Folkestone ..	mcbc	bbcm	33	38	-	-	3.3
	Dover ...	oc	cbc	35	39	-	-	0.0
	Deal	o	cbcc	34	39	-	-	1.1
	Ramsgate ...	cm	c	34	38	-	-	0.0
	Margate ...	c	bcc	35	38	-	-	1.2
2	Southend ...	c	cm	36	39	-	-	0.3
	Clacton-on-Sea	c	cm	35	38	-	-	0.0
	Dovercourt ...	bc	bc	35	38	-	-	0.0
	Lowestoft ...	c	c	33	37	-	-	0.0
	Skegness ...	o	oc	34	38	-	-	0.0
	Mablethorpe...	o	o	35	37	-	-	0.0
	Cleethorpes ...	c	c	36	37	-	-	0.0
3	Leamington S.	o	o	31	33	-	-	0.0
4	Cheltenham†	co	oc	31	34	-	-	0.0
5	Bath	c	cbc	34	38	-	-	0.3
	Weymouth ...	c	c	35	39	-	-	0.0
	Jersey ...	bzb	bz	33	43	-	-	7.8
	Torquay ...	om	om	38	41	-	-	0.0
	Falmouth	c	c	41	43	-	-	0.0
	Penzance ...	c	c	42	44	-	-	0.0
	St. Ives ...							
	Bude... ...	c	o	35	40	-	-	0.0
	Ilfracombe ...	cbccz	bccz	34	41	-	-	3.0
6	Aberystwyth	xbc	bcz	31	39	-	-	7.7
7	Llandudno ...	b	bz	39	39	-	-	6.6
	Colwyn Bay...	bcb	b	32	37	-	-	6.0
	Rhyl	mcbc	bcbm	33	37	-	-	3.1
8	Wallasey ...	fcbc	bbc	33	37	-	-	4.9
	Southport ...	bmxbz	bzbfx	28	37	-	-	1.0
	Blackpool ...	bmbm	bfmcf	30	37	-	-	5.4
	Morecambe ...	bc	b	33	41	-	-	6.8
9	Ilkley... ...	o	o	34	35	-	-	0.0
	Harrogate ...	c	c	34	35	-	-	0.0
10	Berwick-on-T.	c	co	38	39	-	-	0.0
11	Dunbar ...	bc	cm	36	39	-	-	0.0
12	Troon... ...	xcbcb	bcc	30	39	-	-	7.0
	Douglas ...	bc	cf	35	37	-	-	0.0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 2nd February, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate winds becoming southerly, cloudy and bright periods, chance of local fog at night; temperature rising to the average of the season.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Southerly winds freshening, perhaps strong later, cloudy and bright periods; average temperature.
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.	Southerly winds becoming strong later, cloudy and bright periods, occasional rain later; temperature rising to seasonal average.
14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	As 4 - 9.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Southerly winds increasing to strong or gale later, becoming cloudy or dull with rain at times; average temperature.

GENERAL INFERENCE.

An anticyclone over the North Sea will move south and a deep depression over Mid-Atlantic will move northeast. It will be fair in the east but rain will reach Ireland and West Scotland later. Southerly winds will spread across the country and temperatures will rise to the average of the season.

FURTHER OUTLOOK.

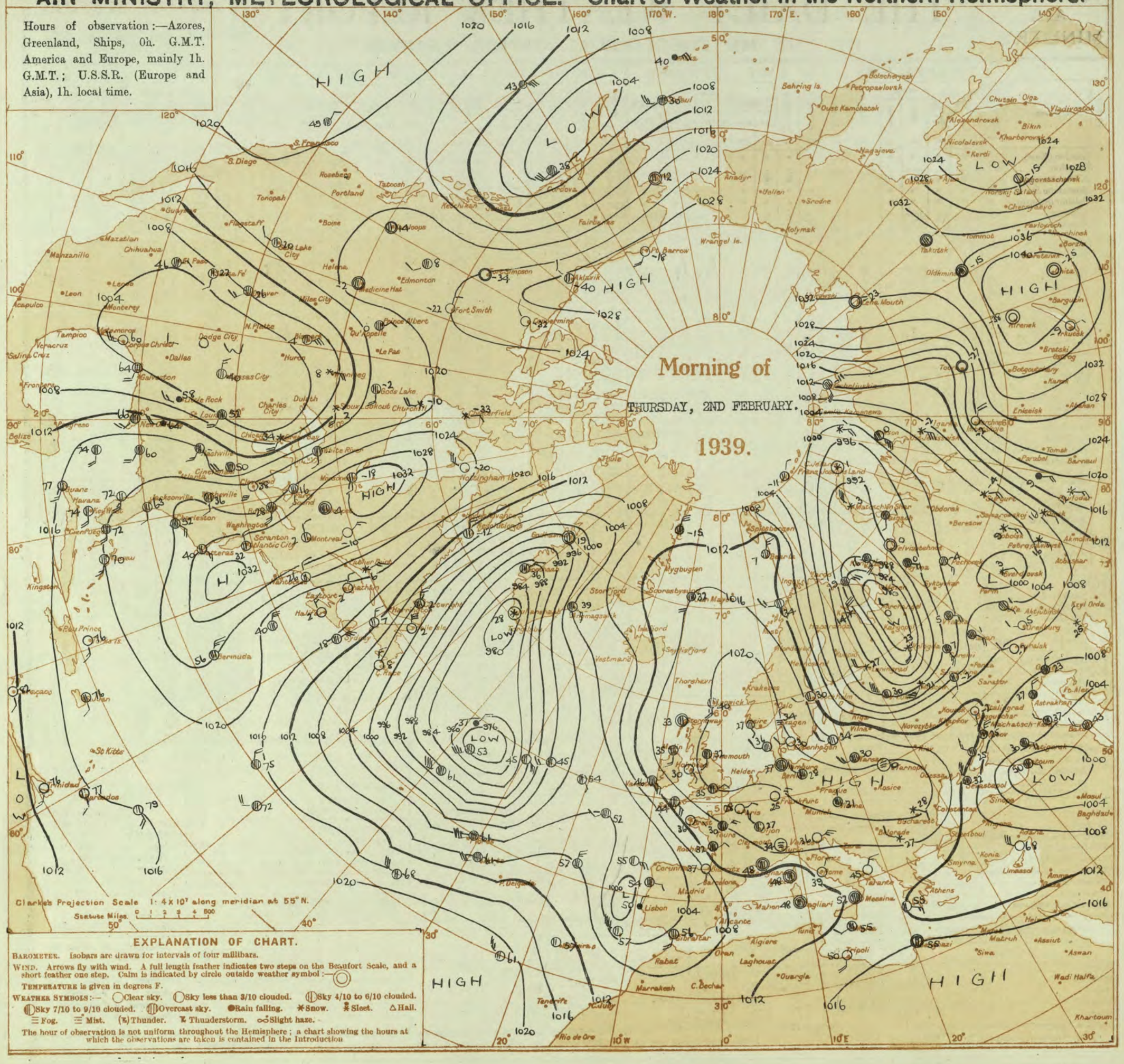
Mainly fair in the Southeast, unsettled in the West. Temperatures about the seasonal average.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 2nd February, 1939.
No. 28196

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1019·8	+2	NE'E	2	2o	35	92	5	5	—	-	9+	9+	1500
	S. Farnborough	229	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1020·3	+8	NE'E	2	2o	30	92	5	5	—	-	2-3	2-3	1500
	Manston	154	1020·3	+6	E'N	2	2o	34	85	5	5	—	-	9	9	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1021·2	0	SE'S	3	c	34	85	6	5	—	-	9+	9+	2500
	Mildenhall	19	1021·5	+4	ENE	2	2o	33	85	6	5	—	-	9+	9+	1500
	Cranwell	240					*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1017·7	+4	NE	3	c	33	92	6	5	—	-	9+	9+	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1018·7	+4	ENE	4	m	35	92	4	5	—	-	10	10	1500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1015·3	+2	ESE	5	c	41	97	7	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	1015·2	+4	SE	4	c	44	85	6	8	—	-	9+	9+	1500
	Guernsey	175	1015·8	-2	ENE	3	c	38	85	6	8	—	-	9	9	2500
6	Pembroke	142	1018·2	+2	SE'S	4	c	35	92	6	5	—	-	9+	9+	1500
7	Holyhead	26	1019·3	+8	SE'S	1	b	30	85	6	—	—	—	0	0	—
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1022·2	+2	SE'S	7	o	34	85	7	5	-	-	10	10	1500
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1021·4	0	S	3	o	32	85	6	5	—	-	10	10	1500
11	St Abbs Head	280	1020·5	+2	S	3	b	29	92	4	—	—	—	0	0	—
	Leuchars	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1019·7	+2	SSE	5	c	35	85	4	5	—	1	9+	9+	800
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1018·6	+4	—	0	bc	38	85	6	—	-	8	0	4-6	—
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1018·1	+2	S	3	bc	31	97	7	5	6	—	2-3	4-6	800
16	Lerwick	156	1019·7	-8	SSE	4	c	40	75	8	5	7	—	7-8	10	1500
17	Blacksod Point	18	1013·5	-4	ESE	4	c	41	92	7	—	1	—	0	10	—
18	Malin Head	84	1017·8	+6	S	3	2o	35	85	6	4	—	—	7-8	7-8	2500
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1012·7	+6	SE	7	o	46	97	8	5	—	—	10	10	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1020·9	+6	ENE	3	2o	35	85	5	5	—	—	9+	9+	1500	1	*
	Croydon	1020·8	+10	E'N	3	2o	34	85	5	5	-	-	9+	9+	1500	1	*
	S. Farnborough	1020·3	+4	ENE	3	2o	33	85	5	5	—	—	9+	9+	1500	3	*
	Boscombe Down	1020·2	+4	ENE	3	2o	32	92	6	5	-	-	10	10	1500	3	*
	Calshot (Sthmtn.)	1019·8	+4	NE	2	b	32	92	6	-	—	—	0	0	—	3	1
	Lympne	1020·3	+6	NE'E	3	2o	31	85	5	5	-	-	9+	9+	1500	3	§2
	Manston	1021·0	+6	ENE	3	2o	33	85	5	5	—	—	9+	9+	1500	1	*
2	Shoeburyness	1021·7	+8	NE'E	3	2o	35	85	6	5	—	-	9+	9+	1500	1	*
	Felixstowe	1021·9	+6	ENE	3	m	38	85	4	5	1	-	9+	10	800	0	2
	Gorleston	1022·1	+2	E'S	3	c	34	85	6	8	—	-	9+	9+	2500	0	2
	Mildenhall	1022·4	+6	E'N	2	2o	32	85	6	5	—	-	10	10	1500	0	*
	Cranwell	1022·3	+2	E	1	2o	29	92	6	5	—	-	10	10	800	1	*
3	Birmingham	1021·7	0	E	3	o	28	92	6	5	—	.	10	10	800	3	*
	Upper Heyford	1021·8	0	E	3	2o	24	85	6	5	—	-	10	10	800	1	*
4	Ross-on-Wye	1021·1	0	ENE	2	2o	30	85	6	5	—	-	10	10	800	1	*
5	Hartland Point	1018·1	0	E	4	bc	31	85	6	5	—	-	4-6	4-6	1500	0	2
	Bristol	1020·3	+4	E	3	2o	32	85	6	5	—	-	9+	9+	1500	1	2
	Portland Bill	1019·0	+10	E	4	c	35	92	7	5	2	-	7-8	10	1500	1	3
	Plymouth	1018·4	+6	ENE	3	2o	36	92	5	5	—	-	10	10	1500	1	1
	The Lizard	1016·6	+4	E	5	c	41	92	7	8	2	-	7-8	10	1500	1	3
	Scilly (St. Mary's)	1015·0	+4	ESE	4	c	43	85	6	8	—	-	10	10	1500	1	3
	Guernsey	1016·5	+8	ENE	4	b	38	75	6	1	—	-	1	1	2500	1	3
6	Pembroke	1012·3	+2	SE	4	c	34	85	6	5	—	-	10	10	1500	1	2
7	Holyhead	1010·5	+2	SE'S	2	b	29	92	6	—	—	—	0	0	—	3	1
	Chester (Sealand)	1021·4	0	SE'E	3	2o	29	92	5	5	—	-	10	10	800	3	*
8	Manchester	1021·7	0	SSE	1	m	25	97	4	5	-	-	9+	9+	2500	3	*
10	Spurn Head	1022·7	+2	E'S	2	o	33	85	7	5	-	-	10	10	1500	0	1
	Catterick	1021·0	-2	SSW	2	2o	29	92	5	5	-	—	10	10	450	1	*
	Tynemouth	1021·0	0	S	3	o	35	92	6	5	—	-	10	10	1500	0	2
11	St Abbs Head	1020·2	-4	SW	2	b	27	85	5	-	3	—	0	Tr	4000	3	2
	Leuchars	1020·1	-2	WSW	1	2o	30	92	6	5	7	—	9	9+	1500	1	*
12	Renfrew (Abbotsl.)	1021·0	-2	SE'S	1	m	30	92	4	5	-	-	10	10	1500	1	*
	Eskdalemuir	1021·7	-8	—	0	bc	15	97	4	—	—	S	2-3	2-3	—	3	*
	Point of Ayre	1020·3	+2	SSE	4	c	33	85	6	5	2	-	7-8	10	800	0	3
13A	Tiree	1016·7	+2	SSE	4	c	39	92	7	5	-	-	9+	9+	2500	0	3
13B	Stornoway	1017·0	-16	S	4	c	40	85	7	5	7	—	4-6	7-8	2500	5	3
15	Dalwhinnie	1019·8	-4	S	1	b	16	97	7	—	-	1	0	1	—	8	*
	Aberdeen	1018·0	-2	S'W	2	b	31	92	6	5	-	8	1	1	1500	1	1
	Wick	1017·7	-4	SW	2	bc	26	97	7	5	-	-	2-3	2-3	1500	3	1
16	Lerwick	1018·0	-12	S	5	c	46	92	8	8	2	-	7-8	10	1500	1	*
17	Blacksod Point	1012·3	-8	ESE	5	c	41	85	7	—	4	—	0	7-8	—	0	4
18	Malin Head	1016·6	-8	S	4	2o	35	85	6	5	-	-	4-6	4-6	1500	0	2
	Aldergrove	1018·5	0	S'W	2	2o	35	85	5	5	—	-	10	10	1500	1	*
19	Birr Castle	1014·3	-2	SE	3	b	38	85	8	—	—	-	0	0	—	1	*
20	Valentia Obsy. †	1014·2	+4	SE'E	4	c	47	75	7	5	-	-	9	9	1500	0	3
	Roches Point	1017·1	+4	E'S	4	o	44	85	7	5	—	—	10	10	1500	1	4

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 1st Hrs. (36)
1	London (Kew)	39	35	31	-	—	8·6
	Croydon	40	34	32	-	—	4·9
	S. Farnborough	40	30	25	-	—	2·8
	Boscombe Down	37	27	23	-	—	2·4
	Calshot (Sthmtn.)	42	30	28	-	—	5·1
	Lympne	37	27	22	-	—	3·7
	Manston	37	32	24	-	—	0·7
2	Shoeburyness	39	33	27	-	—	0·0
	Felixstowe	39	34	33	-	—	0·0
	Gorleston	37	33	32	-	—	0·0
	Mildenhall	37	31	30	-	—	0·3
	Cranwell	34	29	28	-	—	0·0
3	Birmingham	31	27	27	-	—	0·0
	Upper Heyford	33	29	28	-	—	*
4	Ross-on-Wye	33	30	29	-	—	0·0
5	Hartland Point	40	30	29	-	—	0·0
	Bristol	35	29	25	-	—	0·0
	Portland Bill	40	33	*	-	—	*
	Plymouth	42	35	33	-	—	0·0
	The Lizard	44	40	*	-	—	1·0
	Scilly (St. Mary's)	45	42	*	-	—	0·0
	Guernsey	42	36	32	-	—	8·1
6	Pembroke	40	33	*	-	—	0·0
7	Holyhead	42	28	19	-	0·1	7·3
	Chester (Sealand)	38	29	29	-	—	0·0
8	Manchester	37	22	14	-	—	1·2
10	Spurn Head	37	33	*	-	—	0·0
	Catterick	37	25	*	-	—	0·6
	Tynemouth	39	31	29	-	—	0·0
11	St Abbs Head	39	27	*	-	—	*
	Leuchars	40	29	21	-	—	0·0
12	Renfrew (Abbotsl.)	38	29	21	-	—	4·8
	Eskdalemuir	38	15	10	-	—	6·2
	Point of Ayre	40	33	*	-	—	1·5
13A	Tiree	43	37	35	-	—	4·6
13B	Stornoway	45	39	*	-	—	7·1
15	Dalwhinnie	(34)	15	9	-	—	6·5
	Aberdeen	40	36	26	-	—	0·0
	Wick	41	24	*	-	—	*
16	Lerwick	43	38	*	-	—	0·0
17	Blacksod Point	42	34	*	-	—	*
18	Malin Head	39	32	*	-	—	0·0
	Aldergrove	38	32	26	-	—	0·0
19	Birr Castle	42	36	29	-	—	2·1
20	Valentia Obsy. †	51	46	43	1	—	0·0
	Roches Point	46	44	*	0·1	—	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T % (Yesterday)	Humidity 9h. G.M.T % (To-day)	Visibility 9h. (To-day)
Kew	18	cm,bcm	bcmcm₀	cm₀	39	35	31	—	—	0·6	•	•	5
Croydon	217	cbcm₀	bccm,cm	cmm₅	40	34	32	—	—	4·9	•	•	5
Greenwich (Royal Observatory)	149	c	c	cm₀	39	33	29	—	—	1·1	76	81	5
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0·2	•	•	•
Westminster (St. James' Park)	27	•	•	•	40	35	32	—	—	0·0	76	79	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	39	34	32	—	—	0·2	81	79	•
Camden Square	110	c	bc	•	40	33	31	—	—	•	•	81	•
Kensington	80	c	bc	•	39	34	30	—	—	0·2	At 18h. 82	81	•
Hampstead Observatory	450	obc	o	ox	37	31	28	—	—	0·9	•	90	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 2nd

South Kensington Max.	Time.	Min.	Time.	Kew Observatory Max.	Time.	Min.	Time.
0·3	17h–18h 1st	0·3	2–4h 2nd	0·4	22h 1st	0·2	1–6h 2nd

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 1st February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 2nd February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris						1018·3	NE	3	2o	25				*
Brussels	1018·4	ENE	2	b	32						37		—	
Berlin	1021·8	NW'N	3	b	30	1023·8	WNW	1	c/s	28	37	27	—	Tr.
Zurich	1018·0	NNE	1	o	27	1020·0	N	1	2o	25	32	25	—	—
Rome	1012·1	*	*	c	50	1014·3	NNE	2	bc	37	*	*	—	—

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. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 3rd February, 1939.
No. 28197

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1021·1	-6	ENE	4	m	38	75	4	-	-	6	0	9	-
	Croydon	1021·6	-2	NE'E	4	z$_o$	38	75	5	-	-	-	0	0	-
	S. Farnborough	1020·8	-10	ENE	2	z$_o$	40	75	5	-	-	-	0	0	-
	Boscombe Down	1021·2	0	NE'E	2	z$_o$	36	75	5	-	-	-	0	0	-
	Calshot (Sthmtn.)	1020·9	+2	E	2	z$_o$	39	75	6	-	-	-	0	0	-
	Lympne	1021·5	-10	NE	4	z$_o$	36	75	6	-	-	-	0	0	-
	Manston	1021·6	-6	E'N	3	z$_o$	37	85	6	5	-	-	7-8	7-8	800
2	Shoeburyness	1021·8	-4	ENE	3	c	37	85	6	5	-	-	9	9	1500
	Felixstowe	1022·8	-2	ENE	3	z$_o$	35	85	6	5	-	-	9	9+	1500
	Gorleston	1023·1	0	SE	4	c	34	85	6	5	-	-	9+	9+	2500
	Mildenhall	1022·5	-8	E'N	2	z$_o$	37	75	6	5	-	-	4-6	4-6	2500
	Cranwell	1023·2	-2	ESE	1	z$_o$	29	92	6	5	-	-	9+	9+	800
3	Birmingham	1022·5	0	SE	2	m	29	85	4	5	-	-	1	1	800
	Upper Heyford	1022·3	-4	NE	1	z$_o$	33	85	6	5	-	-	7-8	7-8	800
4	Ross-on-Wye	1021·9	0	E'N	2	z$_o$	32	75	6	5	-	-	7-8	7-8	1500
5	Hartland Point	1018·9	-10	E'N	3	bc	34	85	6	5	-	-	2-3	2-3	1500
	Bristol	1021·6	0	NE'N	3	z$_o$	34	85	6	5	-	-	4-6	4-6	1500
	Portland Bill	1019·7	+4	E	3	c	36	92	6	5	2	-	4-6	10	1500
	Plymouth	1019·2	-2	E'N	4	z$_o$	38	75	6	5	-	-	1	1	1500
	The Lizard	1017·7	-4	E'S	5	bc	43	92	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1016·9	-2	SE'E	5	c	47	85	6	8	6	-	4-6	9+	1500
	Guernsey	1017·8	0	NE'E	3	z$_o$	41	75	6	-	-	-	0	0	-
6	Pembroke	1020·1	-4	SSE	5	cq	37	85	6	5	-	-	9+	9+	1500
7	Holyhead	1019·7	-6	SE'E	1	b	41	95	6	1	-	-	Tr	Tr	2500
	Chester (Sealand)	1021·9	-2	SE'S	3	z$_o$	31	92	5	5	-	-	9	9	1500
8	Manchester	1022·5	-6	S'E	2	m	31	85	4	-	-	-	0	0	-
10	Spurn Head	1023·1	0	SE'S	3	o	34	85	6	5	-	-	10	10	1500
	Catterick	1022·3	-6	S'E	3	z$_o$	31	97	5	5	-	-	9	9	800
	Tynemouth	1021·3	-4	SSW	3	c	32	85	5	5	-	-	7-8	7-8	1500
11	St. Abbs Head	1019·8	+2	NW	1	bc	33	75	5	-	3	-	0	2-3	-
	Leuchars	1020·0	+8	WSW	1	z$_o$	35	85	6	-	-	6	0	7-8	-
12	Renfrew (Abbots I.)	1021·0	-6	ENE	1	m	32	85	4	5	-	-	10	10	1500
	Eskdalemuir	1020·9	-4	SE	2	b	31	85	6	-	-	1	0	Tr	-
	Point of Ayre														
13A	Tiree	1016·3	-4	SSE	5	c	41	85	7	5	-	-	9	9	2500
13B	Stornoway	1016·0	-8	SSE	6	c	40	85	6	5	2	-	7-8	10	2500
15	Dalwhinnie	1019·4	-8	SW	3	c	33	85	8	-	-	7	0	10	-
	Aberdeen	1018·6	-8	S'W	3	bc	33	85	5	-	-	6	0	2-3	-
	Wick	1017·1	-8	S	2	c	36	92	8	5	1	2	4-6	9+	1500
16	Lerwick	1016·7	-8	SSW	4	c	40	75	8	8	2	-	7-8	9+	1500
17	Blacksod Point	1014·3	+12	SSE	4	c	46	85	7	-	1	9	0	7-8	-
18	Malin Head	1015·0	-14	S	5	z$_o$	39	85	6	4	-	7	2-3	9	1500
	Aldergrove	1018·8	-6	SSW	2	z$_o$	40	75	6	-	7	-	0	10	-
19	Birr Castle	1017·2	+6	SE	2	c	41	75	8	5	-	-	10	10	2500
20	Valentia Obsy. †	1015·9	0	SSE	5	c	48	75	7	5	-	-	9+	9+	2500
	Roches Point	1018·4	+12	ESE	4	o	44	85	6	5	-	-	10	10	1500

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1021·7	+4	ENE	3	z$_o$	35	85	5	-	-	-	0	0	-	1	*
	Croydon	1021·7	+6	ENE	3	m	33	92	4	5	-	-	1	1	4000	1	*
	S. Farnborough	1021·5	+4	ENE	2	m	34	85	4	-	-	-	0	0	-	1	*
	Boscombe Down	1021·6	+6	N	1	m	31	92	4	-	-	-	0	0	-	1	*
	Calshot (Sthmtn.)	1020·6	-2	NE	2	z$_o$	37	85	5	-	-	-	0	0	-	1	1
	Lympne	1022·2	+2	NE'E	3	m	31	97	4	-	-	-	0	0	-	3	§ 2
	Manston	1022·2	+6	E'N	1	z$_o$	32	85	5	5	-	-	4-6	4-6	800	1	*
2	Shoeburyness	1022·3	+4	ENE	2	c	33	92	6	5	-	-	7-8	7-8	2500	1	*
	Felixstowe	1023·3	+6	ENE	1	m	35	85	4	5	-	-	2-3	2-3	1500	0	1
	Gorleston	1023·2	+4	E	2	c	35	85	6	5	-	-	7-8	7-8	2500	0	2
	Mildenhall	1022·8	+4	E'N	2	z$_o$	30	92	5	-	-	-	0	0	-	0	*
	Cranwell	1023·3	+2	SE'E	1	m	28	97	4	5	-	-	10	10	800	1	*
3	Birmingham	1022·6	+4	ESE	2	bf	29	92	3	-	-	-	0	0	-	3	*
	Upper Heyford	1022·6	+4	NE	1	z$_o$	30	92	5	-	-	-	0	0	-	1	*
4	Ross-on-Wye	1022·0	+4	E'N	1	z$_o$	29	85	5	-	-	-	0	0	-	1	*
5	Hartland Point	1019·7	+12	E	3	bc	33	92	6	5	-	3	2-3	4-6	1500	0	2
	Bristol	1022·3	+10	-	0	z$_o$	30	92	5	-	-	-	0	0	-	1	*
	Portland Bill	1019·4	+10	ENE	3	m	37	92	4	5	-	-	7-8	7-8	1500	1	3
	Plymouth	1019·3	+6	E'N	3	z$_o$	36	85	5	5	-	5	2-3	4-6	1500	1	1
	The Lizard	1018·4	+8	E	4	c	42	92	5	8	2	-	7-8	9+	2500	1	2
	Scilly (St. Mary's)	1018·1	+12	ESE	4	c	43	97	6	8	6	-	4-6	10	1500	1	3
	Guernsey	1018·1	+10	ENE	3	b	39	75	6	-	-	-	0	0	-	1	3
6	Pembroke	1020·3	+4	SE'S	4	c	37	85	6	5	6	-	4-6	7-8	1500	1	2
7	Holyhead	1020·6	+12	SW'S	1	bc	36	75	6	-	5	6	0	4-6	-	3	1
	Chester (Sealand)	1021·6	+6	SE	4	m	29	85	4	5	-	-	1	1	2500	3	*
8	Manchester	1022·4	+4	SE	1	m	26	92	4	-	-	-	0	0	-	3	*
10	Spurn Head	1023·6	+4	SSE	2	c	31	92	5	5	-	-	9+	9+	800	0	1
	Catterick	1022·4	+4	S	3	f	29	92	3	-	-	-	10	10	<150	3	*
	Tynemouth	1021·1	0	S	3	bc	31	92	5	5	-	-	2-3	2-3	1500	3	2
11	St. Abbs Head	1019·7	0	S	3	bc	31	85	5	4	4	-	1	4-6	1500	3	2
	Leuchars	1019·8	+2	SW	2	z$_o$	30	92	5	-	7	6	0	7-8	-	1	*
12	Renfrew (Abbots I.)	1020·7	+2	-	0	cf	30	92	3	-	-	2	0	7-8	-	3	*
	Eskdalemuir	1021·7	+4	-	0	F+	25	97	1	-	-	-	10	10	<150	3	*
	Point of Ayre	1020·6	+2	S'W	4	bc	35	92	6	5	-	2	2-3	4-6	800	0	2
13A	Tiree	1016·2	0	SSE	5	c	40	92	7	5	3	-	4-6	7-8	4000	0	3
13B	Stornoway	1014·9	-2	S	5	c	42	85	6	5	7	-	4-6	9+	2500	1	0
15	Dalwhinnie	1019·1	+4	SE	2	bc	34	92	7	4	3	1	2-3	4-6	2500	7	*
	Aberdeen	1017·3	-6	SW'S	3	bc	37	55	6	-	-	2	0	4-6	-	3	*
	Wick	1015·4	-6	SSW	2	c	36	85	7	5	1	8	4-6	9+	1500	1	1
16	Lerwick	1014·7	-2	SSW	3	c	39	85	8	8	7	-	7-8	10	1500	1	*
17	Blacksod Point	1014·9	+4	S	6	bc	46	92	7	4	-	-	4-6	4-6	1500	0	4
18	Malin Head	1015·9	+12	S	4	z$_o$	37	85	6	5	-	4	4-6	7-8	1500	0	3
	Aldergrove	1019·1	+2	S'E	2	z$_o$	33	85	5	-	-	7	0	10	-	1	*
19	Birr Castle	1017·0	+2	SSE	2	bc	37	85	8	5	4	-	2-3	4-6	2500	1	*
20	Valentia Obsy. †	1016·5	+12	SE	4	c	46	75	6	5	3	-	7-8	7-8	2500	0	2
	Roches Point	1018·7	+2	SE	3	c	44	85	6	5	1	-	4-6	9+	1500	1	4

PAST 24 HOURS. — WEATHER.

District	Stations	7h.—13h. 2nd. (37)	13h.—18h. 2nd. (38)	18h. 2nd to 1h. 3rd (39)	1h.—7h. 3rd. (40)
1	London (Kew)	cm$_o$cm	cmbcm$_o$	bbccm$_o$x	offx
	Croydon	cm$_o$mbm$_o$	bm$_o$m	bmcm$_o$xf	cFfx
	S. Farnborough	cbcbz$_o$	bz$_o$bm	b, cmfw	bfFxo
	Boscombe Down	cm$_o$xbm$_o$	bm$_o$m	bmbfx	bfcfx
	Calshot (Sthmtn.)	bxm$_o$bm$_o$	bm$_o$bwm$_o$	bmx, cm$_o$x	cxm$_o$ofx
	Lympne	cm$_o$xbm$_o$	bz$_o$m/fx	bm$_o$mx	bmm$_o$x
	Manston	cm$_o$x	cbcm$_o$	bmx	bmfx
2	Shoeburyness	cm$_o$	cm$_o$bcm$_o$	bcm$_o$cm$_o$x	m$_o$FFx$_o$
	Felixstowe	cmcm$_o$	cm$_o$, bcm	bcmbcm$_o$	bcm$_o$cmx
	Gorleston	cz$_o$	cz$_o$	cz$_o$cw	cz$_o$z$_o$x
	Mildenhall	cm$_o$	bcm$_o$bmbm	bm$_o$, cm$_o$	bm$_o$, cm$_o$
	Cranwell	om$_o$	cm$_o$om$_o$m	om	omc
3	Birmingham	obm	bf	bfcf	f
	Upper Heyford	cm$_o$	bm$_o$	bm$_o$ofx	ofx
4	Ross-on-Wye	om$_o$cm$_o$	bcz$_o$bm$_o$	bmx	bfxofx
5	Hartland Point	bccbc	bc	bc	bccbcx
	Bristol	cbcm$_o$	bcbm$_o$	bxm	boxm
	Portland Bill	ofz$_o$	om	m	m
	Plymouth	om$_o$bz$_o$	bz$_o$bcm$_o$	bcb, cm$_o$	cm$_o$
	The Lizard	c	cz$_o$	cbc	bcc
	Scilly (St. Mary's)	cz$_o$	cz$_o$	c	c
	Guernsey	bbcz$_o$	bz$_o$	bcc	bcco
6	Pembroke	cmq	cm$_o$	cm$_o$	cm$_o$
7	Holyhead	bm$_o$x	bm$_o$bc	bcbm$_o$x	m$_o$xb
	Chester (Sealand)	cm$_o$	cbm$_o$	bmfx	b, ofx
8	Manchester	cmxffbmx	bmx	bifFFx	bFFxcmx
10	Spurn Head	o	ocm$_o$	ffow	ffw
	Catterick	om$_o$cm$_o$	cm$_o$mof	of	ofx
	Tynemouth	oc	cbc	bcm	bcmx
11	St. Abbs Head	bm$_o$	bcm$_o$	bcm	bcbmy
	Leuchars	cm$_o$xcm$_o$	cbcm$_o$x	bccm$_o$x	cm$_o$bcmx
12	Renfrew (Abbots I.)	oxcm	cmff	bcbffx	boffx
	Eskdalemuir	bm$_o$x	bffx	xff	xff.
	Point of Ayre		cbcz	bcz$_o$x	bz$_o$xc
13A	Tiree	c	c	cbc	bccz$_o$
13B	Stornoway	c	c	c	c
15	Dalwhinnie	c	c	*	b
	Aberdeen	bbcz$_o$	bcz$_o$y	bcbz$_o$	bz$_o$x
	Wick	bcc	c⊕	cbcm$_o$	m$_o$bc
16	Lerwick	c	c	c	c
17	Blacksod Point	cbc	cbcq	cbcq	cq
18	Malin Head	z$_o$	cz$_o$zc	czb, czbc	bccz$_o$zc
	Aldergrove	cm$_o$xcm$_o$	cm$_o$	cmbxm$_o$	bxm$_o$cm$_o$
19	Birr Castle	bbcc	cbc	bc	psbcx
20	Valentia Obsy. †	c	cz$_o$	cz$_o$	cz$_o$
	Roches Point	oz$_o$	ocz$_o$	cz$_o$c	c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

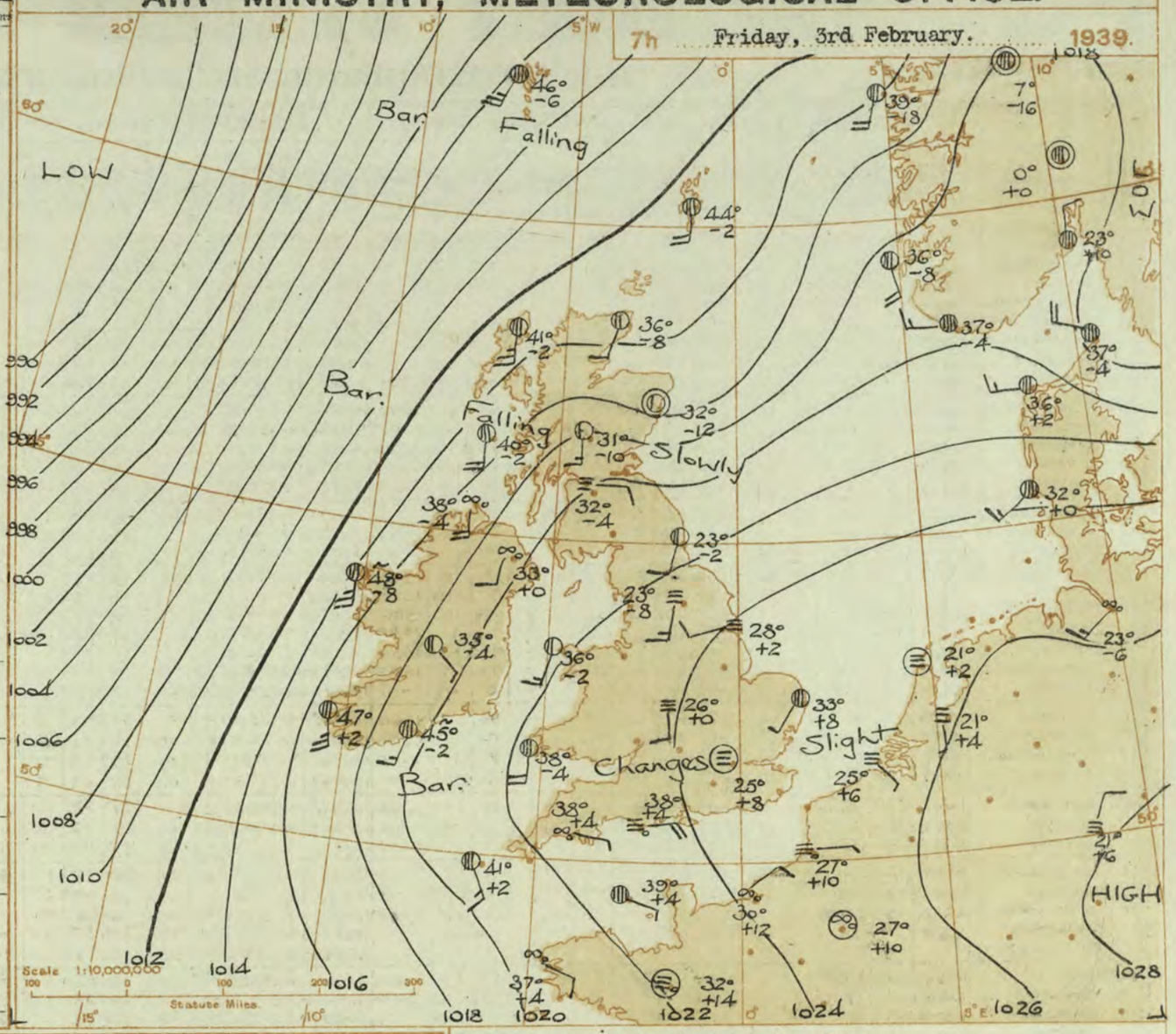
§ See disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 2nd February 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 1st to 9h. 2nd	Temperature. (°F.) Max. 9h.—17h. 2nd	Rainfall. (mm.) Night. 17h. 1st to 9h. 2nd	Rainfall. (mm.) Day. 9h.—17h. 2nd	Sunshine (hrs) Sunrise to Sunset. 2nd
1	Tunbridge W.	cbc	bcbbc	29	40	-	-	5·6
	Bournemouth	cbc	b	29	39	-	-	4·0
	Ventnor ...	ocz	cbz.	33	39	-	-	3·3
	Southsea ...	bm	bm	30	40	-	-	5·9
	Bognor Regis	b	b	30	42	-	-	6·6
	Littlehampton	bcb	b	30	42	-	-	6·9
	Worthing ...	b	b	30	42	-	-	7·1
	Brighton ...	bc	bc	32	42	-	-	6·6
	Eastbourne† ...	mcbc	bcbm	30	40	-	-	4·1
	Hastings† ...	cbcb	b	30	40	-	-	5·4
	Folkestone ...	m,oc	bcbbm	33	38	-	-	3·4
	Dover ...	cbc	bc	34	39	-	-	1·0
	Deal	ocbc	bcbbc	33	37	-	-	3·0
	Ramsgate ...	cm	bcm	33	38	-	-	3·6
	Margate ...	cbc	bc	34	38	-	-	3·4
2	Southend ...	cmbc	bccm	34	38	-	-	1·4
	Clacton-on-Sea	cm	cbccm	34	38	-	-	0·3
	Dovercourt ...	bc	bc	34	36	-	-	0·3
	Lowestoft ...	c	c	32	35	-	-	0·1
	Skegness ...	oco	o	31	36	-	-	0·0
	Mablethorpe...	o	co	32	35	-	-	0·0
	Cleethorpes ...	c	cbc	32	35	-	-	0·0
3	Leamington S.	o	oc	29	32	-	-	0·4
4	Cheltenham†	c	cbcbz	29	33	-	-	3·0
5	Bath	cbc	b	30	36	-	-	5·5
	Weymouth ...	oc	cb	32	38	-	-	1·2
	Jersey ...	bzb	bz	32	40	-	-	7·8
	Torquay ...	cocm,	bccm,	35	39	-	-	0·7
	Falmouth	c	c	38	42	-	-	0·0
	Penzance ...	cmcc	c	39	44	-	-	0·0
	St. Ives ...							
	Bude... ...	xbcb	bm	30	40	-	-	6·2
	Ilfracombe ...	cbcb	cbbc	26	36	-	-	6·4
6	Aberystwyth	xbc	bcz	22	40	-	-	7·5
7	Llandudno ...	xb	bz.	25	43	-	-	6·6
	Colwyn Bay...	xzb	bbc	24	39	-	-	7·1
	Rhyl	xbm,	bm,	24	41	-	-	7·1
8	Wallasey ...	cbc	bc	28	32	-	-	3·1
	Southport ...	cxbcz	bz	25	33	-	-	3·5
	Blackpool ...	ombcm	bmbcm	26	33	-	-	5·3
	Morecambe ...	xbc	bbc	24	39	-	-	2·8
9	Ilkley... ...	o	o	28	30	-	-	0·0
	Harrogate ...	oc	co	28	29	-	-	0·0
10	Berwick-on-T.	ofm	bmbc	23	35	-	-	2·8
11	Dunbar ...	cm,f	cm,	26	32	-	-	0·0
12	Troon... ...	ocbbc	bcbcq	27	37	-	-	2·3
	Douglas ...	c	cm	33	37	-	-	0·0

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



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 3rd February, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate southerly winds; mainly fine, apart from local fog or mist; temperature tending to rise, but cold in foggy areas; frost at night.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Freshening southerly winds; mainly fair; average temperature; local frost at night.
9 N. Midlands ...	As 1 - 3.
10 N.E. England	As 4 - 8.
11 S.E. Scotland	As 4 - 8.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. ▼ 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland ▼ 18 N. E. Ireland ▼	Southerly winds, increasing to strong or gale; mainly cloudy, occasional rain; average temperature.
19 S. E. Ireland	As 4 - 8.
20 S. W. Ireland ▼	As 12 - 18.

GENERAL INFERENCE.

An anticyclone is centred over Central Europe and a depression south of Iceland is moving north, while and intense secondary to it will move east or northeast. There is likely to be occasional rain in the West and North, but it will be fair or fine elsewhere, apart from local fog forming at night.

FURTHER OUTLOOK.

Unsettled in the North and West, mainly fair in the Southeast.

Time of Issue of Gale Warning.

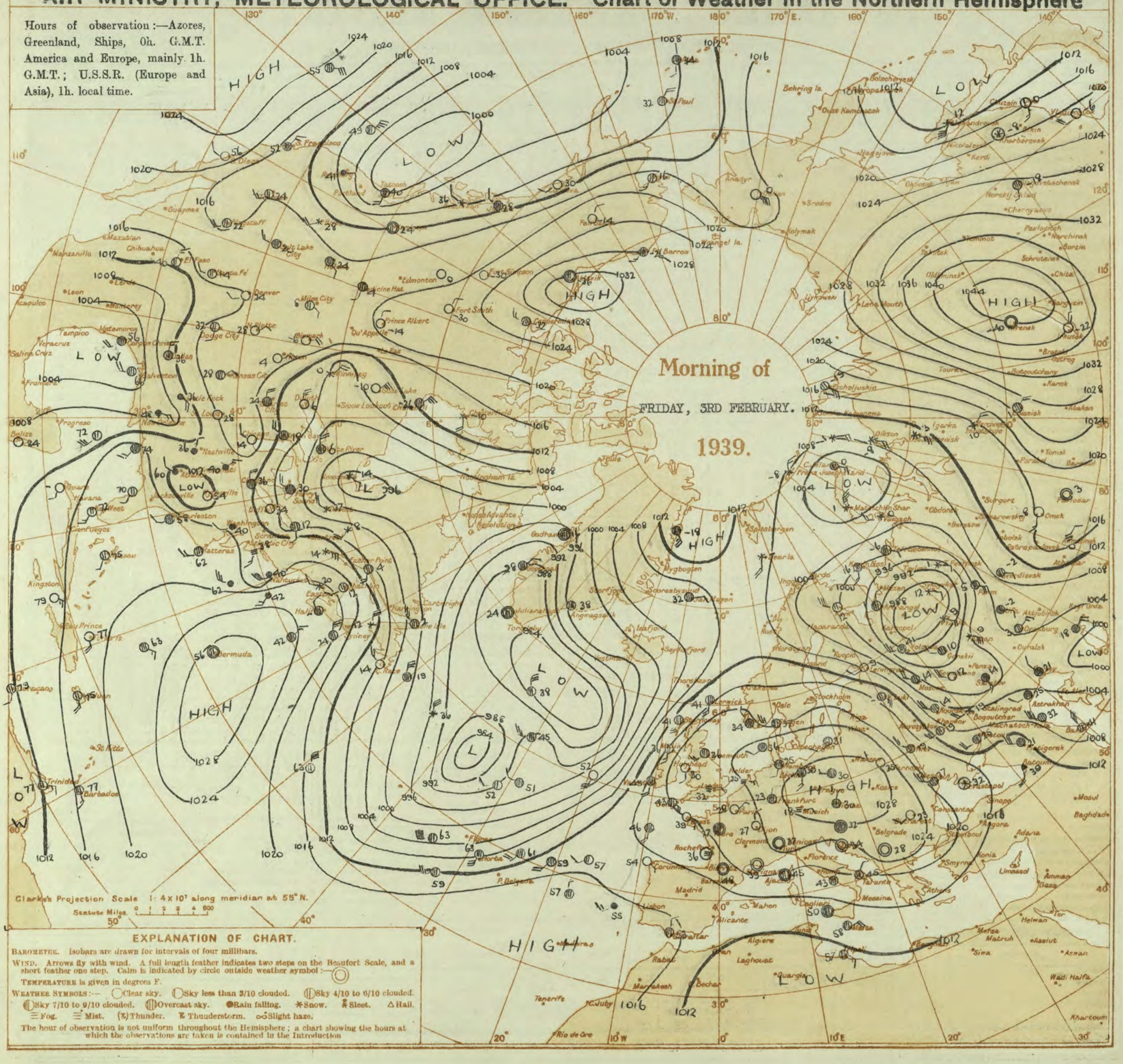
▼ South Cone hoisted at 1940 on 2nd in districts 13A, 13B, 17, and parts of 18 and 20.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 3rd February, 1959.
No. 28197.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility. 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1023·5	+6	E	2	cf	32	92	3	5	–	–	9+	9+	450
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1024·0	+4	E'N	2	m	29	92	4	–	–	–	0	0	–
	Manston ...	154	1023·9	+4	SE'E	1	m	31	85	4	–	–	–	0	0	–
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1024·7	+2	SE'S	3	c	34	85	6	8	–	–	9	9	2500
	Mildenhall ...	19	1024·3	+6	SSE	2	zo	32	92	6	5	–	–	9+	9+	1500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1021·2	+8	SE	3	bc	31	92	6	5	–	–	2-3	2-3	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1021·1	+8	E	4	m	37	92	4	5	–	–	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1019·3	+8	ESE	4	bc	42	85	6	8	–	–	4-6	4-6	2500
	Scilly (St. Mary's)	163	1019·9	+10	SE	3	c	43	92	6	8	6	–	7-8	9+	1500
	Guernsey ..	175	1020·6	+8	SE'E	1	bc	37	85	6	1	3	–	4-6	4-6	2500
6	Pembroke ...	142	1022·3	+4	SSE	4	c	37	85	5	5	–	–	9+	9+	1500
7	Holyhead ...	26	1021·1	+4	S	1	b	30	92	6	–	–	–	0	0	–
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1023·9	+4	S'W	2	f	29	97	3	5	–	–	10	10	450
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1021·2	0	SW	3	m	26	85	4	5	–	–	4-6	4-6	1500
11	St Abbs Head ..	280	1020·2	+4	WNW	2	bc	33	65	4	–	3	–	0	2-3	4000
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1022·9	+4	SW'S	3	b	34	85	6	–	–	–	0	0	–
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1014·3	+2	SSE	6	c	41	85	6	5	7	–	4-6	7-8	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1014·9	0	SSW	2	bc	38	85	6	5	5	–	2-3	4-6	1500
16	Lerwick ...	156	1014·3	-4	S	4	c	41	85	8	8	2	–	7-8	10	1500
17	Blacksod Point	18	1015·5	+4	S	5	c	46	85	7	–	1	–	0	7-8	–
18	Malin Head ...	84	1016·9	+6	S	3	fs	36	92	6	4	–	2	2-3	4-6	2500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1017·2	0	S	4	c	45	97	8	7	–	–	9	9	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	1024·5	+10	–	0	f	31	92	2	–	–	–	10	10	<150	3	*
Croydon ...	1024·6	+8	–	0	f	25	97	2	–	–	–	10	10	<150	1	*
S. Farnborough	1024·5	+4	ENE	1	F	29	97	1	–	–	–	10	10	<150	3	*
Boscombe Down	1023·9	0	E'N	2	cf	32	97	3	–	–	–	10	10	<150	3	*
Calshot (Sthmtn.)	1023·7	+6	N	2	f	31	97	2	–	–	–	10	10	<150	3	2
Lympne ...	1025·3	+12	E'S	2	zo	29	92	5	–	–	–	0	0	–	3	§0
Manston ...	1025·0	+10	SE	1	f	31	92	3	–	–	–	0	0	–	3	*
Shoeburyness...	1024·5	+6	–	0	F	27	97	1	–	–	–	10	10	<150	3	*
Felixstowe ...	1025·2	+10	E'S	1	m	35	92	4	5	1	–	9	10	1500	0	1
Gorleston ...	1025·0	+8	SW	1	c	33	85	6	5	–	–	10	10	2500	0	1
Mildenhall ...	1024·9	+2	–	0	zo	31	97	6	5	–	–	10	10	800	0	*
Cranwell ...	1024·5	+2	S'E	1	m	25	97	4	5	–	–	10	10	220	3	*
Birmingham ...	1024·2	0	S	2	f	26	97	2	–	–	–	10	10	<150	3	*
Upper Heyford	1024·9	+2	SE	1	f	27	97	2	–	–	–	10	10	<150	3	*
Ross-on-Wye	1023·2	0	SE	1	of	30	97	3	5	–	–	10	10	800	3	*
Hartland Point	1021·5	-8	SE	3	bc	33	85	6	5	–	–	2-3	2-3	1500	0	2
Bristol ...	1023·8	-2	–	0	m	31	97	4	5	–	–	10	10	800	3	*
Portland Bill ...	1022·0	+4	E	4	m	38	92	4	5	–	–	10	10	1500	1	3
Plymouth ...	1022·0	+4	E'S	1	zo	38	85	6	5	–	–	10	10	1500	1	2
The Lizard ...	1021·1	+10	SE	4	c	40	92	7	8	2	–	7-8	9+	1500	1	2
Scilly (St. Mary's)	1020·6	+2	SE'S	3	c	41	92	6	8	6	–	4-6	9+	1500	1	2
Guernsey ..	1022·0	+4	ESE	1	f	39	85	6	5	–	–	10	10	2500	1	2
Pembroke ...	1022·0	-4	S	4	c	38	85	6	5	–	–	10	10	1500	1	2
Holyhead ...	1021·1	-2	S'W	3	bc	36	85	7	–	–	4	0	2-3	–	3	1
Chester (Sealand)	1023·1	-2	SSE	–	f	25	97	2	–	–	–	10	10	<150	3	*
Manchester ...	1023·7	0	ESE	2	m	24	97	4	5	–	–	10	10	1500	3	*
Spurn Head ...	1024·3	+2	W'S	2	of	28	97	3	5	–	–	10	10	800	3	1
Catterick ...	1022·5	-8	S'W	3	f	23	97	2	–	–	–	10	10	<150	3	*
Tynemouth ...	1021·3	-2	SSW	2	bc	23	85	5	5	–	–	4-6	4-6	800	3	1
St Abbs Head ..	1019·5	-6	WNW	1	bc	33	45	5	4	–	–	2-3	2-3	2500	3	1
Leuchars ...	1019·0	-4	W	4	m	31	92	4	5	–	–	4-6	4-6	1500	3	*
Renfrew (Abbots I.)	1020·2	-4	E	2	of	32	85	3	5	–	–	10	10	1500	3	*
Eskdalemuir ...	1021·5	-10	S'W	2	f	27	97	3	–	–	–	10	10	<150	3	*
Point of Ayre...	1021·0	-2	S	3	c	37	97	6	5	–	–	9+	9+	800	5	2
Tiree	1015·8	-2	S	4	c	40	92	6	5	–	–	9+	9+	2500	0	–
Stornoway ...	1013·9	-2	S	5	c	41	85	6	5	–	–	9	9	1500	1	3
Dalwhinnie ...	1018·5	-10	S	3	b	31	85	6	–	–	2	0	1	–	8	*
Aberdeen ...	1015·8	-12	–	0	b	32	85	5	5	3	–	Tr.	1	2500	3	1
Wick ...	1013·9	-8	SSW	2	bc	36	85	7	5	3	1	2-3	4-6	1500	3	1
Lerwick ...	1013·2	-2	S	4	c	44	85	8	8	2	–	7-8	10	1500	1	*
Blacksod Point	1014·5	-8	S	5	c	48	85	7	5	–	–	10	10	1500	0	4
Malin Head ...	1016·4	-4	S	4	zo	38	92	6	5	8	–	4-6	7-8	1500	0	3
Aldergrove ...	1019·5	0	S'W	2	zo	33	85	6	5	–	–	9+	9+	1500	1	*
Birr Castle ...	1018·0	-4	SE	1	bc	35	97	8	5	4	–	2-3	2-3	2500	4	*
Valentia Obsy. †	1016·5	+2	SSE	5	c	47	75	6	5	–	–	10	10	2500	0	3
Roches Point	1019·7	-2	S'W	3	c	45	85	8	5	–	–	9+	9+	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)	Night 18h–7h mm. (35)	Sunshine 24 hrs. (36)
London (Kew)	39	30	17	–	–	2·3
Croydon ...	39	23	22	–	–	5·7
S. Farnborough	41	26	21	0·1	Tr	4·6
Boscombe Down	37	27	23	–	–	6·8
Calshot (Sthmtn.)	42	30	29	–	–	6·4
Lympne ...	37	27	20	–	–	5·9
Manston ...	38	29	16	–	–	4·0
Shoeburyness...	39	23	19	–	–	0·1
Felixstowe ...	36	31	27	–	–	0·1
Gorleston ...	35	32	30	–	–	0·0
Mildenhall ...	38	28	24	–	–	4·1
Cranwell ...	30	25	25	–	–	0·0
Birmingham ...	30	25	22	–	–	0·3
Upper Heyford	35	26	21	–	–	*
Ross-on-Wye	33	24	18	–	–	3·4
Hartland Point	36	30	29	–	–	5·5
Bristol ...	35	25	17	–	–	3·2
Portland Bill ...	35	34	*	–	–	*
Plymouth ...	35	34	31	–	–	4·8
The Lizard ...	43	35	*	–	–	1·9
Scilly (St. Mary's)	47	40	*	–	–	0·9
Guernsey ..	42	31	24	–	–	7·5
Pembroke ...	38	35	*	–	–	0·2
Holyhead ...	42	29	22	–	Tr.	5·5
Chester (Sealand)	32	25	23	–	–	2·3
Manchester ...	32	15	–	12	–	2·4
Spurn Head ...	35	26	*	–	Tr.	0·0
Catterick ...	32	23	22	–	–	0·6
Tynemouth ...	35	23	20	–	–	3·5
St Abbs Head ..	37	30	*	–	–	*
Leuchars ...	37	28	20	–	–	2·9
Renfrew (Abbots I.)	33	24	19	–	–	0·0
Eskdalemuir ...	33	17	17	–	–	5·4
Point of Ayre...	37	28	*	–	–	0·0
Tiree	41	38	37	–	–	0·3
Stornoway ...	42	41	*	–	–	0·0
Dalwhinnie ...	35	17	16	–	–	1·3
Aberdeen ...	37	27	19	–	–	4·8
Wick ...	38	29	*	–	–	*
Lerwick ...	41	37	*	–	–	0·0
Blacksod Point	50	42	*	–	–	*
Malin Head ...	39	35	*	–	–	0·3
Aldergrove ...	41	28	21	–	–	1·2
Birr Castle ...	43	32	20	–	Tr.	0·5
Valentia Obsy. †	49	45	43	–	–	1·3
Roches Point	45	44	*	–	–	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon.	Weather Night.	Temperature Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall Day. mm.	Night. mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity 15h. G.M.T % (To-day.)	Humidity 9h. G.M.T % (To-day.)	Visibility 9h.
Kew...	18	cm cm	cm bcm	blx cmf	39	30	17	–	–	2·3	*	*	6
Croydon	217	cm mbm	bm m	bmc xff	39	23	22	–	–	5·7	*	*	2
Greenwich (Royal Observatory)...	149	cbm	bcm	cbc xFe	39	29	22	–	Tr	3·3	81	100	0
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	1·0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	40	31	24	–	–	1·5	81	96	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	39	31	22	–	–	0·8	73	95	*
Camden Square	110	bc	bc	*	40	33	23	–	–	*	*	98	*
Kensington	80	bc	bc3	*	39	30	24	–	–	1·2	84	96	*
Hampstead Observatory	450	o	bc	oxf	37	30	24	–	–	3·9	*	99	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 3rd

South Kensington. Max.	Time.	Min.	Time.	Kew Observatory. Max.	Time.	Min.	Time.
0·3	16-18h 2nd	<0·3	1-2h 3rd.	0·7	17h 2nd	0·2	3h 3rd

FOREIGN OBSERVATIONS.

18h. G.M.T. 2nd February

Stations	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1020·1	NE	1	zo	34
Brussels	1021·9	E	2	bF+	28
Berlin	1027·1	S	2	zo	30
Zürich	1022·4	E	1	zo	25
Rome	1015·9	–	0	b	48

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

Stations	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Night mm.
Paris	1021·5	–	0	zo	27	37	27	0·0	0·0
Brussels						34		0·0	
Berlin	1026·8	SSW	2	zo	25	30	25	Tr.	0·0
Zürich	1026·8	WSW	1	o	25	25	23	0·0	0·0
Rome	1021·2	NE	3	b	36	*	*	0·0	0·0

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.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 4th February, 1939
No. 28198.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1025.4	+2	-	0	F	33	97	1	-	-	-	10	10	<150
	Croydon	1025.1	-2	-	0	bF	34	97	1	-	-	-	0	0	-
	S. Farnborough	1025.4	-6	N	1	f	31	97	2	-	-	-	10	10	<150
	Boscombe Down	1025.2	-2	E'S	1	f	35	92	3	-	-	-	10	10	<150
	Calshot (Sth'ton.)	1024.9	+2	N'E	1	f-	36	97	2	-	-	-	0	0	-
	Lympne	1026.0	+2	SSE	2	zo	44	65	5	-	-	1	0	Tr	-
	Manston	1025.7	+2	SSE	1	m	44	75	4	-	-	5	0	1	-
2	Shoeburyness	1025.8	+12	-	0	F-	34	97	1	-	-	-	10	10	<150
	Felixstowe	1026.2	+6	SE	2	m	42	75	4	-	-	-	0	0	-
	Gorleston	1025.6	+2	SWW	1	m	35	86	4	5	-	-	10	10	2500
	Mildenhall	1025.9	+2	S	2	m	39	92	4	5	-	-	10	10	800
	Cranwell	1025.2	+6	SSW	2	m	30	97	4	5	-	-	10	10	220
3	Birmingham	1024.7	+2	S	2	of	31	97	3	5	-	-	10	10	800
	Upper Heyford	1025.8	+2	-	0	f	32	97	2	-	-	-	10	10	<150
4	Ross-on-Wye	1024.6	0	SW	1	m	38	85	4	5	-	-	10	10	800
5	Hartland Point	1023.7	+8	SSE	3	c	40	85	6	5	-	-	9+	9+	1500
	Bristol	1024.9	+2	E'S	1	of+	35	92	3	6	-	-	10	10	1500
	Portland Bill	1024.0	+10	SSW	3	c	42	85	7	5	-	-	10	10	2500
	Plymouth	1024.0	+10	S	2	zo	43	75	6	5	-	-	9+	9+	2500
	The Lizard	1023.9	+12	SW'S	3	c	43	92	7	8	2	-	9	10	1500
	Scilly (St. Mary's)	1022.2	+2	SSW	3	c	45	92	6	8	6	4	2-3	7-8	2500
	Guernsey	1023.8	+2	ESE	1	zo	41	85	5	1	-	-	4-6	4-6	2500
6	Pembroke	1023.2	+2	SSW	4	c	41	85	6	6	-	-	10	10	1500
7	Holyhead	1022.5	0	S'W	4	c	37	85	5	5	-	8	9+	10	1500
	Chester (Sealand)	1024.0	+6	SE	3	zo	30	92	5	-	1	-	0	7-8	-
8	Manchester	1024.6	+6	SSE	3	f	29	97	3	5	-	-	10	10	450
10	Spurn Head	1025.1	+4	SWW	3	m	31	97	4	5	-	-	10	10	800
	Catterick	1022.9	-6	S'E	3	bcf	26	97	3	9	9	1	0	2-3	-
	Tynemouth	1021.6	-2	W	2	bcf	35	75	8	6	3	8	2-3	4-6	1500
11	St. Abbs Head	1019.8	0	SW	4	c	36	85	5	4	1	-	4-6	9	2500
	Leuchars	1019.2	-8	WSW	4	m	37	85	4	5	-	6	4-6	10	800
12	Renfrew (Abbots I.)	1020.3	-6	S'W	2	m	40	85	4	5	-	-	10	10	1600
	Eskdalemuir	1021.9	-4	SSW	2	f	32	97	3	5	-	-	10	10	<150
	Point of Ayre	1021.9	+2	SW	3	c	42	85	6	5	6	[illegible]	7-8	10	800
13A	Tiree	1015.4	-4	SSE	5	c	42	97	6	5	-	-	10	10	1500
13B	Stornoway	1011.9	-28	S	8	c	43	85	5	5	2	-	7-8	10	1500
15	Dalwhinnie	*	-12	SW	5	c	36	75	6	-	-	7	0	10	-
	Aberdeen	1015.7	-8	WSW	1	m	43	55	4	-	-	6	0	4-6	-
	Wick	1013.9	+2	SW	3	c	41	75	6	5	7	9	4-6	9+	1500
16	Lerwick	1013.0	-4	SW	3	c	45	85	8	5	9	1	4-6	7-8	1500
17	Blacksod Point	1013.2	-10	S	7	cq	48	92	7	8	-	-	10	10	800
18	Malin Head	1015.2	-18	S	5	zo	42	85	5	8	-	7	4-6	9	1500
	Aldergrove	1019.7	-2	SWS	3	zo	40	85	5	-	-	7	0	10	-
19	Birr Castle	1018.8	+4	S	2	c	45	85	8	5	1	-	7-8	10	2500
20	Valentia Obsy. †	1017.5	+4	SSE	6	c	49	75	8	5	-	-	10	10	1500
	Roches Point	1020.8	+10	S'W	4	c	46	85	7	5	1	-	7-8	9+	1500

OBSERVATIONS at 18h. G.M.T. 3rd February — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 3rd (37)	Weather 13h.–18h. 3rd (38)	Weather 18h. 3rd to 1h. 4th (39)	Weather 1h.–7h. 4th (40)
London (Kew)	1026.3	+8	NW	1	F+	33	92	1	-	-	-	10	10	<150	1	*	ofFxF	offFx	oFFffx	ofxcm
Croydon	1026.1	0	SE'S	2	F	31	97	0	-	-	-	10	10	<150	1	*	oFFe	boFF	cFFx	ofxidomo
S. Farnborough	1026.8	+10	-	0	F-	32	97	1	-	-	-	10	10	<150	1	*	oFxf	ofoF	oFfc	cmoido
Boscombe Down	1026.2	+8	SE	2	f	36	97	3	-	-	-	10	10	<150	1	*	fxf	f	femcmo	cmoc
Calshot (Sth'ton.)	1026.0	+10	N'W	1	cf	39	92	2	5	-	-	9	9	1500	1	1	oFFbF	bffcff	bcffxcff	cffoido
Lympne	1026.8	+10	SE	2	m	37	85	4	-	-	1	0	Tr	-	1	§ 1	bmzo	bzobm	bmmox	bmxffe
Manston	1026.1	+4	S'E	2	m	37	75	4	-	-	6	0	4-6	-	1	*	bfmbcm	bcbbcm	bcmxbmo	bmoffe
Shoeburyness	1026.2	+8	-	0	F+	30	97	1	-	-	-	10	10	<150	1	*	FFeo	FeFeo	ff	Firomo
Felixstowe	1026.1	0	SE	1	bf+	34	97	3	-	-	5	0	Tr	-	0	1	cmcmo	bmbfx	bcm	bcmcmo
Gorleston	1025.9	0	S	1	F+	33	92	1	-	-	-	10	10	<150	0	1	czoffcm	cbcmiff	oFFecm	cmozo
Mildenhall	1026.1	+6	SW'W	1	off+	33	97	3	5	-	-	10	10	800	0	*	cmocmom	om	offm	offomo
Cranwell	1024.7	-2	S	2	m	35	97	4	5	-	-	10	10	450	1	*	omxffm	om	omcmo	cmox
Birmingham	1024.3	+4	S	1	m	34	97	4	5	-	-	10	10	800	3	*	f	fmo	oc	c.
Upper Heyford	1025.9	+4	-	0	f	34	92	3	-	-	-	10	10	<150	1	*	of	of	ofcmmo	cmo
Ross-on-Wye	1024.5	0	SSW	2	m	37	75	4	5	-	-	10	10	800	1	*	ofom	om	omcmo	bccmo
Hartland Point	1024.1	+4	S	3	c	40	85	7	5	-	-	9+	9+	2500	0	1	bccoc	c	c	c
Bristol	1025.4	+6	S	1	zo	38	85	5	5	-	-	9+	9+	1500	1	*	czoffcm	ofmcmo	cmo	cmo
Portland Bill	1025.3	+10	S	3	c	43	92	7	5	2	-	4-6	10	2500	1	3	mc	c	c	c
Plymouth	1024.9	+8	S	2	zo	43	85	6	5	-	-	10	10	1500	1	1	cmoczo	czocomo	omocmo	omocmo
The Lizard	1024.4	+8	SSW	3	c	43	92	7	5	2	-	9	10	1500	1	2	c	c	c	c
Scilly (St. Mary's)	1023.5	+10	S'W	3	c	44	92	6	5	-	-	10	10	2500	1	2	c	c	c	c
Guernsey	1025.6	+10	-	0	zo	42	92	5	5	2	-	7-8	10	2500	1	2	ozcbc	bczc	czo	ocbc
Pembroke	1024.2	+2	SWW	4	c	43	75	6	5	2	-	7-8	10	1500	1	2	moc	cmo	cmo	c
Holyhead	1022.0	+6	S	5	c	40	85	6	5	-	-	9+	9+	1500	0	2	bxmoc	moc	moc	c
Chester (Sealand)	1023.4	-2	SE	2	m	31	86	4	-	-	8	0	4-6	-	3	*	ofmcx	cxbcmo ⊕	bcmx	bccmmx
Manchester	1023.9	-6	E'S	2	m	30	92	4	6	-	-	9	9	1500	3	*	cmxoffx	ofmxcmx	cmffx	cmxffx
Spurn Head	1023.6	-4	SW	4	o	35	92	6	5	-	-	10	10	1500	0	3	ffjfm	cmo	omcmo	cmo
Catterick	1022.3	-2	SSE	2	f	28	97	2	-	-	-	10	10	<150	3	*	obcfx	bcofx	fbcmx	bxcmo
Tynemouth	1021.0	-4	SW	2	of	33	85	3	5	-	-	10	10	1500	3	1	bcff	bcff	ocffm	oiroo
St. Abbs Head	1018.2	-10	SW	4	c	35	85	5	4	1	-	4-6	7-8	2500	3	2	cmo	cmo	qmo	ocmo
Leuchars	1018.3	-2	SW	1	m	36	85	4	5	2	-	7-8	10	800	3	*	bccmx ⊕	cm	cmromo	cmoc
Renfrew (Abbots I.)	1019.3	-4	S'W	3	zo	42	85	5	5	-	-	10	10	1500	1	*	fmxocmo	cmmo	cmoro	cmrodod
Eskdalemuir	1021.6	0	S'E	2	f	32	97	3	5	-	-	10	10	<150	3	*	oxff	oxff	off	offidom
Point of Ayre	1021.3	-2	SSW	4	c	35	92	6	5	1	-	7-8	10	800	0	2	cz	cz	c	c
Tiree	1013.4	-10	SSE	6	rr	42	97	6	-	2	-	10	10	1500	1	4	clozc	ozodro	orrro	oid
Stornoway	1010.2	-16	S	7	ddo	43	92	6	5	2	-	7-8	10	1500	1	4	cmo	gprdodo	croro	croroc
Dalwhinnie	*	-2	S	5	c	37	85	5	5	-	-	10	10	1500	7	*	c	c	*	cir
Aberdeen	1014.9	-2	SWW	3	c	40	65	5	-	7	7	0	10	-	3	1	bffy	bcyzo	czorr	roczo
Wick	1012.5	-4	SSW	3	c/pr	41	75	6	5	2	-	7-8	10	800	1	1	cmo	promo	ropro	c
Lerwick	1010.7	-12	SW	3	c	44	85	7	5	7	-	7-8	10	1500	1	*	c	c	croro	ciroq
Blacksod Point	1012.3	-6	S	7	cq	48	92	7	9	-	-	10	10	800	1	5	ircq	iroq	idrq	ira
Malin Head	1014.4	-6	S'W	5	zo	43	85	5	8	2	-	4-6	10	1500	0	3	zo	cirozozc	cidoc	c
Aldergrove	1018.7	-2	SSW	3	zo	41	85	5	5	-	-	10	10	1500	1	*	cmoxcmo	cmoomo	omdrocmo	cmo
Birr Castle	1018.5	0	S	1	c	44	85	8	5	1	-	7-8	10	2500	1	*	bcc	c	c	c
Valentia Obsy. †	1017.2	-2	S'E	5	c	50	85	7	5	-	-	10	10	1500	0	3	czoc	cidoc	croroc	c
Roches Point	1020.5	+2	SSW	4	c	46	92	7	6	1	-	7-8	10	1500	1	4	c	c	c	cir

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

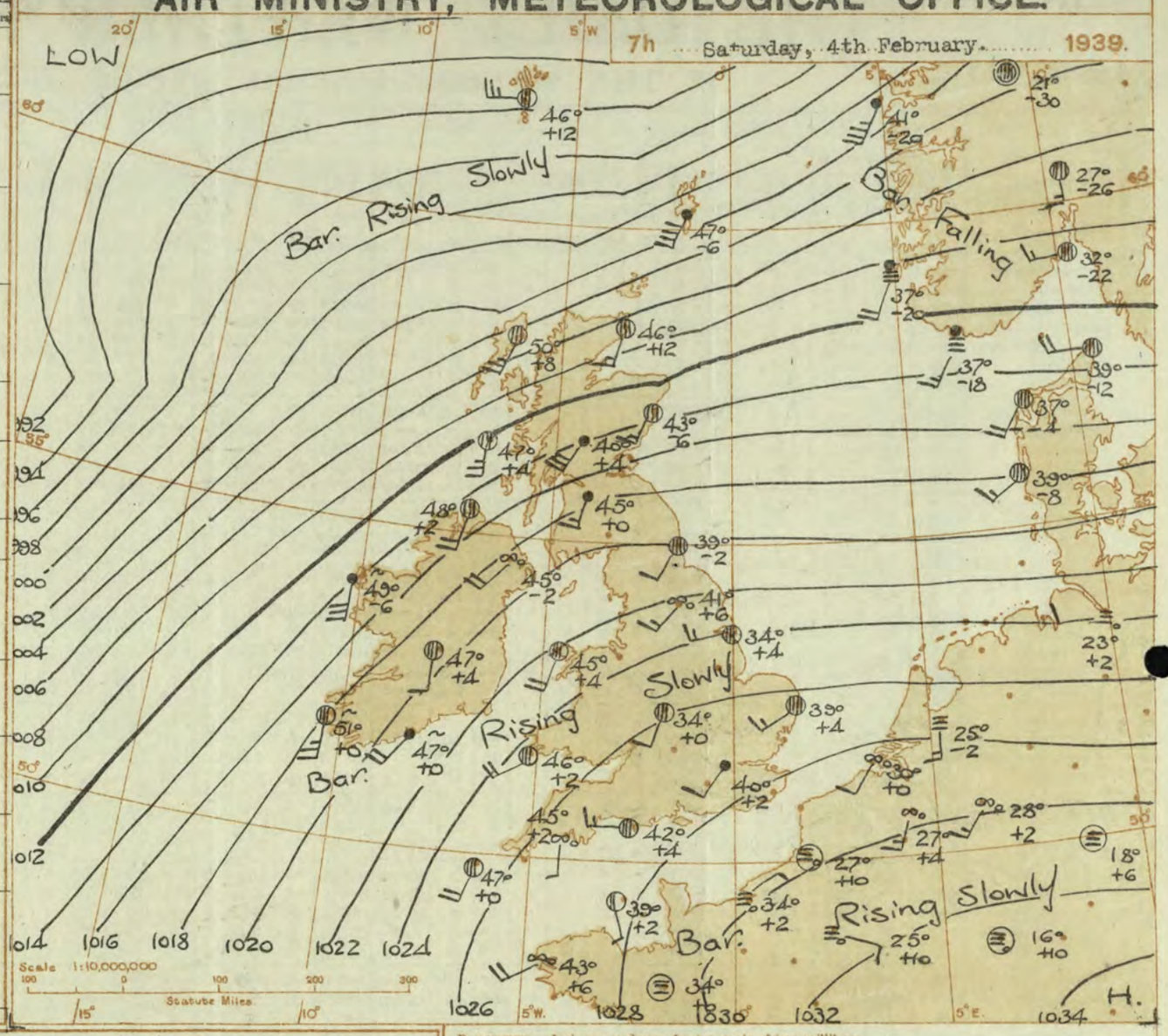
§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 3rd February 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 2nd to 9h. 3rd	Temperature. (°F.) Max. 9h.—17h. 3rd	Rainfall. (mm.) Night. 17h. 2nd to 9h. 3rd	Rainfall. (mm.) Day. 9h.—17h. 3rd	Sunshine (hrs) Sunrise to Sunset. 3rd
1	Tunbridge W.	mbb	b	20	46	-	-	6·3
	Bournemouth	moc	co	28	43	-	-	0·4
	Ventnor ...	xobz	bbcz	34	49	-	-	6·1
	Southsea ...	bf	bcbf	31	46	-	-	4·7
	Bognor Regis	b	bbc	29	46	-	-	6·0
	Littlehampton	b	bbc	28	46	-	-	5·7
	Worthing ...	b	b	30	46	-	-	6·9
	Brighton ...	bc	bc	30	46	-	-	6·0
	Eastbourne† ...	fb	b	28	48	-	-	6·9
	Hastings† ...	bxb	b	31	47	0·3	-	7·7
	Folkestone ..	mbb	bbcm	31	46	-	-	6·9
	Dover ...	fb	bbc	26	46	Trace	Trace	5·8
	Deal	ffb	b	25	42	-	-	6·0
	Ramsgate ...	mbc	bc	30	43	-	-	6·9
	Margate ...	bcfc	bc	32	44	-	-	4·5
2	Southend ...	ofc	ofc	28	38	Trace	Trace	0·0
	Clacton-on-Sea	cbcm	bcmfm	32	38	-	-	3·3
	Dovercourt ...	xbc	bc	32	40	-	-	5·0
	Lowestoft ...	cbz	bbzc	30	40	-	-	3·1
	Skegness ...	ffm	mff	26	35	-	-	0·0
	Mablethorpe...	oxmo	om	22	33	-	-	0·0
	Cleethorpes ...	cbc	c	25	35	-	-	0·0
3	Leamington S.	om	om	27	36	-	-	0·0
4	Cheltenham†	omxc	om	26	38	-	-	0·0
5	Bath	c	c	29	39	-	-	0·0
	Weymouth ...	moc	c	33	44	-	-	0·0
	Jersey ...	czbcb	bcz	33	46	-	-	5·5
	Torquay ...	cbc	co	32	44	-	-	0·2
	Falmouth	c	c	39	45	-	-	0·2
	Penzance ...	c	c	39	46	-	-	0·0
	St. Ives ...							
	Bude... ...	xcm	co	27	43	-	-	0·9
	Ilfracombe ...	cbcz	bcc	26	42	-	-	0·8
6	Aberystwyth	xzc	cz	23	38	-	-	0·4
7	Llandudno ...	xbcc	cbcz	22	39	-	-	1·3
	Colwyn Bay...	xbccb	cbcc	26	39	-	-	1·8
	Rhyl	xbcm	bcbm	22	38	-	-	2·4
8	Wallasey ...	xfbcc	bcc	26	32	-	-	0·0
	Southport ...	ofmcm	cmbcz	25	31	-	-	0·0
	Blackpool ...	of	omcm	24	30	-	-	0·0
	Morecambe ...	xfo	fx	24	35	-	-	0·0
9	Ilkley... ...	ofo	om	16	30	-	-	0·0
	Harrogate ...	cbcf	cbcf	20	30	-	-	0·0
10	Berwick-on-T.	cmm	cm	23	37	-	-	0·6
11	Dunbar ...	cm	om	26	38	-	-	0·3
12	Troon... ...	oco	oco	28	42	-	-	0·0
	Douglas ...	cz,m	of	33	40	-	-	0·0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 4th February, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England	Freshening southwest winds; mainly fair apart from occasional local drizzle, becoming rather mild.
6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Southwest winds becoming strong, mainly fair apart from local drizzle; rather mild.
10 N.E. England 11 S.E. Scotland	Southwest winds becoming strong, mainly fair, becoming mild.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Southwest to south winds, a gale at times, mainly cloudy, dull at times with periods of rain or drizzle; rather mild.
15 N. E. Scotland	As 10 - 11.
16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland	As 12 - 14.
19 S. E. Ireland	As 6 - 9
20 S. W. Ireland	As 12 - 14.

GENERAL INFERENCE.

Pressure is high over Germany and France and depressions are moving northeast off our Western Seaboard. It will be mainly cloudy with rain or drizzle in the North and West. It will become milder.

FURTHER OUTLOOK.

Rather mild. Unsettled in Northwest; mainly fair in Southeast.

Time of Issue of Gale Warning.

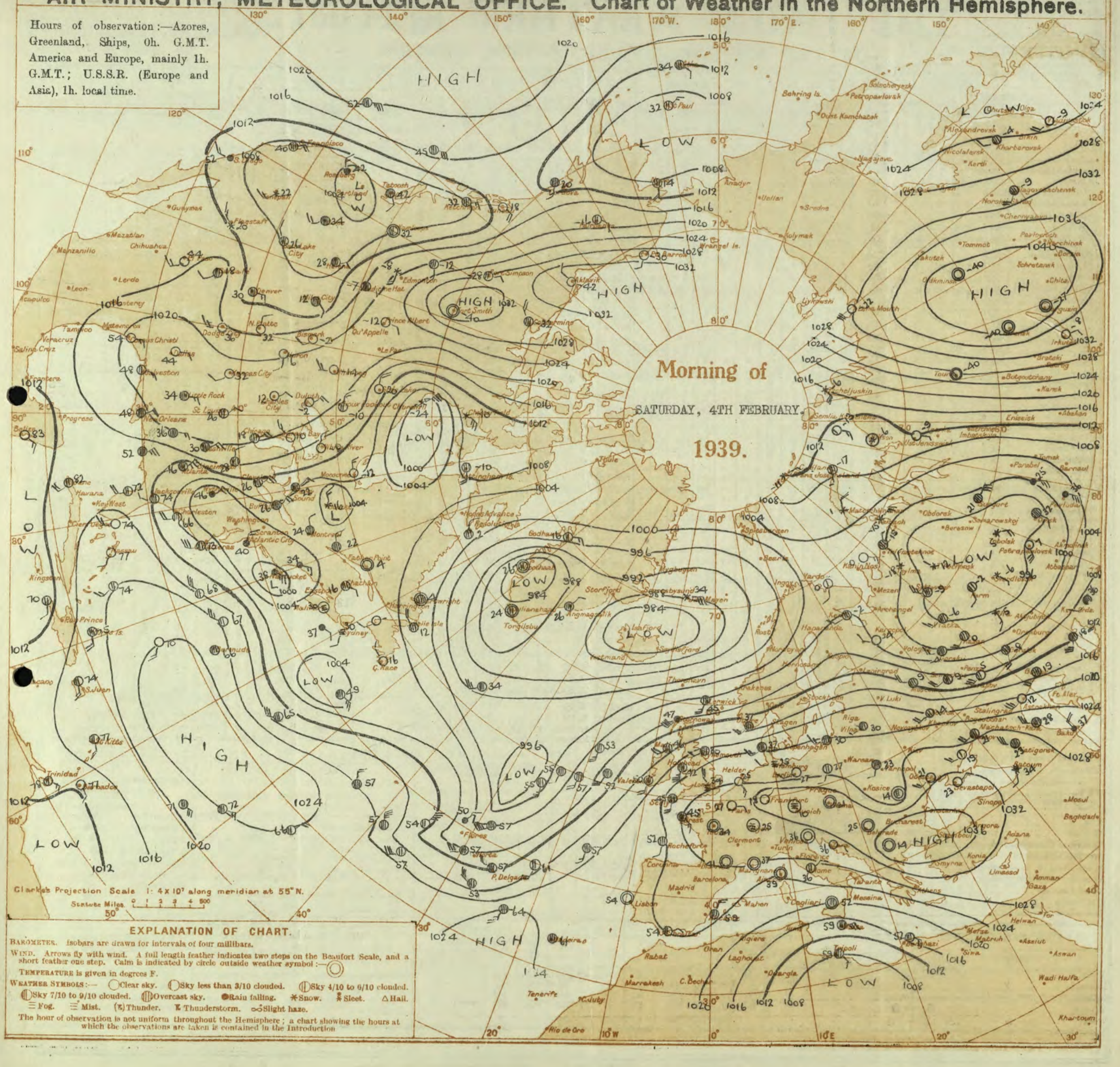
South cone hoisted at 0900 on 4th in districts 11, 12, 13A, 13B, 15, 16, 17, 18 and part of 20.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 4th February, 1939.

No. 28198.

BK.6

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1027·4	−2	SW	2	f	34	97	3	–	–	–	10	10	<150
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1028·2	−2	SW'S	2	Zo	38	92	5	–	–	–	0	0	—
	Manston ...	154	1027·6	−4	SSW	3	Zo	36	92	5	–	–	–	0	0	—
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1028·3	−2	SW'S	2	m/f	33	97	4	5	–	–	9+	9+	1500
	Mildenhall ...	19	1026·0	−6	SW'W	3	Zo	39	85	5	5	–	–	10	10	1500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1025·6	+4	SW	3	c	41	85	7	5	–	–	9+	9+	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1026·4	+4	SSW	3	c	46	92	7	5	7	–	4-6	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1026·2	+4	SSW	4	c	43	97	7	5	2	–	9	10	1500
	Scilly (St. Mary's)	163	1025·1	+4	S	4	c	45	92	7	5	–	–	10	10	2500
	Guernsey ..	175	1027·6	+10	S'W	1	c	40	85	6	5	–	–	10	10	2500
6	Pembroke ...	142	1025·1	+4	SW'W	4	c	44	75	6	5	–	–	10	10	1500
7	Holyhead ...	26	1022·3	+2	S	5	c	42	85	7	5	–	–	10	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1023·4	0	SW'W	4	c	35	92	5	5	1	–	7-8	9	1500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1021·0	−4	WSW	2	c	30	80	5	5	–	–	7-8	7-8	1500
11	St Abbs Head ..	280	1016·2	−20	SW	7	mg	38	85	4	5	–	–	10	10	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1021·1	+2	SW'S	3	c	44	85	7	4	–	7	4-6	10	800
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1007·3	−4	SSW	8	ro	47	92	6	5	2	–	7-8	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1009·1	−12	SW	4	c	43	85	7	8	7	9	7-8	9+	1500
16	Lerwick ...	156	1006·3	−24	SSW	5	c	45	85	7	8	2	–	7-8	9+	1500
17	Blacksod Point	18	1014·5	+4	S	6	dd	49	97	7	6	–	–	10	10	<150
18	Malin Head ...	84	1014·5	+12	SW	4	c	46	92	7	4	7	–	4-6	7-8	2500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1018·2	+2	S	4	o	50	97	7	5	–	–	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	1027·6	+4	SW'S	2	zo	39	97	5	5	—	–	10	10	1500	1	*
Croydon ...	1027·6	+2	SW'S	2	ido	40	92	5	5	—	–	10	10	450	1	*
S. Farnborough	1027·7	+6	SW'W	3	ido	40	97	6	5	–	–	10	10	800	1	*
Boscombe Down	1027·7	+2	SW'W	3	c	41	92	7	5	–	–	10	10	1500	1	*
Calshot (Sthmtn.)	1027·8	0	SW'S	2	o/d	42	92	6	5	–	–	10	10	800	1	2
Lympne ...	1028·6	+6	WSW	3	m/f	40	92	4	5	—	–	10	10	800	1	§1
Manston ...	1028·1	+6	SW	2	r+	34	97	2	–	—	–	10	10	<150	1	*
Shoeburyness ...	1027·3	+2	SSW	2	m	39	97	4	5	–	–	10	10	1500	1	*
Felixstowe ...	1027·1	0	SW	2	m	38	97	4	5	—	–	10	10	800	0	1
Gorleston ...	1026·3	+4	WSW	3	o	39	92	5	5	—	–	10	10	1500	0	2
Mildenhall ...	1026·6	+6	WSW	3	Zo	40	75	6	5	—	–	10	10	1500	0	*
Cranwell ...	1024·9	+8	SSW	3	Zo	34	85	6	5	7	8	1	9+	4000	1	*
Birmingham ...	1026·0	0	SSW	2	c	34	92	6	–	7	–	0	9+	—	3	*
Upper Heyford	1027·0	+10	WSW	3	Zo	38	85	6	5	–	–	10	10	1500	1	*
Ross-on-Wye	1025·8	+4	SW	3	Zo	39	85	6	5	–	–	10	10	1500	1	*
Hartland Point	1025·4	+4	WSW	4	c	43	88	7	5	–	–	9+	9+	1500	0	3
Bristol ...	1027·5	+2	WSW	2	Zo	39	85	6	5	–	–	9+	9+	1500	1	*
Portland Bill ...	1026·9	+4	W	3	c	42	85	7	5	–	–	10	10	2500	1	3
Plymouth ...	1026·9	+2	S	1	Zo	45	85	6	5	–	–	9+	9+	1500	0	1
The Lizard ...	1026·3	+4	SW	3	c	47	92	7	8	2	–	7-8	9+	1500	1	2
Scilly (St. Mary's)	1024·8	0	S'W	4	c	47	85	8	5	3	5	2-3	7-8	2500	1	3
Guernsey ..	1027·7	+2	SSE	1	bc	39	92	7	1	1	–	2-3	4-6	2500	1	1
Pembroke ...	1024·5	+2	WSW	4	c	46	75	7	5	–	–	9+	9+	1500	1	2
Holyhead ...	1022·2	+4	S'W	4	c	45	85	7	5	2	–	7-8	10	1500	0	2
Chester (Sealand)	1024·0	+6	SSE	2	Zo	41	75	6	5	1	–	7-8	10	4000	3	*
Manchester ...	1024·7	+4	—	0	cf	39	97	3	5	3	–	7-8	9+	2500	3	*
Spurn Head ...	1023·7	+4	W'S	3	cjf	34	97	5	5	–	7	4-6	10	2500	0	2
Catterick ...	1022·0	+6	SW'W	3	Zo	41	85	5	5	—	–	9	9	1500	3	*
Tynemouth ...	1019·7	−2	SW	2	o	39	85	6	5	—	–	10	10	1500	1	2
St Abbs Head ..	1015·3	−4	SW	7	cq	41	85	5	4	6	–	7-8	9+	1500	0	3
Leuchars ...	1016·5	+6	W	3	c	44	85	8	5	2	–	9	10	1500	1	*
Renfrew (Abbots I.)	1017·6	0	SSW	3	dd	45	92	6	5	–	–	10	10	1500	1	*
Eskdalemuir ...	1020·8	+6	S'W	3	ido	38	97	4	5	–	–	10	10	<150	1	*
Point of Ayre...	1020·5	−2	SW	3	c	47	85	7	5	2	–	7-8	10	1500	0	2
Tiree	1012·6	+4	S	5	c	47	97	6	5	–	–	10	10	1500	1	–
Stornoway ...	1008·3	+8	SSW	5	c	50	92	7	5	2	–	7-8	10	1500	1	3
Dalwhinnie ...	*	+4	SW	6	ir	40	92	5	4	1	–	4-6	10	1500	4	*
Aberdeen ...	1013·1	−6	SW'S	3	c	43	85	6	5	–	–	9	9	2500	1	1
Wick ...	1009·5	+12	SSW	3	c	46	92	8	5	7	8	7-8	9+	1500	1	1
Lerwick ...	1003·3	−6	SW	8	ir	47	97	7	6	2	–	4-6	10	800	1	*
Blacksod Point	1014·1	−6	S	6	rr	49	92	7	6	—	–	10	10	<150	1	4
Malin Head ...	1014·6	+2	S'W	4	c	48	92	7	5	8	–	4-6	9	4000	0	3
Aldergrove ...	1018·3	−2	SW'W	4	zo	45	85	6	5	—	–	10	10	4000	1	*
Birr Castle ...	1018·0	+4	S	2	c	47	92	8	5	1	–	7-8	10	2500	1	*
Valentia Obsy. †	1018·2	0	S	5	c	51	97	6	5	—	–	10	10	450	1	4
Roches Point	1021·3	0	SW	4	ir	47	97	8	6	2	–	4-6	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 3rd hrs. (36)
London (Kew)	39	31	21	–	Tr	0·0
Croydon ...	36	30	27	–	Tr	0·0
S. Farnborough	33	31	29	0·1	Tr	0·0
Boscombe Down	36	35	33	–	–	0·0
Calshot (Sthmtn.)	40	33	28	–	Tr	2·9
Lympne ...	44	36	25	–	0·1	7·2
Manston ...	46	29	23	–	0·3	6·4
Shoeburyness ...	35	30	30	Tr	0·2	0·0
Felixstowe ...	44	29	21	–	–	4·8
Gorleston ...	39	30	29	–	–	1·4
Mildenhall ...	36	33	32	–	–	0·0
Cranwell ...	35	33	29	–	–	0·0
Birmingham ...	34	32	29	–	–	0·0
Upper Heyford	34	33	33	–	–	*
Ross-on-Wye	(38)	36	31	–	–	0·0
Hartland Point	41	39	37	–	–	0·4
Bristol ...	38	36	33	–	–	0·0
Portland Bill ...	44	36	*	–	–	*
Plymouth ...	43	42	41	–	–	0·2
The Lizard ...	44	43	*	–	–	0·0
Scilly (St. Mary's)	46	43	*	–	–	0·7
Guernsey ..	44	36	28	–	–	1·8
Pembroke ...	43	39	*	–	–	0·0
Holyhead ...	40	40	39	–	–	0·0
Chester (Sealand)	33	28	24	–	–	0·7
Manchester ...	32	24	17	–	–	0·0
Spurn Head ...	35	33	*	–	–	0·0
Catterick ...	28	25	22	–	–	0·0
Tynemouth ...	37	29	26	–	0·1	0·3
St Abbs Head ..	37	34	*	–	–	*
Leuchars ...	38	35	34	–	0·1	0·0
Renfrew (Abbots I.)	42	41	38	–	0·5	0·0
Eskdalemuir ...	33	32	31	0·1	0·2	0·0
Point of Ayre...	42	38	*	–	–	0·0
Tiree	42	41	40	1	6	0·0
Stornoway ...	44	43	*	Tr	2	0·0
Dalwhinnie ...	38	36	33	–	2	0·1
Aberdeen ...	43	38	34	–	5	1·1
Wick ...	42	40	*	Tr	1	*
Lerwick ...	46	42	*	–	2	1·0
Blacksod Point	50	40	*	0·5	7	*
Malin Head ...	44	42	*	0·3	Tr	0·0
Aldergrove ...	41	40	38	–	Tr	0·0
Birr Castle ...	47	43	38	–	–	0·1
Valentia Obsy. †	50	49	47	Tr	3	0·0
Roches Point	47	46	*	–	0·6	*

LONDON OBSERVATIONS

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

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	ofFxF	ofFx	oFFfxm	34	31	21	–	Tr	0·0	*	*	5
Croydon	217	oFFe	boFF	cFFxidm	36	30	27	–	Tr	0·0	*	*	6
Greenwich (Royal Observatory)...	149	FeFe	FeFe	FeFeck	35	31	25	Tr	Tr.	0·0	96	88	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	32	27	38	–	–	0·0	96	90	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	41	31	26	–	–	0·0	100	91	*
Camden Square	110	o	of	*	33	32	27	–	–	*	*	91	*
Kensington	80	F	f	*	34	31	28	–	0·3	0·0	98	94	*
Hampstead Observatory	450	oAf	of	o	38	33	29	–	–	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.
2·6	17-18h 3rd	<0·3	5-7 4th

Kew Observatory. Max.	Time.	Min.	Time.
1·2	15h 3rd	0·1	5h 4th

FOREIGN OBSERVATIONS.

18h. G.M.T. 3rd February. 7h. G.M.T. 4th February.

Stations.	18h. Barom. mb.	18h. Wind. Direc.	18h. Wind. Force.	18h. Weather.	18h. Temp. °F.	7h. Barom. mb.	7h. Wind. Direc.	7h. Wind. Force.	7h. Weather.	7h. Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Paris	1027·7	NE	1	zo	34	1031·1	ESE	2	m	25	39	23	—	—
Brussels	1027·5	ESE	2	b	30	1029·0	SSW	3	zo	27	45	27	—	—
Berlin	1026·8	—	0	m	30	1026·0	SW	2	m	23	34	23	—	—
Zurich	1029·6	WSW	1	m	27	1032·8	NW	4	f	23	32	21	—	Tr
Lyon						1026·3	NE	2	b	34	*	*		—

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 5th February, 1939.

No. 28199

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1028·5	0	SW	2	z₀	43	85	5	5	–	–	10	10	1500
	Croydon ...	1029·0	+2	SW'W	3	z₀	43	75	6	5	–	–	10	10	1500
	S. Farnborough	1028·8	–6	WSW	3	c	45	85	7	5	–	–	9+	9+	1500
	Boscombe Down	1028·6	–6	SW'W	3	c	45	85	7	5	2	–	7-8	10	1500
	Calshot (Sthmtn.)	1029·2	0	SSW	4	c	48	85	7	5	–	2	4-6	7-8	2500
	Lympne ...	1030·2	–2	WSW	3	z₀	41	92	6	5	2	–	9	10	800
	Manston ...	1029·4	–2	WSW	4	z₀	41	85	6	5	2	–	9+	10	800
2	Shoeburyness ...	1028·9	0	WSW	3	c	42	85	6	5	–	–	10	10	1500
	Felixstowe ...	1028·4	–2	SW	3	z₀	41	85	5	5	–	–	10	10	800
	Gorleston ...	1027·3	+4	W'S	4	c	42	75	6	5	–	–	9+	9+	2500
	Mildenhall ...	1027·5	–2	SW'W	5	z₀	43	75	6	5	–	–	10	10	1500
	Cranwell ...	1025·9	+2	SW'S	4	z₀	43	75	6	5	3	2	2-3	9	1500
3	Birmingham ...	1026·7	+4	SSW	2	z₀	42	75	5	5	–	–	10	10	2500
	Upper Heyford	1027·9	–2	WSW	3	c	42	85	7	5	–	–	10	10	1500
4	Ross-on-Wye	1026·4	+4	SW	3	c	46	75	6	5	–	2	7-8	9	2500
5	Hartland Point	1025·9	0	SW	4	c	48	75	8	5	–	–	9+	9+	1500
	Bristol ...	1028·2	–4	SW'S	3	c	45	75	7	5	–	–	10	10	1500
	Portland Bill ...	1028·0	+4	S	3	c	46	92	7	5	–	–	7-8	7-8	2500
	Plymouth ...	1027·6	0	S	3	c	47	85	7	5	–	–	9+	9+	4000
	The Lizard ...	1027·1	+8	SE	4	c	47	97	7	8	2	–	7-8	9+	1500
	Scilly (St. Mary's)	1025·5	–2	SSW	4	bc	51	85	8	5	3	–	2-3	4-6	2500
	Guernsey ...	1029·3	–2	SE'S	1	m	42	97	4	5	–	–	10	10	800
6	Pembroke ...	1025·6	+4	SW	3	c	47	85	7	5	–	–	9+	9+	1500
7	Holyhead ...	1022·8	–2	SSW	5	c	48	75	7	5	2	–	4-6	10	1500
	Chester (Sealand)	1024·8	–2	SSE	2	c	47	75	7	8	7	–	4-6	7-8	2500
8	Manchester ...	1025·2	–2	S	3	z₀	43	85	5	5	3	4	2-3	7-8	4000
10	Spurn Head ...	1024·2	+2	WSW	3	c	42	85	6	–	4	8	0	7-8	–
	Catterick ...	1021·8	–10	WSW	4	z₀	44	85	6	5	7	–	4-6	9+	1500
	Tynemouth ...	1019·9	–4	SW	3	cf	45	75	2	8	–	–	9+	9+	1500
11	St. Abbs Head ...	1016·2	0	SW	7	cq	44	92	7	8	6	–	4-6	9	1500
	Leuchars ...	1017·3	+2	SW	3	z₀	49	85	6	5	7	–	9	10	1500
12	Rentrew (Abbots I.)	1017·7	–6	SSW	4	z₀	48	85	6	5	7	1	9	9+	1500
	Eskdalemuir ...	1021·1	0	SW	4	d₀d₀	40	97	4	5	–	–	10	10	<150
	Point of Ayre ...	1020·5	–2	WS	6	c	49	75	7	5	–	–	9+	9+	1500
13A	Tiree	1013·7	0	SSW	4	o	48	97	7	5	–	–	10	10	1500
13B	Stornoway ...	1010·3	+6	SSW	5	c	50	92	7	5	7	–	4-6	9+	1500
15	Dalwhinnie ...	1016·2	0	S	5	c	43	97	6	4	2	–	4-6	9	1500
	Aberdeen ...	1014·0	0	–	0	cf+	45	92	3	–	7	–	0	9+	–
	Wick ...	1010·9	+2	SW	3	c	47	92	8	5	7	8	4-6	9	1500
16	Lerwick ...	1005·6	+12	SW	8	c	48	92	8	8	2	–	7-8	9+	800
17	Blacksod Point	1014·4	0	S	6	id	50	97	7	6	–	–	10	10	220
18	Malin Head ...	1015·3	+2	SW	4	c	49	92	7	5	–	–	9+	9+	1500
	Aldergrove ...	1019·0	–2	SWW	4	z₀	49	85	6	5	2	–	9+	10	1500
19	Birr Castle ...	1020·2	+6	S	3	c	49	92	8	5	–	–	10	10	2500
20	Valentia Obsy. †	1018·5	+2	S	5	z₀	51	97	6	5	–	–	10	10	450
	Roches Point	1021·9	+2	SW	4	c	48	92	8	5	7	–	7-8	10	800

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

District	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1028·5	+2	SSW	3	z₀	43	85	6	5	–	–	4-6	4-6	2500	1	*
	Croydon ...	1028·5	+2	SW	3	z₀	42	92	5	4	4	4	8	4-6	2500	1	*
	S. Farnborough	1028·8	+6	SW	3	c	41	85	7	5	–	–	9+	9+	1500	1	*
	Boscombe Down	1028·5	+4	SSW	3	z₀	42	92	5	5	–	–	10	10	800	1	*
	Calshot (Sthmtn.)	1028·9	+2	SE	3	c	42	92	6	5	–	–	10	10	1500	1	2
	Lympne ...	1030·2	+6	SW'W	3	z₀	40	97	6	5	–	–	10	10	800	1	§ 2
	Manston ...	1029·2	+2	SWS	3	z₀	39	85	6	5	–	–	9	9	1500	1	*
2	Shoeburyness ...	1028·5	+2	SW	2	bc	41	85	6	5	7	6	2-3	4-6	2500	1	*
	Felixstowe ...	1028·4	+2	WS	3	z₀	43	75	6	5	–	–	9+	9+	800	0	1
	Gorleston ...	1027·2	+2	WS	3	c	41	85	6	5	–	–	4-6	7-8	2500	0	2
	Mildenhall ...	1027·2	+2	SWS	3	z₀	42	85	6	5	7	–	2-3	7-8	1500	0	*
	Cranwell ...	1025·6	+2	SSW	2	z₀	39	85	6	5	7	–	4-6	9+	1500	1	*
3	Birmingham ...	1026·0	+2	SSW	2	c	41	75	7	–	7	–	0	9	–	1	*
	Upper Heyford	1027·4	+2	SW	3	z₀	43	85	6	5	–	2	9+	9+	1500	1	*
4	Ross-on-Wye	1025·8	0	S	2	c	45	75	6	5	7	–	9	9+	1500	1	*
5	Hartland Point	1025·5	0	S	3	c	45	97	7	5	–	–	9	9	1500	0	3
	Bristol ...	1027·2	–2	SSW	3	c	43	85	6	5	–	–	9+	9+	1500	1	*
	Portland Bill ...	1028·4	+4	SW	3	c	45	92	7	5	–	–	7-8	7-8	2500	1	3
	Plymouth ...	1026·7	–2	S	3	z₀	45	97	5	5	–	–	10	10	800	1	2
	The Lizard ...	1025·9	0	SW	4	c	47	97	7	8	2	–	7-8	9+	1500	1	2
	Scilly (St. Mary's)	1024·3	–2	SW	4	c	48	85	8	5	–	–	10	10	2500	1	3
	Guernsey ...	1028·4	0	SSE	2	b	45	85	6	–	–	–	0	0	–	1	2
6	Pembroke ...	1024·9	0	SWS	3	c	46	92	7	5	–	–	9+	9+	1500	1	2
7	Holyhead ...	1021·7	–10	SSW	5	c	46	85	7	5	7	–	7-8	9	2500	0	2
	Chester (Sealand)	1024·5	+2	S	2	c	45	75	7	5	3	1	4-6	7-8	1500	1	*
8	Manchester ...	1024·7	+2	S	1	z₀	40	85	5	5	9	1	Tr	7-8	5700	1	*
10	Spurn Head ...	1024·2	+2	SW	3	c	41	85	6	5	2	–	7-8	[illegible]	2500	0	2
	Catterick ...	1021·8	–2	WSW	5	z₀	43	75	6	5	7	–	4-6	9+	1500	1	*
	Tynemouth ...	1020·1	+4	WSW	3	c	44	85	6	8	–	–	9+	9+	1500	1	1
11	St. Abbs Head ...	1016·6	0	SW	6	cq	44	92	8	9	2	–	7-8	9+	1500	0	4
	Leuchars ...	1017·1	+2	WSW	4	z₀	47	92	6	6	2	–	9	10	1500	1	*
12	Rentrew (Abbots I.)	1017·4	–2	S	3	id₀	48	92	6	5	–	–	10	10	1500	1	*
	Eskdalemuir ...	1020·3	+2	SSW	3	df	40	97	2	5	–	–	10	10	<150	1	*
	Point of Ayre ...	1020·3	+2	WSW	6	c	47	85	7	5	7	–	4-6	9+	1500	0	3
13A	Tiree	1012·9	–4	S	5	o/d	48	97	7	5	–	–	10	10	1500	1	3
13B	Stornoway ...	1009·5	–2	SSW	6	c/pr	48	92	6	8	7	–	7-8	9+	1500	1	3
15	Dalwhinnie ...	1015·7	+4	SE	4	ir	43	97	5	4	2	–	4-6	10	1500	1	*
	Aberdeen ...	1014·4	–2	WSW	3	c	49	85	7	–	3	–	0	9	–	1	1
	Wick ...	1011·3	+8	SW	4	c	48	92	8	5	7	8	4-6	9+	1500	1	2
16	Lerwick ...	1007·6	+6	SW	8	c	47	92	7	8	7	–	7-8	10	800	1	*
17	Blacksod Point	1013·0	–10	S	6	c	51	97	7	8	–	–	10	10	220	1	4
18	Malin Head ...	1014·4	–10	SW	5	c	49	85	7	5	6	–	4-6	7-8	1500	0	3
	Aldergrove ...	1018·5	–2	SWW	4	z₀	48	85	6	5	2	–	7-8	10	1500	1	*
19	Birr Castle ...	1018·7	–4	S	2	c	49	92	8	5	1	–	7-8	10	2500	1	*
20	Valentia Obsy. †	1017·0	–6	S	5	z₀	51	92	6	5	–	–	10	10	450	1	3
	Roches Point	1020·5	–4	S	4	c	48	92	7	5	–	–	9+	9+	800	1	4

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 4th (37)	13h.—18h. 4th (38)	18h.—1h. 4th/5th (39)	1h.—7h. 5th (40)
1	London (Kew)	cm₀	cbcm₀	bccm₀	cm₀bffx
	Croydon ...	oid₀cm₀	czbcm₀	cm₀bw	bjfmbw
	S. Farnborough	oid₀c	ccm₀c	cbcc	c,bxbcm₀
	Boscombe Down	om₀c	bccm₀	cm₀cbc	cf
	Calshot (Sthmtn.)	cm₀cbc	bccm₀	cm₀	cm₀bcwm
	Lympne ...	ocmm₀	cbccm₀	cm₀fpF	Fbmxw
	Manston ...	cffcm	cbccm₀	cm₀m	Ffobx
2	Shoeburyness ...	mid₀mc	cbcm₀	bcm₀	bcbxm₀
	Felixstowe ...	om₀m₀	om₀mcm	cm₀,bf	bfbmw
	Gorleston ...	oczₒzₒ	czₒ	czₒ	czₒ
	Mildenhall ...	om₀cm₀	cm₀	cm₀	cm₀bcmw
	Cranwell ...	cm₀	cm₀	cm₀	ccr₀
3	Birmingham ...	cm	cmbc	c	c
	Upper Heyford	c	ccm₀	cm₀	cm₀
4	Ross-on-Wye	c	cbcc	c	c
5	Hartland Point	c	c	c	c
	Bristol ...	c	c	cm₀	cbccm₀
	Portland Bill ...	c	c	b	bcc
	Plymouth ...	cm₀c	ccm₀	om₀	om₀
	The Lizard ...	c	c	c	c
	Scilly (St. Mary's)	cbc	bcc	c	c
	Guernsey ...	bcom	omcdbc	bw	bwb
6	Pembroke ...	c	c	cq	cq
7	Holyhead ...	c	c	c	c
	Chester (Sealand)	cbczₒ	cbc	c	c
8	Manchester ...	cffxzm₀	cm₀bcm₀	bcm₀	c
10	Spurn Head ...	cmcm₀	cm₀	cm	cm₀w
	Catterick ...	cm₀	cm₀	cm₀c	c
	Tynemouth ...	ocmff	cffm	c	c
11	St. Abbs Head ...	cq	cq	cq	cq
	Leuchars ...	ccm₀	cir₀cm₀	cbcm₀	bccm₀c
12	Rentrew (Abbots I.)	ccm₀ddd	m₀dddd	m₀idir	cm₀
	Eskdalemuir ...	ddffdom	mdddff	ffddom	oddm
	Point of Ayre ...	cq	c	c	c
13A	Tiree	odrid	orrdr	oc	c
13B	Stornoway ...	c	cd₀d₀pr₀	oprdd	cpr
15	Dalwhinnie ...	crr	cir	•	cir
	Aberdeen ...	czfz	fcr₀c	ccz₀	c
	Wick ...	c	c	cprc	c
16	Lerwick ...	cirq	c	cid	cid₀
17	Blacksod Point	idq	idq	cq	cq
18	Malin Head ...	cid₀c	c	cbcc	c
	Aldergrove ...	cm₀	cm₀	cm₀	cm₀c
19	Birr Castle ...	c	c	c	cid₀
20	Valentia Obsy. †	oid₀m₀	om₀	om₀ir₀c	circ
	Roches Point	ir₀idc	cid₀c	cid₀c	cid₀c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

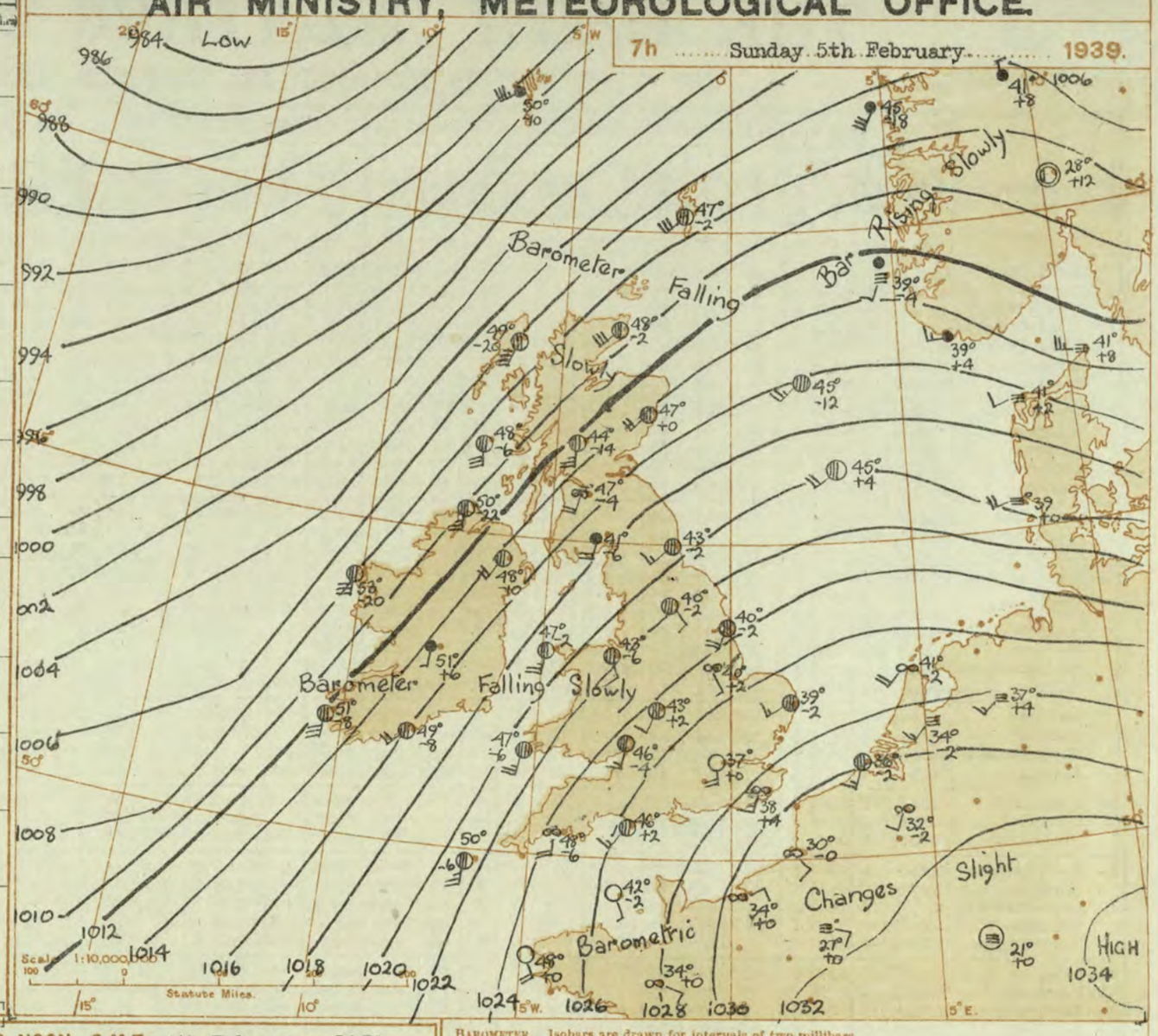
§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 4th February, 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 3rd to 9h. 4th	Temperature. (°F.) Max. 9h.—17h. 4th	Rainfall. (mm.) Night. 17h. 3rd to 9h. 4th	Rainfall. (mm.) Day. 9h.—17h. 4th	Sunshine (h.m.) Sunrise to Sunset. 4th
1	Tunbridge W.	o	obcp	22	45	Trace	-	1·5
	Bournemouth	ocbc	bcof	34	49	-	-	1·9
	Ventnor ...	xoz	bcof	39	50	-	-	1·8
	Southsea ...	b	bbcf	32	49	-	-	2·5
	Bognor Regis	ocbc	bcc	30	45	-	-	2·0
	Littlehampton	ocbc	bcc	29	46	0·2	-	2·0
	Worthing ...	ocbc	bbcco	30	48	-	-	2·4
	Brighton ...	ocbc	bcc	30	46	-	-	2·5
	Eastbourne† ...	oc	cbcco	38	48	0·1	-	1·8
	Hastings† ...	oc	cbcco	37	48	Trace	-	1·3
	Folkestone ...	m.oo	cbcm.	32	44	-	-	0·5
	Dover ...	o	ocb	29	45	Trace	-	0·3
	Deal	o	ob	26	44	Trace	-	0·7
	Ramsgate ...	m	mbc	30	44	-	-	0·8
	Margate ...	c	cbc	32	43	0·3	-	0·6
2	Southend ...	c	oc	28	42	0·3	Trace	0·0
	Clacton-on-Sea	om	ocm	28	48	Trace	-	0·0
	Dovercourt ...	xroc	bcm	28	42	Trace	-	0·0
	Lowestoft ...	c	c	28	42	-	-	0·0
	Skegness ...	cbc	bc	31	43	-	-	2·1
	Mablethorpe...	bc	bc	32	43	-	-	2·6
	Cleethorpes ...	bc	bc	26	43	-	-	2·4
3	Leamington S.	oc	cbc	29	47	-	-	1·6
4	Cheltenham†	oc	cbcc	36	47	-	-	1·2
5	Bath	c	c	33	47	-	-	0·0
	Weymouth ...	mcb	bcc	39	49	-	-	2·6
	Jersey ...	f	fbc	38	50	-	-	2·7
	Torquay ...	ocbc	com.	41	49	-	-	1·3
	Falmouth	c	o	41	48	-	-	0·0
	Penzance ...	cbc	bcc	42	52	-	-	2·1
	St. Ives ...							
	Bude... ...	c	c	34	49	-	-	0·0
	Ilfracombe ...	bccbc	cbcc	37	50	-	-	1·1
6	Aberystwyth	zc	c	35	47	-	-	0·0
7	Llandudno ...	c	cbcc	27	48	-	-	0·7
	Colwyn Bay...	bcc	c	32	47	-	-	0·5
	Rhyl	cbc	bcc	25	47	-	-	1·0
8	Wallasey ...	xfbc	bccbc	26	47	-	-	1·7
	Southport ...	obcc	obcc	25	47	-	-	1·5
	Blackpool ...	of	ombcf	24	46	-	-	0·5
	Morecambe ...	fxc	fbc	22	44	-	-	0·0
9	Ilkley... ...	c	c	27	44	-	-	0·0
	Harrogate ...	cbc	bcc	20	43	-	-	0·6
10	Berwick-on-T.	oc	co	28	45	-	-	0·0
11	Dunbar ...	bcm.	bc	28	49	-	-	0·0
12	Troon... ...	oco	oco	38	48	0·3	-	0·0
	Douglas ...	cld.	cpd.	38	46	Trace	0·3	0·0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 5th February, 1939.
1 S.E. England 2 E. England ...	Wind south to southwest, light to moderate; cloudy and brighter periods, patches of early morning fog; rather mild; local slight ground frost at night
3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Wind southwest, moderate to fresh; fair; rather mild.
7 North Wales ... 8 N.W. England	Wind south to southwest, fresh to moderate; mainly cloudy; local drizzle at first; mild.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 3 - 6.
12 S.W. Scotland & Isle of Man.	As 7 - 8.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind south to southwest, fresh to strong on coast early, moderating; cloudy or dull; occasional rain or drizzle more especially near the coast to-day; fairer tomorrow; mild.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind southwest fresh, backing south, increasing late in period; cloudy; occasional light rain or drizzle at first, becoming mainly fair; mild.

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

GENERAL INFERENCE.

A persistent anticyclone covers the Continent and an associated feeble ridge of high pressure to southwest of Ireland will move northeast behind a depression over Eastern Iceland. Weather will be fair over the greater part of the country, although in the extreme west and northwest districts there will be some occasional rain or drizzle especially at first. Temperatures on the whole will be above the seasonal average.

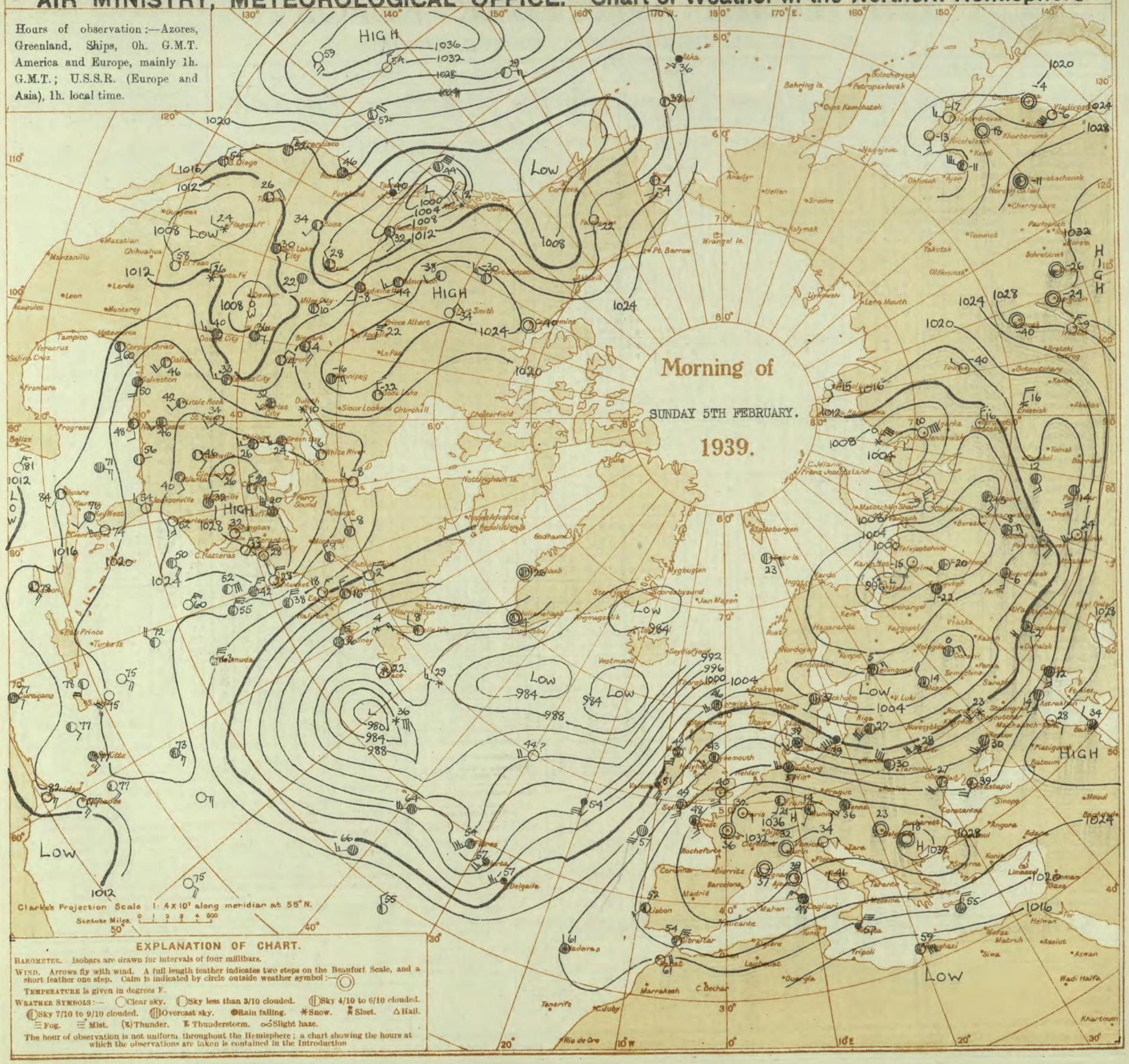
FURTHER OUTLOOK.

Rain spreading to western and northern districts; dry over England.

Forecasts issued at 1200 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 5th February, 1939

No. 28199

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1028·0	-3	S	4	b	40	92	6	-	-	-	0	0	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1029·4	-4	SW'W	1	F+	40	97	0	-	-	-	10	10	<150
	Manston ...	154	1028·9	-6	S'W	2	of+	39	97	3	5	-	-	10	10	<150
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1027·1	+2	SW'W	4	c	37	85	5	5	-	-	9	9	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1023·6	-10	SW	4	c	47	92	8	5	-	-	9+	9+	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1026·5	-6	SW	3	b	45	85	7	-	-	-	0	0	-
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1022·0	-10	S'W	4	c	48	85	7	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	1022·8	-10	S	5	c	49	92	8	5	-	-	10	10	2500
	Guernsey ..	175	1027·7	-6	SSE	1	b	43	92	8	-	-	-	0	0	-
6	Pembroke ...	142	1023·1	-6	SSW	5	oq	47	85	7	5	-	-	10	10	1500
7	Holyhead ...	26	1020·9	-6	SSW	5	c	46	85	8	6	2	-	4-6	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1023·8	-2	SW'S	3	c	38	92	5	-	1	-	0	9+	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1020·1	-4	SW	3	c	43	85	6	5	-	-	7-8	7-8	1500
11	St Abbs Head..	280	1015·8	+6	SW	8	cq	44	92	8	8	2	-	7-8	10	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1020·4	-2	SW	5	c	47	85	7	5	7	-	7-8	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1008·7	-4	SSW	7	c	48	92	7	5	7	-	7-8	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1010·2	-8	SW	5	c	49	85	9	5	7	8	4-6	9+	1500
16	Lerwick ...	156	1008·3	-2	SW	5	c	46	92	7	8	2	-	7-8	9+	1500
17	Blacksod Point	18	1011·2	-18	S	6	c	53	85	7	9	-	-	10	10	800
18	Malin Head ...	84	1013·5	-10	S'W	5	c	49	85	7	6	1	-	7-8	9	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1014·3	-6	SSE	6	id	51	97	6	5	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1027·4	0	-	0	bcf	30	92	2	5	-	-	2-3	2-3	1500	3	*
	Croydon ...	1027·2	0	S	4	b	37	97	6	-	-	-	0	0	-	1	*
	S. Farnborough	1027·0	+2	S'W	3	zo	38	97	6	5	-	-	7-8	7-8	1500	1	*
	Boscombe Down	1026·6	+4	S'E	3	of+	39	97	3	5	-	-	10	10	1500	1	*
	Calshot (Sthmtn.)	1027·3	+2	S'E	2	zo	41	92	6	5	3	-	Tr	2-3	2500	1	2
	Lympne ...	1029·1	+4	SSW	3	zo	38	97	6	-	-	2	0	4-6	-	1	§2
	Manston ...	1028·4	0	S'W	2	zo	38	92	6	-	4	6	0	4-6	-	1	*
2	Shoeburyness...	1027·7	0	SSW	1	bc	36	97	5	-	4	8	0	2-3	-	1	*
	Felixstowe ...	1027·9	-2	S	3	m	36	97	4	-	4	8	0	Tr	-	0	1
	Gorleston ...	1026·4	-2	SW'W	3	c	39	92	6	5	-	-	9+	9+	2500	1	2
	Mildenhall ...	1026·3	+6	S'W	3	zo	38	97	5	5	3	-	4-6	7-8	4000	1	*
	Cranwell ...	1024·6	+2	SSE	1	zo	40	92	6	5	-	-	10	10	1500	1	*
3	Birmingham ...	1024·5	+2	SSW	2	c	43	85	7	5	-	-	10	10	800	1	*
	Upper Heyford	1026·0	0	S	3	zo	41	92	6	5	-	-	9+	9+	1500	1	*
4	Ross-on-Wye	1024·0	-4	S'W	3	c	46	75	7	5	-	-	10	10	2500	1	*
5	Hartland Point	1022·4	-6	SW	4	c	47	92	8	5	-	-	9+	9+	1500	0	3
	Bristol ...	1025·4	-2	S'E	3	c	45	85	6	5	-	-	9	9	2500	1	*
	Portland Bill ...	1026·2	+2	SW	3	c	46	92	7	5	-	-	10	10	2500	1	3
	Plymouth ...	1024·2	-6	S	4	zo	48	85	6	5	-	-	10	10	1500	1	1
	The Lizard ...	1023·9	-8	S'W	4	c	48	97	7	4	-	-	9	9	1500	1	3
	Scilly (St. Mary's)	1021·3	-6	S	5	c	50	92	7	5	7	-	4-6	9+	2500	1	3
	Guernsey ..	1026·9	-2	SSE	1	b	42	97	7	-	-	-	0	0	-	1	1
6	Pembroke ...	1021·1	-6	SSW	5	oq	47	85	7	5	-	-	10	10	1500	1	3
7	Holyhead ...	1019·2	-2	S'W	5	c	47	85	8	5	1	-	7-8	10	2500	0	2
	Chester (Sealand)	1022·1	-6	SSE	2	c	43	85	7	5	2	-	9	10	2500	1	*
8	Manchester ...	1022·5	-2	SSE	3	c	43	85	7	5	3	-	7-8	10	2500	1	*
10	Spurn Head ...	1023·2	-2	SSW	4	c	40	97	6	5	2	-	7-8	10	2500	1	2
	Catterick ...	1020·5	-2	SE'S	2	c	40	85	8	5	2	-	7-8	10	2500	1	*
	Tynemouth ...	1019·2	-2	SW	3	c	43	75	7	5	-	-	9	9	1500	1	1
11	St Abbs Head..	1013·7	-6	SW	8	cq	44	92	8	8	2	-	4-6	9	1500	0	4
	Leuchars ...	1015·7	-6	SW	3	c	45	92	8	5	7	-	7-8	10	1500	1	*
12	Renfrew (Abbots I.)	1016·0	-4	SSW	4	zo	47	92	6	5	2	-	9+	10	1500	1	*
	Eskdalemuir ...	1017·9	-6	SSW	4	dd	41	92	4	5	-	-	10	10	<150	1	*
	Point of Ayre...	1018·0	-8	SW'S	4	c	47	85	7	5	7	6	2-3	10	1500	0	2
13A	Tiree	1009·6	-6	S	6	c	48	92	7	5	-	-	9+	9+	1500	0	*
13B	Stornoway ...	1005·8	-20	SSW	8	c	49	92	7	5	7	-	7-8	10	1500	1	4
15	Dalwhinnie ...	1012·8	-14	S	5	c	44	92	6	5	-	-	10	10	1500	1	*
	Aberdeen ...	1014·1	0	SW	4	c	47	85	7	5	7	-	4-6	9+	4000	1	1
	Wick ...	1009·4	-2	SW	6	c	48	92	9	5	7	8	7-8	9+	1500	1	2
16	Lerwick ...	1007·1	-2	SW	6	c	47	97	7	8	2	-	7-8	10	800	1	*
17	Blacksod Point	1007·9	-20	S	6	cq	53	85	7	9	-	-	9	9	800	1	4
18	Malin Head ...	1011·6	-22	S	5	c	50	85	7	8	5	-	4-6	7-8	2500	0	3
	Aldergrove ...	1015·1	-10	SW'S	4	c	48	85	7	5	-	-	10	10	800	1	*
19	Birr Castle ...	1014·2	+6	S	1	id	51	92	7	6	2	-	7-8	10	800	1	*
20	Valentia Obsy. †	1012·2	-8	S	6	c	51	92	7	5	-	-	10	10	1500	1	4
	Roches Point	1016·4	-8	SW	4	c/d	49	97	7	5	-	-	9+	9+	800	1	4

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 4th Hrs. (36)
1	London (Kew)	46	29	22	-	Tr	0·0
	Croydon ...	46	37	33	Tr	-	0·0
	S. Farnborough	47	35	30	Tr	Tr	0·7
	Boscombe Down	49	36	34	-	-	1·7
	Calshot (Sthmtn.)	48	38	35	-	0·1	1·2
	Lympne ...	43	36	30	-	0·1	1·2
	Manston ...	43	35	30	Tr	Tr	1·0
2	Shoeburyness...	45	36	26	Tr	-	0·0
	Felixstowe ...	43	35	32	-	-	0·0
	Gorleston ...	44	37	35	-	-	0·8
	Mildenhall ...	43	38	34	-	Tr	0·0
	Cranwell ...	44	36	33	-	Tr	3·0
3	Birmingham ...	44	40	35	-	-	1·5
	Upper Heyford	44	38	33	-	-	*
4	Ross-on-Wye	47	43	41	-	-	0·7
5	Hartland Point	48	45	43	-	-	0·2
	Bristol ...	47	42	40	-	-	0·0
	Portland Bill ...	48	38	*	-	-	*
	Plymouth ...	48	45	45	-	-	0·0
	The Lizard ...	48	46	*	-	-	0·0
	Scilly (St. Mary's)	51	47	*	-	-	1·5
	Guernsey ..	45	40	31	-	-	2·4
6	Pembroke ...	48	45	*	-	-	0·0
7	Holyhead ...	48	44	43	-	-	0·0
	Chester (Sealand)	49	39	33	-	-	1·7
8	Manchester ...	47	38	29	-	-	1·2
10	Spurn Head ...	42	37	*	-	Tr	3·4
	Catterick ...	44	36	31	-	-	0·0
	Tynemouth ...	45	41	35	-	-	0·0
11	St Abbs Head..	45	40	*	-	-	*
	Leuchars ...	49	45	43	0·1	-	0·0
12	Renfrew (Abbots I.)	48	46	45	0·3	0·3	0·0
	Eskdalemuir ...	41	39	39	3	4	0·0
	Point of Ayre...	49	46	*	-	-	0·1
13A	Tiree	49	47	46	5	-	0·0
13B	Stornoway ...	52	47	*	Tr	0·1	0·5
15	Dalwhinnie ...	44	42	41	3	2	0·1
	Aberdeen ...	51	44	37	Tr	-	0·0
	Wick ...	49	44	*	-	0·3	*
16	Lerwick ...	52	44	*	0·1	Tr	0·0
17	Blacksod Point	51	40	*	6	-	*
18	Malin Head ...	51	46	*	Tr	-	0·0
	Aldergrove ...	49	45	43	-	-	0·0
19	Birr Castle ...	50	47	43	-	Tr	0·0
20	Valentia Obsy. †	51	50	49	0·1	0·6	0·0
	Roches Point	48	47	*	0·4	0·2	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon.	Weather Night.	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day. mm.	Rainfall Night. mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity 15h. G.M.T % (Yesterday.)	Humidity 9h. G.M.T % (To-day.)	Visibility 9h. (To-day.)
Kew...	18	cm	cbcm	bcm	46	29	22	-	Tr	0·0	•	•	3
Croydon	217	oid cm	c2bcm	cm bN	46	*	33	Tr	-	0·0	•	••	2
Greenwich (Royal Observatory)...	149	c	Eb	cxb	46	34	26	-	-	0·2	72	97	5
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0·0	•	•	•
Westminster (St James' Park) ...	27	•	•	•	47	34	27	-	-	0·0	74	95	•
Regents Pk. (Botanic Gardens)‡...	168	•	•	•	46	37	28	-	-	0·0	77	91	•
Camden Square	110	c	c	•	46	32	27	-	-	•	•	94	•
Kensington	80	c	c	•	47	35	25	-	-	0·2	At 12h. 82	95	•
Hampstead Observatory	450	o	bc	bc	45	37	30	-	-	0·0	•	97	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
<0·3 whole period			

Kew Observatory. Max.	Time.	Min.	Time.
0·2	18h 4th	0·1	0-6h 5th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 4th February Barom. mb.	Wind Direc.	Wind Force	Weather.	Temp. °F.	7h. G.M.T. 5th February Barom. mb.	Wind Direc.	Wind Force	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1031·7	SSE	2	bf	41	1031·7	ESE	2	m	27	48	27	-	-
Brussels	1031·0	SW	3	o/d	37	1030·6	SSW	2	zo	32	43	28	Tr	1
Berlin	1024·7	WSW	4	c	39	1025·5	W	0	zo	37	41	37	-	-
Zürich	1034·0	SE	1	f	27	1033·8	SSW	1	f	21	32	21	-	-
Rome	1027·4	NW	1	b	50	1027·0	NE	*	b	*	*	*	-	*

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.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 6th February, 1939
No. 28200

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Med. (10)	High (11)	Amount Low 0–10 (12)	Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1027·0	−4	SSW	2	z_0	47	85	5	5	–	–	9+	9+	2500
	Croydon	1027·4	−6	S	3	z_0	48	85	6	5	–	–	10	10	5700
	S. Farnborough	1027·1	−2	SSW	2	z_0	48	85	6	5	–	–	9+	9+	2500
	Boscombe Down	1026·8	0	S	4	z_0	46	92	6	5	–	–	9	9	800
	Calshot (Sthmtn.)	1027·5	−2	SSW	3	c	48	85	6	5	–	–	9	9	4000
	Lympne	1029·2	−2	SSW	3	z_0	48	75	6	1	–	–	2-3	2-3	1500
	Manston	1028·4	−6	SSW	4	b	49	75	6	–	–	1	0	Tr	–
2	Shoeburyness	1027·8	−2	SW	2	c	49	75	5	5	–	–	7-8	7-8	5700
	Felixstowe	1028·0	−2	SWS	4	b	45	85	7	7	–	–	1	1	2500
	Gorleston	1026·6	−4	SWW	4	bc	47	75	6	–	4	–	0	2-3	–
	Mildenhall	1026·5	0	SSW	4	z_0	47	85	6	5	–	–	9+	9+	4000
	Cranwell	1024·1	−8	S	4	c	48	75	7	5	–	–	9+	9+	4000
3	Birmingham	1023·8	−4	SSW	3	c	48	75	7	–	3	–	0	9+	–
	Upper Heyford	1025·9	−8	S	3	z_0	46	85	6	5	–	–	10	10	2500
4	Ross-on-Wye	1023·7	−4	SSW	4	c	51	75	7	5	–	–	9+	9+	2500
5	Hartland Point	1022·1	+2	S	4	bc	52	85	8	5	–	–	4-6	4-6	1500
	Bristol	1025·4	−2	SW	4	bc	49	85	7	5	4	–	4-6	4-6	1500
	Portland Bill	1025·8	−4	S	3	bc	48	85	7	1	–	–	4-6	4-6	2500
	Plymouth	1025·2	+2	S	3	z_0	51	85	6	5	–	–	7-8	7-8	4000
	The Lizard	1023·9	+2	SW	5	bc	51	97	8	8	6	–	4-6	4-6	2500
	Scilly (St. Mary's)	1021·7	0	SE	5	b	54	92	7	5	–	–	Tr	Tr	2500
	Guernsey	1026·5	−6	SSE	2	b	50	75	7	–	–	–	0	0	–
6	Pembroke	1021·8	0	SWS	5	bc	48	92	7	5	–	–	4-6	4-6	1500
7	Holyhead	1019·3	−2	SSW	5	c	49	85	8	5	8	–	4-6	9+	2500
	Chester (Sealand)	1021·7	−4	SSE	4	c	50	75	7	5	–	–	9	9	4000
8	Manchester	1022·3	−2	SE	3	z_0	49	75	6	5	3	–	7-8	9+	2500
10	Spurn Head	1023·2	−4	SSW	4	c	46	85	6	5	–	–	9+	9+	2500
	Catterick	1020·1	−8	SSW	4	z_0	47	75	6	5	3	–	9	9	2500
	Tynemouth	1018·7	−6	S	3	c	50	75	6	2	3	1	4-6	7-8	2500
11	St. Abbs Head	1013·9	−6	SW	6	cq	47	85	8	8	4	1	4-6	7-8	1500
	Leuchars	1014·7	−2	SW	5	c	51	85	7	5	7	9	2-3	7-8	1500
12	Renfrew (Abbots I.)	1015·2	−2	SW	4	z_0	51	85	6	5	–	–	10	10	1500
	Eskdalemuir	1017·2	−2	SWS	7	o	43	92	6	5	–	–	10	10	450
	Point of Ayre	1017·6	−2	WSW	6	c	52	85	7	5	7	–	7-8	9+	800
13A	Tiree	1008·7	−2	S	6	c	50	92	7	5	–	–	9+	9+	1500
13B	Stornoway	1005·4	−4	SSW	8	id_0	50	85	7	5	7	–	9	10	1500
15	Dalwhinnie	1012·1	−4	S	5	c	46	92	6	5	1	–	7-8	10	1500
	Aberdeen	1013·3	−6	SSW	4	c	46	92	6	6	2	–	9+	10	800
	Wick	1008·7	−8	SW	6	c	49	85	8	5	4	1	4-6	7-8	2500
16	Lerwick	1005·5	−12	SW	6	c	49	85	8	8	7	–	7-8	9+	800
17	Blacksod Point	1009·2	+12	S	6	c	52	92	7	9	–	–	9	9	800
18	Malin Head	1010·5	−2	S	5	c	53	75	7	8	–	–	7-8	7-8	2500
	Aldergrove	1014·3	−6	SSW	4	c	51	85	8	5	–	–	9+	9+	800
19	Birr Castle	1014·4	−2	SW	3	e/d	52	92	7	6	2	–	4-6	10	800
20	Valentia Obsy. †	1013·8	+10	SSW	5	c	53	92	7	5	–	–	9+	9+	800
	Roches Point	1016·5	−2	SW	4	id_0	49	97	6	5	–	–	9+	9+	800

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Med. (24)	High (25)	Amount Low 0–10 (26)	Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1026·7	+4	SE	2	z_0	44	75	6	–	–	–	0	0	–	1	*
Croydon	1026·9	+4	S	4	z_0	44	85	6	–	4	1	0	Tr	–	1	*
S. Farnborough	1026·8	+6	S	3	z_0	43	85	6	–	3	–	0	Tr	–	1	*
Boscombe Down	1026·4	+6	SE	4	bc	42	92	7	5	–	–	2-3	2-3	2500	1	*
Calshot (Sthmtn.)	1026·8	−2	EN	2	z_0	42	85	6	–	4	1	0	Tr	–	1	2
Lympne	1029·0	+4	SW	1	z_0	39	92	6	–	–	2	0	2-3	–	1	§ 1
Manston	1028·3	+10	SW	2	bc	41	85	6	5	3	1	Tr	2-3	4000	1	*
Shoeburyness	1027·4	+2	SW	2	bc	41	92	6	–	4	1	0	2-3	–	1	*
Felixstowe	1027·3	0	SW	2	z_0	40	92	5	1	4	–	Tr	Tr	4000	0	1
Gorleston	1026·0	+2	SWS	2	bc	46	85	6	5	4	–	2-3	4-6	2500	0	1
Mildenhall	1025·7	0	S	3	m	44	85	4	5	–	6	1	4-6	4000	0	*
Cranwell	1023·9	0	SW	4	z_0	44	85	6	5	4	–	1	1	4000	1	*
Birmingham	1023·2	0	S	3	b	46	85	8	–	4	–	0	1	–	1	*
Upper Heyford	1025·4	+2	S	3	z_0	43	92	6	5	–	–	1	1	2500	1	*
Ross-on-Wye	1023·7	0	SSW	3	z_0	47	85	6	5	–	–	2-3	2-3	2500	1	*
Hartland Point	1021·8	0	SSW	3	bc	49	92	8	1	–	–	2-3	2-3	2500	0	3
Bristol	1025·2	+2	S	3	bc	46	85	7	5	–	–	4-6	4-6	4000	1	*
Portland Bill	1026·0	+4	SSW	3	bc	44	85	7	5	–	–	2-3	2-3	2500	1	3
Plymouth	1024·4	+2	S	3	b	49	92	7	5	–	–	Tr	Tr	4000	1	1
The Lizard	1024·4	+4	S	5	bc	49	97	8	8	6	–	4-6	4-6	2500	1	3
Scilly (St. Mary's)	1021·3	+4	S	5	bc	50	97	7	5	–	–	2-3	2-3	2500	1	3
Guernsey	1026·4	+2	SSE	2	b	47	97	7	–	–	–	0	0	–	1	1
Pembroke	1021·3	+4	SWS	5	c	48	92	7	5	–	–	10	10	1500	1	3
Holyhead	1018·7	0	SSW	5	c	49	85	7	5	7	–	4-6	9	800	0	2
Chester (Sealand)	1021·1	0	ESE	3	c	50	75	7	5	–	–	7-8	7-8	2500	1	*
Manchester	1021·6	+4	SSE	3	z_0	48	85	6	5	3	–	2-3	4-6	2500	1	*
Spurn Head	1022·7	0	SSW	4	bc	43	92	6	–	4	6	0	4-6	–	0	2
Catterick	1019·9	0	SSW	4	z_0	48	75	6	5	3	–	4-6	4-6	2500	1	*
Tynemouth	1018·8	0	SW	4	bc	49	75	6	2	3	–	4-6	4-6	1500	1	1
St. Abbs Head	1014·3	+4	SW	6	cq	47	92	8	3	6	–	7-8	9+	1500	0	4
Leuchars	1014·3	+6	SW	4	id_0	49	92	7	5	7	–	7-8	9+	1500	1	*
Renfrew (Abbots I.)	1014·4	+6	SWS	3	z_0	51	85	6	6	2	–	9	9+	1500	1	*
Eskdalemuir	1017·1	+2	SWS	6	dd	43	97	4	5	–	–	10	10	220	1	*
Point of Ayre	1017·5	+2	SW	5	c	50	92	7	5	–	–	10	10	800	0	3
Tiree	1007·2	+4	S	5	c	50	92	7	5	–	–	7-8	7-8	1500	0	4
Stornoway	1005·1	+10	SSW	6	c	49	85	7	5	7	–	9	9+	1500	1	3
Dalwhinnie	1012·2	+2	SW	5	ir	46	92	6	8	–	–	10	10	1500	1	*
Aberdeen	1012·3	−4	SWS	4	c	50	85	6	6	–	–	7-8	7-8	800	1	1
Wick	1007·5	+2	SW	6	c	48	92	8	5	7	–	4-6	7-8	1500	1	2
Lerwick	1003·9	−2	WSW	7	c	49	75	7	8	7	–	7-8	10	1500	1	*
Blacksod Point	1009·4	0	S	5	bc	50	92	8	9	–	–	4-6	4-6	1500	1	4
Malin Head	1011·5	+12	S	3	c	51	75	8	4	8	–	4-6	7-8	5700	0	2
Aldergrove	1014·2	+2	SWS	4	bc	50	85	7	5	7	–	2-3	4-6	1500	1	*
Birr Castle	1013·7	−2	S	1	c	52	92	7	8	7	–	4-6	9	1500	1	*
Valentia Obsy. †	1013·1	−2	S	5	e	52	85	7	5	–	–	4-6	9+	800	1	4
Roches Point	1016·1	−4	SSW	5	dr	49	97	5	5	–	–	10	10	450	1	4

PAST 24 HOURS. — WEATHER.

Stations	7h.—13h. 5th (37)	13h.—18h. 5th (38)	18h 5th to 1h. 6th (39)	1h.—7h. 6th (40)
London (Kew)	bffx cm_0	cbcb m_0	bm_0bfbm_0	bm_0c
Croydon	$bcfcm_0$	$cbcbm_0z$	bm_0w	bm_0wx
S. Farnborough	$bcfcm_0$	c,b bm_0	$bwbcm_0$	bcw bx
Boscombe Down	om_0cm_0	bc	bcb	bw
Calshot (Sthmtn.)	$bccid_0cm_0$	cm_0bbm_0	bm_0bwm	bwm_0
Lympne	$bbcm_0$	$bbcz_0m_0$	bm_0fgx	bm_0fx
Manston	$bcbm_0$	$bbcm_0$	$bcbm_0w$	bmxwF
Shoeburyness	$bbcm_0$	cbm_0	bx	bx
Felixstowe	bmbm	cm_0,bm	bm_0bm	bm
Gorleston	$cbcz_0z$	$bccbcz_0z$	bcbz	$bbcz_0$
Mildenhall	cm_0	cm_0	$bcmbm_0$	bm_0w
Cranwell	c	.cbcb	bm_0w	bw
Birmingham	c	cbc	b	bw
Upper Heyford	cm_0	$cbbm_0$	bm_0	bm_0x
Ross-on-Wye	c	cbcb	bm_0	bx
Hartland Point	cbc	bc	bc	bccbc
Bristol	cm_0cbc	bccbc	bcb	bbcq
Portland Bill	cbc	bc	b	bbc
Plymouth	om_0,bcm	bcm_0bcb	bbc	bc
The Lizard	cbc	bc	bcb	b
Scilly (St. Mary's)	bccbcb	bbc	bcbbcw	bccbcw
Guernsey	b	bw	bw	bw
Pembroke	cq bc	bcc	cbcbw	bwbccir
Holyhead	c	c	c	m_0c
Chester (Sealand)	cbc	cbc	bc	bcc
Manchester	ccz_0	cz_0bcz_0	bcm_0	bcm_0
Spurn Head	cm_0	c	cbw	bw
Catterick	ccm_0	$cdcm_0$	bcm_0	bcwc m_0
Tynemouth	c	c	bccbc	bc
St. Abbs Head	cq	cq	bcqc	cq
Leuchars	cbc	$bccid_0$	cid_0c	$c_0ir_0ir_0c$
Renfrew (Abbots I.)	cd_0m_0	id_0d_0dm	$_0cm_0bc$	bc prpr
Eskdalemuir	$ddod_0d$	id_0ddm	odrff	orff
Point of Ayre	c	c	cpr_0	cpr_0q
Tiree	cid_0	c	c	cbc
Stornoway	$prid_0$	cid_0pr	cir_0	crr
Dalwhinnie	cir	cir	*	cir
Aberdeen	ccz_0	cz_0	cd_0bz_0	b
Wick	c	cpr_0c	cbc	bcc pr
Lerwick	cq	cpr_0	c	cir
Blacksod Point	iDq	cbcq	pr_0cq	pr_0cq
Malin Head	c	cbcc	c	cpr_0c
Aldergrove	c	c,ir_0cbc	bcc	$r_0r_0ir_0c$
Birr Castle	id_0id	c	cir_0	cir_0
Valentia Obsy. †	ciD idc	c	crc	$cd_0d_0id_0$
Roches Point	cid_0	id_0drdr	oidr	oido

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_0, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_0/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_0, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. lunar halo. Aurora.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27,

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

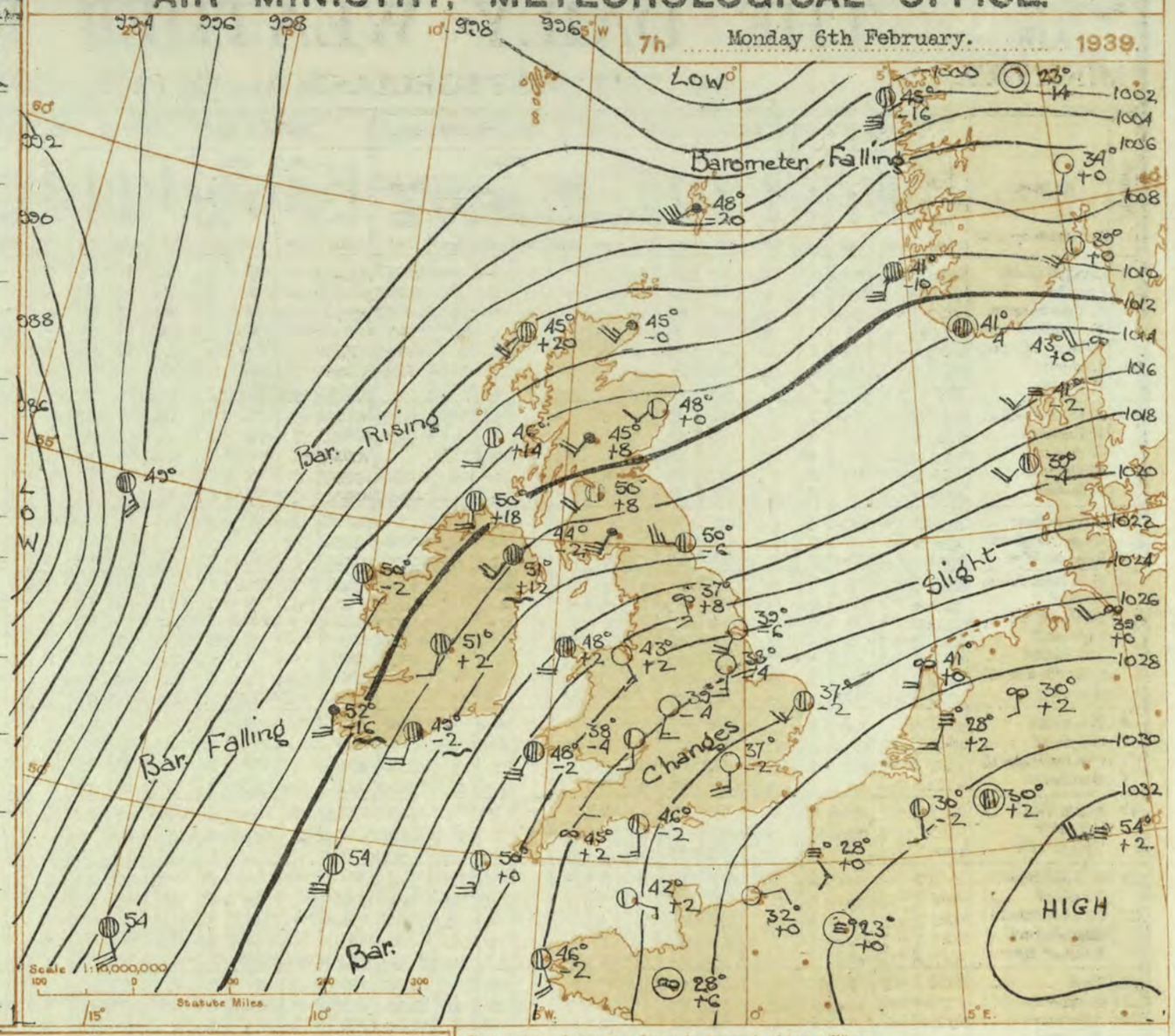
0 . . Ground dry.
1 . . „ wet.
2 . . „ flooded.
3 . . „ frozen hard and dry.
4 . . „ partly covered with snow or hail.
5 . . „ covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . „ covered with snow, less than 6 ins., deep but ground not frozen.
8 . . „ covered with snow,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

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

§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Monday 6th February. 1939.



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

REPORTS from HEALTH RESORTS for 5th February 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 4th to 9h. 5th	Temperature. (°F.) Max. 9h.—17h. 5th	Rainfall. (mm.) Night. 17h. 4th to 9h. 5th	Rainfall. (mm.) Day. 9h.—17h. 5th	Sunshine. Sunrise to Sunset. 5th
1	Tunbridge W.	b	bcob	37	48	-	-	4·9
	Bournemouth	bc	b	40	50	-	-	4·6
	Ventnor ...	mxb	cb	41	51	-	-	6·3
	Southsea ...	bcb	b	37	51	-	-	4·6
	Bognor Regis	bbcc	cbcb	38	46	0·3	-	4·4
	Littlehampton	bbcc	cbc	37	46	-	-	3·9
	Worthing ...	bbc	cbcb	37	48	-	-	5·9
	Brighton ...	b	bcb	37	48	-	-	6·7
	Eastbourne† ...	b	bbccb	39	50	Trace	-	6·8
	Hastings† ...	b	b	37	50	Trace	-	8·4
	Folkestone ..	mobb	bbmo	36	48	-	-	7·3
	Dover ...	bc	bc	40	49	-	-	7·9
	Deal	bcb	b	39	47	-	-	7·4
	Ramsgate ...	bc	bc	37	48	-	-	7·5
	Margate ...	bc	bc	36	51	-	-	6·5
2	Southend ...	bbc	bcb	36	48	Trace	-	3·5
	Clacton-on-Sea	bcz	bcobc	37	46	-	-	5·1
	Dovercourt ...	oc	bc	35	48	-	-	4·4
	Lowestoft ...	cbc	bcc	37	49	-	-	3·6
	Skegness ...	bc	bc	37	47	-	-	0·6
	Mablethorpe...	obc	bc	36	49	-	-	0·7
	Cleethorpes ...	bc	bc	35	49	-	-	1·0
3	Leamington S.	oc	cbc	39	52	-	-	1·3
4	Cheltenham†	c	bc	41	51	-	-	2·8
5	Bath	c	cbcb	41	53	-	-	2·1
	Weymouth ...	c	cbcb	43	51	-	-	4·9
	Jersey ...	b	b	40	51	Trace	-	8·7
	Torquay ...	ocbc	bcb	44	52	-	-	5·4
	Falmouth	b	b	46	55	-	-	6·0
	Penzance ...	bccb	b	48	53	-	-	6·4
	St. Ives ...							
	Bude... ...	cbc	b	46	54	-	-	6·4
	Ilfracombe ...	cbc	bcbbc	44	54	-	-	5·3
6	Aberystwyth	c	cbcc	44	53	-	-	1·4
7	Llandudno ...	cbc	bcb	37	55	-	-	5·7
	Colwyn Bay...	cbc	bcb	44	54	-	-	5·6
	Rhyl	cbc	cbc	42	54	-	-	2·1
8	Wallasey ...	mcbc	bccm	36	50	-	-	0·1
	Southport ...	obco	obco	33	50	-	-	0·7
	Blackpool ...	om=	bcmcm	34	50	-	-	0·2
	Morecambe ...	c.	bc	32	48	-	-	0·8
9	Ilkley... ...	bc	bc	35	49	-	-	2·5
	Harrogate ...	cbc	cbc	35	50	-	-	1·0
10	Berwick-on-T.	c	cbc	42	49	-	-	0·1
11	Dunbar ...	bc	bc	44	52	-	-	3·5
12	Troon... ...	ocbc	bccoc	43	50	Trace	-	1·0
	Douglas ...	c	cf	45	47	-	-	0·1

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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 6th February, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ...	Wind southerly light, freshening; fine during day, cloud increasing during night; rather mild.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Wind south to southwest, moderate, freshening, gale locally later; mainly fair during day, a period of rain spreading from southwest during night; mild
11 S.E. Scotland 12 S.W. Scotland & Isle of Man 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind south to southwest, becoming strong to gale; occasional rain with bright periods during day, more continuous rain spreading from southwest during night; mild.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind south veering southwest, strong to gale; cloudy intermittent rain to-day, showers and bright periods to-morrow; mild.

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

GENERAL INFERENCE.

An anticyclone persists over Switzerland, while an intense depression west of Ireland is moving northeast. There will be periods of rain in the West and North with south to southwest gales, but in East and Southeast England weather will continue fair or fine.

FURTHER OUTLOOK.

Probably fair in the southeast, showers and bright periods elsewhere; mild.

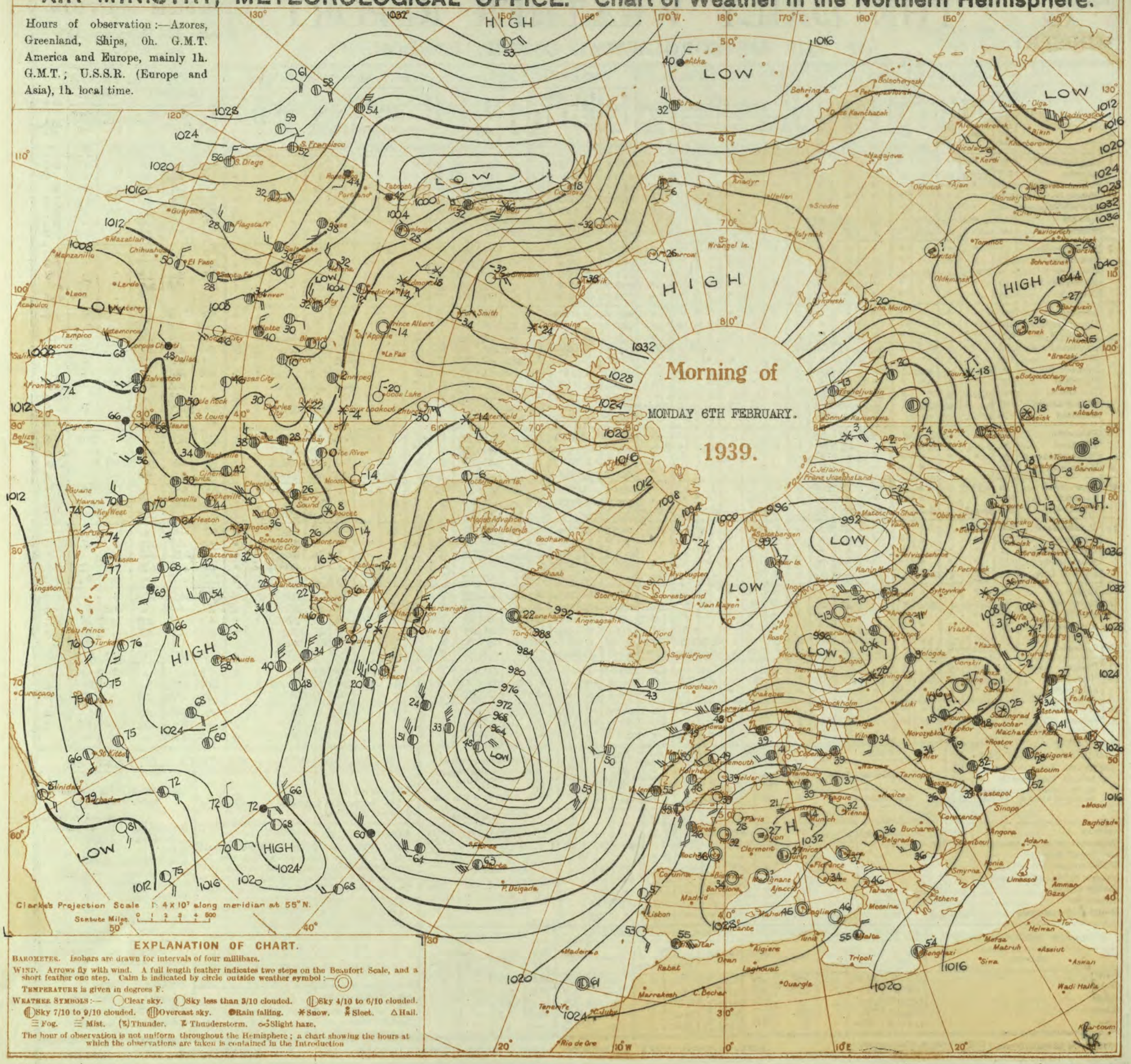
Times of Issue of Gale Warnings.

South cone hoisted at 0200 on 6th in districts 12, 13A, 13B, 17, 18, 20, 16 and at 0915 on 6th in districts 6,7,8,12, 19 and part of 5.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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



Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 6th February, 1939

No. 28200

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1027·2	0	S	4	b	39	85	6	-	-	-	0	0	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1028·5	-6	WSW	1	fg	39	92	5	-	-	2	0	1	-
	Manston	154	1028·3	0	SW'S	3	z	37	92	5	-	-	2	0	2-3	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1026·0	0	WSW	3	b	39	85	6	-	4	-	0	Tr	-
	Mildenhall	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1022·1	0	SSW	4	bc	47	85	8	1	-	-	2-3	2-3	2500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1025·0	+2	SSW	3	b	46	92	7	-	-	-	0	0	-
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1023·2	-8	S	5	b	48	97	8	-	-	-	0	0	-
	Scilly (St. Mary's)	163	1021·0	-4	S'E	5	bc	49	97	7	5	4	9	1	4-6	2500
	Guernsey	175	1026·2	-2	SSE	1	b	44	85	7	-	-	-	0	0	-
6	Pembroke	142	1020·5	0	SW'S	5	b	47	92	7	-	1	-	0	1	-
7	Holyhead	26	1018·4	-2	SSW	5	c	48	92	7	5	2	-	4-6	10	800
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1023·0	0	S'W	3	b	39	92	6	-	-	-	0	0	-
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1018·0	-6	SW	3	bc	49	85	7	2	-	-	4-6	4-6	1500
11	St Abbs Head	280	1013·7	0	SW	7	cq	49	92	8	8	6	-	7-8	9+	1500
	Leuchars	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1016·4	-8	SW'W	6	pr	50	92	7	8	3	-	7-8	9+	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1005·4	0	SSW	7	ir	49	85	7	8	7	-	7-8	9	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1007·7	-6	SW	5	bc	46	85	8	5	-	-	2-3	2-3	2500
16	Lerwick	156	1004·3	+8	WSW	8	c	48	85	7	8	7	-	4-6	9	1500
17	Blacksod Point	18	1009·2	+8	S	5	c	50	92	7	9	-	-	10	10	800
18	Malin Head	84	1009·5	+8	SSW	5	c	60	75	8	5	8	-	4-6	7-8	450
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1012·9	+2	SW	4	o	53	97	7	5	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1026·5	-2	S	1	z	34	92	6	-	-	-	0	0	-	3	*
Croydon	1026·6	-2	S	4	b	37	92	6	-	-	-	0	0	-	1	*
S. Farnborough	1026·1	-4	SSE	3	z	36	97	6	-	-	-	0	0	•	1	*
Boscombe Down	1025·9	-6	SSE	3	b	36	97	6	5	-	-	1	1	2500	1	*
Calshot (Sthmtn.)	1026·3	-2	SE	2	z	40	92	6	-	-	-	0	0	-	1	1
Lympne	1028·2	+4	S'W	1	bF+	37	97	1	-	-	-	0	0	-	0	§ 1
Manston	1028·0	+2	SW'S	2	bF+	36	97	1	-	-	-	0	0	-	1	*
Shoeburyness	1027·0	-2	S'W	2	b	37	92	7	-	4	-	0	Tr	-	1	*
Felixstowe	1027·2	0	SW	2	m	37	97	4	-	-	-	0	0	-	0	1
Gorleston	1025·5	-2	SW	3	bc	37	85	6	-	4	-	0	2-3	-	0	2
Mildenhall	1025·9	-2	S'E	2	z	39	85	6	-	-	-	0	0	-	1	*
Cranwell	1023·7	-4	S'W	3	b	38	85	7	-	-	-	0	0	-	1	*
Birmingham	1023·4	-4	SSW	3	b	39	92	7	-	-	-	0	0	-	1	*
Upper Heyford	1025·4	-2	S	3	z	34	97	5	-	-	-	0	0	-	3	*
Ross-on-Wye	1023·9	-4	S	2	b	38	92	7	4	-	-	Tr	Tr	4000	1	*
Hartland Point	1021·4	-2	SSW	4	bc	45	97	8	5	-	-	2-3	2-3	2500	0	3
Bristol	1023·9	-6	S	5	bc	43	92	7	5	4	-	2-3	4-6	800	1	*
Portland Bill	1024·9	-2	S	3	bc	46	85	7	5	-	-	2-3	2-3	2500	1	3
Plymouth	1024·4	+2	NE	1	z	45	97	6	5	-	-	4-6	4-6	1500	1	1
The Lizard	1023·2	+4	S'W	4	b	48	97	8	[illegible]	-	-	0	0	[illegible]	1	2
Scilly (St. Mary's)	1021·1	0	S'W	5	bc	50	97	7	5	4	-	1	2-3	2500	1	3
Guernsey	1026·0	+2	ESE	1	b	42	97	7	-	3	-	0	1	-	1	1
Pembroke	1020·7	-2	SW'S	5	c	48	92	7	8	7	-	4-6	7-8	1500	1	3
Holyhead	1018·7	+2	SW'S	4	c	48	92	6	5	-	-	10	10	450	0	2
Chester (Sealand)	1020·8	+2	SE'S	3	c	43	75	8	8	4	-	7-8	7-8	2500	1	*
Manchester	1021·3	-2	SSE	3	z	42	85	6	5	4	-	4-6	4-6	4000	1	*
Spurn Head	1021·8	-6	SSW	4	b	39	92	6	-	-	-	0	0	-	1	3
Catterick	1019·3	+8	SSE	3	z	47	85	6	5	4	-	9	9	1500	1	*
Tynemouth	1016·3	-6	W	5	bc	50	85	7	2	-	-	4-6	4-6	2500	1	2
St Abbs Head	1012·5	-6	SW	7	cq	48	85	8	3	6	-	4-6	7-8	1500	0	4
Leuchars	1011·7	-2	SW	4	c/r	50	92	9	6	-	-	9	9	800	1	*
Renfrew (Abbots I.)	1012·7	+8	SW	4	c/pr	50	92	6	9	-	-	9+	9+	800	1	*
Eskdalemuir	1015·3	-2	SW'S	5	rr	44	97	2	-	-	-	10	10	450	2	*
Point of Ayre	1016·1	+4	SW'W	6	cjf	50	92	7	5	3	-	4-6	9+	800	1	3
Tiree	1009·6	+14	SSW	4	bc	46	92	8	5	-	-	4-6	4-6	2500	0	*
Stornoway	1006·6	+20	SW	4	c	45	85	7	5	7	-	7-8	9+	2500	1	2
Dalwhinnie	*	+8	SW	3	r	45	75	6	4	2	-	4-6	10	2500	1	*
Aberdeen	1010·1	0	SW	2	b	48	92	7	5	-	-	Tr	Tr	1500	1	1
Wick	1006·4	0	SW	5	pr	45	92	8	5	7	-	7-8	9+	1500	1	2
Lerwick	1001·5	-20	WSW	8	ir	48	75	7	8	2	-	7-8	10	1500	1	*
Blacksod Point	1008·8	-2	S	5	c	50	97	7	9	-	-	7-8	7-8	800	1	4
Malin Head	1011·4	+18	S	4	c	50	85	8	4	9	-	4-6	7-8	4000	0	2
Aldergrove	1014·0	+12	SW	4	c/r	51	85	7	6	-	-	10	10	1500	1	*
Birr Castle	1013·5	+2	SSW	2	c/r	51	92	7	6	2	-	4-6	10	800	1	*
Valentia Obsy. †	1011·1	+6	S	5	id	52	92	6	5	-	-	10	10	800	1	4
Roches Point	1015·4	-2	SSW	4	o	49	97	7	5	-	-	10	10	800	1	4

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine Hrs. (36)
London (Kew)	50	32	18	-	Tr	3·5
Croydon	50	36	32	-	-	2·8
S. Farnborough	50	35	32	0·1	Tr	3·1
Boscombe Down	50	33	30	-	0·2	3·2
Calshot (Sthmtn.)	50	38	33	0·1	Tr	3·1
Lympne	48	37	24	-	-	8·1
Manston	49	35	30	-	0·1	7·3
Shoeburyness	49	36	25	-	-	4·1
Felixstowe	47	36	27	-	-	3·8
Gorleston	49	36	33	-	-	2·8
Mildenhall	49	38	32	-	Tr	2·1
Cranwell	49	37	32	-	-	0·4
Birmingham	48	38	35	-	Tr	0·6
Upper Heyford	50	34	24	-	-	*
Ross-on-Wye	51	36	26	-	-	0·4
Hartland Point	54	44	42	-	-	5·5
Bristol	51	43	37	-	-	2·3
Portland Bill	48	41	*	-	-	*
Plymouth	52	44	41	-	[illegible]	4·0
The Lizard	51	47	*	-	-	6·7
Scilly (St. Mary's)	54	49	*	-	Tr	6·4
Guernsey	51	42	35	-	-	8·6
Pembroke	49	46	*	-	0·2	0·8
Holyhead	49	46	46	-	-	0·0
Chester (Sealand)	52	43	37	-	-	2·0
Manchester	51	41	34	-	-	0·8
Spurn Head	46	38	*	-	Tr	0·7
Catterick	49	43	35	-	0·1	1·1
Tynemouth	51	47	40	-	-	1·8
St Abbs Head	49	46	*	-	-	*
Leuchars	52	47	43	Tr	2	2·0
Renfrew (Abbots I.)	51	49	45	0·1	1	0·1
Eskdalemuir	44	43	43	3	19	0·0
Point of Ayre	52	49	*	-	0·2	0·9
Tiree	(50)	45	44	Tr	-	0·0
Stornoway	51	44	*	0·2	7	0·0
Dalwhinnie	47	42	39	2	4	0·0
Aberdeen	51	47	38	-	Tr	0·0
Wick	51	44	*	Tr	0·2	*
Lerwick	53	46	*	0·2	0·6	0·0
Blacksod Point	53	41	*	2	1	*
Malin Head	54	47	*	-	Tr	1·0
Aldergrove	52	49	44	-	2	0·0
Birr Castle	54	50	44	0·1	1	0·4
Valentia Obsy. †	54	51	48	0·4	0·5	0·3
Roches Point	49	48	*	2	-	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	bffxcm₀	cbcbm₀	bm₀bfb₀	50	32	18	-	Tr	3·5	•	•	2
Croydon	217	bcfcm₀	cbcbm₀z	bm₀wx	50	36	32	-	-	2·8	•	•	2
Greenwich (Royal Observatory)	149	bcm₀	cb	bx	50	35	25	-	Tr		81	91	5
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0·2	•	•	•
Westminster (St James' Park)	27	•	•	•	51	34	25	Trace		0·8	77	97	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	51	39	30	-	-	0·8	71	83	•
Camden Square	110	bc	b	•	50	37	26	-	-	•	•	91	•
Kensington	80	bcz	bcz	•	50	34	25	-	-	0·2		At 18h. 95	•
Hampstead Observatory	450	bc	bc	bcm	*	38	39	-	-	0·7	77	93	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

	Max.	Time.	Min.	Time.
South Kensington	0·3	14-15h 4th	<0·3	1-2h 5th
Kew Observatory	0·5	18h 5th	0·1	6h 6th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 5th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 6th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1031·7	SSE	2	bf	41	1030·2	-	0	m	23	48	23	-	-
Brussels	1031·0	SW	3	o/d	39	1029·6	S	2	bc	30	43	30	Tr	-
Berlin	1024·7	WSW	4	c	39	1027·7	W'S	3	z	39	41	37	-	-
Zürich	1034·0	SE	1	cf	27	961·3	SW	1	F	23	32	23	-	-
Rome	1027·4	NW	1	b	50	1026·3	ENE	3	b	32	•	•	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

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.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 7th February, 1939
No. 28201

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1026·5	−6	S	2	Z₀	47	85	5	–	–	–	0	0	–
	Croydon ...	1027·0	−2	SSW	4	Z₀	51	75	6	5	–	–	Tr	Tr	2500
	S. Farnborough	1026·7	−6	SSW	3	b	51	65	7	1	–	–	Tr	Tr	2500
	Boscombe Down	1026·2	+2	S'E	3	Z₀	50	75	6	5	–	–	2-3	2-3	800
	Calshot (Sthmtn.)	1027·1	+2	S	1	b	49	85	7	1	–	–	1	1	2500
	Lympne ...	1028·8	−2	SW'S	3	b	48	75	6	–	–	–	0	0	–
	Manston ...	1028·1	−6	SSW	3	b	49	78	6	–	–	–	0	0	–
2	Shoeburyness ...	1027·5	−4	SSW	4	b	46	85	6	–	–	–	0	0	–
	Felixstowe ...	1027·9	+2	SW	2	Z₀	43	92	6	–	–	–	0	0	–
	Gorleston ...	1026·4	−2	SW	4	b	51	55	6	–	–	–	0	0	–
	Mildenhall ...	1025·6	−2	SSW	4	m	52	55	4	–	–	–	0	0	–
	Cranwell ...	1023·7	−6	S'W	4	b	52	55	7	–	–	–	0	0	–
3	Birmingham ...	1024·0	0	S	3	b	48	75	6	–	–	–	0	0	–
	Upper Heyford	1025·6	−6	S'W	3	b	50	65	7	–	–	–	0	0	–
4	Ross-on-Wye	1023·3	−12	S	3	b	53	65	7	1	–	–	1	1	2500
5	Hartland Point	1021·8	−4	SSW	4	bc	55	65	8	1	–	–	2-3	2-3	2500
	Bristol ...	1024·9	−4	S	4	b	53	75	7	4	–	–	1	1	1500
	Portland Bill ...	1025·6	+6	S	3	bc	49	85	7	5	–	–	2-3	2-3	2500
	Plymouth ...	1024·3	−8	S	4	b	52	75	8	1	–	1	Tr	Tr	1500
	The Lizard ...	1023·4	−6	S	5	bc	51	85	8	4	–	–	2-3	2-3	2500
	Scilly (St. Mary's)	1021·3	−4	SSE	5	bc	53	92	7	5	4	–	1	2-3	2500
	Guernsey ...	1026·5	0	S'E	2	b	47	85	7	–	–	–	0	0	–
6	Pembroke ...	1021·0	0	SW'S	5	bcq	50	85	7	5	4	–	2-3	2-3	2500
7	Holyhead ...	1018·7	−2	S'W	5	c	49	85	7	8	3	5	9	9	2500
	Chester (Sealand)	1020·9	+6	SSE	3	b	57	65	7	5	–	–	Tr	Tr	2500
8	Manchester	1021·9	−2	SSE	4	Z₀	53	65	6	7	3	–	2-3	7-8	5700
10	Spurn Head ...	1022·6	−2	SW'S	3	bc	51	75	7	–	4	8	0	2-3	–
	Catterick ...	1019·9	−2	SSW	3	Z₀	51	75	6	5	–	–	9+	9+	1500
	Tynemouth ...	1018·7	+6	SW	3	c	51	75	6	8	–	–	7-8	7-8	1500
11	St. Abbs Head...	1014·5	−4	SW	7	cq	49	85	8	8	6	–	4-6	7-8	1500
	Leuchars ...	1014·1	+2	SW	3	c	52	85	7	9	–	9	7-8	7-8	1500
12	Renfrew (Abbots I.)	1014·4	0	SSW	4	c	54	85	7	8	7	–	4-6	9+	1500
	Eskdalemuir ...	1016·9	+2	SSW	6	dF	45	97	1	–	–	–	10	10	1150
	Point of Ayre...	1017·6	+4	SW	5	c	51	92	7	5	7	–	9	10	800
13A	Tiree	1008·4	−12	SSE	5	c	50	97	7	5	3	–	4-6	7-8	2500
13B	Stornoway ...	1007·1	−2	S	4	d	48	92	7	5	7	–	9	10	1500
15	Dalwhinnie ...	1012·4	+2	S	4	c	48	85	6	4	2	–	4-6	10	1500
	Aberdeen ...	1013·0	+12	SW'S	4	bc	53	85	7	8	9	–	2-3	4-6	1500
	Wick ...	1010·1	+10	SSW	3	c	47	85	8	5	1	5	4-6	9	1500
16	Lerwick ...	1007·8	+36	WSW	6	c	46	85	8	8	3	–	4-6	7-8	1500
17	Blacksod Point	1008·0	−18	SSE	8	cq	54	92	8	9	–	–	10	10	800
18	Malin Head ...	1009·4	−18	S	5	c	54	75	7	8	–	–	9	9	1500
	Aldergrove ...	1013·8	−4	SW'S	4	ir₀	52	85	8	6	–	–	10	10	1500
19	Birr Castle ...	1013·2	−12	SSW	3	c	53	85	7	6	2	–	4-6	10	800
20	Valentia Obsy. †	1009·6	−10	S	7	Z₀	55	85	6	5	–	–	10	10	800
	Roches Point	1015·0	−4	SW	5	c	50	92	7	5	–	–	9+	9+	800

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

District	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1026·0	+2	SSE	2	Z₀	43	85	6	–	–	–	0	0	–	1	*
	Croydon ...	1026·4	+2	S'E	4	Z₀	44	85	6	–	–	8	0	Tr	–	1	*
	S. Farnborough	1026·2	+4	SSE	3	Z₀	42	85	6	–	–	5	0	Tr	–	1	*
	Boscombe Down	1026·4	+12	S	3	Z₀	39	97	6	5	4	5	1	2-3	2500	1	*
	Calshot (Sthmtn.)	1026·3	+2	ESE	3	Z₀	42	92	6	–	7	–	0	Tr	–	1	2
	Lympne ...	1028·2	+8	S'W	2	Z₀	40	92	5	–	–	–	0	0	–	1	§
	Manston ...	1027·4	+10	S	3	Z₀	40	92	6	–	–	1	0	Tr	–	1	*
2	Shoeburyness ...	1026·8	+6	S	1	b	41	85	6	–	–	–	0	0	–	1	*
	Felixstowe ...	1026·9	0	S	2	Z₀	38	92	6	–	–	–	0	0	–	0	1
	Gorleston ...	1025·9	+4	SW'S	1	b	44	85	6	–	–	–	0	0	–	0	1
	Mildenhall ...	1025·3	+2	S'E	3	m	45	85	4	–	–	–	0	0	–	0	*
	Cranwell ...	1023·7	+6	S'E	3	b	44	85	7	–	4	–	0	Tr	–	1	*
3	Birmingham ...	1023·8	0	SSE	3	b	47	85	6	–	–	1	0	1	–	1	*
	Upper Heyford	1025·3	+2	SSE	3	b	43	85	7	–	4	1	0	1	–	1	*
4	Ross-on-Wye	1023·5	+4	S	3	b	47	75	6	–	–	1	0	1	–	1	*
5	Hartland Point	1021·5	0	S	4	bc	48	85	8	5	1	4	2-3	4-6	2500	0	3
	Bristol ...	1024·8	−2	SSE	2	bc	44	85	7	5	–	5	Tr	2-3	1500	1	*
	Portland Bill ...	1024·9	−12	S	3	bc	46	92	7	5	–	–	4-6	4-6	2500	1	3
	Plymouth ...	1023·6	+2	SSE	3	bc	47	85	8	–	–	6	0	4-6	–	1	3
	The Lizard ...	1022·8	−2	S	5	bc	48	92	8	4	4	–	4-6	4-6	2500	1	3
	Scilly (St. Mary's)	1020·0	−6	S'E	5	c	49	97	7	5	4	9	1	7-8	2500	1	3
	Guernsey ...	1025·7	+2	SSE	1	b	47	65	7	–	–	–	0	0	–	1	1
6	Pembroke ...	1019·6	−2	SSW	6	cq	49	85	7	5	7	–	2-3	7-8	2500	1	3
7	Holyhead ...	1017·4	−4	SSW	5	c	49	75	8	1	7	6	Tr	9+	2500	0	3
	Chester (Sealand)	1020·8	+16	SE'E	2	Z₀	48	85	5	–	3	2	0	1	–	0	*
8	Manchester	1021·3	+8	SSE	4	Z₀	48	85	6	–	–	6	0	4-6	–	1	*
10	Spurn Head ...	1022·6	−2	S'W	3	bc	44	85	7	–	4	8	0	2-3	–	0	2
	Catterick ...	1019·4	+2	SSW	3	Z₀	49	75	6	–	5	4	0	4-6	–	1	*
	Tynemouth ...	1018·7	+2	SW	3	bc	51	75	6	8	–	–	4-6	4-6	1500	1	1
11	St. Abbs Head...	1012·0	−20	SW	8	cq	49	86	8	8	6	–	4-6	7-8	1500	0	4
	Leuchars ...	1013·4	−6	SSW	6	c	51	85	7	5	–	–	10	10	800	1	*
12	Renfrew (Abbots I.)	1012·9	−10	S'W	5	Z₀	51	85	6	5	–	–	9+	9+	1500	1	*
	Eskdalemuir ...	1016·3	−2	SSW	6	c	45	92	7	5	–	–	10	10	1500	1	*
	Point of Ayre...	1015·5	−10	SW	6	c	49	75	7	5	7	–	4-6	10	4000	1	3
13A	Tiree	1004·7	−14	S'E	6	rr	49	97	6	–	2	–	10	10	1500	1	5
13B	Stornoway ...	1002·5	−40	S	9	pr	50	85	6	8	7	–	4-6	10	2500	1	4
15	Dalwhinnie ...	1009·5	−20	S	5	c	47	85	6	4	2	–	4-6	10	1500	1	*
	Aberdeen ...	1012·4	−4	SW'S	4	c	50	85	5	5	7	–	9	10	1500	1	1
	Wick ...	1007·3	−14	SSW	4	c	48	92	8	5	1	9	4-6	9+	1500	1	1
16	Lerwick ...	1007·7	−4	SSW	5	c	45	92	7	8	3	–	4-6	7-8	800	1	*
17	Blacksod Point	1001·6	−20	S	9	cq	50	97	7	9	–	–	10	10	450	1	5
18	Malin Head ...	1005·2	−44	S	7	c	53	85	7	6	2	–	7-8	9+	1500	0	3
	Aldergrove ...	1010·7	−16	SW'S	5	c	51	75	7	5	–	–	10	10	1500	1	*
19	Birr Castle ...	1010·7	−14	S	5	c/r	51	85	7	6	2	–	4-6	10	800	1	*
20	Valentia Obsy. †	1007·8	−6	S	7	rr	52	97	5	6	–	–	10	10	450	1	5
	Roches Point	1012·5	−16	SSW	7	c	50	85	7	6	7	–	4-6	10	1500	1	4

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 6th (37)	Weather. 13h.—18h. 6th (38)	Weather. 18h. 6th to 1h. 7th (39)	Weather. 1h.—7h. 7th (40)
1	London (Kew)	bm₀fxbm₀	bzbm₀	bm₀x	bm₀x
	Croydon ...	bfbm₀	czm₀	bm₀w	bm₀wx
	S. Farnborough	bm₀fbm₀b	bbz₀	bm₀wx	bm₀xb
	Boscombe Down	cfcm₀bm₀	bm₀bbcm₀	bm₀	bcm₀x
	Calshot (Sthmtn.)	bxm₀bcm₀	bm₀w	bwm₀bw	bwbwm₀
	Lympne ...	bifbccb	bz₀m₀	bm₀wx	bm₀x
	Manston ...	bfm₀	bz₀bm₀	bm₀w	bm₀xw
2	Shoeburyness ...	xm₀fbz₀	bz₀	b	bx
	Felixstowe ...	bmfefebm₀	bm₀w	bm₀w	bm₀
	Gorleston ...	bcbyz₀	byz₀	bz₀w	bbcwx
	Mildenhall ...	bmywbmby	bm₀wbm	bmbm₀x	bm₀x
	Cranwell ...	by	byb	bbm₀	bm₀bxb
3	Birmingham ...	b	b	bbc	bcpr₀
	Upper Heyford	bmz₀	b	bbm₀	bm₀x
4	Ross-on-Wye	mbbz₀	b	bbccm₀bc	cbcc
5	Hartland Point	bc	bc	bc	bcc
	Bristol ...	bcqb	b	bbcq	bbcq
	Portland Bill ...	bc	bc	b	bcc
	Plymouth ...	bcm₀,b	bbc	bcbbc	bcc
	The Lizard ...	bc	bc	bccw	c
	Scilly (St. Mary's)	bc	bcc	cbcc	cd₀
	Guernsey ...	bbc	b	bw	bwbcc
6	Pembroke ...	cbcq	bccq	bccq	cir₀q
7	Holyhead ...	m₀idc	cbcc	cbcc	cd₀d₀m₀c
	Chester (Sealand)	cr₀bz₀	bbcbm₀	bbcm₀	bcm₀c
8	Manchester	cpr₀bz₀	bcbz₀	bcm₀bccm₀	bcm₀crr
10	Spurn Head ...	bwbc	bcbbc	bccw	c
	Catterick ...	cm₀	cbbcm₀	bcm₀cm	cmm₀ir₀
	Tynemouth ...	bcc	cbc	bcc	coirc
11	St. Abbs Head...	cq	cq	cq	irqc
	Leuchars ...	cirpr₀c	c	cir₀c	irr₀r₀c
12	Renfrew (Abbots I.)	ir₀d₀m₀c	ccm₀	coRRr	rRRro
	Eskdalemuir ...	rrdd₀ff	dd₀ffc	bccrr	orrm₀
	Point of Ayre...	c	c	cir₀	cprc
13A	Tiree	bccd₀c	cd₀c	orridr	c
13B	Stornoway ...	cprd₀	cpr	cRR	cpr₀
15	Dalwhinnie ...	cir	cir	•	cir
	Aberdeen ...	bbc	bccz₀	cz₀	cz₀
	Wick ...	ccpr	c	cq	c
16	Lerwick ...	cirpr	cp₀	crrqm₀	crrirq
17	Blacksod Point	pr₀cq	iDq	PRcq	PRcq
18	Malin Head ...	bcc	cpr₀c	cpr₀cid	c
	Aldergrove ...	cbccir₀	cir₀c	ir₀cir₀	r₀r₀rc
19	Birr Castle ...	cir₀c	cir₀	cir₀	cir₀
20	Valentia Obsy. †	id₀pr₀m₀	r₀r₀rr	rrr₀r₀	r₀r₀dd
	Roches Point	bid₀c	cid₀c	cdrdr	ddffe

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

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

COLUMN 29.—STATE OF GROUND.

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

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

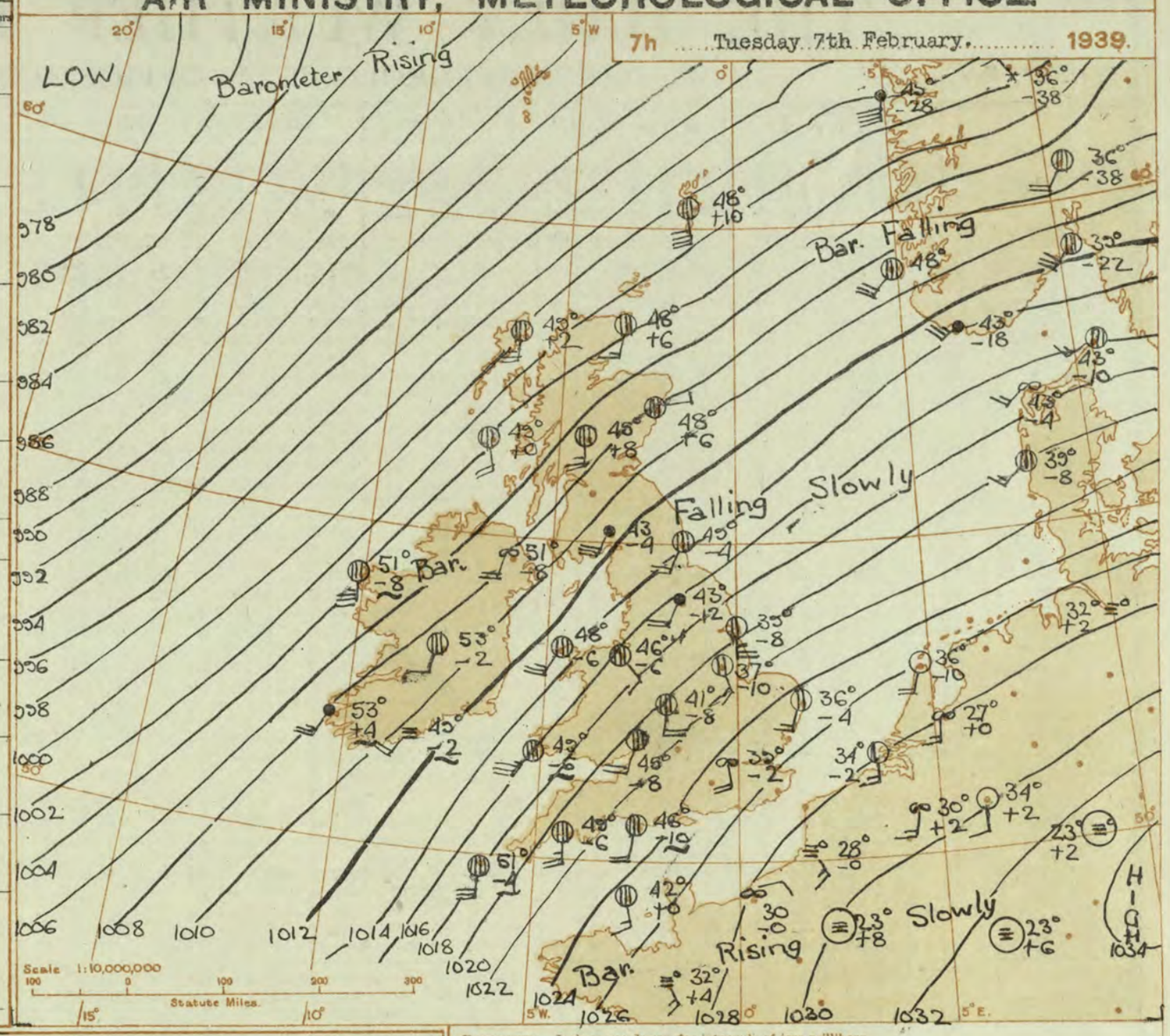
† Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 6th February 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 5th 9h. to 6th 9h.	Temperature. (°F.) Max. 9h.—17h. 6th	Rainfall. (min.) Night. 5th 17h. to 6th 9h.	Rainfall. (min.) Day. 9h.—17h. 6th	Sunshine (hrs) Sunrise to Sunset, 6th
1	Tunbridge W.	mb	b	27	51	-	-	7.4
	Bournemouth	b	b	37	50	-	-	8.0
	Ventnor ...	xbz	b	41	51	-	-	8.5
	Southsea ...	b	b	35	51	-	-	8.7
	Bognor Regis	bbcb	b	36	48	0.3	-	8.5
	Littlehampton	bbc	bcb	39	49	-	-	8.9
	Worthing ...	b	b	35	51	-	-	8.8
	Brighton ...	b	b	31	48	-	-	8.5
	Eastbourne† ...	b	b	35	51	0.1	-	8.4
	Hastings† ...	b	b	39	50	0.3	-	8.5
	Folkestone ...	mbcb	bbm	35	50	-	-	7.3
	Dover ...	ocbc	bc	40	49	Trace	-	6.1
	Deal	cb	b	37	48	-	-	7.1
	Ramsgate ...	bc	bc	37	47	-	-	8.0
	Margate ...	bc	bc	38	52	-	-	8.0
2	Southend ...	bfb	b	36	52	Trace	-	6.4
	Clacton-on-Sea	bcfmf	bomb	36	46	Trace	Trace	5.4
	Dovercourt ...	xocf	bc	34	48	-	-	6.1
	Lowestoft ...	b	bom	35	50	-	-	8.0
	Skegness ...	b	b	39	50	-	-	8.1
	Mablethorpe...	b	b	35	52	-	-	7.5
	Cleethorpes ...	bc	bbc	38	55	-	-	8.2
3	Leamington S.	bcb	b	38	54	-	-	8.0
4	Cheltenham†	b	b	38	53	-	-	7.4
5	Bath	bcb	b	38	55	-	-	7.0
	Weymouth ...	b	b	36	52	-	-	8.0
	Jersey ...	b	b	41	52	-	-	8.9
	Torquay ...	wbmb	b	36	52	-	-	8.0
	Falmouth	b	b	47	55	-	-	7.7
	Penzance ...	b	b	48	53	-	-	7.6
	St. Ives ...							
	Bude... ...	wb	b	44	56	-	-	7.8
	Ilfracombe ...	cbcb	bcbbc	45	57	-	-	8.2
6	Aberystwyth	cprbc	bcc	46	56	0.3	-	6.5
7	Llandudno ...	bcb	bcbbc	49	56	-	-	6.3
	Colwyn Bay...	bcb	bcb	48	55	-	-	5.7
	Rhyl	cbc	bcb	48	57	0.1	-	3.9
8	Wallasey ...	mcbc	bccbc	43	58	-	-	4.0
	Southport ...	cbccz	bczbz	41	56	0.5	-	3.3
	Blackpool ...	bcom	bcmbc	41	55	0.3	-	2.8
	Morecambe ...	bc	bc	42	53	-	-	1.7
9	Ilkley... ...	bc	bc	42	54	-	-	3.8
	Harrogate ...	cbc	cbcb	42	53	-	-	4.7
10	Berwick-on-T.	cdo	c	46	51	-	Trace	0.2
11	Dunbar ...	bc	bc	46	51	-	-	2.1
12	Troon... ...	oc	bcoco	47	50	1	-	0.8
	Douglas ...	cidof	ofbc	46	48	1	-	0.0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 7th February, 1939.

Districts.	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ...	Wind southerly light to moderate; fine during day, cloud probably increasing during night; mild.
4 W. Midlands ... 5 S.W. England 6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotland B. N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind south to southwest, fresh to strong, gale at times in exposed places; mainly cloudy, rain or drizzle, occasional in most places, but more continuous in hilly districts; mild.

GENERAL INFERENCE.

An anticyclone persists over Switzerland, while a deep depression southwest of Iceland is filling up. There are indications of a new disturbance developing in mid-Atlantic. Weather will continue fine or fair in East and Southeast England, but elsewhere there will be occasional rain or drizzle with southerly winds strong to gale.

FURTHER OUTLOOK.

Probably becoming less mild in the North, little change in the South.

Time of Issued of Gale Warnings.

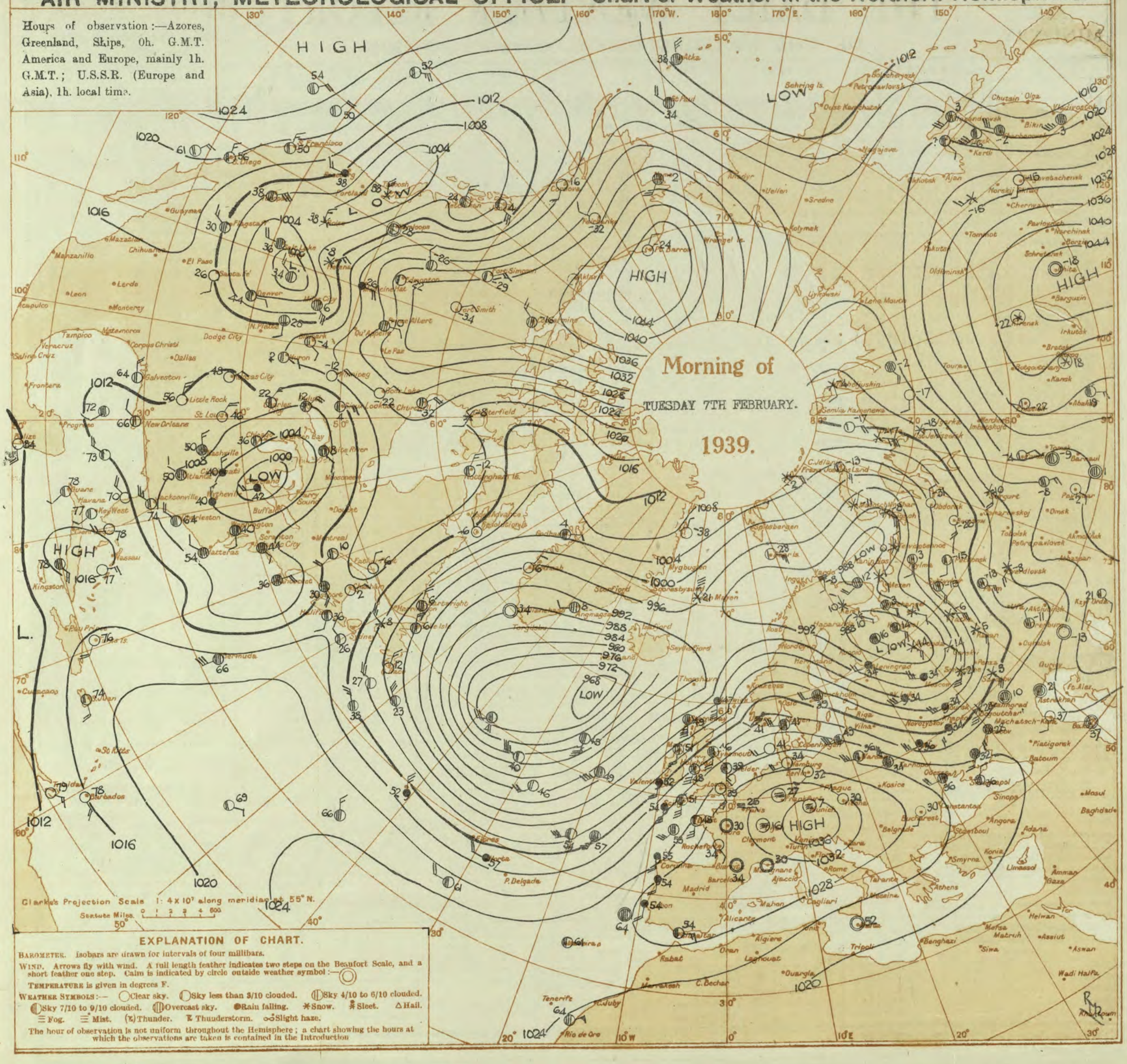
South cone hoisted at 0200 on 6th in districts 12, 15, 13A, 13B, 16, 17, 18, 20 and at 0915 on 6th in districts 6,7,8,12,19 and part of 5 and at 1940 on 6th in districts 10 and 11.

Forecasts issued at 1000 G. M. T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 7th February, 1939
No. 28201

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1026·3	-2	S'E	3	Z_0	39	85	6	-	-	-	0	0	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1028·1	-2	S'W	2	Z_0	38	92	5	-	-	-	0	0	-
	Manston ...	154	1027·4	0	S	2	Z_0	37	85	5	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1025·5	-2	SW'S	1	b	37	65	6	-	-	-	0	0	-
	Mildenhall ...	19	1025·0	-2	S'E	2	Z_0	33	92	6	-	-	-	0	1	-
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1019·8	-6	S	5	bc	46	92	8	2	5	5	1	4-6	2500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1023·9	-4	SSW	4	b	47	85	8	-	-	-	0	0	-
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1021·5	-4	S	5	c	49	85	8	4	-	-	7-8	7-8	2500
	Scilly (St. Mary's)	163	1018·7	-2	S'W	6	c	51	92	8	5	7	-	7-8	10	1500
	Guernsey ..	175	1025·8	0	SSE	3	b	44	75	7	-	-	-	0	0	-
6	Pembroke ...	142	1018·8	-2	SSW	6	cq	48	85	7	5	2	-	7-8	9+	1500
7	Holyhead ...	26	1014·9	-10	SSW	6	c	48	65	8	5	7	-	4-6	10	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1022·6	-2	S'W	3	c	39	85	7	-	4	8	0	7-8	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1015·5	-14	S	4	c	46	75	6	5	-	-	9+	9+	1500
11	St Abbs Head ..	280	1009·4	-14	SW	8	cq	49	65	8	5	2	-	7-8	10	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1013·2	-4	SW'S	7	ir	49	75	7	5	2	-	7-8	10	800
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	999·8	+10	S	7	c	49	92	7	6	-	-	10	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1001·6	-20	SSW	6	c	48	85	7	5	2	-	7-8	10	1500
16	Lerwick ...	156	1000·0	-32	S	8	rr	47	97	6	6	2	-	4-6	10	800
17	Blacksod Point	18	1004·7	+10	S	5	c	51	97	7	9	-	-	10	10	800
18	Malin Head ...	84	1005·9	+18	S	4	c/d	51	92	7	8	1	-	7-8	9	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1007·8	+2	S	4	dd	52	92	6	5	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1024·5	-4	SSW	2	Z_0	37	92	6	-	-	1	0	1	-	3	*
	Croydon ...	1026·5	-2	S'E	4	Z_0	39	85	6	5	-	-	Tr	Tr	4000	1	*
	S. Farnborough	1024·8	-4	SSE	2	bc	37	85	7	-	3	5	0	2-3	-	3	*
	Boscombe Down	1024·3	-8	S'E	3	bc	37	97	6	-	-	8	0	2-3	-	3	*
	Calshot (Sthmtn.)	1024·9	0	SE'E	3	Z_0	43	75	6	-	4	-	0	Tr	-	1	2
	Lympne ...	1027·1	0	SSW	2	Z_0	38	92	5	-	-	1	0	Tr	-	1	§2
	Manston ...	1026·1	-2	S'W	4	Z_0	37	85	5	-	-	6	0	1	-	1	*
2	Shoeburyness ...	1025·7	-2	SSW	1	b	37	92	8	-	-	1	0	Tr	-	1	*
	Felixstowe ...	1025·7	0	SW	3	Z_0	38	92	5	-	-	1	0	Tr	-	0	2
	Gorleston ...	1024·4	-4	SSW	3	bc	36	85	6	-	4	1	0	2-3	-	0	2
	Mildenhall ...	1023·4	-2	S	2	Z_0	37	65	6	-	1	1	0	2-3	-	0	*
	Cranwell ...	1021·2	-10	SSE	3	bc	37	75	7	-	4	6	0	2-3	-	3	*
3	Birmingham ...	1020·4	-8	S	4	c	41	75	7	5	7	6	Tr	7-8	1500	1	*
	Upper Heyford	1023·6	-8	SSE	3	Z_0	36	85	6	-	-	6	0	4-6	-	1	*
4	Ross-on-Wye	1020·7	-8	SSW	4	c	45	75	7	5	7	1	7-8	9	2500	1	*
5	Hartland Point	1018·1	-10	SSW	5	c	51	85	8	5	-	-	9+	9+	2500	0	3
	Bristol ...	1021·5	-6	SSW	5	bc	46	75	7	5	3	6	2-3	4-6	1500	1	*
	Portland Bill ...	1022·8	-10	SSW	4	c	46	92	7	5	-	-	7-8	7-8	2500	1	3
	Plymouth ...	1021·8	-6	S	5	c	49	85	8	5	-	-	9+	9+	4000	1	4
	The Lizard ...	1020·5	-8	S'W	5	c	50	85	7	8	2	-	7-8	9+	2500	1	2
	Scilly (St. Mary's)	1017·2	-4	S'W	6	c/d	51	97	6	5	-	-	10	10	1500	1	4
	Guernsey ..	1025·0	0	SSE	3	c	42	97	7	5	3	-	4-6	7-8	2500	1	3
6	Pembroke ...	1016·6	-6	SW	7	cq	49	92	7	5	2	-	7-8	10	1500	1	4
7	Holyhead ...	1013·2	-6	SW'S	5	c/d	48	92	6	5	2	-	7-8	10	450	1	3
	Chester (Sealand)	1016·8	-6	SE	2	c	46	85	7	5	-	-	10	10	2500	1	*
8	Manchester ...	1017·7	-8	SSE	3	r_0r_0	44	85	6	5	2	-	4-6	10	2500	1	*
10	Spurn Head ...	1019·2	-8	S'W	5	bc	39	85	6	5	8	2	2-3	4-6	4000	0	3
	Catterick ...	1015·1	-12	SSW	4	ir_0	43	85	6	6	7	-	4-6	9+	1500	1	*
	Tynemouth ...	1013·5	-4	SSW	4	c	49	75	7	8	-	-	9	9	1500	1	1
11	St Abbs Head ..	1008·8	-2	SW	8	ir	47	85	8	8	2	-	7-8	10	1500	1	4
	Leuchars ...	1009·3	-6	SW	4	c/r	47	92	8	6	2	-	9	10	800	1	*
12	Renfrew (Abbotsl.)	1008·8	-6	SSW	3	rr	49	92	6	6	-	-	10	10	800	2	*
	Eskdalemuir ...	1012·1	-4	SW'S	6	rr	43	97	5	6	-	-	10	10	220	2	*
	Point of Ayre ...	1011·4	-6	SW	6	ir_0	50	97	7	5	2	-	4-6	10	1500	1	3
13A	Tiree	1004·3	0	S'E	4	c	49	97	7	5	-	-	9+	9+	1500	1	*
13B	Stornoway ...	1001·5	+2	S	5	c	49	92	7	5	2	-	7-8	10	1500	1	3
15	Dalwhinnie ...	1007·3	+8	S	5	c	45	85	6	4	2	-	4-6	10	1500	1	*
	Aberdeen ...	1007·3	+6	ENE	1	c	48	85	6	6	-	-	9+	9+	800	1	1
	Wick ...	1003·3	+6	SSW	3	c	48	92	8	5	1	-	4-6	10	1500	1	2
16	Lerwick ...	1000·5	+10	S	8	c	48	92	7	8	3	-	4-6	7-8	1500	1	*
17	Blacksod Point	1004·2	-8	S	7	c	51	92	7	9	-	-	9+	9+	800	1	6
18	Malin Head ...	1005·0	-16	S	3	c	53	92	7	8	-	-	7-8	7-8	2500	0	3
	Aldergrove ...	1008·0	-8	SW'S	4	Z_0	51	92	6	5	-	-	10	10	800	1	*
19	Birr Castle ...	1009·0	-2	SSW	2	c/r	53	92	7	6	2	-	4-6	10	800	1	*
20	Valentia Obsy. †	1008·6	+4	SSW	5	dd	53	97	6	5	-	-	10	10	220	1	5
	Roches Point	1011·2	-2	SW	4	f	49	97	3	5	-	-	10	10	450	1	4

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 6th Hrs. (36)
1	London (Kew)	51	33	17	Tr	Tr	7·6
	Croydon ...	52	36	32	-	-	7·0
	S. Farnborough	52	34	25	0·1	Tr	8·2
	Boscombe Down	52	34	26	-	0·2	5·4
	Calshot (Sthmtn.)	51	38	33	Tr	Tr	8·6
	Lympne ...	49	37	28	-	0·1	7·3
	Manston ...	50	35	31	Tr	Tr	7·8
2	Shoeburyness ...	50	36	23	-	-	7·6
	Felixstowe ...	47	37	31	0·2	-	5·6
	Gorleston ...	52	34	32	-	-	8·1
	Mildenhall ...	52	*	25	-	-	7·9
	Cranwell ...	53	33	27	-	-	8·4
3	Birmingham ...	51	39	34	-	0·1	7·7
	Upper Heyford	53	35	28	-	-	*
4	Ross-on-Wye	54	41	34	-	-	8·1
5	Hartland Point	56	45	43	-	-	7·5
	Bristol ...	54	40	30	-	-	8·2
	Portland Bill ...	(49)	42	*	-	-	*
	Plymouth ...	52	47	43	-	-	7·7
	The Lizard ...	51	48	*	-	-	7·6
	Scilly (St. Mary's)	53	49	*	-	Tr	7·8
	Guernsey ..	50	41	37	-	-	8·5
6	Pembroke ...	51	46	*	3	0·1	5·9
7	Holyhead ...	52	46	45	Tr	0·4	1·5
	Chester (Sealand)	59	41	38	Tr	-	5·8
8	Manchester ...	54	41	34	Tr	1	5·3
10	Spurn Head ...	52	38	*	Tr	Tr	8·3
	Catterick ...	53	40	36	-	Tr	0·7
	Tynemouth ...	52	45	41	-	1	0·8
11	St Abbs Head ..	51	46	*	-	Tr	*
	Leuchars ...	54	45	43	0·6	1	0·2
12	Renfrew (Abbotsl.)	54	47	45	Tr	25	0·4
	Eskdalemuir ...	45	41	41	2	14	0·0
	Point of Ayre ...	54	47	*	-	2	1·0
13A	Tiree	51	47	46	0·5	2	0·0
13B	Stornoway ...	52	46	*	0·2	6	0·1
15	Dalwhinnie ...	49	43	42	0·5	6	1·3
	Aberdeen ...	53	48	46	-	-	2·2
	Wick ...	50	46	*	Tr	-	*
16	Lerwick ...	49	43	*	1	3	3·7
17	Blacksod Point	55	45	*	2	15	*
18	Malin Head ...	55	49	*	0·2	0·1	2·2
	Aldergrove ...	52	48	46	Tr	3	0·1
19	Birr Castle ...	53	50	47	0·1	5	0·0
20	Valentia Obsy. †	(55)	52	50	5	10	0·0
	Roches Point	51	48	*	0·1	4	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew ...	18	bm_0fxb	bz_0bm_0	bm_0x	51	33	17	Tr	Tr	7·6	*	*	5
Croydon ...	217	$bfbm_0$	cz_0m_0	bm_0wx	52	36	32	-	-	7·0	*	*	6
Greenwich (Royal Observatory) ...	149	b	b	bx	53	34	24	-	Tr	7·8	61	72	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	52	36	25	Tr		7·0	69	81	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	52	38	28	-	-	6·1	73	75	*
Camden Square ...	110	bc	b	*	52	38	27	-	-	*	*	83	*
Kensington ...	80	bc	bcm	*	52	36	26	-	0·2	6·2	At 18h. 72	74	*
Hampstead Observatory ...	450	bc	bc	bcm	50	38	29	-	-	6·7	*	81	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

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

Kew Observatory Max.	Time.	Min.	Time.
0·7	8h. 6th	0·1	5-6h. 7th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 6th February. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 7th February. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	1029·6	-	0	f	27	1030·6	-	0	F	23	43	21	-	-
Brussels ...	1029·4	SSW	2	b	37	1029·4	SSW	3	Z_0	30	48	28	-	-
Berlin ...	1028·3	SW	3	Z_0	39						46		-	
Zürich ...	1031·6	SW	1	F+	28	1033·5	W	1	f	23	34	23	-	Tr
Rome ...	1025·0	WNW	2	b	50	1026·3	NE	1	b	36	*	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 3, 22 — Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 7 ! See disturbance reported from Dungeness.

Page I.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 8th February, 1939

No. 28202

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1023·7	-8	S'W	4	zo	51	55	6	-	9	6	0	7-8	-
	Croydon	1024·4	-6	SSW	4	zo	53	55	6	-	4	6	0	4-6	-
	S. Farnborough	1024·2	-6	SW'S	3	zo	52	55	6	-	3	2	0	9	-
	Boscombe Down	1023·8	-2	S'W	4	c	48	75	7	5	3	6	4-6	7-8	2500
	Calshot (Sthmtn.)	1025·0	+2	S'W	5	zo	47	85	6	-	3	2	0	9	-
	Lympne	1026·7	-6	SW	4	bc	48	65	7	-	-	5	0	2-3	-
	Manston	1025·4	-10	SSW	4	zo	49	65	6	-	-	5	0	1	-
2	Shoeburyness	1024·7	-6	S'W	4	bc	49	65	6	-	-	6	0	4-6	-
	Felixstowe	1025·1	-6	SW	4	b	47	65	7	-	-	6	0	1	-
	Gorleston	1023·3	-8	SW'S	4	bc	51	85	6	-	4	1	0	2-3	-
	Mildenhall	1022·9	+4	S'W	4	zo	51	55	5	-	-	6	0	4-6	-
	Cranwell	1020·1	-6	SSW	5	c	51	65	8	5	7	8	9	9+	5700
3	Birmingham	1020·2	-2	SSW	4	c	48	65	7	-	7	-	0	10	-
	Upper Heyford	1022·7	-2	SSW	4	c	49	65	7	5	7	8	2-3	9+	5700
4	Ross-on-Wye	1020·2	-6	SSW	4	c	48	85	7	5	2	-	7-8	10	2500
5	Hartland Point	1017·8	-2	WSW	6	rr	51	97	7	6	2	-	7-8	10	1500
	Bristol	1021·9	+2	S'W	4	iro	49	75	8	6	7	-	4-6	9+	4000
	Portland Bill	1023·3	+4	SW	4	co	45	85	7	5	7	-	4-6	9	2500
	Plymouth	1021·7	-8	S'W	5	rr	49	92	5	-	2	-	10	10	1500
	The Lizard	1020·2	+4	SSW	6	rr	50	97	4	5	-	-	10	10	1500
	Scilly (St. Mary's)	1018·7	+8	S'W	5	id	51	97	5	5	-	-	10	10	800
	Guernsey	1025·0	0	S'W	4	c	47	85	7	-	3	-	0	7-8	-
6	Pembroke	1016·7	+2	SW	6	c/r	48	97	5	5	-	-	10	10	1500
7	Holyhead	1013·9	+2	SSW	5	dodo	48	97	6	6	2	-	9	10	220
	Chester (Sealand)	1016·3	+4	S'E	4	iro	52	75	8	5	2	-	7-8	10	4000
8	Manchester	1017·5	-4	SSE	4	iro	49	85	6	5	2	-	4-6	10	1500
10	Spurn Head	1018·6	-2	SSW	5	c	48	75	7	5	9	2	4-6	7-8	2500
	Catterick	1015·5	-2	S'E	2	iro	49	85	6	6	2	-	7-8	10	800
	Tynemouth	1013·5	0	SW	4	c/pr	51	85	5	8	2	-	7-8	9+	1500
11	St. Abbs Head	1008·5	0	SW	8	cq	49	85	8	3	6	-	4-6	9	1500
	Leuchars	1008·7	-8	SW	3	c/d	51	92	7	5	2	-	9+	10	800
12	Renfrew (Abbots I.)	1009·3	0	SSW	4	zo	53	85	6	5	1	-	4-6	10	800
	Eskdalemuir	1011·9	-2	SW'S	5	dd	44	97	4	6	-	-	10	10	<150
	Point of Ayre	1012·0	+2	SW	6	c	51	92	7	8	1	-	7-8	10	800
13A	Tiree	1005·5	+4	S'W	4	c	50	92	7	5	-	-	9	9	1500
13B	Stornoway	1001·5	-4	S	7	roro	50	92	6	5	7	-	7-8	9+	1500
15	Dalwhinnie	1007·5	+2	S	6	c	48	92	6	4	-	8	2-3	10	1500
	Aberdeen	1006·7	-4	SW'S	5	c	51	85	6	5	7	-	4-6	9+	800
	Wick	1003·7	-2	SSW	3	c	49	85	8	5	7	9	4-6	9+	1500
16	Lerwick	1001·8	+4	WSW	6	c	50	85	8	8	7	-	7-8	9	1500
17	Blacksod Point	1007·7	+30	SW	5	bc	52	85	8	9	-	4	2-3	4-6	1500
18	Malin Head	1006·6	+10	SSW	3	c⦶	54	85	8	8	-	6	2-3	7-8	2500
	Aldergrove	1009·4	+6	SW	4	c/d	54	92	8	6	-	-	10	10	800
19	Birr Castle	1011·0	+10	SSW	2	c	57	85	8	2	7	-	4-6	7-8	1500
20	Valentia Obsy. †	1012·8	+14	SW'S	5	c	54	92	7	5	-	-	9+	9+	1500
	Roches Point	1014·5	+16	SW	3	c	51	97	7	5	-	-	9+	9+	800

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1024·5	+10	SSW	3	roro	47	75	7	5	-	-	10	10	2500	1	*
	Croydon	1024·5	+6	SSW	4	zo	46	75	6	-	7	6	0	9+	-	1	*
	S. Farnborough	1024·1	+8	SW'S	3	roro	46	85	6	5	-	-	10	10	2500	1	*
	Boscombe Down	1023·9	+6	S	3	roro	44	97	6	-	2	-	10	10	1500	1	*
	Calshot (Sthmtn.)	1024·7	+2	S'W	4	roro	45	92	8	5	-	-	10	10	1500	1	2
	Lympne	1027·0	+10	SSW	3	zo	41	85	6	-	5	-	0	4-6	-	1	§ 3
	Manston	1025·5	+6	SSW	4	zo	43	75	6	-	3	-	0	7-8	-	1	*
2	Shoeburyness	1024·6	+10	SSW	4	c	45	75	6	-	9	-	0	7-8	-	1	*
	Felixstowe	1024·5	0	SW	3	c	44	75	7	5	3	-	7-8	9	1500	0	1
	Gorleston	1022·6	+6	SW'S	4	bc	46	65	6	5	7	-	4-6	9	2500	0	2
	Mildenhall	1022·1	+6	SSW	4	roro	50	55	6	5	-	-	10	10	5700	0	*
	Cranwell	1019·7	+2	SSW	4	iro	48	92	7	5	2	-	9	10	2500	1	*
3	Birmingham	1020·5	+2	SSW	3	c/r	46	97	6	6	-	-	10	10	800	1	*
	Upper Heyford	1022·8	+6	SSW	4	o/r	45	92	6	5	-	-	10	10	800	1	*
4	Ross-on-Wye	1020·4	+4	SSW	4	o/d	48	92	6	5	-	-	10	10	1500	1	*
5	Hartland Point	1013·8	+14	SW	5	dF	51	97	1	-	-	-	10	10	<150	1	4
	Bristol	1022·0	+6	SSW	5	rr	48	97	6	6	2	-	7-8	10	800	1	*
	Portland Bill	1023·1	-6	SW	4	pr	48	92	7	5	-	-	10	10	1500	1	3
	Plymouth	1022·4	+10	SSW	4	dd	49	97	4	-	2	-	10	10	220	1	2
	The Lizard	1022·4	+20	SW	3	of	50	97	2	5	-	-	10	10	450	1	2
	Scilly (St. Mary's)	1020·8	+16	SW'S	4	f	51	97	2	-	-	-	10	10	<150	1	3
	Guernsey	1025·2	+6	S'W	3	iro	49	85	7	5	2	-	9	10	2500	1	3
6	Pembroke	1019·5	+16	WSW	4	F+	48	97	1	-	-	-	10	10	<150	1	3
7	Holyhead	1016·1	+24	SW	4	of+	48	97	3	5	-	-	10	10	<150	1	3
	Chester (Sealand)	1018·2	+22	SSW	3	c	55	75	7	5	7	-	9	9+	1500	1	*
8	Manchester	1018·0	+10	S	3	zo	49	92	6	5	7	-	4-6	10	1500	1	*
10	Spurn Head	1018·3	0	SW'S	4	rr	45	92	6	5	-	-	10	10	1500	1	3
	Catterick	1015·6	+10	SSW	3	zo	50	85	6	6	7	-	7-8	9+	800	1	*
	Tynemouth	1013·2	+8	SW	4	c	52	85	6	8	-	-	7-8	7-8	1500	1	1
11	St. Abbs Head	1012·6	+20	SSW	3	bc	48	92	9	3	1	1	2-3	4-6	2500	0	3
	Leuchars	1009·8	+10	WSW	5	bc	52	92	6	5	-	8	4-6	4-6	800	1	*
12	Renfrew (Abbots I.)	1011·7	+22	SW	3	zo	51	85	6	4	-	1	Tr	1	2500	1	*
	Eskdalemuir	1013·2	+10	SW	5	F	45	97	1	-	-	-	10	10	<150	2	*
	Point of Ayre	1014·2	+18	S'W	4	bc	48	97	7	4	-	-	2-3	2-3	2500	1	2
13A	Tiree	1007·8	+16	SSW	6	bc	49	92	7	5	3	-	2-3	2-3	2500	0	4
13B	Stornoway	1003·6	+10	SSW	6	pr	49	92	6	5	7	-	9	10	1500	1	3
15	Dalwhinnie	*	+16	SW	4	bc	46	85	7	4	6	-	2-3	4-6	2500	1	*
	Aberdeen	1007·6	+8	SSW	3	bc	51	85	5	5	-	6	2-3	2-3	800	1	1
	Wick	1004·1	+12	S	2	bc	49	85	8	8	4	8	4-6	4-6	1500	1	2
16	Lerwick	1000·6	-4	WSW	7	c/pr	49	92	7	8	7	-	7-8	9	800	1	*
17	Blacksod Point	1010·5	+20	S	5	c	50	92	7	8	-	-	7-8	7-8	800	1	5
18	Malin Head	1010·2	+32	SW	3	bc	48	75	8	4	4	-	2-3	4-6	4000	0	3
	Aldergrove	1012·7	+22	WSW	4	b	49	85	8	-	-	1	0	Tr	-	1	*
19	Birr Castle	1011·9	+16	SSW	2	bc	52	75	8	-	4	-	0	2-3	-	1	*
20	Valentia Obsy. †	1014·9	+14	SSW	4	zo	53	92	6	5	-	-	10	10	800	1	5
	Roches Point	1017·5	+18	SW	3	c	50	97	7	5	-	-	9	9	800	1	4

PAST 24 HOURS.

District	Stations	Weather 7h.—13h. 7th. (37)	Weather 13h.—18h. 7th. (38)	Weather 18h. 7th to 1h. 8th (39)	Weather 1h.–7h. 8th. (40)
1	London (Kew)	bmoxbcmy	bcmoyro	croroiromo	croiromo
	Croydon	bwmobczy	bcyzo	cir omo	errorom
	S. Farnborough	bbcey	czocro	cir omo	crrroo
	Boscombe Down	bmxcmoc	cprororom	orodf	dfrfF
	Calshot (Sthmtn.)	bcmocmo	croro	crrdororr	orrdoR
	Lympne	bmoxbczo	bcmo	bcmocroc	orofFir
	Manston	bzo	bbczo	bccroror	orocorr
2	Shoeburyness	bmo	bccmo	iroc	iroc
	Felixstowe	bmob	b,c	cidoiro	oirroro
	Gorleston	bczo	bczoc	ororoc	czooff
	Mildenhall	bmobcmo	bcmoroy	ororocmo	cmo
	Cranwell	bxbcc	ciro	roc	cbccmo
3	Birmingham	cpro	coir	orom	of
	Upper Heyford	bcmoc	cprororo	romoc	cmoRm
4	Ross-on-Wye	ccpoc	cdorodo	omoido	omo
5	Hartland Point	idorrc	rridFd	FdFeo	ocroc
	Bristol	bccroq	croir	crrroc	croRc
	Portland Bill	c	cpro	orf	orrzo
	Plymouth	ircorr	orrDDm	oddfroro	ororof
	The Lizard	crrm	dfff	rdff	rFF
	Scilly (St. Mary's)	rrido	oidffe	offe	offe
	Guernsey	c	cir	iror	oc
6	Pembroke	qrrmo	oirqmrff	offmcdifF	ffdc
7	Holyhead	rrdodoc	dodofo	ofbmoo	ododomo
	Chester (Sealand)	cmoro	croro	c,b	b,cromo
8	Manchester	cmoroio	rorrmocm	cmo, bmo	bmobcmo
10	Spurn Head	c	cror	ocw	bczom
	Catterick	comoiro	roroiroc	iromobc	bc
	Tynemouth	cpo	coirc	cbc	bcc
11	St. Abbs Head	cq (gale)	qbc	b	bqbc
	Leuchars	cidoc	cbcmo	bcmobc	bc
12	Renfrew (Abbots I.)	cmororo	modd obc	bmo	bmoc
	Eskdalemuir	rrdd	ddFF	oFFido	oFFido
	Point of Ayre	cprq	cbc	bcbbc	cbcw
13A	Tiree	cido	cdobc	bcb	bbc
13B	Stornoway	croro	crrpr	cbcp	bccpro
15	Dalwhinnie	ciro	cir	*	cir
	Aberdeen	czo	czbc	bcbzo	b
	Wick	c	cbc	bq,bc	bc
16	Lerwick	c (gale)	cpr	cidopr (gale)	c (gale)
17	Blacksod Point	idqc	procq	procq	procq
18	Malin Head	cprobcc	cbc	bc	bcc
	Aldergrove	mocidc	cbcb	bbc	bccw
19	Birr Castle	circ	cbc	bc	bcc
20	Valentia Obsy. †	ddcmoc	comp	cmo	cmorocmo
	Roches Point	offec	c	coffe	dfdfc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

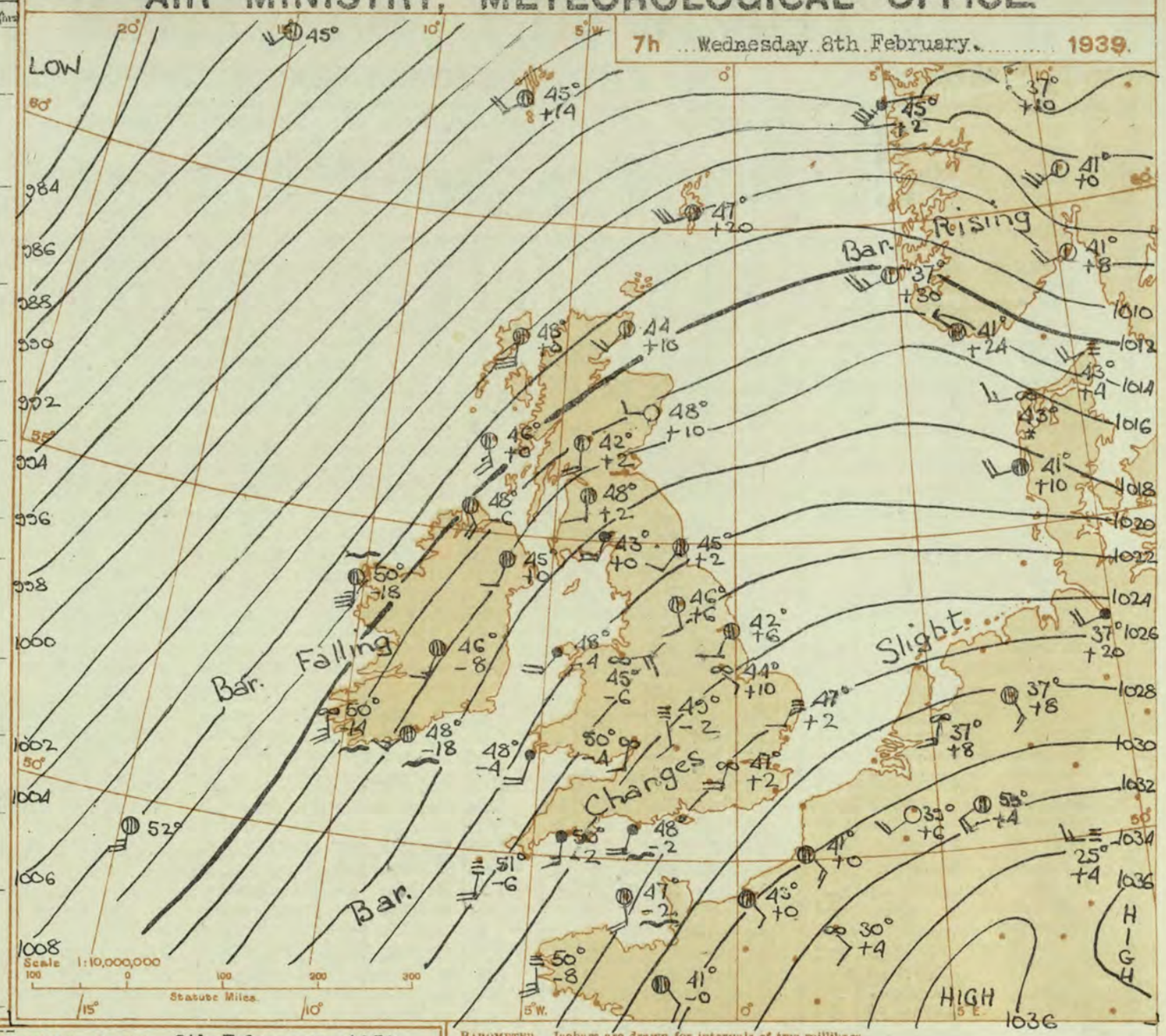
§ See disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 7th February 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 6th to 9h. 7th	Temperature. (°F.) Max. 9h.—17h. 7th	Rainfall. (mm.) Night. 17h. 6th to 9h. 7th	Rainfall. (mm.) Day. 9h.—17h. 7th	Sunshine (hrs.) Sunrise to Sunset. 7th
1	Tunbridge W.	b	bbcc	29	51	0·3	-	7·4
	Bournemouth	bbc	bcod.	41	48	Trace	Trace	3·7
	Ventnor ...	xb	bou	42	49	-	-	6·1
	Southsea ...	b	bcc	39	52	Trace	-	5·9
	Bognor Regis	b	bbc	40	47	-	-	7·1
	Littlehampton	b	bbce	36	48	-	-	7·4
	Worthing ...	b	bbcc	36	50	-	-	7·2
	Brighton ...	b	bbc	32	49	-	-	7·2
	Eastbourne† ...	b	bbc	33	50	0·3	-	7·9
	Hastings† ...	b	bbc	40	50	0·3	-	8·3
	Folkestone ..	mb	bbm.	38	49	-	-	8·0
	Dover ...	bc	bc	41	49	-	-	8·7
	Deal	b	b	38	48	-	-	8·5
	Ramsgate ...	bc	bc	38	49	-	-	8·5
	Margate ...	b	bbc	37	52	-	-	8·0
2	Southend ...	b	bbce	36	52	Trace	-	7·9
	Clacton-on-Sea	bmb	bbc	36	47	Trace	-	7·8
	Dovercourt ...	xbc	bc	35	49	-	-	7·9
	Lowestoft ...	bxb	bbcx	35	52	-	-	8·1
	Skegness ...	b	bcor	34	50	-	1	5·6
	Mablethorpe...	bbc	cor	34	51	-	1	4·2
	Cleethorpes ...	bc	bcor	37	51	-	0·5	2·9
3	Leamington S.	bcc	cod	39	50	-	0·4	1·5
4	Cheltenham†	bcqcp	coir	40	50	-	0·5	1·6
5	Bath	bcc	crr	32	51	-	1	1·6
	Weymouth ...	bc	cir.	43	50	-	0·6	2·8
	Jersey ...	fcbc	c	40	48	-	-	1·3
	Torquay ...	wcod.	ordm.	39	51	-	3	0·0
	Falmouth	orgr	orrgo	47	52	-	7	0·0
	Penzance ...	qerr	rrorf	49	52	-	8	0·0
	St. Ives ...							
	Bude... ...	cp	mdo	45	52	-	1	0·0
	Ilfracombe ...	bccoc	orad	45	52	-	4	0·0
6	Aberystwyth	prcpr	prc	47	53	1	5	0·0
7	Llandudno ...	cr.	dc	50	57	-	0·1	0·0
	Colwyn Bay...	cpo	ocbc	49	53	-	0·5	0·0
	Rhyl	cpr.	cbc	46	54	0·1	0·1	0·0
8	Wallasey ...	or.	rc	43	54	3	2	0·0
	Southport ...	oiro	rrocz	42	50	0·4	3	0·0
	Blackpool ...	oidr	ormom	42	51	0·5	5	0·0
	Morecambe ...	cdr.	oir	42	49	1	11	0·0
9	Ilkley... ...	op	oro	42	49	1	3	0·0
	Harrogate ...	cir.	crrc	43	50	Trace	3	0·0
10	Berwick-on-T.	or.	do	45	51	0·3	0·2	0·0
11	Dunbar ...	cpr.	bc	46	54	0·5	Trace	0·6
12	Troon... ...	roc	cobcc	46	51	9	0·5	0·4
	Douglas ...	cirm	oFir	46	49	3	2	0·0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 8th February, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Wind southerly light to moderate; mainly cloudy or dull, occasional rain or drizzle, fair periods during night; local mist or fog; mild
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Wind south to southwest, moderate to fresh; cloudy or dull, occasional rain or drizzle, more continuous rain spreading from southwest to-morrow morning; local mist or fog inland, extensive fog on coast; mild.
11 S.E. Scotland	As 15 - 16.
12 S.W Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Wind southerly strong, gale at times; mainly cloudy and showery, a few bright periods; mild.
15 N. E. Scotland 16 Orkney and Shetland	Wind southerly, fresh, becoming strong or gale later; cloudy and bright periods, local showers; mild.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind south to southwest, fresh to strong, gale at times; mainly cloudy and showery to-day, more continuous rain spreading from southwest to-morrow; mild.

H.M. Stationery Office Press, Kingsway, W.C.2. 6/37/3640 Wt.8086 D.3769 Gp.948 32200 2/39

GENERAL INFERENCE.

A deep depression in mid-Atlantic is moving slowly east and another southwest of it will probably move more quickly east, then northeast. Weather will continue mild and cloudy with occasional rain or drizzle in most districts, but there will be bright periods most of to-day in East Scotland. A belt of rain will probably spread from southwest to western districts to-morrow.

FURTHER OUTLOOK.

Rain spreading northeast.

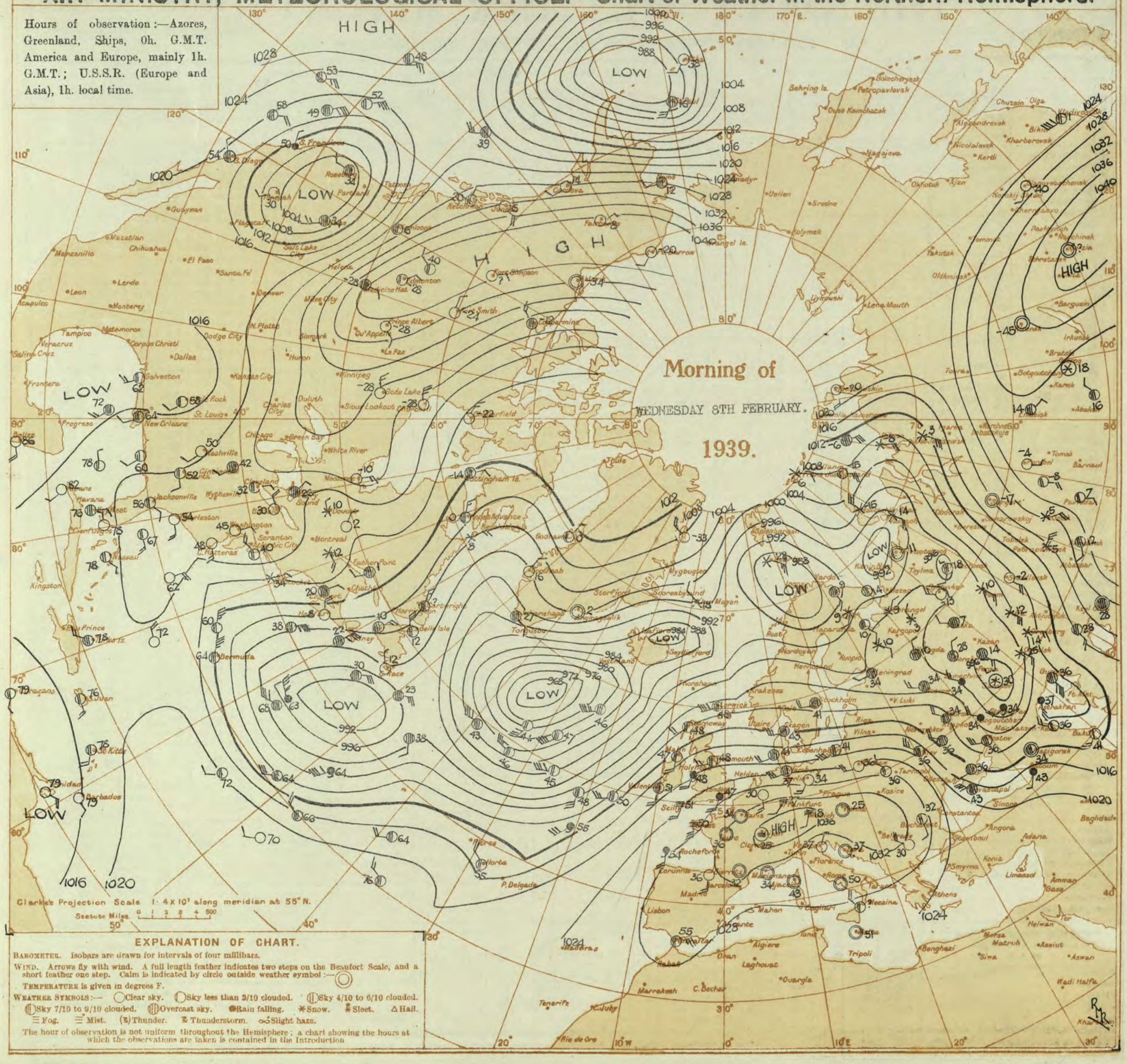
Times of Issue of Gale Warnings.

South cone hoisted at 0830 on 8th in districts 13A, 13B, 17 and parts of 18 and 20.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.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 wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 8th February, 1939

No. 28202

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Cloud Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1026·0	+6	SSW	4	ir	47	92	7	5	-	-	10	10	800
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1027·7	+2	SW	3	c/r	44	85	7	5	2	-	9+	10	1500
	Manston ...	154	1026·7	+2	SW'S	4	r r	45	85	6	-	2	-	10	10	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1023·5	+6	SW	4	c	45	85	6	5	-	-	9+	9+	2500
	Mildenhall ...	19	1024·2	+6	SSW	3	2	47	92	6	5	-	-	10	10	1500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1022·4	+10	S	3	o	50	97	6	5	-	-	10	10	800
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1025·0	+8	SW	4	rf	48	92	3	5	-	-	10	10	<150
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1023·3	+6	SW'S	3	f	49	97	2	5	-	-	10	10	450
	Scilly (St. Mary's)	163	1022·2	+2	SW'S	4	f	51	97	2	-	-	-	10	10	<150
	Guernsey ..	175	1026·2	+6	S	3	o	48	97	7	5	-	-	10	10	2500
6	Pembroke ...	142	1022·4	+6	SSW	3	F+	47	97	1	-	-	-	10	10	<150
7	Holyhead ...	26	1020·1	+14	SW'S	4	id	48	97	6	5	-	-	10	10	220
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1021·3	+10	WSW	4	c	46	92	6	-	-	7	0	10	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1018·5	+29	WSW	3	bc	48	85	7	2	-	-	2-3	2-3	1500
11	St Abbs Head ..	280	1015·6	+10	SW	5	b	45	97	8	-	4	-	0	Tr	-
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1018·5	+16	SSW	4	bc	47	92	7	-	-	6	0	4-6	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1007·9	+20	SW	4	bc	48	75	7	5	-	-	4-6	4-6	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1008·3	+22	SW	6	bc	45	85	8	5	5	-	2-3	2-3	1500
16	Lerwick ...	156	1003·8	+8	WSW	8	c/pr	48	85	7	8	7	-	4-6	7-8	1500
17	Blacksod Point	18	1013·0	+4	S	5	c	50	92	7	9	-	-	10	10	800
18	Malin Head ...	84	1013·5	+12	SSW	4	b	47	85	8	-	4	-	0	Tr	-
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1016·5	-2	S	3	c	51	97	7	8	-	-	9	9	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (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)
London (Kew)	1025·9	+2	S	2	o/r	47	97	6	5	-	-	10	10	1500	1	*
Croydon ...	1025·9	+2	SSW	4	z	47	97	5	5	-	-	10	10	450	1	*
S. Farnborough	1025·6	+2	SSW	3	id	47	97	5	6	-	-	10	10	450	1	*
Boscombe Down	1024·6	0	S'W	4	F	46	97	1	r	-	-	10	10	<150	1	*
Calshot (Sthmtn.)	1026·0	-4	S'W	3	dd	46	97	6	5	-	-	10	10	450	1	2
Lympne ...	1028·0	+2	SW'W	3	rf	44	97	1	-	-	-	10	10	<150	1	§3
Manston ...	1027·1	+2	S'W	3	r r	45	97	6	-	2	-	10	10	220	1	*
Shoeburyness ...	1026·2	0	S'W	2	c	46	97	7	5	-	-	10	10	1500	1	*
Felixstowe ...	1026·2	+4	SSW	2	ir	44	97	5	5	-	-	10	10	800	1	1
Gorleston ...	1025·3	+6	SW'S	2	of	47	92	3	5	-	-	10	10	450	1	2
Mildenhall ...	1024·9	+2	S'W	3	z	47	97	5	5	-	-	10	10	800	1	*
Cranwell ...	1023·5	+10	SE'E	1	z	44	97	5	5	-	-	9+	9+	1500	1	*
Birmingham ...	1022·8	-2	SSE	2	f	49	97	2	-	-	-	10	10	<150	1	*
Upper Heyford	1024·1	-2	S	3	off	47	97	3	5	-	-	10	10	220	1	*
Ross-on-Wye	1022·6	-4	S'W	2	z	50	97	5	5	-	-	10	10	800	1	*
Hartland Point	1021·4	-6	S	4	c	51	97	8	6	2	-	7-8	10	1500	1	3
Bristol ...	1023·5	-4	S	3	c	50	97	7	6	2	-	9	9+	1500	1	*
Portland Bill ...	1025·1	-2	SSW	4	rr	48	92	6	5	-	-	10	10	800	1	4
Plymouth ...	1023·4	-2	S	3	df	50	97	3	-	-	-	10	10	<150	1	3
The Lizard ...	1022·5	-2	SSW	4	oF	50	97	1	5	-	-	10	10	220	1	3
Scilly (St. Mary's)	1020·7	-6	S'W	4	f	51	97	2	-	-	-	10	10	<150	1	2
Guernsey ..	1025·9	-2	S'E	4	c	47	92	7	8	-	-	9+	9+	2500	1	4
Pembroke ...	1020·4	-4	SSW	4	df	48	97	1	-	-	-	10	10	<150	1	2
Holyhead ...	1019·1	-4	SSW	4	id	48	97	4	5	-	-	10	10	<150	1	3
Chester (Sealand)	1021·5	-6	ESE	3	z	45	92	6	-	3	-	0	7-8	-	1	*
Manchester ...	1021·8	-2	E	1	z	39	97	5	5	4	-	4-6	4-6	4000	1	*
Spurn Head ...	1023·3	+6	SW'S	2	bc	42	97	6	-	4	8	0	4-6	-	1	2
Catterick ...	1021·0	+6	S'E	2	bc	46	85	7	5	3	8	Tr	4-6	1500	1	*
Tynemouth ...	1019·3	+2	SW	2	c	45	85	6	5	-	-	7-8	7-8	1500	1	1
St Abbs Head ..	1016·6	+10	SW	5	bcq	46	85	8	8	1	1	2-3	4-6	2500	0	3
Leuchars ...	1016·0	0	WSW	3	bc	45	92	8	5	-	2	2-3	4-6	2500	1	*
Renfrew (Abbots I.)	1017·4	+2	S	2	c	48	85	7	5	-	-	7-8	7-8	2500	1	*
Eskdalemuir ...	1019·1	0	SW'S	4	df	43	97	1	-	-	-	10	10	<150	1	*
Point of Ayre...	1018·9	+2	SSE	1	bc	44	97	7	5	4	7	1	4-6	800	1	1
Tiree	1012·1	0	SSE	5	bc	46	92	8	5	3	-	2-3	2-3	2500	0	*
Stornoway ...	1008·7	0	S	6	c/pr	48	92	7	5	2	-	7-8	9+	2500	1	2
Dalwhinnie ...	1014·8	+2	S	4	bc	42	92	7	4	6	1	2-3	4-6	2500	1	*
Aberdeen ...	1014·4	+10	W	1	b	48	65	7	-	-	8	0	Tr	-	1	2
Wick ...	1011·2	+10	SW	3	bc	44	85	8	5	4	1	2-3	4-6	1500	1	2
Lerwick ...	1008·1	+20	WSW	6	c	47	85	7	8	3	-	4-6	7-8	1500	1	*
Blacksod Point	1009·9	+18	S	7	c	50	92	8	9	-	-	9+	9+	800	1	5
Malin Head ...	1013·0	-6	SSE	4	c	48	85	8	8	-	-	7-8	7-8	4000	0	3
Aldergrove ...	1015·8	0	SSW	2	c	45	92	7	-	1	-	0	9	-	1	*
Birr Castle ...	1015·5	-8	SSW	3	c	46	92	8	5	7	-	4-6	9	2500	1	*
Valentia Obsy. †	1013·1	-14	SSE	5	z	50	92	6	5	-	-	10	10	1500	1	4
Roches Point	1016·7	-18	SW	3	c	48	97	8	5	-	-	9+	9+	800	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 7th Hrs. (36)
London (Kew)	52	46	44	Tr	2	6·9
Croydon ...	53	46	43	-	3	7·5
S. Farnborough	54	45	43	0·1	1	6·1
Boscombe Down	49	44	43	0·4	4	3·3
Calshot (Sthmtn.)	49	44	44	0·2	5	5·6
Lympne ...	48	41	37	Tr	2	8·3
Manston ...	50	42	39	-	2	8·2
Shoeburyness ...	50	44	41	-	3	7·7
Felixstowe ...	47	42	41	-	1	7·9
Gorleston ...	52	44	43	-	1	7·6
Mildenhall ...	54	45	43	Tr	1	6·3
Cranwell ...	52	44	38	0·2	0·1	2·9
Birmingham ...	49	46	46	1	0·1	0·0
Upper Heyford	51	45	44	0·4	2	*
Ross-on-Wye	49	48	47	1	Tr	0·0
Hartland Point	52	49	48	3	1	0·0
Bristol ...	49	47	46	4	2	1·5
Portland Bill ...	49	44	*	Tr	9	*
Plymouth ...	49	48	48	8	6	0·0
The Lizard ...	50	49	*	5	4	0·0
Scilly (St. Mary's)	52	50	*	4	0·4	0·0
Guernsey ..	49	47	45	0·2	6	2·8
Pembroke ...	49	46	*	8	0·6	0·0
Holyhead ...	50	45	43	5	0·5	0·0
Chester (Sealand)	55	42	39	Tr	Tr	0·0
Manchester ...	49	38	28	5	-	0·0
Spurn Head ...	50	41	*	1	0·6	4·3
Catterick ...	50	45	41	1	Tr	0·0
Tynemouth ...	53	45	40	2	-	0·0
St Abbs Head ..	50	43	*	-	-	*
Leuchars ...	53	44	39	Tr	-	0·0
Renfrew (Abbots I.)	54	45	37	2	-	0·0
Eskdalemuir ...	45	42	42	13	0·3	0·0
Point of Ayre...	54	43	*	1	-	0·0
Tiree	51	45	43	Tr	-	0·0
Stornoway ...	50	48	*	1	0·2	0·1
Dalwhinnie ...	49	41	37	2	2	0·0
Aberdeen ...	54	45	33	-	-	0·5
Wick ...	51	43	*	-	-	*
Lerwick ...	51	45	*	0·2	0·4	0·0
Blacksod Point	55	45	*	2	Tr	*
Malin Head ...	54	45	*	Tr	-	3·7
Aldergrove ...	55	44	37	Tr	-	2·2
Birr Castle ...	59	44	33	Tr	-	3·3
Valentia Obsy. †	55	50	47	0·1	0·2	2·7
Roches Point	52	47	*	0·1	1	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. Yesterday	Humidity 15h. G.M.T. % Yesterday	Humidity 9h. G.M.T. % To-day	Visibility 9h. To-day
Kew ...	18	bmybcmy	bcmyer	cr ir m	52	46	44	Tr	2	6·9	•	•	6
Croydon ...	217	bmbczy	bcyz	cirm	53	46	43	-	3	7·8	•	•	6
Greenwich (Royal Observatory) ...	149	b	bc	circ	55	46	41	-	4	6·9	82	96	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	5·2	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	55	42	43	2		7·0	74	96	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	55	44	40	-	2	*	45	92	*
Camden Square ...	110	b	bc	*	56	51	32	0·3	1	*	*	94	*
Kensington ...	80	bc	bc	*	55	46	42	*	2	6·6	At 12h. 63	97	*
Hampstead Observatory ...	450	bc	or	orm	52	44	41	-	2	6·6	*	98	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
<0·3 whole period			

Kew Observatory Max.	Time.	Min.	Time.
0·2	17h on 7th	<0·1	3-5h 8th

FOREIGN OBSERVATIONS.

18h. G.M.T. 7th February

Stations	Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.
Paris ...	1030·2	SSE	2	m	41
Brussels ...	1029·0	SSW	3	b	37
Berlin ...	1028·3	SSW	3	z	37
Zürich ...	1024·1	S	-	b	30
Rome ...					

7h. G.M.T. 8th February

Stations	Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	1032·1	SE	2	z	30	46	28	Tr	-
Brussels ...	1030·3	SW	3	c	39	50	*	-	-
Berlin ...	1026·9	SW	3	z	30	46	27	-	-
Zürich ...	1035·5	W	1	F	19	37	19	-	Tr
Rome ...	1029·0	NE	2	fg	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.

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

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

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 9th February, 1939.
No. 28203

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1025·0	-8	S'W	3	z₀	50	92	6	5	-	-	10	10	1500
	Croydon ...	1025·7	-6	S	5	z₀	48	92	6	6	3	-	7-8	9+	450
	S. Farnborough	1025·4	-10	SSW	3	d₀d₀	48	97	5	5	-	-	10	10	450
	Boscombe Down	1024·4	-14	S'E	4	df	47	97	3	-	-	-	10	10	<150
	Calshot (Sthmtn.)	1025·8	-8	S'W	3	dd	48	97	5	5	-	-	10	10	800
	Lympne ...	1027·4	-10	SW'S	4	c	46	85	7	5	7	-	4-6	9+	800
	Manston ...	1026·0	-10	S'W	4	c	48	75	6	5	7	-	7-8	9+	800
2	Shoeburyness ...	1025·8	-10	SSW	3	c	47	92	6	5	2	-	9+	10	800
	Felixstowe ...	1025·7	-12	S'W	2	m/f	44	97	4	5	-	-	10	10	220
	Gorleston ...	1024·3	-6	S	3	if	50	92	3	-	-	-	10	10	<150
	Mildenhall ...	1023·5	-18	S	3	m	50	92	4	5	2	-	9	10	800
	Cranwell ...	1022·1	-10	S	3	z₀	50	97	6	5	-	2	10	10	800
3	Birmingham ...	1021·3	-12	S	3	m	51	97	4	5	-	-	10	10	220
	Upper Heyford	1023·2	-14	SSE	3	o	49	97	5	5	-	-	10	10	220
4	Ross-on-Wye	1021·2	-6	S'W	3	o/d	52	92	6	5	-	-	10	10	450
5	Hartland Point	1019·7	-14	S	4	id₀	54	97	7	5	2	-	9+	10	1500
	Bristol ...	1022·8	-12	S'W	3	id₀	52	92	7	5	-	-	10	10	800
	Portland Bill ...	1023·6	-6	S	4	o	48	92	7	5	-	-	10	10	1500
	Plymouth ...	1022·2	-14	S	4	of	50	97	2	5	-	-	10	10	<150
	The Lizard ...	1021·4	-10	S	5	dF	51	97	1	5	-	-	10	10	220
	Scilly (St. Mary's)	1018·6	-16	S'W	6	m	52	97	4	5	-	-	10	10	450
	Guernsey ...	1025·3	-10	S	3	c	51	75	7	8	3	-	7-8	9	2500
6	Pembroke ...	1017·8	-12	SSW	6	df	49	97	3	-	-	-	10	10	<150
7	Holyhead ...	1015·8	-22	SSW	4	r₀r₀	49	97	6	5	2	-	7-8	10	220
	Chester (Sealand)	1018·5	-22	SE'E	3	z₀	53	85	6	5	7	-	4-6	10	4000
8	Manchester ...	1019·3	-22	SE'S	3	z₀	52	92	5	5	2	-	4-6	10	1500
10	Spurn Head ...	1021·8	-6	S'W	3	m	46	97	4	5	-	-	10	10	800
	Catterick ...	1018·8	-16	SE'S	3	c/pr	47	85	5	5	3	-	4-6	7-8	2500
	Tynemouth ...	1017·8	-12	S	3	c	51	75	5	2	3	-	4-6	7-8	1500
11	St. Abbs Head ...	1014·8	-14	S	5	cq	51	75	8	5	6	-	4-6	7-8	1500
	Leuchars ...	1014·5	-12	SW	3	c	53	75	7	8	7	6	2-3	7-8	1500
12	Renfrew (Abbots I.)	1014·1	-24	NE'N	2	c	50	85	7	5	7	-	7-8	7-8	1500
	Eskdalemuir ...	1015·3	-16	SW'S	4	r₀r₀	47	97	4	6	-	-	10	10	<150
	Point of Ayre ...	1015·5	-22	S	4	DD	47	97	5	5	-	-	10	10	800
13A	Tiree ...	1009·0	-8	SSE	5	c	47	97	7	5	-	-	9+	9+	2500
13B	Stornoway ...	1007·9	-16	SSW	7	pr	48	85	6	8	2	-	4-6	10	1500
15	Dalwhinnie ...	1012·1	-24	SW	5	c	48	85	7	4	-	8	4-6	9	2500
	Aberdeen ...	1013·5	-12	S	5	c	48	85	6	-	7	6	0	7-8	-
	Wick ...	1010·5	-8	S	4	c	47	75	8	5	7	8	4-6	9+	1500
16	Lerwick ...	1009·8	+6	WSW	5	c	48	85	8	5	7	-	7-8	10	1500
17	Blacksod Point	1007·6	-18	S	6	c	49	97	8	9	-	-	9+	9+	800
18	Malin Head ...	1009·9	-16	S	4	c	49	75	7	5	2	-	4-6	9	2500
	Aldergrove ...	1012·3	-22	SW'S	4	c	50	75	8	5	7	-	2-3	10	1500
19	Birr Castle ...	1011·6	-22	S	3	c	51	92	8	5	2	-	7-8	10	2500
20	Valentia Obsy. †	1009·7	-22	S	4	r₀r₀	52	97	6	5	-	-	10	10	450
	Roches Point	1012·7	-18	SW	3	of	49	97	2	5	-	-	10	10	<150

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

Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1022·5	-14	S	3	z₀	48	85	6	5	-	-	9+	9+	1500	1	*
Croydon	1023·4	-10	S	4	z₀	48	85	6	5	7	5	7-8	9	4000	1	*
S. Farnborough	1022·7	-10	S'E	3	id₀	47	85	6	5	-	-	10	10	2500	1	*
Boscombe Down	1022·0	-10	SE	3	id₀	45	97	5	5	-	-	10	10	800	1	*
Calshot (Sthmtn.)	1023·0	-6	S'E	5	c	49	65	8	5	-	-	9+	9+	2500	1	3
Lympne	1025·5	-12	SW'S	2	c	46	85	6	5	7	-	7-8	9+	2500	1	§2
Manston	1024·4	-6	SSW	4	bc	47	75	6	5	7	-	2-3	4-6	1500	1	*
Shoeburyness	1023·8	-10	S'W	3	c	45	85	7	5	7	-	4-6	9	2500	1	*
Felixstowe	1023·6	-4	SW'S	2	z₀	45	85	6	5	1	-	9	10	1500	1	2
Gorleston	1021·7	-6	S	3	o	47	92	6	5	-	-	10	10	2500	1	2
Mildenhall	1021·3	-14	S'W	4	z₀	51	92	5	5	-	-	10	10	1500	1	*
Cranwell	1019·1	-16	SSE	4	z₀	50	97	5	5	-	-	10	10	800	1	*
Birmingham	1018·5	-16	S	4	id₀	51	92	6	6	-	-	10	10	450	1	*
Upper Heyford	1020·9	-8	S'E	4	c	49	97	6	5	-	-	10	10	220	1	*
Ross-on-Wye	1018·0	-12	SSW	3	id₀	51	97	6	5	-	-	10	10	450	1	*
Hartland Point	1015·8	-22	SSW	5	c	52	97	7	6	2	-	7-8	10	800	1	3
Bristol	1019·8	-18	SSW	5	d₀d₀	51	97	6	5	-	-	10	10	450	1	*
Portland Bill	1021·1	-18	SSW	4	o	48	92	7	5	-	-	10	10	2500	1	4
Plymouth	1019·0	-14	S	5	id₀	50	97	6	5	-	-	10	10	220	1	3
The Lizard	1017·7	-10	S'W	6	c	51	97	6	5	-	-	10	10	1500	1	3
Scilly (St. Mary's)	1014·3	-22	S'W	6	r	51	97	5	5	-	-	10	10	800	1	4
Guernsey	1023·1	-6	S	3	c	51	75	9	8	-	-	9+	9+	2500	1	3
Pembroke	1014·4	-14	SW'S	6	F+	49	97	1	-	-	-	10	10	<150	1	3
Holyhead	1011·8	-22	SSW	5	dd₀	49	97	5	5	-	-	10	10	<150	1	3
Chester (Sealand)	1015·4	-12	ESE	4	c/r	52	92	5	6	2	-	4-6	10	1500	1	*
Manchester	1015·4	-20	S'E	4	ir₀	53	92	6	6	2	-	7-8	10	800	1	*
Spurn Head	1017·5	-18	S'W	4	o	48	97	5	5	-	-	10	10	800	1	3
Catterick	1014·3	-22	S'E	2	of	51	97	3	5	-	-	10	10	450	1	*
Tynemouth	1013·6	-20	S	4	o	51	92	5	-	2	-	10	10	1500	1	1
St. Abbs Head	1011·0	-10	SSW	4	rr	50	97	7	3	2	-	7-8	10	1500	1	2
Leuchars	1009·7	-28	S	1	r₀r₀	50	92	6	5	7	-	4-6	9+	800	1	*
Renfrew (Abbots I.)	1009·9	-18	-	0	rr	49	92	5	6	2	-	9+	10	800	1	*
Eskdalemuir	1010·9	-26	SW'S	6	rf	48	97	3	-	2	-	10	10	<150	2	*
Point of Ayre	1010·7	-6	SSW	5	id₀	50	97	6	5	2	-	9+	10	800	1	2
Tiree	1004·9	-18	SSE	5	c	47	97	7	5	-	-	9	9	1500	0	4
Stornoway	1004·8	-12	SSW	7	c/pr	47	85	6	8	2	-	7-8	10	1500	1	4
Dalwhinnie	1008·6	-18	SSW	4	ir₀	45	85	7	8	6	-	7-8	7-8	2500	0	*
Aberdeen	1009·7	-24	SSW	3	c	46	92	5	5	7	-	7-8	7-8	1500	0	1
Wick	1006·4	-20	S	5	c	46	92	6	5	2	-	7-8	10	1500	1	2
Lerwick	1007·0	-12	SSE	5	ir	45	92	6	8	2	-	7-8	10	800	1	*
Blacksod Point	1003·2	-28	S	7	cq	52	85	8	9	-	-	9	9+	800	1	4
Malin Head	1006·9	-36	SSW	4	c	51	85	7	5	6	-	4-6	9	2500	0	4
Aldergrove	1008·3	-22	SSW	3	rr	50	92	5	6	2	-	7-8	10	800	1	*
Birr Castle	1007·8	-16	S	1	rr	50	97	7	6	2	-	4-6	10	800	1	*
Valentia Obsy. †	1006·1	-18	SSW	5	r₀r₀	51	92	6	6	2	-	9	10	450	1	4
Roches Point	1008·7	-22	SSW	3	rr	49	97	6	6	2	-	7-8	10	800	1	4

PAST 24 HOURS. — WEATHER.

Stations.	7h.—13h. 8th (37)	13h.—18h. 8th (38)	18h. 8th to 1h. 9th (39)	1h.—7h. 9th (40)
London (Kew)	cm₀	cr₀cm₀	cr₀cr₀c	cr₀c
Croydon	cm₀,md	cm₀id₀	cm₀ir₀	cm₀r₀r
S. Farnborough	id₀d₀d₀	od₀ir₀dc	id₀cir₀	rrcbcc
Boscombe Down	oFdf	dfcddid₀	cid₀cir₀	cir₀c
Calshot (Sthmtn.)	od₀ddm	c	ccir₀bcm	crrcbc
Lympne	Fr₀d₀c	cid₀bc	bc	comir₀
Manston	or₀r₀m₀	cm₀	c,bccm₀	bccr₀r₀
Shoeburyness	ir₀om₀c	cm₀c	cb	b,cir₀c
Felixstowe	oir₀of	om,c	cm₀bm₀	bm₀,c
Gorleston	cfmif	ofz₀	ocbcz₀q	or₀r₀ir₀c
Mildenhall	cm	cmcm₀	cm₀bcm₀	ccm₀cpr
Cranwell	oFfd₀o	om₀	om₀cm₀	cm₀c
Birmingham	ofidm	om	id₀or	or ir₀
Upper Heyford	ofm₀	ccm₀	cm₀id₀bc	cr₀r₀Rcrbc
Ross-on-Wye	d₀om₀om₀	om₀dm₀o	orr	rrcq
Hartland Point	cid₀c	cid₀c	cr₀orrc	cpbc
Bristol	cid₀	d₀od₀d₀	d₀rrRq	rrRcbcq
Portland Bill	co	o	orr	orrc
Plymouth	ofddmf	ofom₀id₀	prrRRir₀	cir₀pr₀m₀
The Lizard	Fd	Fdc	crrpr	cprc
Scilly (St. Mary's)	Ffdfo	oifor	oir₀c	cbcc
Guernsey	cir₀c	c	cirr	cprbc
Pembroke	Ffdcoffd	odffeFe	oirmq	cq
Holyhead	od₀d₀Rc	Rfd₀do	d₀d₀orro	rm₀pb
Chester (Sealand)	bccr₀m₀	cr₀r₀m₀	cm₀r₀r₀m	cirir₀m₀
Manchester	bcm₀offom	rmcm₀r₀	cr₀mcr₀	cm₀Rr₀
Spurn Head	cffom	om₀w	ocq	cqpr₀
Catterick	cpr₀bc	bcir₀f	fcbcm₀	m₀pr₀bc
Tynemouth	cbccm	coir₀m	o	oc
St. Abbs Head	cq	crr	cm₀rr	cqrr
Leuchars	cbc	bccr₀r₀	r₀d₀r₀rr	r₀r₀cir₀m₀
Renfrew (Abbots I.)	cm₀c	cm₀r₀rr	cm₀RR	cm₀rr
Eskdalemuir	Fd₀r₀	r₀Rrrq	orrRR	oRRrr
Point of Ayre	cDD	Drrc	crrr	orrbc
Tiree	c	cidc	oidrr	rdcbc
Stornoway	cpr	cprrr	cid₀	crr
Dalwhinnie	c	[illegible]	*	cir
Aberdeen	bbcz₀	bccz₀	cr₀r₀	r₀r₀c
Wick	bcc	cm₀	cr₀m₀	r₀m₀c
Lerwick	c	cpr₀ir	cir	cm₀
Blacksod Point	PRcq	prcq	PRcq	c
Malin Head	c	c	ccidc	cprc
Aldergrove	cwc	cidr₀r₀m	rrr₀r₀m₀	cr₀r₀bcc
Birr Castle	c	crr	crr	crrc
Valentia Obsy. †	moddr₀r₀	cr₀r₀	r₀r₀ir₀c	c
Roches Point	drffe	rfrfrr	crrbc	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

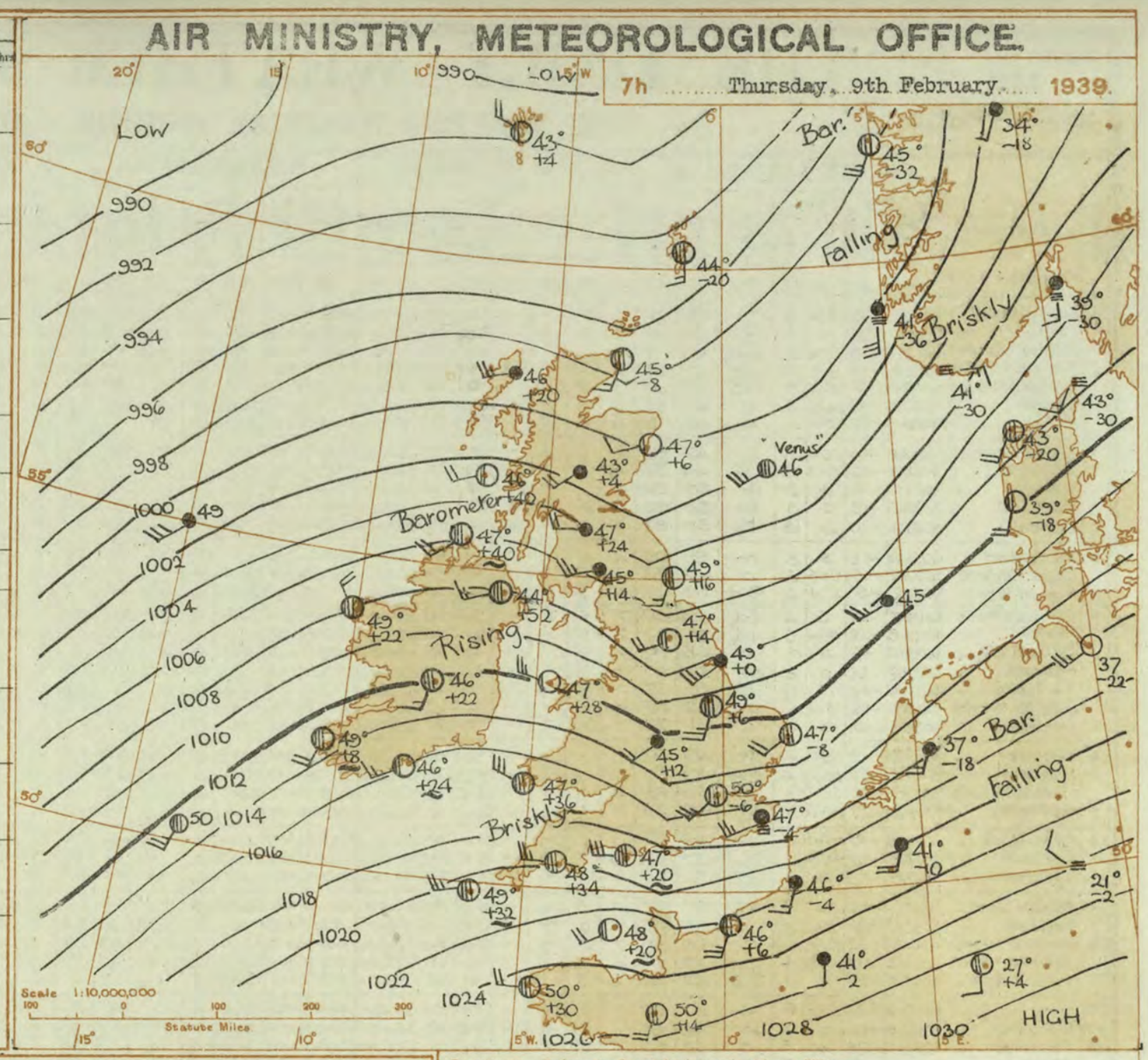
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

§ ...turbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 8th February 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature (°F.) Min. 9h. 7th to 9h. 8th	Temperature (°F.) Max. 9h.—17h. 8th	Rainfall (mm.) Night. 17h. 7th to 9h. 8th	Rainfall (mm.) Day. 9h.—17h. 8th	Sunshine (hrs) Sunrise to Sunset. 8th
1	Tunbridge W.	omo	odo	41	49	1	Trace	0·0
	Bournemouth	dir	irso	45	47	7	0·5	0·0
	Ventnor ...	or	orc	45	49	8	2	0·1
	Southsea ...	omd	odoc	46	49	3	2	0·0
	Bognor Regis	od	doc	44	46	2	Trace	0·0
	Littlehampton	odc	c	44	47	3	0·1	0·0
	Worthing ...	od	c	45	47	3	Trace	0·1
	Brighton ...	c	bc	41	47	3	-	0·0
	Eastbourne† ...	o	oc	46	50	2	-	0·0
	Hastings† ...	oc	orsoc	44	49	2	Trace	0·0
	Folkestone ..	frso	oom	42	48	2	0·5	0·0
	Dover ...	odro	oc	43	49	0·5	0·3	0·0
	Deal	odp	obcbo	41	50	1	Trace	1·3
	Ramsgate ...	odbc	bc	41	50	2	-	1·7
	Margate ...	c	bcc	43	54	1	-	1·3
2	Southend ...	o	oc	40	47	3	-	0·0
	Clacton-on-Sea	om	omc	37	46	1	-	0·0
	Dovercourt ...	doc	oc	43	47	1	-	0·0
	Lowestoft ...	off	cfc	39	49	1	-	0·0
	Skegness ...	ffo	o	42	50	2	-	0·0
	Mablethorpe...	omo	o	38	51	0·5	-	0·0
	Cleethorpes ...	c	c	42	52	1	-	0·0
3	Leamington S.	co	o	47	52	0·2	-	0·0
4	Cheltenham†	oco	orso	47	55	Trace	Trace	0·3
5	Bath	c	rsc	48	53	2	Trace	0·0
	Weymouth ...	c	ido	47	51	14	0·2	0·0
	Jersey ...	rcdc	bc	41	54	3	Trace	4·c
	Torquay ...	omdp	om	48	52	9	0·2	0·0
	Falmouth	feorr	ofrso	50	52	7	1	0·0
	Penzance ...	dffid	cido	49	52	1	0·3	0·0
	St. Ives ...							
	Bude... ...	cpc	co	49	56	1	0·2	0·0
	Ilfracombe ...	corod	opo	50	56	2	0·3	0·0
6	Aberystwyth	cpr	cido	46	56	-	1	0·4
7	Llandudno ...	crs	cir	47	57	Trace	0·5	0·0
	Colwyn Bay...	codc	cporr	48	58	-	1	0·0
	Rhyl	c	cr	46	58	-	1	0·1
8	Wallasey ...	mc	irc	45	55	Trace	1	0·0
	Southport ...	bcmc	psir	37	53	0·3	0·6	0·0
	Blackpool ...	cmof	pirrf	39	53	-	1	0·1
	Morecambe ...	bbc	cP	43	53	1	2	0·8
9	Ilkley... ...	c	c	41	55	0·2	-	1·2
	Harrogate ...	bbcc	c	41	51	-	-	1·3
10	Berwick-on-T.	c	crsmo	45	55	Trace	1	0·0
11	Dunbar ...	cms	cpr	42	55	-	1	3·9
12	Troon... ...	oc	occor	45	50	Trace	0·3	0·0
	Douglas ...	ofirs	ofPR	44	48	1	8	0·0

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 2°h.–9h.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 9th February, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ...	Fresh west to southwest winds; bright to-day; occasional rain to-morrow; mild.
4 W. Midlands ... 5 S.W. England ↓ 6 South Wales ... ↓ 7 North Wales ... ↓ 8 N.W. England ↓	Winds between south and west, strong or gale at times; occasional rain but some bright periods; mild.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 1 - 3.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. ↓ / B.N.W.Scotland. 14 Mid Scotland	As 4 - 8.
15 N. E. Scotland 16 Orkney and Shetland	As 1 - 3.
17 N. W. Ireland ↓ 18 N. E. Ireland ↓ 19 S. E. Ireland ↓ 20 S. W. Ireland ↓	As 4 - 8.

H.M. Stationery Office Press, Kingsway, W.C.2. 6.737/3640. m.8066. 0.3769. Gp.548. 32200. 2/39.

GENERAL INFERENCE.

A ridge of relatively high pressure is crossing the British Isles before a complex and deep system over the Atlantic. A short bright period, but lasting all to-day in eastern parts, will give way to further rain spreading from the West.

FURTHER OUTLOOK.

Continuing unsettled and mild.

Times of issue of Gale Warnings.

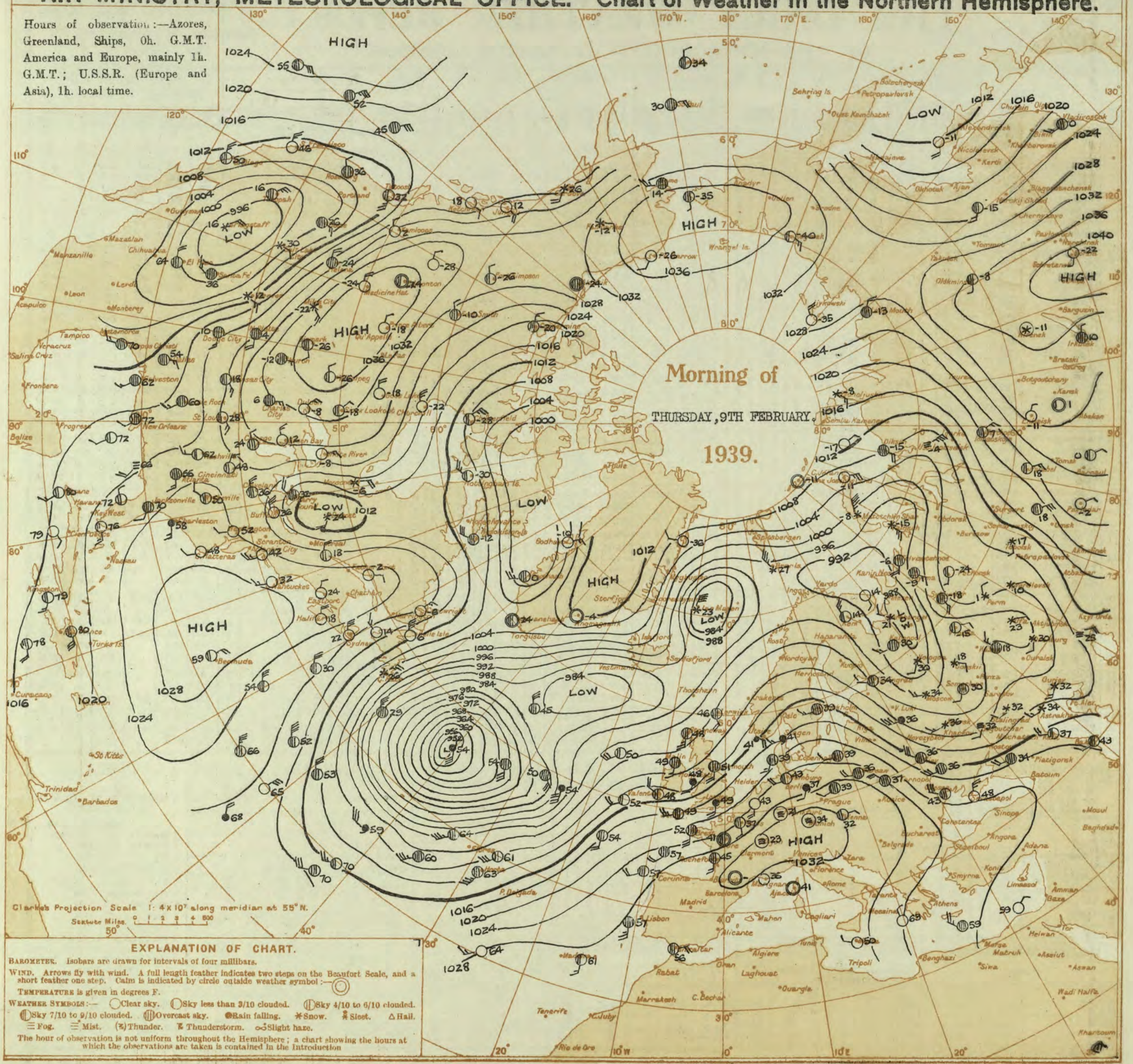
↓ South Cone hoisted at 0830 on 8/2/39 in districts 13, 17, 18 and 20 and at 1930 on 8/2/39 in districts 5, 6, 7, 8, and 19.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 9th February, 1939.

No. 28203.

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1018·4	-30	S	4	ir	49	85	6	5	-	-	10	10	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1021·4	-26	SW'S	4	c	45	75	8	5	3	2	7-8	9+	2500
	Manston ...	154	1020·6	-24	S'W	4	bc	45	75	6	-	-	6	0	4-6	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1017·9	-24	SSW	5	bc	48	85	7	-	4	-	0	2-3	-
	Mildenhall ...	19	1015·3	-38	S'E	4	c	48	85	7	5	7	-	4-6	7-8	4000
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1011·6	0	W	8	c	49	97	7	8	-	-	9+	9+	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1016·4	-20	SW	6	rr	50	92	7	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1016·7	-8	SW	6	pr	50	97	6	8	2	-	7-8	9	1500
	Scilly (St. Mary's)	163	1015·2	+18	WSW	5	c	49	97	7	5	7	-	2-3	7-8	1500
	Guernsey ..	175	1020·0	-8	SSW	4	ir	51	92	6	5	-	-	10	10	2500
6	Pembroke ...	142	1010·6	+4	W'S	7	cq	49	92	7	5	2	-	4-6	9+	1500
7	Holyhead ...	26	1007·1	-6	SW'S	4	rr	48	97	6	5	-	-	10	10	450
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1011·3	-32	S	6	cq	47	85	6	5	1	-	7-8	10	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ..	108	1005·6	-36	S	4	o	51	85	6	5	-	-	10	10	1500
11	St Abbs Head ..	280	1003·2	-30	SSE	3	ro ro	51	92	8	3	2	-	4-6	10	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots L.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1005·0	-20	W'S	5	rr	49	97	6	-	2	-	10	10	800
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	999·9	-14	S	5	c	48	92	7	5	-	7	7-8	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1001·1	-28	S	3	ro ro	46	86	6	5	2	-	9	10	800
16	Lerwick ...	156	1001·2	-16	SSE	4	c	46	92	7	8	2	-	4-6	7-8	1500
17	Blacksod Point	18	1003·9	+20	NW	6	c	48	92	7	9	-	-	10	10	800
18	Malin Head ...	84	1001·2	-22	S	8	c/d	49	92	6	8	2	-	4-6	9+	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1008·6	+14	W'N	4	b	48	97	8	8	-	-	1	1	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	1016·7	+4	SW	4	c	49	85	7	5	-	-	9+	9+	1500	1	*
Croydon ...	1016·7	-6	SW'S	5	bc	50	85	7	5	-	-	2-3	2-3	4-6	1	*
S. Farnborough	1017·0	+10	SW	5	c	49	85	8	8	-	-	9	9	1500	1	*
Boscombe Down	1018·0	+20	W'S	5	c	47	85	7	5	4	-	4-6	7-8	1500	1	*
Calshot (Sthmtn.)	1018·6	+18	SW'W	4	bc	47	92	7	5	3	-	4-6	4-6	1500	1	2
Lympne ...	1018·6	-4	WSW	5	rf	47	97	3	-	-	-	10	10	4150	1	§3
Manston ...	1017·4	-6	SW	5	ir	47	97	6	5	2	-	9	10	800	1	*
Shoeburyness ...	1016·1	-4	SSW	3	c	49	85	8	5	7	-	2-3	7-8	1500	1	*
Felixstowe ...	1015·6	-6	SSW	4	c	47	92	7	5	1	-	9+	10	1500	0	2
Gorleston ...	1013·8	-8	SW	4	c	47	92	6	5	-	-	9+	9+	2500	1	3
Mildenhall ...	1013·1	-4	SW	5	c/pr	50	92	8	8	3	-	4-6	7-8	2500	1	*
Cranwell ...	1011·1	+6	SSW	5	c	49	85	7	6	-	-	9+	9+	1500	1	*
Birmingham ...	1013·6	+12	SW	4	ir	45	92	6	6	-	-	10	10	800	1	*
Upper Heyford	1015·1	+10	WSW	5	bc	46	85	7	5	3	-	2-3	4-6	1500	1	*
Ross-on-Wye	1015·2	+20	WSW	4	bcq	47	75	8	5	-	-	4-6	4-6	1500	1	*
Hartland Point	1017·9	+40	W	6	bc	46	92	8	6	7	-	2-3	4-6	1500	1	4
Bristol ...	1017·2	+24	WSW	6	bcq	46	85	8	5	1	-	2-3	4-6	1500	1	*
Portland Bill ...	1018·9	+20	W	6	c	47	92	7	5	-	-	7-8	7-8	2500	1	4
Plymouth ...	1020·6	+28	W'N	5	zo	48	85	6	8	3	6	2-3	9+	1500	1	3
The Lizard ...	1021·4	+34	W	5	c	48	92	8	8	4	-	4-6	7-8	2500	1	3
Scilly (St. Mary's)	1020·9	+32	W'S	5	c	49	92	7	4	4	4	2-3	7-8	2500	1	4
Guernsey ..	1022·1	+20	SW'W	4	bc	48	92	7	-	1	8	0	4-6	-	1	4
Pembroke ...	1016·4	+36	WNW	6	cq	47	85	7	8	7	-	4-6	7-8	1500	1	4
Holyhead ...	1011·6	+28	W'N	5	b	47	85	8	2	4	-	1	1	2500	1	3
Chester (Sealand)	1011·6	+32	SW	3	c/r	49	75	6	5	-	-	7-8	7-8	1500	1	*
Manchester ...	1010·4	+20	WSW	4	c/r	47	85	6	5	2	-	7-8	10	1500	1	*
Spurn Head ...	1008·7	0	SW'W	5	pr	49	85	7	6	2	-	4-6	7-8	1500	1	3
Catterick ...	1006·4	+14	WSW	4	bc	47	85	8	4	-	-	2-3	2-3	1500	1	*
Tynemouth ..	1004·6	+16	SSW	3	c	49	85	7	8	-	-	7-8	7-8	1500	1	2
St Abbs Head ..	1001·5	+4	W	4	rr	47	85	8	3	2	-	7-8	10	1500	1	2
Leuchars ...	1001·3	+10	SW	4	ir	48	92	6	5	-	-	10	10	800	1	*
Renfrew (Abbots L.)	1004·0	+24	W	4	ido	47	85	7	6	-	-	7-8	7-8	2500	2	*
Eskdalemuir ...	1004·5	+4	W'S	5	rr	45	85	6	6	-	-	10	10	800	2	*
Point of Ayre...	1007·8	+28	W'N	5	bc	46	92	7	5	4	-	2-3	2-3	1500	1	3
Tiree	1003·0	+20	WSW	4	bc	46	92	8	5	3	-	2-3	2-3	2500	1	*
Stornoway ...	999·8	+20	WSW	5	rr	46	92	7	8	1	-	4-6	10	2500	1	3
Dalwhinnie ...	1001·9	+4	SW	4	rr	43	92	6	4	2	-	4-6	10	2500	1	*
Aberdeen ...	999·5	+6	WSW	2	b	47	85	6	-	7	-	0	Tr	-	1	1
Wick ...	997·3	-8	SSW	3	c	45	92	9	5	7	-	7-8	10	1500	1	1
Lerwick ...	995·7	-20	S	3	c	44	97	6	8	2	-	7-8	10	800	1	*
Blacksod Point	1009·2	+22	NW	4	c	49	85	7	-	2	-	0	10	-	1	3
Malin Head ...	1007·1	+10	SW'W	4	c	47	97	7	8	2	-	4-6	7-8	1500	0	4
Aldergrove ...	1008·9	+52	W'S	3	c	44	92	7	8	-	-	9	9	1500	1	*
Birr Castle ...	1012·6	+22	SSW	3	c	46	85	8	5	7	-	4-6	9	1500	1	*
Valentia Obsy. †	1014·5	+8	SSW	4	c	49	75	8	5	1	-	4-6	10	2500	1	4
Roches Point	1016·6	+24	WSW	3	bc	46	92	8	5	7	-	2-3	4-6	2500	1	4

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 8h. Hrs. (36)
London (Kew)	50	48	45	0·2	1	0·0
Croydon ...	49	48	46	Tr	2	0·0
S. Farnborough	49	47	46	0·3	2	0·0
Boscombe Down	47	45	42	0·4	3	0·0
Calshot (Sthmtn.)	49	46	44	2	2	0·0
Lympne ...	48	43	39	1	1	0·0
Manston ...	52	44	42	0·1	0·1	1·1
Shoeburyness ...	49	44	38	Tr	0·1	0·0
Felixstowe ...	45	42	39	Tr	-	0·0
Gorleston ...	50	42	41	-	0·1	0·0
Mildenhall ...	52	48	43	-	0·5	0·0
Cranwell ...	52	49	47	Tr	-	0·0
Birmingham ...	52	45	42	3	3	0·0
Upper Heyford	50	46	43	Tr	3	*
Ross-on-Wye	53	46	43	0·1	4	0·0
Hartland Point	54	45	44	0·2	6	0·0
Bristol ...	58	46	42	Tr	7	0·1
Portland Bill ...	50	47	*	0·3	2	*
Plymouth ...	51	47	45	0·4	6	0·0
The Lizard ...	51	47	*	0·6	5	0·0
Scilly (St. Mary's)	52	48	*	0·2	3	0·0
Guernsey ..	53	48	44	0·1	2	0·0
Pembroke ...	49	46	*	0·2	5	0·0
Holyhead ...	50	46	44	9	7	0·0
Chester (Sealand)	56	48	43	0·4	2	0·0
Manchester ...	54	47	45	0·3	2	0·0
Spurn Head ...	48	46	*	Tr	Tr	0·0
Catterick ...	51	49	44	Tr	0·3	2·8
Tynemouth ..	53	49	48	0·2	-	1·1
St Abbs Head ..	53	47	*	1	5	*
Leuchars ...	53	45	43	Tr	6	3·2
Renfrew (Abbots L.)	52	47	44	2	17	0·0
Eskdalemuir ...	49	44	44	15	32	0·0
Point of Ayre...	51	46	*	3	9	0·0
Tiree	48	45	43	0·1	4	0·0
Stornoway ...	50	43	*	3	3	0·0
Dalwhinnie ...	49	41	35	Tr	2	1·7
Aberdeen ...	48	45	42	-	1	1·8
Wick ...	48	44	*	-	0·6	*
Lerwick ...	48	42	*	0·1	1	0·5
Blacksod Point	54	48	*	2	11	*
Malin Head ...	52	45	*	-	1	0·0
Aldergrove ...	51	43	38	1	7	0·0
Birr Castle ...	52	43	38	3	5	0·0
Valentia Obsy. †	52	47	42	3	1	0·0
Roches Point	50	44	*	11	5	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset hrs.	Humidity. 15h. G.M.T %	Humidity. 9h. G.M.T %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.	Yesterday.	To-day.	To-day.
Kew ...	18	cmo	cr o cmo	cr o cr o c	50	48	45	0·2	1	0·0	*	*	7
Croydon ...	217	cmo md o	cmo id o ir	cmo r o r	49	48	46	Tr	2	0·0	*	*	7
Greenwich (Royal Observatory) ...	149	c	c p o c	c p b c	50	48	42	Tr	1	0·0	89	77	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	50	46	44		1	0·0	89	78	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	52	48	46	1	1	0·0	86	78	*
Camden Square ...	110	o	o	*	51	48	45	3	1	*	*	77	*
Kensington ...	90	cm	c	*	50	45	43	0·6	0·5	0·0	At 18h. 86	73	*
Hampstead Observatory ...	450	o	or	or b c	51	45	41	-	2	0·0	*	86	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
<0·3	whole	period	

Kew Observatory. Max.	Time.	Min.	Time.
0·2	18-19h 8th	<0·1	0-7h 9th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 8th February. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 9th February. 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 ...						1025·7	S	2	rr	41		36		0·6
Brussels ...	1028·1	S	4	b	43	1021·8	SSW	4	r o r o	41	54	41	-	-
Berlin ...	1029·5	WSW	2	zo	41	1023·6	SSW	3	zo	36	*	36	*	Tr
Zurich ...	1033·8	SSW	1	m	30	1032·2	SSW	1	f	25	39	25	-	Tr
Rome ...	1028·6	-	0	b	52	1030·2	ENE	2	zo	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 3, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	19½ ,,
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.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 10th February, 1939.
No. 28204

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1022.3	+22	WSW	3	z	52	65	6	8	-	6	4-6	9	2500
	Croydon ...	1022.3	+22	W'S	4	c	52	65	7	4	7	-	4-6	9+	2500
	S. Farnborough	1022.8	+20	W'S	5	c	51	65	8	1	7	1	2-3	9+	2500
	Boscombe Down	1023.6	+18	WSW	5	c	51	75	8	8	7	6	4-6	9	2500
	Calshot (Sthmtn.)	1024.2	+24	SW	5	c	51	85	8	5	5	4	Tr	9	2500
	Lympne ...	1023.0	+22	W'N	5	c	50	65	8	8	-	8	4-6	9	2500
	Manston ...	1021.9	+23	W	5	c	52	65	8	1	-	6	1	9	1500
2	Shoeburyness ...	1021.4	+26	WSW	4	c	52	65	7	1	-	4	4-6	7-8	2500
	Felixstowe ...	1019.9	+26	W'N	5	c	52	65	8	5	4	6	4-6	7-8	1500
	Gorleston ...	1017.6	+26	NNW	5	c	52	65	7	5	5	-	2-3	7-8	2500
	Mildenhall ...	1018.9	+26	W'S	5	c	51	75	8	7	-	6	2-3	9+	4000
	Cranwell ...	1017.5	+28	SWW	4	c	51	75	7	-	7	6	0	9+	-
3	Birmingham ...	1019.7	+14	SW	3	c	51	65	8	1	7	1	2-3	7-8	2500
	Upper Heyford	1021.0	+22	W	5	c	52	65	8	7	-	6	4-6	7-8	4000
4	Ross-on-Wye	1020.2	+8	W'S	5	c	51	65	8	1	5	2	Tr	7-8	2500
5	Hartland Point	1021.4	+8	WSW	6	r	48	92	7	5	-	-	10	10	1500
	Bristol ...	1022.6	+14	W'S	5	c	51	75	8	8	7	8	2-3	7-8	1500
	Portland Bill ...	1024.1	+22	SW	4	c	48	92	7	5	2	-	7-8	10	2500
	Plymouth ...	1024.6	+10	SWW	4	c	50	92	7	5	7	-	4-6	10	7200
	The Lizard ...	1024.2	+2	SW'S	5	c/pr	50	92	7	8	2	-	7-8	10	1500
	Scilly (St. Mary's)	1022.7	-4	SSW	5	c	51	92	7	5	7	-	2-3	10	1500
	Guernsey ...	1022.8	+18	SW	3	c	52	85	6	-	3	-	0	10	-
6	Pembroke ...	1020.2	+2	WSW	5	ir	48	85	6	5	-	-	10	10	1500
7	Holyhead ...	1016.2	+8	SWW	4	rr	48	97	6	6	2	-	7-8	10	1500
	Chester (Sealand)	1016.6	+6	SSW	5	c	54	65	8	1	-	6	2-3	9+	2500
8	Manchester ...	1017.0	+22	WSW	4	bc	53	65	7	2	4	2	4-6	4-6	2500
10	Spurn Head ...	1018.8	+26	W'N	6	cq	49	75	7	8	2	4	4-6	7-8	2500
	Catterick ...	1014.0	+32	W'S	4	c	49	75	8	4	3	-	7-8	9+	1500
	Tynemouth ...	1010.8	+28	W	6	c	50	65	6	8	-	-	9+	9+	1500
11	St. Abbs Head ...	1008.6	+36	W	6	cq	49	75	8	8	2	-	7-8	9+	2500
	Leuchars ...	1007.9	+34	WSW	4	c	50	85	8	8	7	6	2-3	10	1500
12	Renfrew (Abbotsl.)	1010.6	+18	SWW	4	c	49	85	7	4	7	-	2-3	10	1500
	Eskdalemuir ...	1012.0	+36	WSW	5	c	46	85	7	5	-	-	10	10	1500
	Point of Ayre ...	1014.0	+18	W'S	5	c	48	85	7	5	2	-	4-6	10	1500
13A	Tiree ...	1006.9	+10	SSW	4	o	48	97	6	5	-	-	10	10	1500
13B	Stornoway ...	1003.5	+16	WSW	5	bc	50	75	7	5	-	-	4-6	4-6	2500
15	Dalwhinnie ...	1007.8	+2	SW	5	c	45	75	7	4	1	-	2-3	10	2500
	Aberdeen ...	1005.8	+34	W'N	4	c	50	65	7	5	3	9	1	7-8	2500
	Wick ...	1003.4	+38	W	4	c	48	75	8	5	7	-	7-8	9+	800
16	Lerwick ...	998.2	+28	WNW	5	c	46	85	8	8	7	-	4-6	7-8	800
17	Blacksod Point	1004.6	-40	SW	6	Dr	49	97	7	6	-	-	10	10	220
18	Malin Head ...	1008.5	0	SSW	4	c/r	47	85	6	8	2	-	4-6	9+	1500
	Aldergrove ...	1011.7	+2	SWW	4	r₀r₀	47	85	7	6	2	-	1	10	1500
19	Birr Castle ...	1011.0	-24	SE	3	ir₀	48	92	7	6	2	-	7-8	10	800
20	Valentia Obsy. †	1013.0	+6	SW	7	c/r	54	92	6	6	-	-	10	10	800
	Roches Point	1015.4	-16	SW	4	rr	49	97	6	6	2	-	7-8	10	800

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

District	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1023.5	+6	SSW	4	ir₀	49	85	6	5	-	-	7-8	7-8	2500	1	*
	Croydon ...	1023.8	+10	SW	5	r₀r₀	49	75	6	6	2	-	4-6	10	2500	1	*
	S. Farnborough	1023.8	-2	SW	4	rr	48	92	6	6	2	-	7-8	10	1500	1	*
	Boscombe Down	1023.2	-6	SW	4	c/r	49	85	7	5	2	-	7-8	10	1500	1	*
	Calshot (Sthmtn.)	1024.8	-2	SSW	4	z₀	48	92	6	5	7	-	7-8	9+	4000	1	2
	Lympne ...	1026.0	+10	SW	3	ir₀	46	92	7	5	7	-	7-8	10	4000	1	§ 3
	Manston ...	1024.5	+20	SW'W	5	ir₀	47	85	7	5	7	-	7-8	10	4000	1	*
2	Shoeburyness ...	1023.6	+10	SW	4	ir₀	47	85	6	-	7	-	0	10	-	1	*
	Felixstowe ...	1022.8	+10	W	4	id₀	47	75	6	5	2	-	2-3	10	2500	1	3
	Gorleston ...	1020.4	+14	WSW	4	o/pr	50	65	7	5	-	-	10	10	2500	1	3
	Mildenhall ...	1020.9	+6	SSW	3	ir₀	49	65	7	-	2	-	9+	9+	5700	1	*
	Cranwell ...	1018.2	-2	SSW	5	ir₀	47	85	7	5	2	-	7-8	10	2500	1	*
3	Birmingham ...	1019.1	-14	SSW	4	rr	46	92	7	6	-	-	10	10	800	1	*
	Upper Heyford	1021.3	-8	SSW	4	ir₀	47	85	7	5	2	-	7-8	10	1500	1	*
4	Ross-on-Wye	1019.9	-6	SW	4	dd	47	92	6	6	2	-	9+	10	800	1	*
5	Hartland Point	1020.5	+8	SW	6	c/r	50	85	7	5	4	-	9	9+	1500	1	4
	Bristol ...	1021.9	-8	SW	5	rr	49	92	6	5	2	-	4-6	10	1500	1	*
	Portland Bill ...	1023.8	-6	SW	5	c	49	92	7	5	2	-	4-6	10	2500	1	4
	Plymouth ...	1024.8	+6	SW'S	5	z₀	51	87	6	5	-	-	10	10	1500	1	3
	The Lizard ...	1024.9	+12	SW'W	6	bc	50	97	7	8	6	-	4-6	4-6	2500	1	3
	Scilly (St. Mary's)	1023.9	+12	SW'W	5	bc	51	97	6	5	4	3	2-3	4-6	2500	1	3
	Guernsey ...	1022.6	-2	SW	4	c	51	75	7	5	-	-	9+	9+	4000	1	3
6	Pembroke ...	1019.1	+6	W	8	oq	49	97	6	5	-	-	10	10	1500	1	4
7	Holyhead ...	1013.7	-2	SW'W	5	c/r	50	92	7	5	2	-	7-8	10	450	1	3
	Chester (Sealand)	1014.6	-24	SSW	5	ir	52	85	7	6	2	-	7-8	10	1500	1	*
8	Manchester ...	1014.8	-22	SSW	4	rr	47	92	6	6	2	-	7-8	10	1500	1	*
10	Spurn Head ...	1016.6	+2	SW	4	o	48	75	7	5	-	-	10	10	1500	0	3
	Catterick ...	1014.1	-4	S'E	3	r₀r₀	46	97	6	6	2	-	9	10	800	1	*
	Tynemouth ...	1013.2	+4	W	4	c/r	47	75	6	8	-	-	10	10	1500	1	2
11	St. Abbs Head ...	1010.6	+4	SW	3	c/pr	46	85	8	8	2	-	7-8	10	2500	1	3
	Leuchars ...	1010.0	+14	WSW	3	c/r	46	85	6	5	2	-	7-8	10	800	1	*
12	Renfrew (Abbotsl.)	1008.9	-6	S	1	d₀d₀	45	97	5	6	2	-	9+	10	800	1	*
	Eskdalemuir ...	1011.0	-6	SW'S	5	r₀r₀	42	97	5	6	-	-	10	10	220	1	*
	Point of Ayre ...	1010.0	-34	W'S	6	ir₀	50	97	7	8	2	-	4-6	10	800	1	3
13A	Tiree ...	1006.2	-2	SSE	4	c	45	97	6	6	2	-	10	10	1500	1	3
13B	Stornoway ...	1006.4	+20	SSW	3	c/pr	46	85	7	8	2	-	7-8	10	2500	1	2
15	Dalwhinnie ...	1009.9	+12	S	3	c	40	92	7	5	2	-	4-6	9+	2500	1	*
	Aberdeen ...	1009.1	+22	SSW	1	c	48	75	5	-	7	-	0	9+	-	1	1
	Wick ...	1006.8	+24	WSW	3	bc	43	85	8	5	-	-	2-3	2-3	1500	1	1
16	Lerwick ...	1003.2	+28	W	4	c/pr	45	85	8	8	7	-	4-6	7-8	800	1	*
17	Blacksod Point	1009.5	(+18)	WSW	5	iD	52	97	7	6	-	-	10	10	4150	1	4
18	Malin Head ...	1006.2	+20	SW	4	c/d	51	97	6	3	2	-	7-8	10	800	1	4
	Aldergrove ...	1009.4	+2	WSW	4	r₀r₀	49	97	5	6	-	-	10	10	450	1	*
19	Birr Castle ...	1014.0	+28	SW	3	c/r	54	97	7	6	2	-	7-8	10	800	1	*
20	Valentia Obsy. †	1017.1	+22	SW'S	5	c	53	92	6	5	-	-	10	10	800	1	5
	Roches Point	1018.7	+26	WSW	4	dd	52	97	6	5	-	-	10	10	450	1	4

PAST 24 HOURS.

District	Stations.	Weather. 7h.–13h. 9th.... (37)	Weather. 13h.–18h. 9th..... (38)	Weather. 18h. 9th. to 1h. 10th (39)	Weather. 1h.–7h. 10th (40)
1	London (Kew)	ebecm₀	cmir₀	cr₀r₀cm₀	c
	Croydon ...	bevc	czir₀	r₀r₀cm₀v	cv
	S. Farnborough	cpr₀c	cir₀id₀rc	crr₀c	cir₀c
	Boscombe Down	ebec	cir₀c	cir₀c	cir₀c
	Calshot (Sthmtn.)	bcc	c₀ir₀m₀	cid₀c	c
	Lympne ...	Pir₀ebc	cir₀	rrr₀m₀	om₀c
	Manston ...	cpr₀bc	cir₀	cir₀r₀r₀	cm₀c
2	Shoeburyness ...	epr₀bc	bccir₀c	cir₀c	c
	Felixstowe ...	cpr₀bc	ccm₀	cid₀ir	cir₀c
	Gorleston ...	ebccq	cpr₀q	coir₀ca.	cq
	Mildenhall ...	bcbc	ccir₀	cir₀r₀r₀mc	c
	Cranwell ...	cpr₀prc	cir₀	ir₀rc	c
3	Birmingham ...	obc	bcor	rc	c
	Upper Heyford	cbc	ccr₀	r₀r₀rcm₀	cm₀c
4	Ross-on-Wye	bcbc	cdr₀qrd	dqcq	c
5	Hartland Point	bccr	cr₀r₀ir₀	cad₀d₀r₀r₀	r₀r₀d₀d₀
	Bristol ...	cq₀bcq	cir₀irq	crrRq	cqd₀m₀
	Portland Bill ...	c	cd₀cm₀	c	c
	Plymouth ...	cm₀c	cm₀om₀	old₀d₀d₀	d₀d₀r₀r₀m₀
	The Lizard ...	epr₀c	cbc	bccpr	prc
	Scilly (St. Mary's)	cir₀c	cbc	bccd₀c	c
	Guernsey ...	bcc	cir₀	cboid₀	r₀r₀
6	Pembroke ...	eqir	orrifirm	r₀eq	oqdmc
7	Holyhead ...	brrm₀c	rrRRc	c	cbcc
	Chester (Sealand)	cbcz	crrm₀	crbc	bcc
8	Manchester ...	embcz	bccr₀r₀r	crrr₀m₀	ccm₀bcm₀
10	Spurn Head ...	cqir₀	cqco	oirdd	oc
	Catterick ...	bcpr₀c	br₀m₀r₀	m₀r₀r₀d₀c	cbc
	Tynemouth ...	c	coir₀	oir₀	oc
11	St. Abbs Head ...	cq	ir₀c	cm₀rr	c
	Leuchars ...	cir₀bc	cir₀cm₀	d₀r₀	cir₀m₀c
12	Renfrew (Abbotsl.)	dbcpr₀c	d₀r₀rd₀	cm₀d₀d₀mr₀cm₀r₀r₀c	
	Eskdalemuir ...	r₀cpr₀c	ccr₀r₀	cr₀r₀rr	crrr₀r₀
	Point of Ayre ...	bcc	cr₀r₀	prco	c
13A	Tiree ...	com₀	ordrd	oRr₀	ordr
13B	Stornoway ...	cpr₀	bccpr₀	crr	crr
15	Dalwhinnie ...	air	cir	*	crr
	Aberdeen ...	cr₀bc	bccz	bccr₀	r₀r₀c
	Wick ...	prbcc	cpr₀bc	bcc	cr₀r₀
16	Lerwick ...	cirrr	cbccpr	cpr	cid
17	Blacksod Point	idrm	iDrq	idq	cq
18	Malin Head ...	c	cDdc	cir₀cid₀c	cid₀c
	Aldergrove ...	ccr₀r₀	rrr₀r₀m₀	r₀r₀fid₀m₀	cm₀c
19	Birr Castle ...	cir₀	cir₀	cir₀c	c
20	Valentia Obsy. †	cR₀c	cpr₀c	cid₀	id₀d₀d₀
	Roches Point	bccrr	rrodd	oid₀c	oid₀o

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.
f₀, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
j, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ☾ lunar halo. Aurora.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.

Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.

An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.

"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

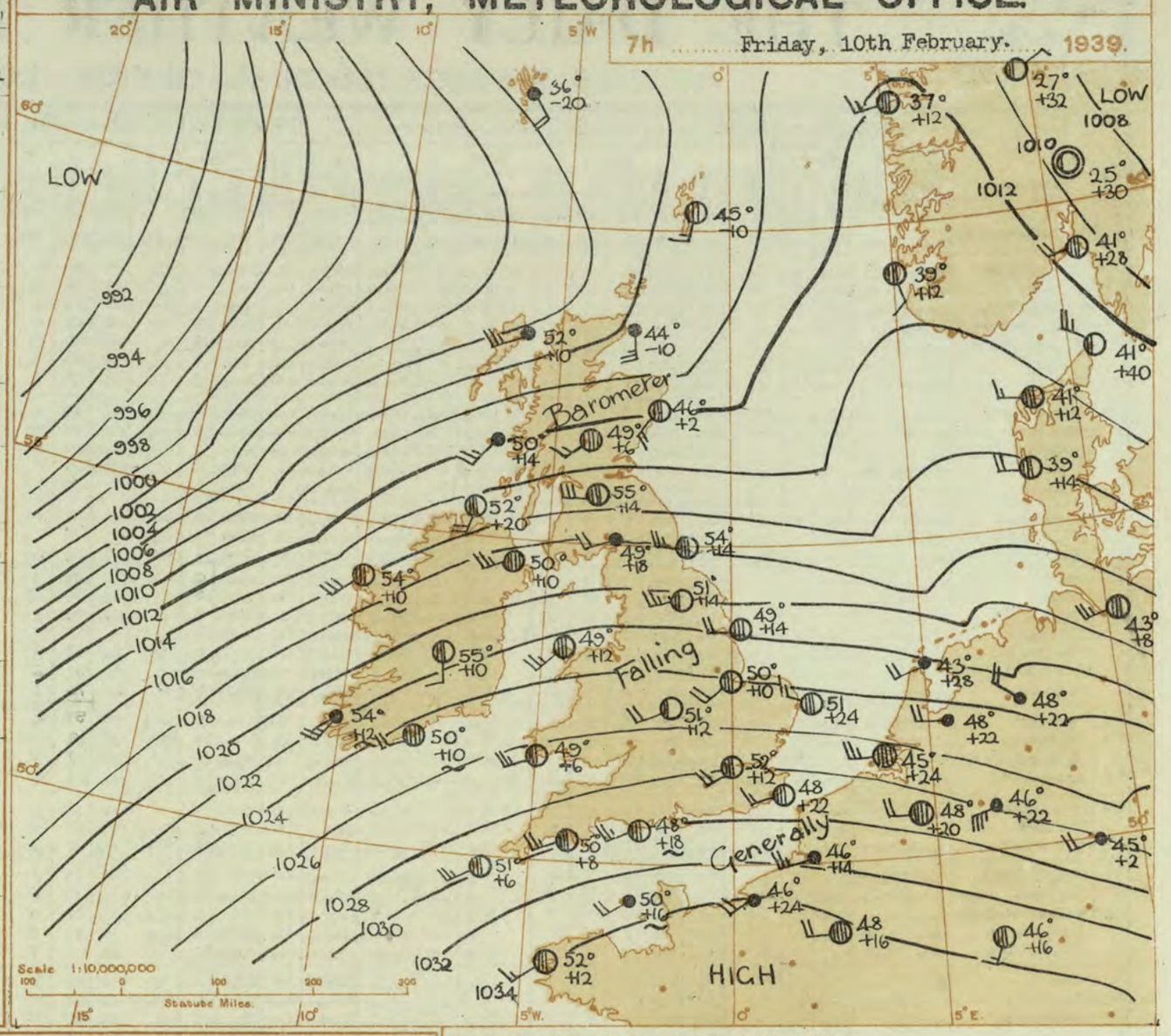
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 9th February. 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 8th 9h. to 9th 9h.	Temperature. (°F.) Max. 9h.—17h. 9th	Rainfall. (mm.) Night 8th 17h. to 9th 9h.	Rainfall. (mm.) Day. 9th 9h.—17h.	Sunshine. (Hrs.) Sunrise to 17h. 9th	Sunshine. (Hrs.) Sunrise to Sunset. 8th
1	Tunbridge W.	bec	cop	45	53	2	0.3	2.5	0.0
	Bournemouth	cbc	cdo	45	52	3	Trace	1.7	0.0
	Ventnor ...	rboc	coou	45	51	2	Trace	1.7	0.1
	Southsea ...	cbc	ocro	46	53	1	Trace	2.0	0.0
	Bognor Regis	bcc	cr	44	51	2	Trace	2.7	0.0
	Littlehampton	bc	bcer	45	51	1	0.2	2.8	0.0
	Worthing ...	bbcc	cor.	45	50	2	Trace	2.5	0.1
	Brighton ...	bc	cbdc	45	49	1	Trace	2.3	0.0
	Eastbourne† ...	bbcc	cor.	46	50	2	Trace	2.3	0.0
	Hastings† ...	bbc	cor.	45	51	2	0.3	3.1	0.0
	Folkestone ...	bc	com.	44	53	1	-	3.2	0.0
	Dover ...	bcc	co	44	53	2	-	2.9	0.0
	Deal	bcob	bco	45	53	1	-	4.1	1.3
	Ramsgate ...	cbc	c	44	54	0.3	-	4.2	1.7
	Margate ...	cpbc	bcc	45	52	-	1	4.3	1.3
2	Southend ...	bbcc	cor.	43	53	Trace	Trace	3.8	0.0
	Clacton-on-Sea	p.cbc	bcc	41	53	Trace	-	4.5	0.0
	Dovercourt ...	pbcv	bcoc	43	53	0.5	·	6.6	0.0
	Lowestoft ...	bc	bcc	42	53	-	-	3.3	0.0
	Skegness ...	bocbc	bcc	42	52	1	-	2.2	0.0
	Mablethorpe...	opcbc	bc	46	52	1	-	2.0	0.0
	Cleethorpes ...	bc	bc	43	52	Trace	-	2.2	0.0
3	Leamington S.	cobc	bcco	46	53	2	Trace	4.2	0.0
4	Cheltenham†	bcqc	cor.	45	53	7	Trace	4.0	0.3
5	Bath	bbcc	cir.	48	53	5	0.3	2.0	0.0
	Weymouth ...	cb	rpc	46	52	3	0.1	1.5	0.0
	Jersey ...	rc	cpc	44	51	2	Trace	0.6	4.0
	Torquay ...	bcc	coqip	47	53	6	-	0.9	0.0
	Falmouth	c	or.co	46	53	7	Trace	0.3	0.0
	Penzance ...	cr.c	c	47	53	5	Trace	0.1	0.0
	St. Ives ...								
	Bude... ...	bccp	cp	47	53	5	1	0.0	0.0
	Ilfracombe ...	rrcbc	co.rro	47	53	8	2	0.5	0.0
6	Aberystwyth	prbcc	prc	45	54	5	2	0.6	0.4
7	Llandudno ...	cbc	coirq	47	54	1	1	1.0	0.0
	Colwyn Bay...	c	cpo	48	53	4	1	0.1	0.0
	Rhyl	bcc	cr.	47	53	0.3	1	1.1	0.1
8	Wallasey ...	bcc	corr	45	53	4	2	3.9	0.0
	Southport ...	bc	corr	41	49	4	2	3.0	0.0
	Blackpool ...	bcm.c	cor	44	48	5	2	2.4	0.1
	Morecambe ...	bbc	cidr	44	46	7	1	1.3	0.8
9	Ilkley... ...	obc	cp	44	51	1	0.5	2.7	1.2
	Harrogate ...	cbc	bccrr	42	50	1	1	1.6	1.8
10	Berwick-on-T.	bcc	c	46	50	2	-	1.3	0.0
11	Dunbar ...	bcr.	cpr.	45	50	2	Trace	1.3	3.9
12	Troon... ...	roc	rrcru	43	47	21	2	0.0	0.0
	Douglas ...	opiR	circ	45	47	10	4	0.2	0.0

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



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

Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 10th February, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind west, moderate; fair with some bright periods; very mild and close.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Wind west, moderate or fresh; slight drizzle with mist or fog on hills and coast, fair inland; very mild and close.
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.	As 5 - 8.
14 Mid Scotland 15 N. E. Scotland	As 1 - 4.
16 Orkney and Shetland	Wind variable between south and west strong at times; cloudy, occasional rain; mild.
17 N. W. Ireland	As 5 - 8.
18 N. E. Ireland 19 S. E. Ireland	As 1 - 4.
20 S. W. Ireland	As 5 - 8.

H.M. Stationery Office Press, Kingsway, W.C.2. 6737/3640. m.8086. D.3769. Gp.948.

GENERAL INFERENCE.

A large anticyclone is centred over France and spreading northwards but pressure is still very low to the west and north of the British Isles. Winds will remain southwesterly and the weather mild. There will be occasional rain in Scotland but in southern districts precipitation will be limited to local drizzle and inland there will be fine periods.

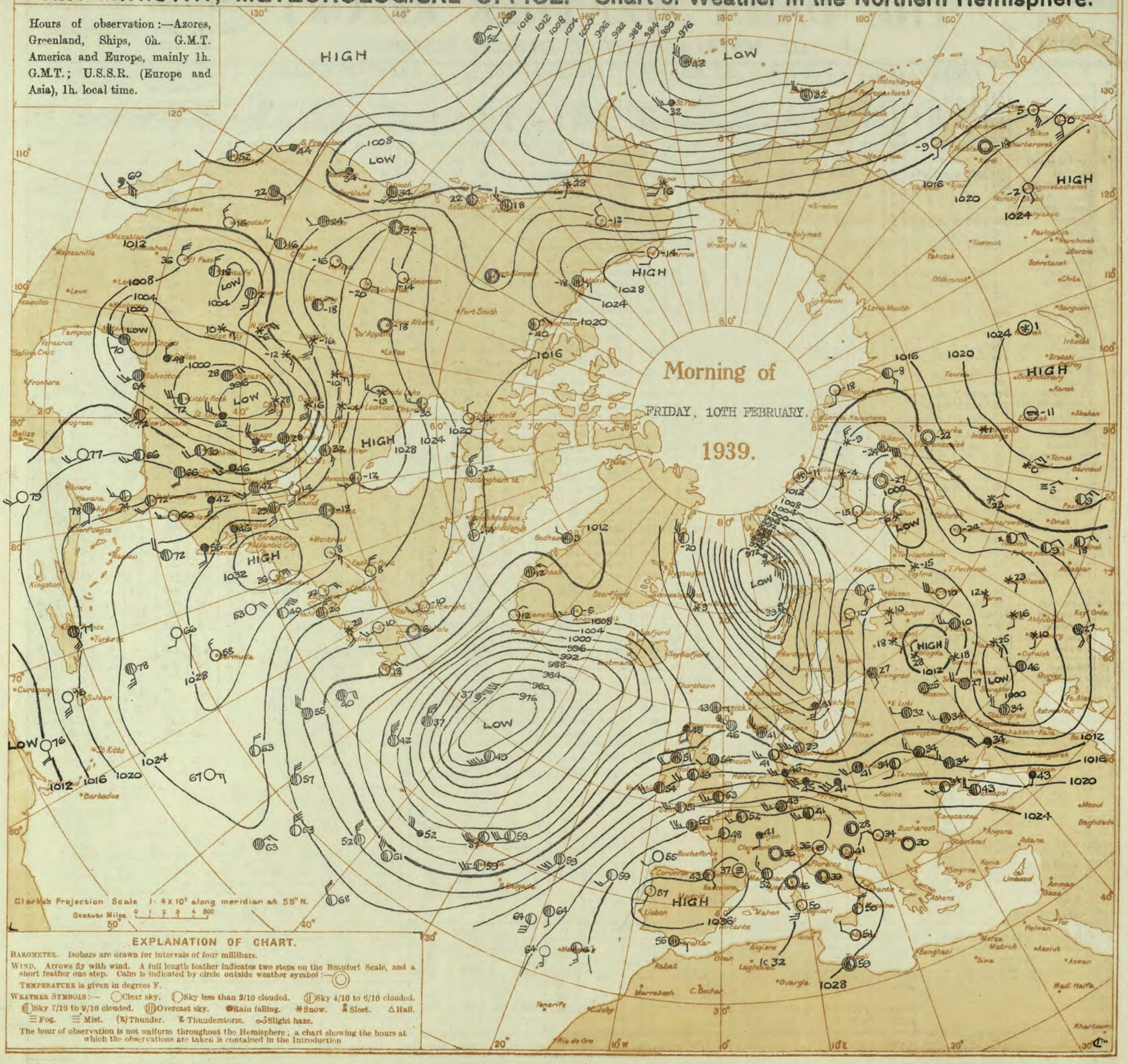
FURTHER OUTLOOK.

Mild. Mainly fair except in the extreme West and North and tendency for fog in the South.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 10th February, 1939.
No. 28204

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1025·3	+12	WSW	5	c	53	85	9	5	3	–	7-8	10	2500
	S. London	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Bossington Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1025·7	-2	W'S	3	o	48	97	6	5	-	-	10	10	800
	Manston ...	154	1024·0	+2	W'S	6	c	51	92	6	5	-	-	10	10	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1020·2	-10	WNW	4	c	52	85	7	5	-	-	10	10	2500
	Mildenhall ...	19	1021·3	+10	WSW	5	c	52	83	7	5	-	-	9	9	2500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1025·8	+14	WSW	7	r₀r₀	49	97	6	–	2	–	10	10	800
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1027·8	+14	W	5	c	49	92	7	5	7	-	4-6	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1028·7	+10	WSW	5	pr	50	97	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1027·9	+12	WSW	5	c	51	92	7	5	-	-	10	10	2500
	Guernsey ..	175	1029·5	+16	SW'W	5	id₀	50	97	6	5	-	-	10	10	1500
6	Pembroke ...	142	1024·5	+20	WSW	6	cq	49	97	7	*	-	-	10	10	1500
7	Holyhead ...	26	1019·7	+22	SW	5	c	49	92	7	5	-	8	2-3	7-8	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1017·3	+14	W'S	4	o	49	92	7	5	-	-	10	10	1500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1014·0	+14	SW	2	c/r	54	92	7	-	2	-	10	10	1500
11	St Abbs Head ..	280	10126	+10	W	3	rr	47	97	6	3	2	-	7-8	10	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsinch I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1016·2	+22	W'S	6	o	52	97	8	5	-	-	10	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1007·8	+8	SSE	4	rr	45	92	7	5	2	-	7-8	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1000·0	+12	SW	3	c	43	85	8	5	7	-	4-6	7-8	1500
16	Lerwick ...	156	1005·3	+18	E	2	c	43	97	7	8	2	-	7-8	10	800
17	Blacksod Point	18	1014·2	+16	SW	6	c	53	92	7	9	-	-	10	10	450
18	Malin Head ...	84	1012·6	+32	SW	4	c/d	51	92	6	9	2	-	4-6	9	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1019·4	+4	SW	4	o	54	92	7	5	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1028·3	+16	WSW	3	c	52	85	7	5	-	-	10	10	1500	1	*
Croydon ...	1028·1	+12	SW'W	4	c	52	85	8	5	7	-	7-8	10	2500	1	*
S. London	1028·7	+12	WSW	4	c	51	85	8	5	2	-	9+	10	2500	1	*
Bossington Down	1029·9	+16	W'S	4	c/r	50	92	7	5	-	-	9+	9+	1500	1	*
Calshot (Sthmtn.)	1030·4	+10	SW'S	3	c	47	97	7	5	-	-	9+	9+	1500	1	2
Lympne ...	1029·3	+22	W'S	3	c	48	92	7	5	3	-	7-8	9+	1500	1	§2
Manston ...	1028·8	+30	SW'S	2	c	49	85	8	5	-	-	9+	9+	1500	1	*
Shoeburyness ...	1028·6	+20	SW'W	3	c	50	85	8	5	-	-	10	10	2500	1	*
Felixstowe ...	1026·9	+20	W'N	3	c	50	85	8	5	1	8	2-3	7-8	2500	1	3
Gorleston ...	1024·4	+24	WNW	3	c	51	85	8	5	3	-	4-6	9	2500	1	2
Mildenhall ...	1025·8	+22	SW'S	4	c	49	92	7	5	7	1	7-8	9+	2500	1	*
Cranwell ...	1023·3	+10	SW'S	4	c	50	85	7	5	7	-	2-3	9+	4000	1	*
Birmingham ...	1026·2	+12	WSW	4	bc	51	85	6	5	-	6	π	2-3	1500	1	*
Upper Heyford	1026·8	+8	W'S	4	c	49	92	7	5	4	6	4-6	10	1500	1	*
Ross-on-Wye	1026·9	+12	WSW	4	c	53	75	5	8	7	1	7-8	9	2500	1	*
Hartland Point	1027·6	+8	WSW	7	d₀d₀	49	97	6	-	2	-	10	10	800	1	4
Bristol ...	1029·2	+16	SW	4	id₀	51	92	5	6	2	-	7-8	10	450	1	*
Portland Bill ...	1029·6	-18	WSW	5	c	48	92	7	5	2	-	7-8	10	1500	1	4
Plymouth ...	1030·5	+4	SW	5	c/r	50	97	5	5	-	-	9+	9+	450	1	2
The Lizard ...	1030·7	+8	WSW	5	c	50	97	7	8	2	-	7-8	9+	1500	1	2
Scilly (St. Mary's)	1029·1	+6	SW'W	5	c	51	97	7	5	3	-	4-6	9+	2500	1	3
Guernsey ..	1032·8	+16	SW'W	4	r₀r₀	50	97	5	5	-	-	10	10	1500	1	5
Pembroke ...	1026·8	+6	WSW	5	cq	49	97	6	5	2	-	7-8	10	800	1	3
Holyhead ...	1022·7	+12	SW'S	5	c	49	97	7	5	-	-	10	10	450	1	3
Chester (Sealand)	1024·3	+22	SSW	3	c	54	75	7	5	-	-	7-8	7-8	1500	1	*
Manchester ...	1024·0	+20	WSW	3	z₀	49	85	6	6	-	-	9	9	2500	1	*
Spurn Head ...	1021·8	+14	W	4	c	49	85	6	5	2	-	9+	10	1500	0	2
Catterick ...	1019·4	+14	W'S	5	bc	51	85	8	5	9	-	2-3	4-6	1500	1	*
Tynemouth ...	1016·7	+14	W	5	c	54	75	7	8	-	-	7-8	7-8	1500	1	2
St Abbs Head ..	1014·8	+20	WSW	4	c	53	85	8	3	2	-	7-8	9+	1500	1	3
Leuchars ...	1013·4	+10	W	7	c/r	52	97	8	5	2	-	7-8	9+	800	1	*
Renfrew (Abbotsinch I.)	1014·4	+14	W	6	c	55	86	8	8	3	-	4-6	9	1500	1	*
Eskdalemuir ...	1017·9	+18	WSW	4	r₀r₀	49	92	6	-	2	-	10	10	800	1	*
Point of Ayre...	1015·8	+14	WSW	5	c	53	85	8	5	2	-	9	9+	1500	1	3
Tiree	1011·7	+14	SSW	5	rr	50	97	5	-	2	-	10	10	800	1	*
Stornoway ...	1007·4	+10	WSW	5	rr	52	92	7	5	2	-	4-6	10	1500	1	3
Dalwhinnie ...	*	+6	SW	3	c	49	92	7	5	-	-	10	10	2500	1	*
Aberdeen ...	1012·0	+2	SSW	3	c	46	92	6	-	7	-	0	7-8	-	1	1
Wick ...	1008·7	-10	S	5	r₀r₀	44	97	7	6	2	-	9	10	800	1	2
Lerwick ...	1009·2	-10	SSW	3	c/d	45	92	7	8	2	-	7-8	10	800	1	*
Blacksod Point	1015·6	+10	SW	6	c	54	92	7	8	-	-	9+	9+	800	1	4
Malin Head ...	1015·2	+20	SSW	4	c	52	92	7	5	-	-	9	9	2500	1	3
Aldergrove ...	1018·1	+10	WSW	5	c	50	92	7	5	-	-	10	10	800	1	*
Birr Castle ...	1020·8	+10	S	2	c	55	85	8	5	-	-	9	9	2500	1	*
Valentia Obsy. †	1021·9	+12	SSW	5	d₀d₀	54	97	6	5	-	-	10	10	450	1	4
Roches Point	1024·6	+10	WSW	4	o	50	97	7	5	-	-	10	10	800	1	4

PAST 24 HOURS.

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

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. Yesterday.	Humidity 15h. G.M.T. % Yesterday.	Humidity 9h. G.M.T. % To-day.	Visibility 9h. To-day.
Kew	18	cbcom₀	cm₀ir₀	r₀r₀cm₀c	53	48	46	0·1	1	3·1	•	•	6
Croydon	217	bcrc	cz₀ir₀	r₀r₀cm₀cr	53	49	46	Tr	1	2·8	•	•	6
Greenwich (Royal Observatory)	149	c	cr₀r	r₀r₀c	53	50	44	0·5	0·5	2·4	62	79	6
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	1·6	•	•	•
Westminster (St. James' Park)	27	•	•	•	51	49	45	•	1	2·1	69	79	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	53	48	46	-	1	1·4	73	79	•
Camden Square	110	bc	o	•	53	49	45	-	1	•	•	81	•
Kensington	80	bc	cp	•	53	49	45	0·1	1	2·0	At 18h. 77	78	•
Hampstead Observatory	450	bc	or	o	51	47	45	-	1	2·3		89	•

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

South Kensington Max.	Time.	Min.	Time.
6·3 whole period			

Kew Observatory Max.	Time.	Min.	Time.
0·2	17h 9th	6·1	06h 10th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 9th February. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 10th February. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1031·0	WSW	3	z₀	50	1034·3	W	4	z₀	48	54	48	1	–
Brussels	1026·7	SW	3	c	45	1029·0	W	4	c	48	52	45	2	1
Berlin						1019·8	SSE	5	c	43		41		4
Zurich	1033·4	NNW	1	c	45	1035·6	SSW	5	c	46	48	30	Tr	Tr
Rome	1029·1	WSW	1	b	52						*	*	–	

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 3, 22 —Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

TERMS OF SUBSCRIPTION. Single Copies, 1d. each; by post ½d. 2/6 per month; 6/6 per quarter. 25/- per year.

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

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 9h observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 11th February, 1939

No. 28205

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1031·2	+14	SW	3	z	54	75	6	5	-	-	10	10	1500
	Croydon ...	1030·9	+12	WSW	4	c	54	75	6	5	-	-	10	10	1500
	S. Farnborough	1031·6	+10	W'S	4	id	54	85	8	5	-	-	10	10	1500
	Boscombe Down	1032·3	+10	WSW	3	c/r	53	85	7	5	2	-	9	10	2500
	Calshot (Sthmtn.)	1032·9	+12	SW'S	4	c	52	92	8	8	-	-	9+	9+	4500
	Lympne ...	1033·2	+13	WSW	4	c	51	85	6	5	7	-	7-8	10	800
	Manston ...	1031·0	+10	WSW	5	c	54	75	6	5	3	-	9	9+	2500
2	Shoeburyness ...	1030·5	+10	W'S	4	c	53	85	6	5	-	-	10	10	1500
	Felixstowe ...	1029·5	+10	W	4	c	55	75	8	5	2	-	9+	9+	1500
	Gorleston ...	1028·1	+16	W'S	4	c	57	75	8	1	3	1	1	9	2500
	Mildenhall ...	1028·1	+6	SW'W	5	c	57	75	8	5	7	9	2-3	9+	2500
	Cranwell ...	1025·9	+10	SW'W	5	c	56	85	7	5	7	-	4-6	9+	1500
3	Birmingham ...	1028·5	+10	WSW	4	c	57	75	8*	5	-	-	7-8	7-8	1500
	Upper Heyford	1029·5	+6	W	5	bc	56	75	8	5	7	8	4-6	4-6	1500
4	Ross-on-Wye	1029·6	+14	SW'W	3	c	54	85	8	5	-	-	9+	9+	2500
5	Hartland Point	1030·5	+14	WSW	5	d	50	97	5	-	2	-	10	10	800
	Bristol ...	1031·4	+10	WSW	4	id	54	85	6	6	2	-	7-8	9+	800
	Portland Bill ...	1032·1	+10	WSW	5	c	48	92	7	5	-	-	10	10	1500
	Plymouth ...	1033·0	+8	SW	4	z	51	92	6	6	-	-	10	10	1500
	The Lizard ...	1033·2	+10	SW'W	5	c	51	97	7	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	1031·7	+12	SW	5	c	53	97	7	5	-	-	9+	9+	1500
	Guernsey ...	1034·8	+10	SW	4	r r	52	97	5	5	-	-	10	10	1500
6	Pembroke ...	1029·9	+8	WSW	5	df	50	97	3	5	-	-	10	10	800
7	Holyhead ...	1029·5	+14	SSW	5	c	50	97	5	5	-	-	10	10	<150
	Chester (Sealand)	1029·2	0	SW	5	c	52	75	8	5	9	-	4-6	7-8	4000
8	Manchester ...	1029·5	+14	SW'W	3	z	55	85	6	5	7	-	7-8	10	1500
10	Spurn Head ...	1029·9	+14	WSW	3	c	51	85	6	-	9	-	0	10	-
	Catterick ...	1029·6	+18	W'S	4	c	54	85	8	4	3	9	4-6	9	800
	Tynemouth ...	1029·5	+10	W	6	bc	57	75	6	2	3	-	4-6	4-6	1500
11	St. Abbs Head ...	1017·2	+20	SW	6	ir	50	92	7	3	6	-	4-6	7-8	1500
	Leuchars ...	1016·2	+10	SW	5	z	54	92	6	5	7	6	4-6	7-8	450
12	Renfrew (Abbots I.)	1018·8	+18	SW'W	3	c	55	85	7	5	-	-	9+	9+	1500
	Eskdalemuir ...	1020·2	+12	SW	6	d d	49	92	5	-	2	-	10	10	<150
	Point of Ayre ...	1022·7	+22	W'S	6	c	58	85	8	5	-	-	9+	9+	2500
13A	Tiree ...	1014·3	+4	SSW	6	r r	50	97	5	-	2	-	10	10	450
13B	Stornoway ...	1009·8	+10	SW	5	RR	53	92	6	8	2	-	9	10	1500
15	Dalwhinnie ...	1015·0	+12	SW	4	ir	53	85	7	5	2	-	4-6	9+	2500
	Aberdeen ...	1013·9	+8	S'E	3	c	55	85	6	5	7	-	4-6	7-8	1500
	Wick ...	1010·4	+10	SW	4	c	55	85	8	5	7	1	7-8	9+	1500
16	Lerwick ...	1008·2	-10	SSW	6	rP	48	97	3	5	-	-	10	10	<150
17	Blacksod Point	1018·4	+14	S	6	DD	52	97	6	6	-	-	10	10	<150
18	Malin Head ...	1017·4	+4	SW	4	c	55	85	8	5	-	-	9	9	2500
	Aldergrove ...	1021·6	+20	W'S	4	id	54	85	9	5	-	-	10	10	800
19	Birr Castle ...	1023·3	+8	SW	2	c	53	85	8	5	1	-	7-8	10	2500
20	Valentia Obsy. †	1024·6	+10	SSW	6	d d	55	97	5	5	-	-	10	10	450
	Roches Point	1027·6	+22	SW	4	dd	51	97	5	5	-	-	10	10	220

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1032·2	+10	SSW	2	z	54	85	6	5	-	-	7-8	7-8	4000	1	*
	Croydon ...	1032·0	+8	SW	3	z	55	75	6	5	-	-	9+	9+	1500	1	*
	S. Farnborough	1032·5	+8	WSW	4	c	53	85	7	5	-	-	9+	9+	2500	1	*
	Boscombe Down	1033·0	+10	SW'W	3	c	53	92	7	5	-	-	9	9	2500	1	*
	Calshot (Sthmtn.)	1033·4	+6	SW'S	3	z	49	97	6	5	-	-	9+	9+	1500	1	2
	Lympne ...	1033·6	+16	SW'W	3	c	49	92	7	5	-	-	9	9	2500	1	3
	Manston ...	1032·0	+8	WSW	4	c	51	85	6	5	3	-	7-8	9	2500	1	*
2	Shoeburyness ...	1031·8	+14	SW	3	bc	52	85	6	5	-	-	4-6	4-6	2500	1	*
	Felixstowe ...	1031·2	+14	W	3	z	54	85	6	5	-	-	9+	9+	1500	0	3
	Gorleston ...	1028·5	+10	WSW	4	c	56	75	6	5	3	-	2-3	7-8	2500	1	2
	Mildenhall ...	1029·8	+12	SW	4	c	55	85	7	5	-	-	9	9	2500	1	*
	Cranwell ...	1027·9	+18	SW	4	c	54	85	7	5	-	2	2-3	9	2500	1	*
3	Birmingham ...	1030·2	+8	WSW	3	c	53	85	8	5	-	-	9+	9+	1500	1	*
	Upper Heyford	1031·1	+8	WSW	4	z	51	92	6	5	7	-	4-6	4-6	1500	1	*
4	Ross-on-Wye	1030·6	+6	WSW	4	c	53	85	7	5	-	-	10	10	1500	1	*
5	Hartland Point	1031·6	+14	SW	4	d	50	97	6	5	2	-	7-8	10	800	1	3
	Bristol ...	1032·7	+10	W'S	4	c	52	92	7	5	2	-	9	10	1500	1	*
	Portland Bill ...	1033·7	+4	WSW	4	c	49	92	7	5	-	-	10	10	2500	1	4
	Plymouth ...	1034·0	+6	W'S	4	d d	51	97	5	5	-	-	10	10	800	1	2
	The Lizard ...	1034·0	+8	SW'W	4	c	50	97	7	5	-	-	10	10	1500	1	2
	Scilly (St. Mary's)	1033·0	+8	SW	3	id	51	97	6	5	-	-	10	10	1500	1	3
	Guernsey ...	1035·8	+6	SW	1	bc	51	92	7	5	-	-	4-6	4-6	2500	1	3
6	Pembroke ...	1030·1	+2	W'S	5	F	48	97	1	-	-	-	10	10	<150	1	3
7	Holyhead ...	1029·6	+10	SW'S	5	d d	49	97	4	5	-	-	10	10	<150	1	3
	Chester (Sealand)	1027·3	+6	SSW	4	bc	55	85	8	2	-	-	4-6	4-6	1500	1	*
8	Manchester ...	1027·7	+8	SSW	3	c	55	85	7	5	-	-	10	10	2500	1	*
10	Spurn Head ...	1029·5	+12	WSW	3	c	53	85	6	-	9	-	0	9	-	0	2
	Catterick ...	1025·3	+14	SW'W	3	z	52	92	6	6	-	-	10	10	800	1	*
	Tynemouth ...	1029·6	+6	WSW	4	c	52	85	6	8	-	-	9	9	1500	1	1
11	St. Abbs Head ...	1018·8	0	WSW	6	cq	54	85	8	3	6	-	7-8	9+	1500	0	4
	Leuchars ...	1016·7	+6	W	7	cq	54	92	7	5	4	6	7-8	9	1500	1	*
12	Renfrew (Abbots I.)	1020·6	+18	WSW	6	ir	55	85	7	5	2	-	4-6	10	1500	1	*
	Eskdalemuir ...	1020·9	+8	SW	7	d d	48	97	4	-	2	-	10	10	<150	1	*
	Point of Ayre ...	1023·9	+20	WSW	5	c	56	85	7	5	-	-	9+	9+	2500	1	3
13A	Tiree ...	1015·3	+8	SSW	6	dr	50	97	5	-	2	-	10	10	450	1	5
13B	Stornoway ...	1010·1	+6	SW	5	r r	52	97	6	5	2	-	4-6	10	2500	1	3
15	Dalwhinnie ...	1016·0	+18	SW	6	c	53	85	7	5	6	1	7-8	9+	2500	0	*
	Aberdeen ...	1014·5	+8	SW'S	3	bc	56	85	6	5	4	-	2-3	2-3	1500	1	1
	Wick ...	1010·5	+4	SW	3	c	54	85	8	5	7	4	7-8	9	800	1	2
16	Lerwick ...	1007·2	+2	SSW	5	df	47	97	(4)	-	-	-	10	10	<150	1	*
17	Blacksod Point	1019·4	+14	S	6	DD	52	97	6	6	-	-	10	10	<150	1	4
18	Malin Head ...	1018·6	+16	SW'W	4	c/d	54	92	7	8	-	-	9	9	1500	1	3
	Aldergrove ...	1022·5	+14	WSW	5	c/d	53	92	8	5	-	-	10	10	1500	1	*
19	Birr Castle ...	1024·6	+10	SSW	2	c	56	85	8	5	-	-	7-8	7-8	2500	1	*
20	Valentia Obsy. †	1025·9	+10	SSW	4	z	54	97	6	5	-	-	10	10	450	1	4
	Roches Point	1028·2	+6	SSW	4	DD	51	97	4	5	-	-	10	10	220	1	4

PAST 24 HOURS.

District	Stations	Weather 7h.—13h. 10th (37)	Weather 13h.—18h. 10th (38)	Weather 18h. 10th to 1h. 11th (39)	Weather 1h.—7h. 11th (40)
1	London (Kew)	ccm	czbcm	bccm	cm
	Croydon ...	ccm	cz	cbcz c	cid c
	S. Farnborough	c	cbcc	c b c	ir id c
	Boscombe Down	circ	c	cid cm	cm c
	Calshot (Sthmtn.)	acjpc	cm	cm bco	oc
	Lympne ...	compc	c	bcbomm	ofd om
	Manston ...	cm	cbcm	c bm w	bcm w
2	Shoeburyness ...	mc	cm	wm d cm	m c
	Felixstowe ...	cbcc	ccm	cm bm	bm cm
	Gorleston ...	cq	vq	cb cq	cbc
	Mildenhall ...	ccmc	c	cbcb cm	cm c
	Cranwell ...	c	ccz c	cb c	c
3	Birmingham ...	bcc	c	c	c
	Upper Heyford	c	bcm	bcm cm	cm
4	Ross-on-Wye	c	c	cbcc	c
5	Hartland Point	odd cod	ffocd	fffdd d	d d c
	Bristol ...	cid m	cid	cd dd	cid
	Portland Bill ...	c	c	co	o
	Plymouth ...	cm om	om id	cd d cm	cid m
	The Lizard ...	c	c	c	CFF
	Scilly (St. Mary's)	coc	cid	cd c	cofFc
	Guernsey ...	r ir	or bc	bccbc	bcc
6	Pembroke ...	ofedf	FEFec	iFdd	ifddm
7	Holyhead ...	cmfc	cmddo	d d mfc	cd d m c
	Chester (Sealand)	cbcc	cbc	bcb	b c
8	Manchester ...	cm r r	cm	ccm c	cbcm
10	Spurn Head ...	cz	cz	cbW	bccW
	Catterick ...	bcc	com	om ir dc	c
	Tynemouth ...	cbc	bcc	c	cbcc
11	St. Abbs Head ...	cqir	cq	bcqc	cbc
	Leuchars ...	cid om	cm cq	bcqcbc	bccq
12	Renfrew (Abbots I.)	cir m c	cir	cir	c
	Eskdalemuir ...	or r dd	od d m	od d m	oirm
	Point of Ayre ...	cq	c	c	c
13A	Tiree ...	r d m	oridm	oidm	odrc
13B	Stornoway ...	cRR	cRR	cr r pr	cpr r
15	Dalwhinnie ...	cir	cir	*	ciro
	Aberdeen ...	cz	cbcz	bccz	cz bc
	Wick ...	r c pr	cr c	cbc	bcc
16	Lerwick ...	cdrff	orffdf	ofcir	cir
17	Blacksod Point	idq	id q	iDq	preq
18	Malin Head ...	c	cid c	cd dcid c	c
	Aldergrove ...	id m id	cid c	bccid c	cpr
19	Birr Castle ...	c	c	cbc	bcc
20	Valentia Obsy. †	oo d	d d m	mDDdd	ddc
	Roches Point	ood	ddDD	DD	ddid

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

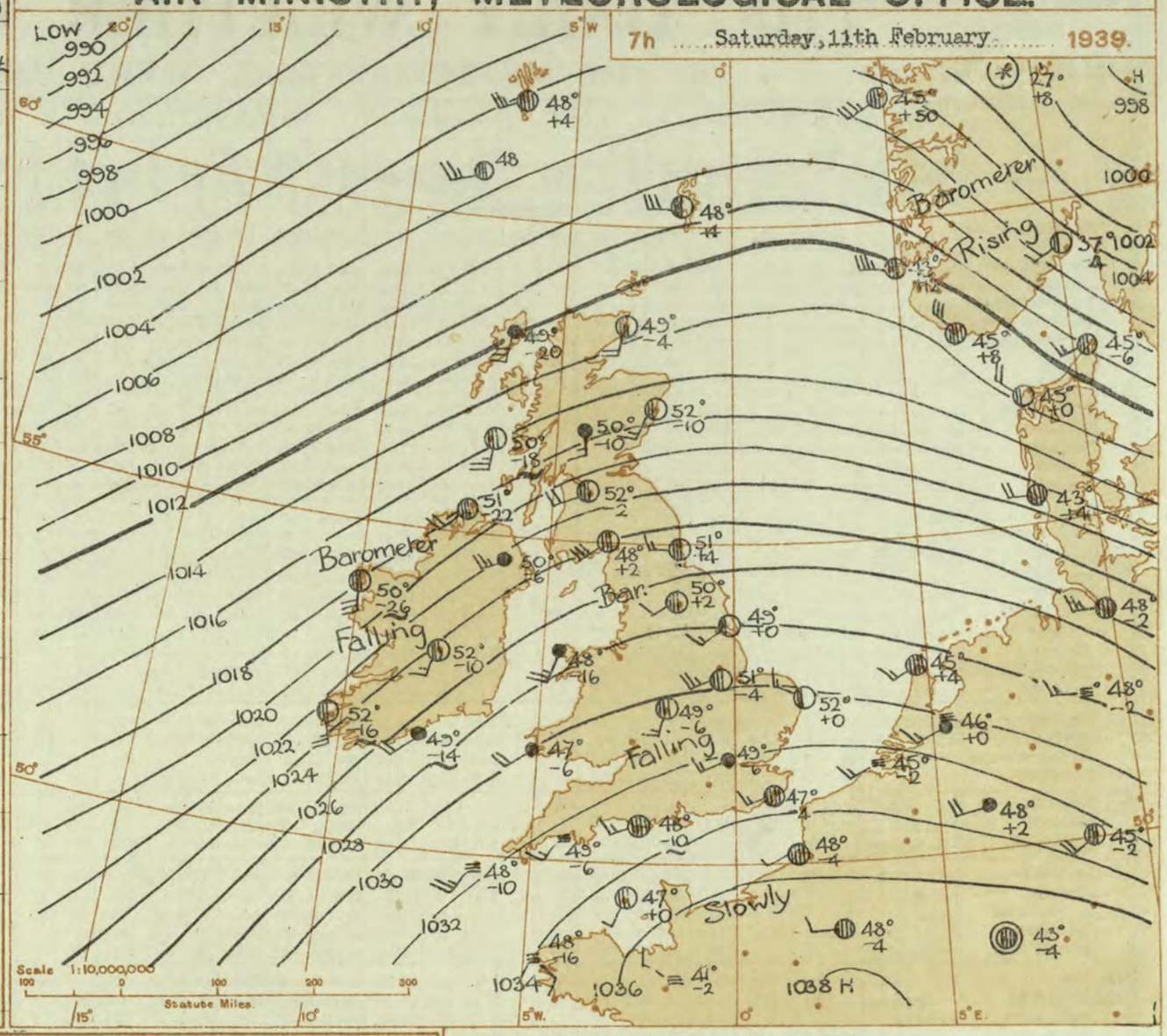
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 10th February. 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. to 9h.	Temperature. (°F.) Max. 9h.—17h.	Rainfall. (mm.) Night. 17h. to 9h.	Rainfall. (mm.) Day. 9h.—17h.	Sunshine. (Hrs.) Sunrise to 17h.	Sunshine. (Hrs.) Sunrise to Sunset
				9/10th	10th	9/10th	10th	10th	9/10th
1	Tunbridge W.	o	o	47	53	1	-	0·0	2·5
	Bournemouth	co	o	48	54	0·3	-	0·2	1·7
	Ventnor ...	pcfo	ou	46	51	0·3	-	0·0	1·7
	Southsea ...	c	oc	47	54	Trace	-	0·0	2·0
	Bognor Regis	c	c	46	51	1	-	0·2	2·7
	Littlehampton	c	c	47	50	1	-	0·1	2·8
	Worthing ...	o	o	47	50	1	-	0·0	2·5
	Brighton ...	c	c	46	48	1	-	0·0	2·3
	Eastbourne† ...	o	o	47	50	2	-	0·0	2·3
	Hastings† ...	o	co	47	51	1	-	0·0	3·1
	Folkestone ...	moc	com	46	53	4	-	0·2	3·2
	Dover ...	oc	cbec	46	50	3	-	0·0	2·9
	Deal	obc	obec	47	55	1	-	1·5	4·1
	Ramsgate ...	cbc	bc	47	55	1	-	1·3	4·2
	Margate ...	cbc	c	48	56	2	-	1·0	4·3
2	Southend ...	c	co	45	54	1	-	0·8	3·8
	Clacton-on-Sea	bec	cbc	44	55	1	-	1·6	4·5
	Dovercourt ...	bc	bec	46	57	2	-	1·3	6·6
	Lowestoft ...	bec	bec	47	59	-	-	2·5	3·3
	Skegness ...	oc	c	44	58	2	-	0·0	2·2
	Mablethorpe...	c	cbc	47	57	0·3	-	0·0	2·0
	Cleethorpes ...	cbc	bc	47	57	0·3	-	0·0	2·2
3	Leamington S.	cbc	bec	47	56	1	-	0·2	4·2
4	Cheltenham†	c	cbec	46	56	0·5	-	2·0	4·0
5	Bath	cm	mc	49	56	1	0·3	0·0	2·0
	Weymouth ...	c	c	48	52	-	-	0·0	1·5
	Jersey ...	pcdc	bec	48	53	0·1	0·3	2·2	0·6
	Torquay ...	oc	o	48	55	-	-	0·0	0·9
	Falmouth	c	c	47	54	0·3	-	0·2	0·0
	Penzance ...	c	co	49	55	Trace	-	0·0	0·1
	St. Ives ...								
	Bude... ...	ood	od	48	54	0·5	Trace	0·1	0·0
	Ilfracombe ...	rodo	odod	48	54	1	0·1	0·0	0·5
6	Aberystwyth	prcid	idc	47	50	4	1	0·0	0·6
7	Llandudno ...	c	bcb	47	56	0·1	-	3·9	1·0
	Colwyn Bay...	cbc	bcb	47	61	0·3	-	4·1	0·1
	Rhyl	cbc	bcb	48	57	0·1	-	4·3	1·1
8	Wallasey ...	cbc	bcb	46	59	0·3	-	4·3	3·9
	Southport ...	croc	cbec	45	54	3	-	0·8	3·0
	Blackpool ...	odc	omem	44	49	3	Trace	0·0	2·4
	Morecambe ...	bcb	om	44	48	7	Trace	0·0	1·3
9	Ilkley... ...	cop	o	45	55	5	0·4	0·0	2·7
	Harrogate ...	cq	cqid	44	53	6	Trace	0·0	1·6
10	Berwick-on-T.	c	c	44	54	1	-	0·5	1·3
11	Dunbar ...	cpr	cpr	44	57	3	Trace	0·1	1·3
12	Troon... ...	oco	oco	45	51	4	-	0·0	0·0
	Douglas ...	cir	cm	44	51	1		0·0	6·2

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



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 11th February, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Moderate southwest winds. Fair with some bright intervals. Mild and close.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Moderate or fresh southwest winds. Some drizzle and fog on coasts and hills. Brighter intervals locally. Mild and close.
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.	As 5 - 8.
14 Mid Scotland 15 N. E. Scotland	As 1 - 4.
16 Orkney and Shetland 17 N. W. Ireland	As 5 - 8.
18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 1 - 4.

GENERAL INFERENCE.

An anticyclone remains over France and pressure is low to the west and north of the British Isles. Weather will continue very mild, but mainly cloudy, although some bright periods are probable in the lee of the larger hill masses. On the west coast there will be some drizzle and fog.

FURTHER OUTLOOK.

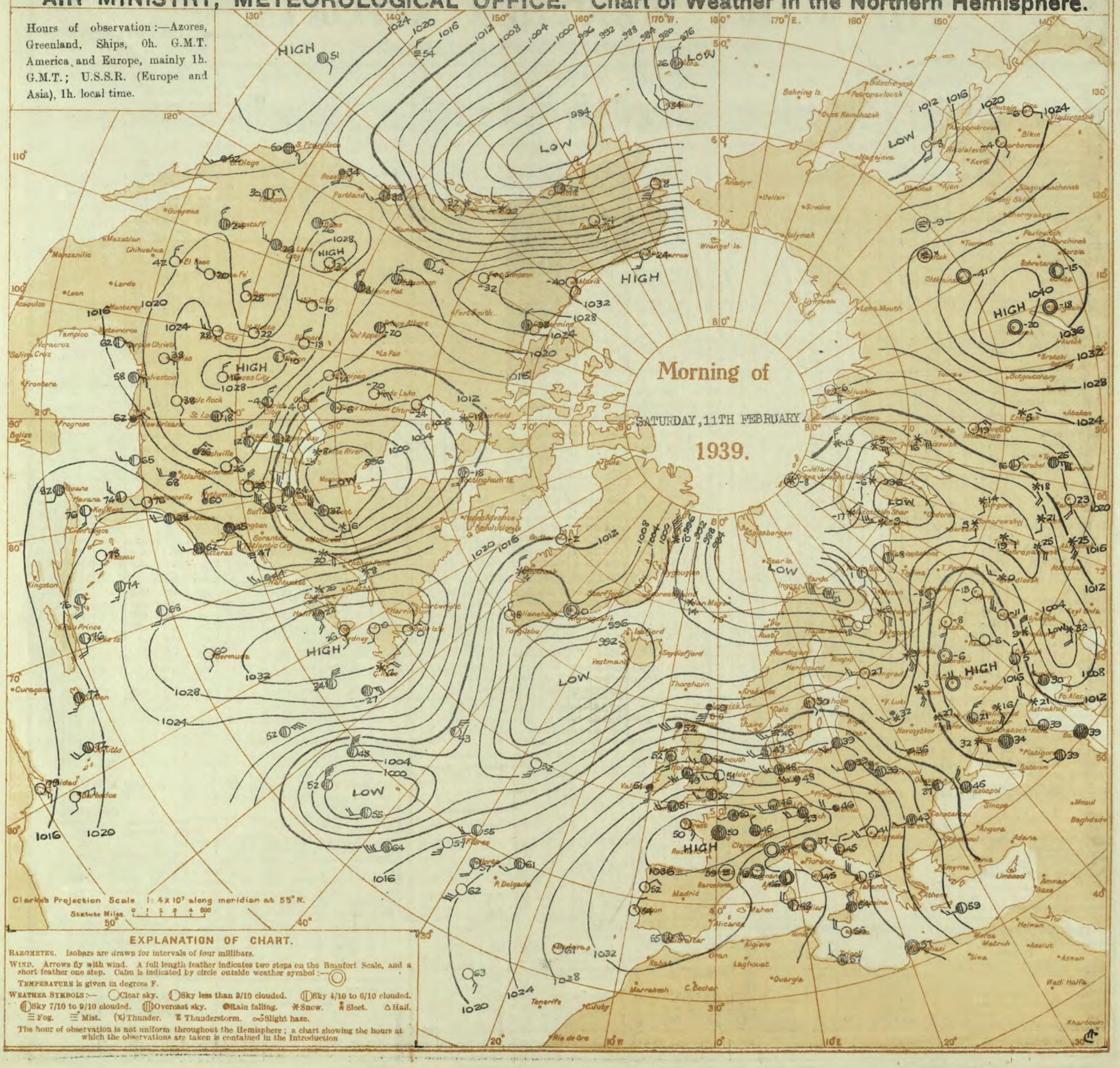
Similar.

Forecasts issued at 1000 G. M. T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 11th February, 1939.

No. 28205

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1033·5	+6	WSW	3	c	52	92	7	5	-	-	9	10	800
	S. Farnborough	228	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1034·3	+2	WSW	3	o	48	97	6	5	-	-	10	10	450
	Manston ...	154	1033·1	+2	WSW	4	Z_o	48	92	6	5	-	-	2-3	2-3	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1030·0	+10	W	4	c	52	85	7	5	-	-	9+	9+	2500
	Mildenhall ...	19	1030·9	+2	SW'W	4	Z_o	52	92	6	5	-	-	10	10	1500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1033·1	+4	SW	4	d_od_o	48	97	7	-	2	-	10	10	800
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1034·4	+4	WSW	3	o	48	92	7	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1034·3	+2	SW	2	c	49	97	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1033·3	-2	SW'W	4	c	51	97	7	5	-	-	10	10	2500
	Guernsey ..	175	1035·9	+2	SW	1	bc	51	92	6	8	-	-	4-6	4-6	2500
6	Pembroke ...	142	1032·6	+2	WSW	4	df	48	97	3	-	-	-	10	10	<150
7	Holyhead ...	26	1028·6	+2	SW	5	c	49	97	7	5	-	-	10	10	450
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1028·0	+10	SW'W	3	bc	51	92	6	-	2	-	0	2-3	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1023·9	+6	WSW	3	c	52	85	7	2	-	-	7-8	7-8	1500
11	St Abbs Head ..	280	1020·8	+16	WSW	5	c	56	85	8	3	2	-	7-8	10	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1026·7	+14	WSW	5	c	55	85	8	5	2	-	7-8	10	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1014·8	+22	SW	6	pr	52	85	6	5	2	-	7-8	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1013·2	+16	W	5	bc	52	85	8	5	7	8	2-3	4-6	1500
16	Lerwick ...	156	1006·8	+12	SSW	8	$i r_o$	49	97	6	6	2	-	4-6	10	450
17	Blacksod Point	18	1021·1	0	S	6	iD	52	97	6	6	-	-	10	10	<150
18	Malin Head ...	84	1021·3	+6	S'W	3	c	52	92	7	8	2	-	4-6	9	2500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1026·3	0	SSW	3	dd	51	97	6	5	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	1032·8	-6	SW	3	Z_o	50	92	6	5	-	-	10	10	1500	1	*
Croydon ...	1032·8	-6	WSW	3	id_o	49	92	7	5	-	-	10	10	800	1	*
S. Farnborough	1033·2	-4	SW'W	4	id_o	48	92	6	5	-	-	10	10	800	1	*
Boscombe Down	1033·4	-2	WSW	4	c	48	92	7	5	-	-	10	10	1500	1	*
Calshot (Sthmtn.)	1033·9	-10	SW	3	c	49	92	8	5	-	-	10	10	1500	1	2
Lympne ...	1033·6	-4	W'S	3	Z_o	47	97	5	5	-	-	10	10	450	1	§2
Manston ...	1033·0	+2	SW'W	2	c	49	97	6	5	2	-	9	10	450	1	*
Shoeburyness ...	1032·0	-2	W'S	2	Z_o	50	92	6	5	-	-	10	10	1500	1	*
Felixstowe ...	1031·7	-2	W'S	2	Z_o	50	92	6	5	-	-	9	9	1500	0	2
Gorleston ...	1029·9	0	WNW	3	bc	52	85	7	5	3	-	2-3	4-6	2500	1	2
Mildenhall ...	1030·8	-2	WSW	4	c	49	92	8	5	-	-	10	10	1500	1	*
Cranwell ...	1029·3	-4	WSW	5	c	51	85	7	5	-	-	9+	9+	800	1	*
Birmingham ...	1030·1	-6	SSW	3	c	49	85	7	5	-	-	9	9	1500	1	*
Upper Heyford	1031·7	-2	SW'W	4	id_o	49	92	6	5	-	-	10	10	800	1	*
Ross-on-Wye	1031·0	-6	SW'S	4	c	49	85	8	5	-	-	9+	9+	2500	1	*
Hartland Point	1031·1	-8	WSW	4	c	49	92	8	5	-	-	9+	9+	1500	1	3
Bristol ...	1032·8	-8	SSW	3	c/d	49	92	7	5	2	-	9	10	1500	1	*
Portland Bill ...	1033·1	-10	WSW	3	o	48	92	7	5	-	-	10	10	1500	1	4
Plymouth ...	1033·4	-6	SW	3	id_o	49	92	6	5	-	-	10	10	450	1	2
The Lizard ...	1033·0	-6	SW'S	3	of	49	97	7	5	-	-	10	10	220	1	3
Scilly (St. Mary's)	1031·4	-10	SSW	5	f	48	97	2	-	-	-	10	10	<150	1	3
Guernsey ..	1035·3	0	SSW	1	c	47	97	7	5	3	-	4-6	7-8	2500	1	3
Pembroke ...	1030·8	-6	SW	4	d_od_o	47	97	7	5	-	-	10	10	1500	1	3
Holyhead ...	1027·3	-16	SSW	5	d_od_o	48	97	6	5	2	-	7-8	10	450	1	3
Chester (Sealand)	1029·0	-12	S'E	3	c	51	75	8	5	-	-	9	9	1500	1	*
Manchester ...	1028·6	-10	SW	4	Z_o	49	85	6	5	-	-	4-6	4-6	2500	1	*
Spurn Head ...	1028·0	0	SW'W	3	bc	49	92	7	-	6	-	0	4-6	-	1	2
Catterick ...	1026·0	+2	SW	2	c	50	85	7	5	-	-	9	9	1500	1	*
Tynemouth ...	1024·0	+4	W	3	c	51	85	7	8	-	-	9+	9+	1500	1	1
St Abbs Head ..	1020·3	+4	WSW	4	bc	53	85	8	8	6	9	2-3	4-6	2500	0	3
Leuchars ...	1019·2	-10	WSW	6	cq	53	97	7	5	-	-	9	9	800	1	*
Renfrew (Abbots I.)	1021·5	-2	WSW	4	c	52	85	7	5	-	-	9+	9+	1500	1	*
Eskdalemuir ...	1022·6	+2	SW	6	o/r	48	92	5	-	2	-	10	10	450	1	*
Point of Ayre...	1025·4	-4	SSW	3	c	49	92	7	5	7	-	7-8	10	1500	1	3
Tiree ...	1016·0	-18	S'W	5	c	50	92	7	5	7	-	4-6	7-8	2500	1	3
Stornoway ...	1012·3	-26	SSW	6	rr	49	97	6	5	2	-	7-8	10	1500	1	3
Dalwhinnie ...	1017·7	-10	S	3	ir_o	50	85	6	5	-	-	10	10	2500	1	*
Aberdeen ...	1017·2	-10	SW'S	3	bc	52	92	7	5	3	-	4-6	4-6	2500	1	1
Wick ...	1013·8	-4	SSW	4	c	49	92	8	5	1	9	7-8	10	1500	1	2
Lerwick ...	1009·9	+4	W	6	c	48	85	7	8	7	-	7-8	9+	800	1	*
Blacksod Point	1017·2	-26	S	6	c	50	92	7	9	-	-	9+	9+	800	1	4
Malin Head ...	1019·0	-22	S'W	4	c	51	85	7	8	-	-	9	9	1500	1	3
Aldergrove ...	1022·9	-6	WSW	5	pr	50	85	7	8	-	-	10	10	1500	1	*
Birr Castle ...	1023·8	-10	SSW	3	c	52	85	8	5	-	-	7-8	7-8	2500	1	*
Valentia Obsy. †	1023·6	-16	S'E	5	c	52	92	7	5	-	-	10	10	1500	1	4
Roches Point	1027·0	-14	SW	4	id_o	49	97	7	5	-	-	10	10	800	1	4

PAST 24 HOURS.

Stations	Temperatures. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 10 hrs. Hrs. (36)
London (Kew)	56	50	48	-	-	0·0
Croydon ...	56	49	47	-	0·1	0·0
S. Farnborough	57	47	47	Tr	Tr	0·6
Boscombe Down	55	47	43	Tr	Tr	0·1
Calshot (Sthmtn.)	53	48	48	-	-	0·1
Lympne ...	52	46	41	-	0·1	0·0
Manston ...	55	47	43	-	Tr	1·1
Shoeburyness ...	55	48	44	-	Tr	0·6
Felixstowe ...	56	45	43	-	-	*
Gorleston ...	58	49	47	-	-	1·7
Mildenhall ...	58	46	42	-	-	1·0
Cranwell ...	59	50	49	-	-	2·9
Birmingham ...	(57)	49	48	-	-	0·3
Upper Heyford	57	49	46	-	-	*
Ross-on-Wye	55	49	48	-	-	0·5
Hartland Point	51	50	46	0·5	1	0·0
Bristol ...	54	49	47	0·1	0·5	0·1
Portland Bill ...	49	46	*	Tr	-	*
Plymouth ...	51	48	48	Tr	Tr	0·0
The Lizard ...	51	48	*	-	-	0·0
Scilly (St. Mary's)	53	48	*	Tr	Tr	0·0
Guernsey ..	56	47	44	0·2	-	3·1
Pembroke ...	50	46	*	Tr	0·4	0·0
Holyhead ...	51	47	47	Tr	0·4	0·0
Chester (Sealand)	53	51	47	-	-	5·3
Manchester ...	56	49	43	0·3	-	0·0
Spurn Head ...	53	47	*	-	Tr	0·0
Catterick ...	55	49	47	-	Tr	0·9
Tynemouth ...	57	51	48	-	-	1·6
St Abbs Head ..	55	50	*	1	-	*
Leuchars ...	56	52	50	Tr	-	0·8
Renfrew (Abbots I.)	56	52	49	0·1	Tr	0·2
Eskdalemuir ...	50	47	47	0·4	1	0·0
Point of Ayre...	53	49	*	-	-	0·4
Tiree ...	50	49	48	1	2	0·0
Stornoway ...	54	49	*	5	2	0·0
Dalwhinnie ...	53	49	46	0·5	0·1	0·7
Aberdeen ...	62	51	45	-	-	3·2
Wick ...	56	48	*	1	-	*
Lerwick ...	(48)	45	*	1	1	0·0
Blacksod Point	55	45	*	0·2	2	*
Malin Head ...	55	48	*	0·1	1	0·7
Aldergrove ...	55	49	48	Tr	Tr	0·0
Birr Castle ...	59	51	41	-	-	0·9
Valentia Obsy. †	55	51	49	0·2	2	0·0
Roches Point	52	48	*	1	1	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning.	Weather Afternoon.	Weather Night.	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day. mm.	Rainfall Night. mm.	Sunshine to Sunset. hrs.	Humidity 15h. G.M.T %	Humidity 9h. G.M.T %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
KEW ...	18	ccm_o	cZ_obcm_o	$bccm_o$	56	50	48	-	-	0·0	*	*	6
CROYDON ...	217	ccm_o	cZ_o	$cbczjd$	56	49	47	-	0·1	0·0	*	*	6
GREENWICH (Royal Observatory) ...	149	c	cb	bc	56	48	46	-	-	0·0	75	89	6
CITY (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	0·0	*	*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	54	48	48	Trace		0·2	78	87	*
REGENTS PK. (Botanic Gardens)‡ ...	168	*	*	*	56	48	48	-	Tr	0·1	75	85	*
CAMDEN SQUARE ...	110	bc	bc	*	56	49	48	-	-	*	*	93	*
KENSINGTON ...	80	bc	c	*	57	49	46	-	-	0·4	At 18h. 79	89	*
HAMPSTEAD OBSERVATORY ...	450	c	od	o	55	46	44	Tr	-	0·3	*	97	*

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

South Kensington. Max.	Time.	Min.	Time.
<0·3	whole period		

Kew Observatory. Max.	Time.	Min.	Time.
0·2	17-24h	<0·1	2-5h 14h

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 10th February. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 11th February. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
PARIS ...	1037·0	W	2	c	52	1036·3	W	2	o	48	54	48	-	-
BRUSSELS ...	1033·0	W	4	c	50						52		-	
BERLIN ...	1025·1	SW'W	2	c	46	1023·1	W	5	dd	50	46	45	-	3
ZÜRICH ...	1038·7	NW	1	bc	43	1038·0	SE	1	Z_o	39	54	36	Tr	Tr
ROME ...	1026·6	NW	3	bc	54	1028·2	NE	2	c	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.

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.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 6 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 12th February 1939.

No 28206.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. F. (6)	%Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1030·7	-16	SSW	3	bc	55	75	7	5	-	1	4-6	4-6	2500
	Croydon ...	1031·6	-14	SWW	4	bc	56	92	6	1	-	1	2-3	2-3	1500
	S. Farnborough	1031·5	-16	WSW	3	bc	55	85	8	7	-	1	4-6	4-6	2500
	Boscombe Down	1031·4	-20	SW	4	bc	53	85	8	5	4	1	2-3	4-6	1500
	Calshot (Sthmtn.)	1032·8	-10	SSW	3	c	51	85	7	5	-	-	9+	9+	1500
	Lympne ...	1032·7	-10	SWW	4	c	50	86	8	5	-	-	9+	9+	1500
	Manston ...	1031·5	-14	W'S	4	c	52	85	7	5	-	6	7-8	9	1500
2	Shoeburyness ...	1031·1	-14	WSW	3	r_o	54	75	6	5	5	1	2-3	7-8	1500
	Felixstowe ...	1030·4	-14	W	5	r_o	51	86	6	5	-	-	7-8	7-8	1500
	Gorleston ...	1028·8	-18	WSW	4	c	52	85	6	5	-	-	10	10	2500
	Mildenhall ...	1029·4	-16	SW	4	c	52	85	7	5	-	1	9	9+	2500
	Cranwell ...	1027·4	-14	SW	4	c	54	75	7	5	-	-	7-8	7-8	1500
3	Birmingham ...	1028·2	-19	SSW	3	bc	53	75	7	5	-	-	4-6	4-6	1500
	Upper Heyford	1030·4	-14	SW	4	c	52	85	8	7	-	-	9+	9+	1500
4	Ross-on-Wye	1028·7	-12	SW	3	bc	52	75	7	7	-	1	4-6	4-6	2500
5	Hartland Point	1028·9	-20	SW	4	bc	53	85	8	7	4	-	2-3	4-6	2500
	Bristol ...	1030·8	-18	SW'S	4	bc	56	75	8	7	4	8	2-3	4-6	2500
	Portland Bill ...	1031·9	-8	WSW	3	c	48	92	7	5	2	-	7-8	10	1500
	Plymouth ...	1032·4	-12	S	4	bc/f	51	97	5	5	-	-	2-3	4-6	800
	The Lizard ...	1031·5	-6	SW'S	4	bc	52	97	7	8	1	-	4-6	4-6	2500
	Scilly (St.Mary's)	1030·0	-8	SW'S	5	c	51	97	6	5	-	-	10	10	1500
	Guernsey ...	1034·0	-6	SW'S	2	bc	54	85	7	-	1	-	0	2-3	-
6	Pembroke ...	1027·8	-12	SW	6	if	49	97	6	5	7	-	1	2-3	2500
7	Holyhead ...	1024·3	-18	SSW	5	c	48	92	7	5	-	1	10	10	450
	Chester(Sealand)	1025·5	-34	S'W	5	bc	57	65	8	2	3	-	4-6	4-6	1500
8	Manchester ...	1026·0	-22	SW'S	3	c	53	75	7	7	-	-	9	9	2500
10	Spurn Head ...	1025·3	-8	WSW	5	bcq	52	75	6	5	4	8	2-3	4-6	1500
	Catterick ...	1022·7	-28	SWW	4	c	52	85	8	5	-	-	10	10	1500
	Tynemouth ...	1020·2	-18	WSW	5	c	53	75	6	2	1	-	4-6	7-8	2500
11	St.Abbs Head...	1015·8	-32	WSW	7	cq	50	75	8	8	6	-	4-6	7-8	2500
	Leuchars ...	1015·3	-26	WSW	5	c	52	75	8	7	6	-	9+	9+	1500
12	Renfrew (Abbots I.)	1017·0	-34	SW'S	5	ir_o	52	85	6	5	-	-	10	10	1500
	Eskdalemuir ...	1019·6	-28	SW'S	7	d_od_o	45	97	5	-	2	-	10	10	<150
	Point of Ayre...	1021·3	-20	SW'S	5	c	52	85	8	5	7	-	7-8	9+	1500
13A	Tiree	1011·0	-24	S'W	6	rr	49	97	6	-	2	-	10	10	800
13B	Stornoway ...	1007·7	-12	S	8	rr	49	92	6	5	2	-	4-6	10	1500
15	Dalwhinnie ...	1012·7	-38	SW	5	ir	46	92	6	4	2	-	4-6	10	1500
	Aberdeen ...	1012·6	-34	SW	5	bc	55	75	7	7	4	-	2-3	4-6	1500
	Wick ...	1009·2	-24	SSW	5	c	51	85	8	5	7	9	4-6	9+	1500
16	Lerwick ...	1006·1	-30	SW	7	rr	48	97	6	6	2	-	4-6	10	450
17	Blacksod Point	1016·0	-10	S	5	c	53	97	7	9	-	-	10	10	800
18	Malin Head ...	1014·4	-18	S'W	5	c/pr	51	92	7	6	2	-	7-8	9	2500
	Aldergrove ...	1018·1	-30	SWW	4	o/r	52	85	7	5	-	-	10	10	1500
19	Birr Castle ...	1021·2	-8	SSW	3	ir	52	97	7	5	-	-	10	10	2500
20	Valentia Obsy. †	1021·9	+2	SW'S	5	o/d	53	97	6	5	-	-	10	10	450
	Rochee Point	1024·0	-18	SW	4	dd	50	97	5	5	-	-	10	10	450

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. F. (20)	%Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1028·1	-10	SSW	3	c	52	85	7	5	-	-	9+	9+	1500	1	*
	Croydon ...	1028·9	-8	SW'S	4	z_o	51	85	6	5	-	-	7-8	7-8	1500	1	*
	S. Farnborough	1028·9	-10	SW'W	5	z_o	50	85	6	5	-	-	9+	9+	1500	1	*
	Boscombe Down	1028·8	-10	SW'S	4	z_o	49	92	6	5	-	-	7-8	7-8	1500	1	*
	Calshot (Sthmtn.)	1030·4	-10	SW'S	4	z_o	49	92	6	5	-	-	10	10	800	1	3
	Lympne ...	1030·2	-10	SW'W	5	z_o	47	92	6	5	-	-	9+	9+	450	1	§ 3
	Manston ...	1029·1	-4	SW	3	c	48	92	6	5	-	-	10	10	800	1	*
2	Shoeburyness ...	1028·4	-10	SW'S	3	z_o	48	86	6	-	4	1	0	1	-	1	*
	Felixstowe ...	1027·2	-14	SW	3	z_o	48	92	6	-	-	8	0	2-3	-	0	3
	Gorleston ...	1025·4	-10	SW	3	b	52	85	7	-	-	-	0	0	-	0	2
	Mildenhall ...	1025·1	-22	S'W	5	b	52	85	7	-	3	1	0	1	-	0	*
	Cranwell ...	1022·6	-26	SSW	4	z_o	51	85	6	5	-	1	Tr	Tr	2500	1	*
3	Birmingham ...	1024·0	-30	SW	3	b	53	75	8	1	5	-	1	1	2500	1	*
	Upper Heyford	1026·6	-12	W'S	3	bc	51	85	7	5	7	-	1	2-3	1500	1	*
4	Ross-on-Wye	1025·0	-14	SW	4	cq	53	75	8	5	-	-	9+	9+	2500	1	*
5	Hartland Point	1025·3	-14	WSW	6	d	49	97	7	-	2	-	10	10	1500	1	3
	Bristol ...	1027·5	-18	S	3	bc	51	85	7	5	4	-	2-3	4-6	2500	1	*
	Portland Bill ...	1029·7	-14	WSW	4	o	49	92	7	5	-	-	10	10	1500	1	4
	Plymouth ...	1029·8	-12	SW'S	4	z_o	50	97	6	5	-	-	10	10	800	1	2
	The Lizard ...	1029·9	-10	SW	5	c	49	97	6	5	-	-	10	10	1500	1	2
	Scilly (St.Mary's)	1028·3	-4	SW	5	da	51	97	5	5	-	-	10	10	800	1	3
	Guernsey ...	1031·7	-10	SW	1	c	50	92	7	4	-	-	7-8	7-8	2500	1	2
6	Pembroke ...	1024·5	-12	WSW	6	r_or_o	48	97	2	-	-	-	10	10	<150	1	3
7	Holyhead ...	1020·2	-14	SW	5	o	49	92	5	5	-	-	10	10	<150	1	3
	Chester(Sealand)	1021·8	-24	S	4	ir_o	53	85	6	5	2	-	9	9+	1500	1	*
8	Manchester ...	1021·2	-26	SW	4	ir	54	75	7	5	2	-	9	10	2500	1	*
10	Spurn Head ...	1019·8	-28	SSW	5	bq	49	85	5	-	-	-	0	0	-	0	4
	Catterick ...	1017·6	-26	SWW	5	c	53	75	8	5	-	-	9+	9+	1500	1	*
	Tynemouth ...	1015·4	-18	WSW	4	c	52	75	6	8	-	-	9+	9+	1500	1	2
11	St.Abbs Head...	1011·8	-14	WSW	6	cq	48	85	8	8	6	2	4-6	9	1500	0	4
	Leuchars ...	1010·5	-26	SW	6	ir_o	52	85	7	5	7	-	7-8	9+	800	1	*
12	Renfrew (Abbots I.)	1012·6	-22	SW	5	c/r	51	92	6	5	3	-	7-8	7-8	1500	1	*
	Eskdalemuir ...	1015·3	-18	SW	6	r_or_o	46	97	5	-	2	-	10	10	220	1	*
	Point of Ayre...	1016·8	-6	W'S	6	c	52	92	8	8	4	7	1	7-8	1500	1	3
13A	Tiree	1008·6	-10	SSW	5	c	49	92	7	5	7	-	4-6	7-8	1500	1	4
13B	Stornoway ...	1005·2	-20	SSW	6	c	50	85	7	5	7	-	7-8	9+	2500	1	3
15	Dalwhinnie ...	1009·5	-12	SW	5	c	47	85	7	8	6	1	7-8	9+	2500	1	*
	Aberdeen ...	1008·4	-26	SW	4	bc	51	85	7	5	4	-	2-3	4-6	1500	1	1
	Wick ...	1004·5	-18	SW	4	c	50	92	8	8	7	8	4-6	7-8	800	1	2
16	Lerwick ...	999·4	-14	WSW	7	ir	47	92	6	6	2	-	4-6	10	450	1	*
17	Blacksod Point	1014·4	-20	WSW	4	bc	50	92	7	9	-	-	4-6	4-6	1500	1	4
18	Malin Head ...	1012·3	-16	SSW	5	c	50	85	7	8	5	-	2-3	7-8	4000	1	4
	Aldergrove ...	1015·7	-6	WSW	4	bc	50	85	8	8	-	1	4-6	4-6	1500	1	*
19	Birr Castle ...	1019·6	+2	WSW	3	bc	53	85	8	8	-	-	4-6	4-6	1500	1	*
20	Valentia Obsy. †	1021·9	0	SW	6	pr	53	85	6	5	-	-	10	10	1500	1	4
	Rochee Point		0	W	4	bc	52	92	8	5	-	5	2-3	4-6	1500	1	4

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. (37)	Weather. 13h.—18h. (38)	Weather. 18h. 11th to 1h. 12th (39)	Weather. 1h.—7h. 12th (40)
1	London (Kew)	cmbc	bcc	c	cbc
	Croydon ...	cidz	bbcz	cz	idbc
	S. Farnborough	idcbc	bcc	cmcbc	bc
	Boscombe Down	cbc	bcem	cmcidc	abcc
	Calshot (Sthmtn.)	c	cidfcm	cidm	cmbcw
	Lympne ...	tcmc	ccm	cm	ofccm
	Manston ...	omc	cbccm	cm	cbm
2	Shoeburyness ...	cmbcz	bczbm	bmwc	cb
	Felixstowe ...	cmcm	bcmbm	pcmcm	bcmbw
	Gorleston ...	bcc	cbcb	cbcbbc	cq
	Mildenhall ...	ccmc	cbcb	bbc	b
	Cranwell ...	cbccz	czbcbm	bmcmb	bbcc
3	Birmingham ...	cbc	bc	bcrc	c
	Upper Heyford	c	cbc	bpccm	cmcbc
4	Ross-on-Wye	ccbc	bcc	dqpcq	cq
5	Hartland Point	cbc	bccod	dfcfdo	ocbcc
	Bristol ...	cbc	bc	bccirq	cvcq
	Portland Bill ...	o	o	od	bcc
	Plymouth ...	cidcmp	bcmcm	prridc	cm
	The Lizard ...	bbc	c	c	cprc
	Scilly (St.Mary's)	ofbcc	coddm	oddcbc	bcbbcw
	Guernsey ...	cbc	bcc	coirr	oc
6	Pembroke ...	oifbc	ifdamdfm	*	bcidcq
7	Holyhead ...	dcmmc	crRmo	omb	brc
	Chester(Sealand)	cbc	bccrm	crrmc	c
8	Manchester ...	bcmcm	cbcrr	crrbcb	bc
10	Spurn Head ...	cq	czb	bcbq	bc
	Catterick ...	cbcc	c	prc	cprc
	Tynemouth ...	cbcc	c	cbcp	bcc
11	St.Abbs Head...	cq	ircq	bq	bbcq
	Leuchars ...	cqc	cirirc	ircbc	bcq
12	Renfrew (Abbots I.)	cidm	cmrrRrr	cmpr	cmprp
	Eskdalemuir ...	ocdm	ofrdm	om	oirm
	Point of Ayre...	c	rrc	cbcb	bcc
13A	Tiree	cidorr	orrrc		cirid
13B	Stornoway ...	crr	crr	cPR	cPRpr
15	Dalwhinnie ...	cir	crr	*	cRr
	Aberdeen ...	bc	bccbc	bcrb	bbc
	Wick ...	crc	ircid	cqpr	cbcpr
16	Lerwick ...	crrm	crrir	cir	crr
17	Blacksod Point	rrc	cbcq	prcq	qprcq
18	Malin Head ...	c	cprbc	cprbcq	cprc
	Aldergrove ...	prcrc	rrcbc	bcb	bcprqc
19	Birr Castle ...	cir	cirbc	bccpr	cpr
20	Valentia Obsy. †	rrddo	ocbccpr	prbcc	ctlrqc
	Rochee Point	odd	ddcbc	cpbc	cpbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.

Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.

An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.

"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

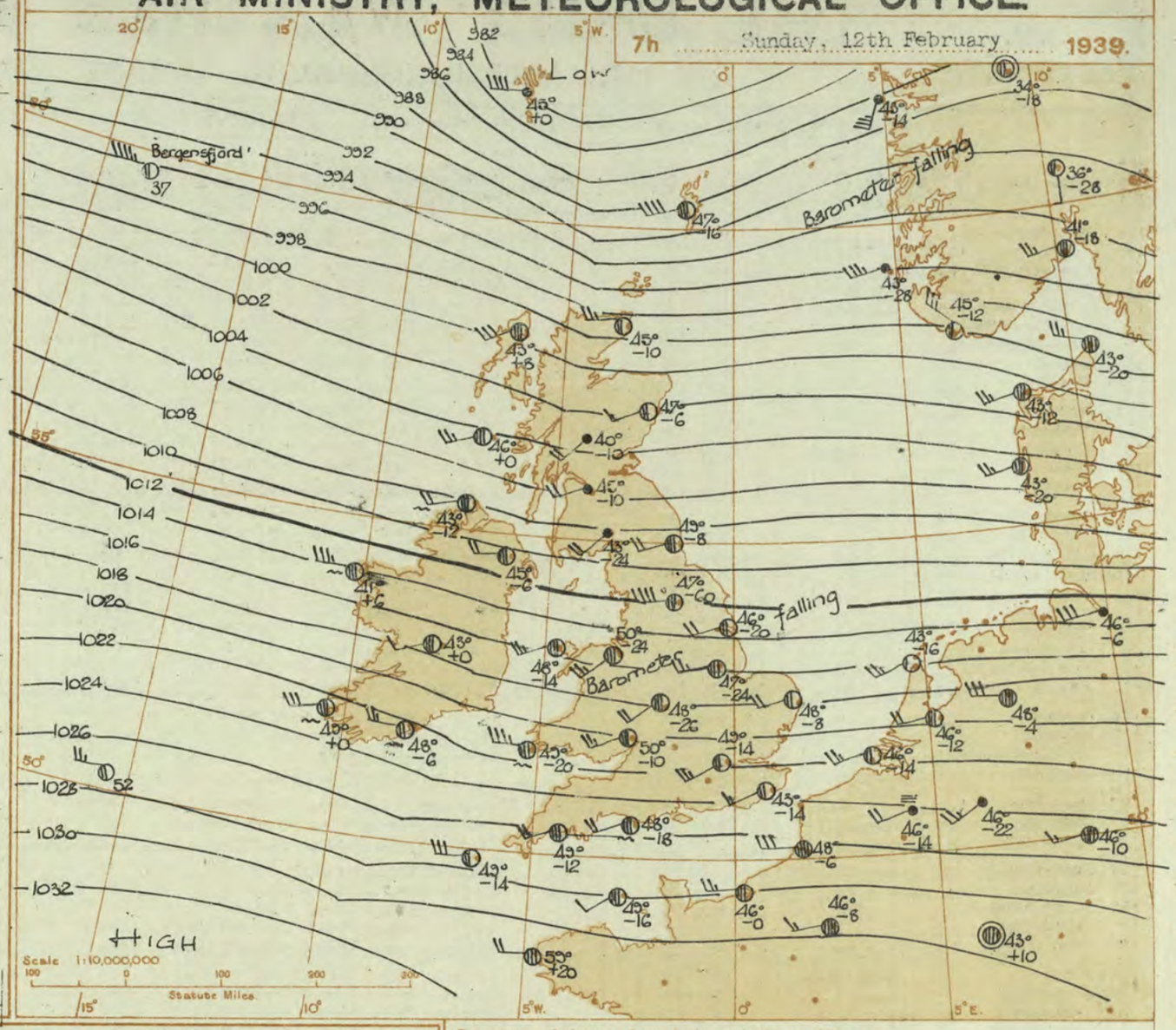
† Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 11th February 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature (°F.) Min. 9h. 10th to 9h. 11th	Temperature (°F.) Max. 9h.—17h. 11th	Rainfall (mm.) Night. 17h. 10th to 9h. 11th	Rainfall (mm.) Day. 9h.—17h. 11th	Sunshine (Hrs.) Sunrise to 17h. 11th	Sunshine (Hrs.) Sunrise to Sunset. 10th
1	Tunbridge W.	oc	co	46	54	-	-	2.5	0.0
	Bournemouth	co	o	48	51	-	-	0.0	0.2
	Ventnor ...	o	of	47	50	-	-	0.0	0.0
	Southsea ...	c	ocdc	49	51	-	Trace	0.0	0.0
	Bognor Regis	o	oid.	47	50	-	Trace	0.0	0.2
	Littlehampton	c	co	47	50	-	-	0.1	0.1
	Worthing ...	o	o	47	49	-	-	0.0	0.0
	Brighton ...	c	c	46	48	-	-	0.0	0.0
	Eastbourne† ...	co	od.o	48	50	-	0.1	0.4	0.0
	Hastings† ...	coc	cod.	47	51	-	Trace	0.7	0.0
	Folkestone ...	n.oc	com.	47	53	-	-	0.8	0.2
	Dover ...	oc	cbcc	47	52	Trace	-	1.4	0.0
	Deal	ocb	ob	48	53	-	-	4.2	1.5
	Ramsgate ...	obc	bc	47	54	-	-	4.8	1.5
	Margate ...	cbc	bc	49	56	Trace	-	4.4	1.0
2	Southend ...	oc	cb	46	56	-	-	4.3	0.8
	Clacton-on-Sea	cmc	cbc	44	53	-	-	3.6	1.6
	Dovercourt ...	oc	bc	50	55	-	-	3.1	1.3
	Lowestoft ...	ocbc	b	48	55	-	-	3.1	2.5
	Skegness ...	ocbc	bbcb	48	56	Trace	-	4.0	0.0
	Mablethorpe...	bc	bc	49	55	-	-	6.9	0.0
	Cleethorpes ...	cbc	bbc	50	56	-	-	6.6	0.0
3	Leamington S.	cbc	bc	49	57	-	-	3.9	0.2
4	Cheltenham†	cbc	bc	47	57	Trace	-	4.4	2.0
5	Bath	cbcb	bbcc	50	57	Trace	-	3.5	0.0
	Weymouth ...	c	c	48	51	-	-	0.0	0.0
	Jersey ...	wfbfb	b	45	52	Trace	-	5.6	2.2
	Torquay ...	woc	bbccq	50	56	-	-	2.6	0.0
	Falmouth	b	c	48	56	-	-	3.5	0.2
	Penzance ...	cbbc	c	48	55	Trace	-	A	0.0
	St. Ives ...								
	Bude... ...	b	bbcc	47	59	-	-	7.8	0.1
	Ilfracombe ...	dccbc	bcbbc	49	59	0.5	-	7.2	0.0
6	Aberystwyth	prcbc	bcpr	47	54	0.5	1	4.7	0.0
7	Llandudno ...	bcc	bccor	46	59	-	0.6	4.6	3.9
	Colwyn Bay...	bcb	bcep	49	54	-	0.3	6.3	4.1
	Rhyl	bc	bcer.	49	57	-	Trace	3.1	4.3
8	Wallasey ...	bccbc	bcc	47	59	Trace	-	2.7	4.3
	Southport ...	czbc	bcc	46	57	-	-	4.7	0.8
	Blackpool ...	cm.c	cbcor	46	54	-	0.3	1.8	0.0
	Morecambe ...	c	bcdr	45	51	-	0.3	0.9	0.0
9	Ilkley... ...	bc	bc	47	56	-	-	4.3	0.0
	Harrogate ...	cbc	bcb	49	54	-	-	4.1	0.0
10	Berwick-on-T.	c	co	49	52	-	-	0.2	0.5
11	Dunbar ...	bc	cpr.	49	56	-	Trace	3.9	0.1
12	Troon... ...	oc	orroc	48	51	-	2	0.0	0.0
	Douglas ...	om	cirm	44	49	-	1	0.0	0.0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 12th February, 1939.

Districts.	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ...	Strong, squally, westerly winds; a period of rain, perhaps with thunder locally; showers of rain or hail with bright periods later; mild at first, becoming cooler than of late with frost locally at night.
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 Orkney and Shetland ▼	Strong squally westerly winds, gale on coasts; squally showers of rain or hail, bright periods later; rather cold; frost locally at night.
17 N. W. Ireland ▼ 18 N. E. Ireland ▼ 19 S. E. Ireland ▼ 20 S. W. Ireland ▼	Squally westerly winds, strong to gale on coasts; showers of rain or hail with bright intervals; rather cold, frost locally at night.

H.M. Stationery Office Press, Kingsway, W.C.2. 6,737/3640. m.8086. D.3768. Gp.548. 32200. 2/39

GENERAL INFERENCE.

Pressure is high to the southwest and low to the north of the British Isles and a trough of low pressure over West Scotland and Ireland is moving quickly east. A period of rain, perhaps with local thunder will be associated with the passage of the trough, followed by showers of rain or hail and bright periods. Temperature will be lower than of late.

FURTHER OUTLOOK.

Showers of rain or hail and bright intervals.

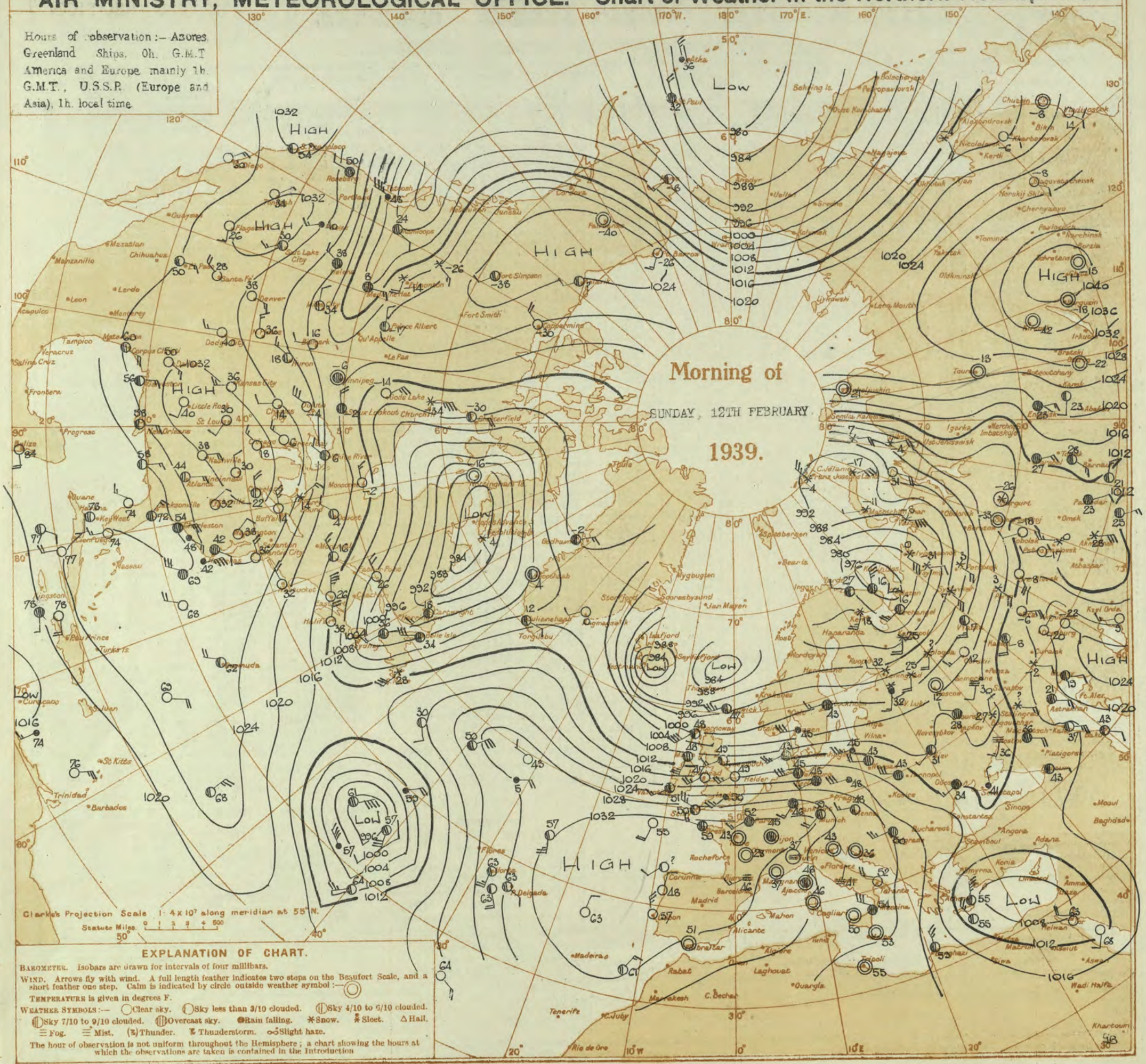
Times of Issue of Gale Warnings.

▼ South Cone hoisted at 0140 on 12th in districts 7,8,10,11,12,13A,13B,15,16,17,18 and at 0530 in districts 6, 19,20 and part of 5.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 12th February, 1939
No. 28206.

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1025·5	-16	SW'W	5	id.	50	92	7	5	-	-	10	10	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1026·6	-18	SW'W	5	z	48	92	6	5	-	-	10	10	450
	Manston ...	154	1024·8	-18	WSW	6	c	49	85	6	5	-	-	10	10	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1021·1	-16	WSW	4	bc	50	75	7	5	-	-	4-6	4-6	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Hayford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1025·4	-6	WSW	6	o	48	97	7	5	-	-	10	10	800
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1027·2	-10	WSW	4	c	48	92	7	5	-	-	4-6	4-6	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1029·3	-10	W	4	c	49	97	6	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1028·5	-2	W'N	5	bc	50	97	7	5	-	-	2-3	2-3	1500
	Guernsey ..	175	1029·7	-12	WSW	4	o/r	50	97	6	5	-	-	10	10	1500
6	Pembroke ...	142														
7	Holyhead ...	26	1018·4	-4	SW'W	5	b	47	92	7	8	-	-	1	1	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1017·3	-10	WSW	5	bq	49	85	7	-	-	-	0	0	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1013·1	-8	WSW	3	bc/pr	49	85	7	2	-	-	4-6	4-6	1500
11	St Abbs Head ..	280	1008·9	0	W	8	bc	49	75	8	-	3	-	0	2-3	-
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1015·2	-6	W'S	6	b	49	85	8	-	-	-	0	0	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	998·3	-40	SW	8	c	48	85	7	8	2	-	7-8	9+	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	998·8	-28	SSW	5	pr	46	85	7	5	1	-	4-6	7-8	800
16	Lerwick ...	156	995·5	-24	WSW	7	c	47	85	7	8	1	-	4-6	7-8	1500
17	Blacksod Point	18	1013·9	-4	W	7	cq	49	92	7	9	-	-	7-8	7-8	800
18	Malin Head ...	84	1010·0	-14	SSW	5	bc	48	85	7	8	-	-	4-6	4-6	2500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1029·1	0	WSW	3	c	51	92	7	5	-	-	9	9	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	1021·4	-20	SW	3	bc	49	85	8	5	-	-	4-6	4-6	1500	1	*
Croydon ...	1022·3	-14	SW'W	5	bc	49	75	8	5	-	-	2-3	4-6	4000	1	*
S. Farnborough	1022·3	-18	SW'W	4	c	48	85	8	5	-	-	7-8	7-8	1500	1	*
Boscombe Down	1022·7	-18	WSW	4	c	48	85	8	5	-	-	7-8	7-8	1500	1	*
Calshot (Sthmtn.)	1024·5	-10	SW'S	4	c	46	97	7	4	3	-	7-8	7-8	2500	1	2
Lympne ...	1023·9	-14	WSW	3	bc	48	97	6	8	-	-	2-3	2-3	2500	1	§3
Manston ...	1022·3	-14	SW'W	3	b	45	85	6	5	-	1	Tr	1	2500	1	*
Shoeburyness ...	1021·3	-14	SW	4	bc	49	75	8	5	4	-	1	2-3	1500	1	*
Felixstowe ...	1020·5	-18	W'S	3	bc	46	92	8	5	-	-	2-3	2-3	2500	0	3
Gorleston ...	1018·0	-8	SW'W	4	bc	48	75	8	5	3	-	4-6	4-6	2500	0	3
Mildenhall ...	1018·0	-22	SW	5	bc	47	85	7	5	-	1	2-3	2-3	4000	0	*
Cranwell ...	1015·1	-24	SW'W	5	c	47	75	7	-	4	6	0	7-8	-	1	*
Birmingham ...	1017·8	-26	SW	4	c	48	75	8	5	-	6	9	9+	800	1	*
Upper Hayford	1020·3	-20	WSW	4	c	45	92	7	7	4	1	4-6	7-8	1500	1	*
Ross-on-Wye	1019·6	-10	SW'W	5	cq	50	75	8	5	7	-	9	9+	2500	1	*
Hartland Point	1022·7	-12	W	7	c	47	97	7	6	1	-	9	10	1500	1	4
Bristol ...	1021·8	-20	WSW	6	cq	46	85	7	5	4	-	4-6	7-8	1500	1	*
Portland Bill ...	1023·9	-18	WSW	4	c	48	85	7	4	-	-	7-8	7-8	2500	1	4
Plymouth ...	1026·5	-12	WSW	4	z	49	85	6	5	-	-	9+	9+	800	1	2
The Lizard ...	1027·8	-16	W	5	c	49	97	7	8	2	-	7-8	9+	1500	1	3
Scilly (St. Mary's)	1026·6	-14	W	6	bc	49	97	7	5	4	-	2-3	4-6	1500	1	3
Guernsey ..	1027·4	-16	SW	2	c	49	92	6	8	3	-	4-6	7-8	2500	1	3
Pembroke ...	1020·1	-20	W'N	7	cq	49	97	7	8	-	-	9+	9+	1500	1	4
Holyhead ...	1015·5	-14	WSW	5	c	48	75	8	8	2	-	7-8	10	2500	1	3
Chester (Sealand)	1015·0	-24	SW	5	c	50	75	8	5	3	-	4-6	7-8	2500	1	*
Manchester ...	1014·8	-20	SW'W	5	c	48	75	7	5	-	-	9+	9+	2500	1	*
Spurn Head ...	1012·6	-20	WSW	4	bcq	46	85	7	-	4	-	0	2-3	-	0	3
Catterick ...	*	-30	W'S	8	c/pr	47	85	7	5	-	-	7-8	7-8	1500	1	*
Tynemouth ...	1008·4	-8	WSW	4	c	49	75	8	2	-	-	7-8	7-8	1500	1	2
St Abbs Head ..	1006·8	-32	W	8	bcq	47	75	8	4	6	1	2-3	4-6	2500	0	4
Leuchars ...	1002·3	-12	WSW	6	bcq	46	85	9	8	4	9	2-3	4-6	4000	1	*
Renfrew (Abbotsl.)	1005·6	-10	WSW	4	pr	45	85	7	8	3	-	4-6	9+	1500	1	*
Eskdalemuir ...	1008·0	-24	SW	4	ir	43	85	5	6	-	-	10	10	800	1	*
Point of Ayre...	1011·4	-18	W	6	pr	47	85	8	5	7	-	1	10	2500	1	3
Tiree	1003·2	0	WSW	5	c	46	75	7	8	-	-	7-8	7-8	1500	0	*
Stornoway ...	998·9	+8	SW	6	c	43	75	7	8	2	-	7-8	9+	2500	1	3
Dalwhinnie ...	1002·9	-10	SW	4	ir	40	85	7	8	2	2	4-6	9+	2500	1	*
Aberdeen ...	1000·6	-6	WSW	3	bc	47	75	7	5	3	-	1	2-3	2500	1	1
Wick ...	995·9	-10	W	5	bc/pr	45	85	8	5	7	-	2-3	4-6	1500	1	2
Lerwick ...	988·3	-16	WSW	8	c	47	85	8	8	2	-	4-6	7-8	800	1	*
Blacksod Point	1014·6	+6	W	7	cq	41	92	7	9	-	-	9+	9+	800	1	5
Malin Head ...	1008·6	-12	SW'W	4	c/pr	43	85	8	9	6	-	4-6	7-8	4000	1	4
Aldergrove ...	1011·1	-6	W	4	c	45	75	8	8	-	-	9+	9+	2500	1	*
Birr Castle ...	1016·7	0	WSW	2	c/pr	43	92	8	8	7	-	4-6	7-8	800	1	*
Valentia Obsy. †	1022·8	0	W'S	6	c	49	75	7	5	-	-	9+	9+	2500	1	4
Roches Point	1021·5	-6	W'N	5	bc	48	85	8	3	-	-	2-3	2-3	2500	1	4

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (31)	Temperature. Min. Night 18h–7h °F. (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 11th Hrs. (36)
London (Kew)	56	49	45	-	-	4·4
Croydon ...	57	49	46	-	Tr	4·5
S. Farnborough	56	47	44	Tr	-	4·0
Boscombe Down	55	47	42	-	0·1	5·1
Calshot (Sthmtn.)	51	45	44	Tr	Tr	0·0
Lympne ...	50	43	39	-	0·1	0·8
Manston ...	54	44	41	-	-	4·8
Shoeburyness ...	56	47	43	-	-	4·0
Felixstowe ...	53	46	46	-	-	*
Gorleston ...	54	46	44	-	-	2·9
Mildenhall ...	56	46	42	-	-	2·7
Cranwell ...	56	46	44	-	-	4·2
Birmingham ...	57	47	44	-	1	5·3
Upper Hayford	56	44	39	-	-	*
Ross-on-Wye	57	49	45	-	0·3	4·5
Hartland Point	54	47	46	Tr	1	6·7
Bristol ...	58	47	44	-	1	6·5
Portland Bill ...	*	46	*	-	Tr	*
Plymouth ...	51	48	46	-	1	0·3
The Lizard ...	52	47	*	-	Tr	3·5
Scilly (St. Mary's)	53	48	*	0·1	0·1	3·1
Guernsey ..	55	49	45	-	0·1	6·9
Pembroke ...	49	47	*	1	0·3	2·1
Holyhead ...	50	47	43	2	0·1	0·0
Chester (Sealand)	60	49	45	1	0·2	3·0
Manchester ...	59	47	43	Tr	0·3	2·7
Spurn Head ...	54	45	*	-	-	7·0
Catterick ...	56	47	43	-	0·3	2·0
Tynemouth ...	54	49	45	-	0·3	3·2
St Abbs Head ..	55	43	*	Tr	-	*
Leuchars ...	53	45	42	Tr	0·4	1·1
Renfrew (Abbotsl.)	53	45	43	4	4	0·0
Eskdalemuir ...	49	43	42	5	5	0·0
Point of Ayre...	55	47	*	0·4	Tr	0·7
Tiree	50	45	43	3	1	0·0
Stornoway ...	52	43	*	9	2	0·0
Dalwhinnie ...	50	39	37	3	13	0·3
Aberdeen ...	55	46	36	-	Tr	3·2
Wick ...	52	45	*	0·4	0·2	*
Lerwick ...	51	43	*	5	2	0·0
Blacksod Point	53	39	*	6	2	*
Malin Head ...	52	40	*	10	3	0·0
Aldergrove ...	54	43	41	1	0·2	0·3
Birr Castle ...	54	43	40	2	6	1·7
Valentia Obsy. †	55	45	43	4	4	1·1
Roches Point	53	47	*	1	0·4	*

LONDON OBSERVATIONS

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

Stations	Height above M.S.L. in feet.	Weather. Morning. (24 hrs. ended 9h.)	Weather. Afternoon.	Weather. Night.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew...	18	cm bc	bcc	cbc	56	49	45	-	-	4·4	*	*	8
Croydon	217	cid	bbcz	czidbc	57	49	46	-	Tr	4·5	*	*	8
Greenwich (Royal Observatory)...	149	c	cbc	bcc	58	48	42	-	-	3·7	64	73	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	3·5	*	*	*
Westminster (St James' Park) ...	27	*	*	*	58	49	43	-	-	4·1	81	79	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	57	48	45	-	Tr	3·3	59	73	*
Camden Square	110	c	bc	*	57	49	44	-	-	*	At 18h. 76	*	*
Kensington	80	bc	cbc	*	58	49	42	-	-	4·6	83	77	*
Hampstead Observatory	450	bc	bc	bcp	56	46	41	-	Tr	4·1	*	92	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

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

Kew Observatory. Max.	Time.	Min.	Time.
0·1	11h.	0·1	
	11th	rest of period	

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 11th February. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 12th February. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Paris	1033·3	N	2	z	50	1029·5	WSW	3	o	46	57	46	-	-
Brussels	1030·9	W'S	3	o	48	1023·8	WSW	4	df	46	50	46	Tr	0·4
Berlin						1016·4	WSW	4	b	48		48		0·3
Zürich	1033·8	N	1	b	41	1031·9	E	1	m	37	52	34	-	-
Rome						1025·5	NE	1	m	37	*	*		

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.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 13th February, 1939.
No. 28207.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1019.0	-20	WSW	6	c	54	55	8	8	3	1	4-6	7-8	2500
	Croydon	1019.5	-22	WSW	7	bc/pr	54	55	6	1	6	3	4-6	4-6	4000
	S. Farnborough	1020.4	-12	W'N	7	bc	53	55	8	1	3	-	4-6	4-6	2500
	Boscombe Down	1021.8	-4	W'N	6	c/r	50	65	7	8	4	1	7-8	9	2500
	Calshot (Sthmtn.)	1022.5	-14	SW	5	bc	52	85	7	7	6	-	4-6	4-6	1500
	Lympne	1020.4	-26	SWW	6	c	51	75	7	8	-	-	9	9	1500
	Manston	1018.7	-28	WSW	6	c	53	65	6	5	3	-	7-8	7-8	2500
2	Shoeburyness	1018.6	-20	W'S	5	pr	50	85	6	9	-	1	7-8	9+	1500
	Felixstowe	1016.5	-22	WNW	6	c/pr	52	65	7	8	3	-	7-8	9+	1500
	Gorleston	1014.1	-20	W'S	6	pr	53	65	6	6	-	-	9+	9+	1500
	Mildenhall	1015.1	-18	W'S	6	c/r	52	75	8	8	3	-	7-8	7-8	1500
	Cranwell	1014.6	+6	W'S	5	c	49	65	7	8	-	-	7-8	7-8	2500
3	Birmingham	1017.3	-8	W	4	bc/pr	47	65	8	8	-	-	4-6	4-6	1500
	Upper Heyford	1018.7	-6	WNW	8	bcq	50	55	9	2	-	5	4-6	4-6	4000
4	Ross-on-Wye	1019.1	-4	W	5	cq	49	45	8	8	-	3	4-6	7-8	2500
5	Hartland Point	1023.8	+10	WNW	6	bc	48	85	8	2	6	3	2-3	4-6	2500
	Bristol	1021.5	-6	WSW	6	cq	50	75	8	8	4		4-6	7-8	1500
	Portland Bill	1022.9	-10	WSW	5	c	48	92	7	5	4	-	10	10	2500
	Plymouth	1026.1	-4	W'S	5	zo	51	75	6	6	3	-	7-8	9+	800
	The Lizard	1027.8	-6	W'N	5	c	49	97	7	8	-	-	7-8	7-8	1500
	Scilly (St. Mary's)	1027.9	+6	WNW	5	c	50	97	6	8	4	1	2-3	7-8	1500
	Guernsey	1027.5	-6	WSW	5	bc	53	85	7	1	7	-	1	2-3	2500
6	Pembroke	1022.5	+10	WNW	6	cq	48	75	7	8	7	-	4-6	9	1500
7	Holyhead	1017.0	+14	W	6	bc	47	65	8	2	-	9	2-3	4-6	2500
	Chester (Sealand)	1016.4	+4	WSW	6	c	49	55	8	2	-	-	7-8	7-8	2500
8	Manchester	1014.1	0	W	7	c	46	75	7	2	4	-	7-8	7-8	2500
10	Spurn Head	1010.5	-6	W	7	cq	47	75	6	8	-	-	9	9	1500
	Catterick	1010.1	+18	W	5	bc/pr	45	75	8	8	-	-	4-6	4-6	1500
	Tynemouth	1007.4	-4	W	5	bc/pr	45	75	7	8	-	-	4-6	4-6	1500
11	St. Abbs Head	1005.0	+4	WNW	6	cq	44	65	9	8	6	-	4-6	7-8	1500
	Leuchars	1003.7	+4	W	8	bcq	46	55	9	3	6	1	1	2-3	4000
12	Renfrew (Abbots I.)	1007.5	+8	W	6	bc/pr	44	75	8	8	6	-	4-6	4-6	1500
	Eskdalemuir	1008.5	+4	W	5	pr	40	85	6	5	7	-	4-6	7-8	1500
	Point of Ayre	1013.0	+8	WNW	7	bc	45	75	8	2	4	-	2-3	2-3	2500
13A	Tiree	1006.8	+4	WSW	6	bc/pr	41	85	7	8	6	-	4-6	4-6	1500
13B	Stornoway	1000.3	+10	WSW	6	pr	44	65	7	8	7	-	4-6	7-8	2500
15	Dalwhinnie	1005.3	+6	SW	4	s	37	85	6	8	4	-	7-8	9+	1500
	Aberdeen	1001.3	+4	WNW	5	bcjp	47	65	8	8	-	3	2-3	4-6	1500
	Wick	998.2	+10	WNW	5	c/pr	44	85	8	5	7	7	4-6	7-8	1500
16	Lerwick	985.3	0	WSW	8	c/pr	45	75	8	8	2	-	4-6	7-8	1500
17	Blacksod Point	1018.0	+16	W	7	bcq	44	85	8	9	-	4	4-6	4-6	800
18	Malin Head	1011.1	+4	W'N	5	cjp	44	65	7	9	-	5	4-6	7-8	4000
	Aldergrove	1013.7	+8	WNW	5	bc/phr	43	75	8	3	3	-	4-6	4-6	2500
19	Birr Castle	1019.8	+8	W'N	4	bc	43	85	8	2	-	-	4-6	4-6	2500
20	Valentia Obsy. †	1025.6	+10	W'N	5	c/pr	48	75	8	8	-	-	7-8	7-8	2500
	Roches Point	1023.8	+12	WNW	5	bc	48	75	8	3	4	-	4-6	4-6	1500

OBSERVATIONS at 18h. G.M.T. 12th February — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 12th (37)	Weather 13h.–18h. 12th (38)	Weather 18h. 12th to 1h. 13th (39)	Weather 1h.–7h. 13th (40)
London (Kew)	1019.3	+6	WSW	4	c	48	55	7	8	-	-	9	9	1500	1	*	bccbcy	bcyproqy	cybcb	bbcc
Croydon	1019.2	+6	W'S	4	zo	47	55	6	4	6	-	4-6	4-6	4000	1	*	czopro	bczoy	bcb	bbc
S. Farnborough	1020.3	+6	W'N	4	c/ro	46	65	8	5	7	1	7-8	7-8	4000	0	*	cbc, irobc?	bccb, iro	cirob	bw
Boscombe Down	1021.2	+10	W'N	5	c	44	75	7	8	3	1	4-6	7-8	2500	1	*	ciroc	cbc	bcb bc	bbc
Calshot (Sthmtn.)	1021.6	+4	W'S	4	c	48	65	8	8	7	-	2-3	7-8	1500	1	§2	cbcbmoc	bcqbcy	bc	bcb
Lympne	1019.7	+6	W'N	3	bc	46	65	7	8	6	2	2-3	4-6	2500	1	4	bcmoc	bcqvbc	bcbbc	bcbbc
Manston	1018.2	+6	W'N	4	bc	47	65	7	8	-	5?	2-3	4-6	1500	1	*	b,bc,cmo	czobcc	b	bbc
Shoeburyness	1018.3	+8	W	3	b	46	55	7	4	4	-	Tr	1	2500	1	*	bccqp	cmopby	b	b,c
Felixstowe	1016.7	+10	W'N	6	c	47	55	8	8	3	8	4-6	7-8	2500	1	4	bccprqmo	cbcyvq	cyuc	bc
Gorleston	1014.6	+10	WNW	5	c/pr	44	75	7	8	-	-	7-8	7-8	1500	1	3	bccproq	cbccpro	cbproq	bbcbq
Mildenhall	1016.6	+12	W	4	bc/pr	43	75	7	5	3	-	4-6	4-6	1500	1	*	bbccir o	cproccpr	bcc	cbccbc
Cranwell	1014.9	+22	WSW	5	bc	42	65	7	8	3	-	2-3	4-6	2500	1	*	bcprqb	bccprq	bccPR	cbcb
Birmingham	1018.1	+6	WSW	4	bc	42	65	8	-	4	1	0	4-6	-	1	*	cpro	bc	bcb	bcpro
Upper Heyford	1019.6	+6	WNW	4	bc	42	75	9	2	6	9	1	4-6	2500	1	*	cbcprqv	bcqcu	bcb	bbc
Ross-on-Wye	1020.2	+6	W	4	pr	42	85	8	9	-	-	9+	9+	2500	1	*	bqcqpbcq	bcqy/cpq	cbbcc	cpbc
Hartland Point	1023.5	+10	WNW	5	c/pr	46	85	8	8	2	-	4-6	9	1500	1	4 *	cpbc	bccpo	cpbc	bcc
Bristol	1021.1	-6	W	5	bcq	44	85	7	3	-	8	4-6	4-6	1500	1		bcqpoc	bcq	bcqbbc	bccpro
Portland Bill	1022.8	-12	WNW	5	c	47	85	7	5	-	-	10	10	2500	1	4	cpr	c	cbc	bcc
Plymouth	1024.8	+2	NWW	5	zo	48	75	6	8	3	7	4-6	9+	1500	1	2	cirocmo	cprcmo	cmobmo	bmocpr
The Lizard	1026.5	-2	WNW	6	c/pr	47	85	7	8	6	-	7-8	9+	1500	1	3	bccpr	bccpr	cbcq	bcprc
Scilly (St. Mary's)	1026.8	-2	NWW	6	c/pr	47	92	7	8	6	1	4-6	7-8	1500	1	3	bccdr	cpoq	cpqbc	bcc
Guernsey	1025.5	-6	W'S	4	bc	49	85	7	5	7	-	2-3	4-6	2500	1	4	bczoc	cido	cprbc	bv
Pembroke	1022.0	+2	NWW	6	bcq	45	75	7	8	7	-	2-3	4-6	1500	1	3	cqpro	cqbc	bcq	bccq
Holyhead	1017.3	+10	W'N	6	c	44	75	8	8	-	6	4-6	7-8	2500	1	3 *	cirobc	prbcc	cb	bbcpro
Chester (Sealand)	1016.6	+2	SW'W	5	bc	44	65	8	8	8	-	2-3	4-6	2500	1	*	ccroR	bcyprq	bcpro	bccPHR
Manchester	1015.4	+6	W	5	bc/pr	41	85	6	4	4	-	4-6	4-6	2500	1		rRproc	cprobcmo	bcprmo	bcPR
Spurn Head	1011.7	+12	W'N	6	cq	42	75	7	8	4	1	4-6	7-8	2500	0	4 *	cqpro	cq	cbcbq	bcq
Catterick	1011.3	+8	W	4	bc/pr	38	85	8	5	-	-	2-3	2-3	1500	1		cprbc	prbc	prbc	bcb
Tynemouth	1008.2	0	W	5	bc	42	65	7	2	-	-	2-3	2-3	2500	1	2	cpo	bcpq	bcq	bc
St. Abbs Head	1004.5	0	WNW	8	bcq	41	65	8	4	-	-	2-3	2-3	2500	0	4	cq	bcbq	bq	irbcq
Leuchars	1005.0	+14	W	7	b/pr	39	85	9	9	-	3	1	1	800	1•	*	bcqkqpo	bqpro	bqb	bbc
Renfrew (Abbots I.)	1008.2	+2	W	5	bc/pr	40	85	8	8	-	-	4-6	4-6	1500	1	*	kqPRpro	qphrbcpro	cqprb	cqprob
Eskdalemuir	1009.6	+10	W'N	4	bc	37	85	6	5	7	-	2-3	4-6	1500	1	*	cprq	bcorbc	bcopr	cbc
Point of Ayre	1013.4	+4	WNW	7	bc	43	85	8	8	-	-	4-6	4-6	1500	1	4	probc	bcpr	cpr	bcprq
Tiree																	cprbcq			cbc
Stornoway	1002.5	+10	WSW	6	c/phr	40	85	7	3	-	-	7-8	7-8	1500	1	3	cPRpr	cPHqPHR	bcPHR	bcpr
Dalwhinnie	1006.1	+14	SW	3	is	34	92	5	6	-	-	10	10	500	4	*	csrs	ciS	*	ciS
Aberdeen	1002.4	+6	WNW	4	b	39	75	7	5	-	3	Tr	Tr	2500	1	1	bcqjp	bcb	b	bbcro
Wick	998.9	+12	WSW	5	bc	36	92	8	5	7	4	2-3	4-6	800	1	2	bccpr		bccpr	bcprq
Lerwick	985.5	+14	WSW	8	c	45	75	7	8	7	-	7-8	10	1500	1	*	prphrpr	cpr	phr roro	cpro
Blacksod Point	1020.0	+14	WNW	6	bcq	43	85	8	9	-	-	4-6	4-6	1500	1	5	prcq	phrcq	bcq	procq
Malin Head	1013.2	+20	WNW	5	cjp	42	75	7	9	-	2	4-6	7-8	2500	1	4	eprbcjc?	cPHRc	cqphrcpr?	cproc
Aldergrove	1014.7	+12	S	4	bc/pr	39	85	8	3	-	-	2-3	2-3	2500	1	*	PRprhq	psprqb	bcprqc	cprqbc
Birr Castle	1020.2	+6	W'N	4	pr	42	85	8	8	7	-	4-6	9	1500	1	*	cprbc	bccpr	cpr	cpr
Valentia Obsy. †	1026.2	+2	NW'W	6	c/pr	45	75	8	8	7	-	7-8	9+	2500	1	5	prproqc	cproc	bcprocprbc	bcprobc
Roches Point	1024.7	+6	WNW	5	c	45	75	8	3	-	-	7-8	7-8	1500	1	3	phrqbc	cprc	cprobc	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

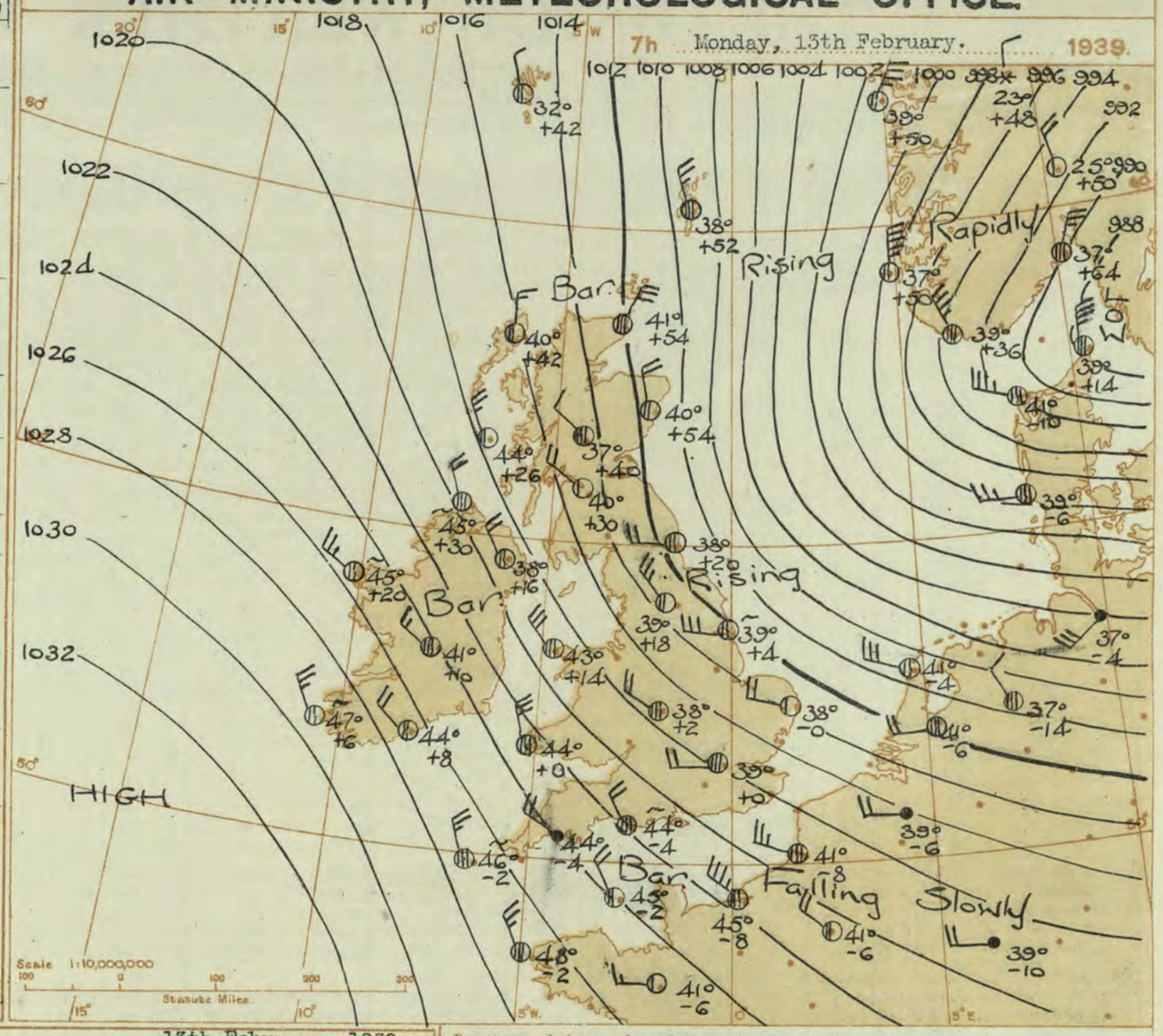
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 12th February 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 11th to 9h. 12th	Temperature. (°F.) Max. 9h.—17h. 12th	Rainfall. (mm.) Night. 17h. 11th to 9h. 12th	Rainfall. (mm.) Day. 9h.—17h. 12th	Sunshine. (Hrs.) Sunrise to 17h. 12th	Sunshine. (Hrs.) Sunrise to Sunset. 11th
1	Tunbridge W.	ocbc	bcbbc	45	53	0·3	–	5·2	2·5
	Bournemouth	bbcp	bbc	46	54	Trace	Trace	4·2	0·0
	Ventnor ...	czbc	bcbbc	46	51	–	–	4·5	0·0
	Southsea ...	bc	bccb	46	54	Trace	–	5·9	0·0
	Bognor Regis	bc	bc	46	52	–	–	5·8	0·0
	Littlehampton	cbc	bc	46	53	–	–	5·4	0·1
	Worthing ...	b	bbc	46	51	Trace	–	5·5	0·0
	Brighton ...	cbpcb	bbc	45	51	Trace	Trace	5·6	0·0
	Eastbourne† ...	cbc	bcc	47	51	0·5	–	5·3	0·4
	Hastings† ...	cbc	cbc	46	51	0·5	–		0·7
	Folkestone ...	mobc	bcbbc	45	52	Trace	–	5·9	0·6
	Dover ...	bc	bc	45	53	Trace	–	5·2	1·4
	Deal	bobcb	bbc	45	54	–	–	6·1	4·9
	Ramsgate ...	bc	bc	46	55	–	–	6·9	4·8
	Margate ...	bc	bcc	46	55	–	–	5·5	4·4
2	Southend ...	cb	bbccp	45	54	–	0·5	4·2	4·3
	Clacton-on-Sea	bc	bcpbc	45	53	–	Trace	4·9	3·6
	Dovercourt ...	bc	bcv	46	54	–	–	5·5	3·1
	Lowestoft ...	bcp	cpbc	46	54	–	1	4·4	3·1
	Skegness ...	bc	orc	44	52	–	1	3·7	4·0
	Mablethorpe...	bc	bcp	46	51	–	Trace	4·7	6·9
	Cleethorpes ...	bcrbc	bc	46	53	Trace	Trace	4·6	6·6
3	Leamington S.	bc	cbc	47	53	–	–	5·3	3·9
4	Cheltenham†	bccp	bccbc	39	51	Trace	Trace	4·5	4·4
5	Bath	cbcb	bbc	49	52	Trace	–	4·9	3·5
	Weymouth ...	cbc	rcbc	47	53	0·1	1	3·5	0·0
	Jersey ...	pcbc	bcrc	47	51	0·1	1	3·8	5·6
	Torquay ...	bccrpq	cbcbq	49	53	0·4	1	3·4	9·6
	Falmouth	ocorc	oqcrc	48	53	2	0·5	3·3	3·5
	Penzance ...	cbcpb	bbcc	49	54	0·5	2	4·3	*
	St. Ives ...								
	Bude... ...	pcbc	bcc	48	50	2	Trace	3·3	7·8
	Ilfracombe ...	rocbc	bccbc	48	50	2	–	4·6	7·9
6	Aberystwyth	prcbc	bcpr	42	50	3	1	4·6	4·7
7	Llandudno ...	cbc	bcprh	43	48	3	0·6	3·7	4·6
	Colwyn Bay...	pbc	bccbc	43	48	4	–	3·9	6·3
	Rhyl	cprbc	cprbc	43	48	2	2	3·2	3·1
8	Wallasey ...	pbc	bc	44	47	1	Trace	4·7	9·7
	Southport ...	cqpbc	bc	42	47	7	0·1	4·0	4·7
	Blackpool ...	cpob	cpbcb	44	46	3	0·3	4·5	1·8
	Morecambe ...	bcdr	bc	44	46	3	Trace	3·3	0·9
9	Ilkley.. ...	bcrc	c	44	47	5	1	1·7	4·3
	Harrogate ...	cbqir	bqir	45	46	2	1	4·9	4·1
10	Berwick-on-T.	obc	bcpb	45	48	–	Trace	4·8	0·9
11	Dunbar ...	bc	bcpro	41	47	Trace	Trace	4·8	3·9
12	Troon... ...	orroc	coro	48	46	3	4	3·0	0·0
	Douglas ...	cir	bcq	44	46	0·5	–	5·4	0·0

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



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 13th February, 1939.

Districts.	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Wind west veering northwest, moderate to fresh, moderating tonight; bright periods, occasional showers, average temperature during day; fine and frosty during 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 Orkney and Shetland	Wind northwest fresh or strong, moderating and backing; bright periods, squally wintry showers; average temperature or rather cold with night frost.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind northwest, moderate, backing southwest; bright periods, local showers to-day, cloudy occasional rain tomorrow; average temperature to-day, mild to-morrow.

GENERAL INFERENCE.

Pressure is high to southwest and low to northeast of the British Isles. A depression north of Iceland, will probably move southeast. There will be bright periods and wintry showers in most districts but more cloudy conditions with occasional rain is likely to spread eastward to Ireland later to-day.

FURTHER OUTLOOK.

Mainly cloudy with occasional rain or drizzle; becoming milder.

Times of Issue of Gale Warnings.

South Cone hoisted 0140 on 12/2/39 in districts 10, 15 and 16.

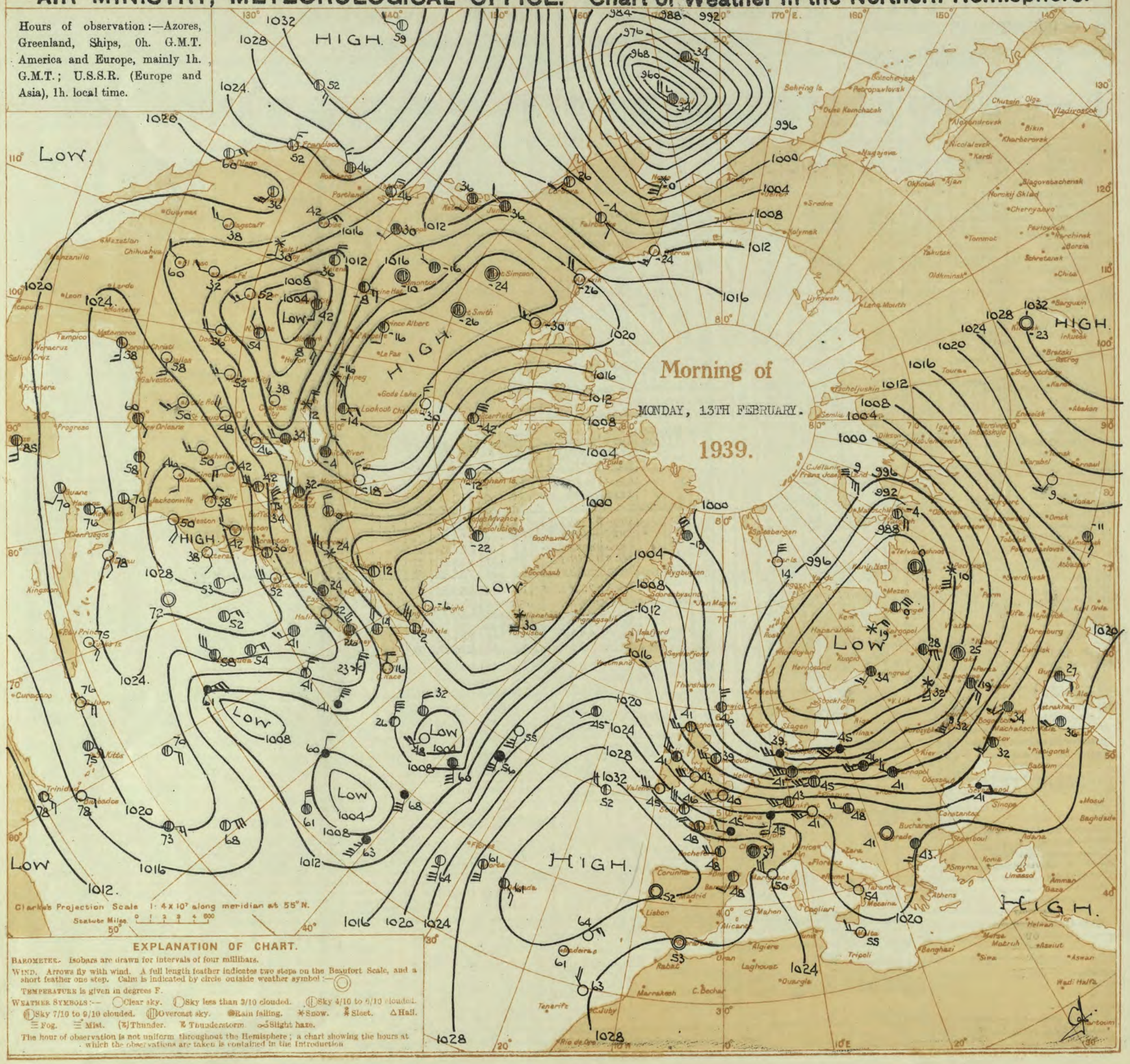
North cone hoisted at 0230 on 13/2/39 in district 1 (part of), and 2 (part of).

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

H.M. Stationery Office Press, Kingsway, W.C.2. 137/3840. m.8085. p.3758. Gp.548. 32200. 2/39

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 13th February, 1939.
No. 28207.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1018·0	−4	WSW	4	b	40	75	7	5	–	–	1	1	4000
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1019·1	−8	W'S	3	bc	38	85	7	–	7	–	0	4-6	–
	Manston ...	154	1017·4	−10	W	4	b	39	85	7	–	–	–	0	0	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1013·3	−10	W	5	b	40	75	8	–	–	–	*	*	*
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	0	0	–
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1023·3	−2	NW	5	bc	44	85	8	2	–	–	2-3	2-3	2500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1021·3	−4	NW	4	bc	45	85	8	5	–	–	4-6	4-6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1026·4	−2	NW'W	5	bc	45	75	8	8	–	–	2-3	2-3	2500
	Scilly (St. Mary's)	163	1027·3	0	NW'N	6	bc	46	82	8	8	6	–	2-3	4-6	2500
	Guernsey ..	175	1024·5	−4	W'N	3	bc	46	75	7	–	3	–	0	4-6	–
6	Pembroke ...	142	1022·3	0	NW	5	bcq	45	75	7	5	–	–	2-3	2-3	1500
7	Holyhead ...	26	1018·0	+8	WNW	6	b/p	43	75	7	2	–	–	1	1	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1010·5	−2	W'N	6	bq	41	85	7	–	–	–	0	0	–
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1009·1	+4	W	5	bc	39	75	8	2	–	–	2-3	2-3	2500
11	St Abbs Head ..	280	1006·5	+6	WNW	8	bq	39	65	8	–	1	–	0	Tr	4000
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1014·0	+12	NNW	7	c/pr	43	75	8	8	–	–	7-8	7-8	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1008·3	+26	WSW	5	bc/hr	41	85	7	8	–	–	2-3	2-3	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1000·8	+14	NW	7	pr	42	85	7	8	7	–	4-6	7-8	1500
16	Lerwick ...	156	998·2	+66	N	5	c/r	40	85	7	8	2	–	7-8	10	800
17	Blacksod Point	18	1023·2	+14	WNW	6	bcq	46	92	8	8	–	–	4-6	4-6	1500
18	Malin Head ...	84	1016·3	+16	NW'N	5	c/pr	41	75	6	9	–	–	7-8	7-8	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1028·3	+6	W'N	5	b	45	57	8	4	–	–	1	1	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1017·5	−4	W	4	c	46	75	8	5	–	–	7-8	7-8	1500	1	*
Croydon ...	1017·8	0	W	4	c	39	85	7	5	–	–	9	9	4000	1	*
S. Farnborough	1018·2	0	W	3	b	37	85	8	5	–	–	1	1	2500	1	*
Boscombe Down	1019·9	0	WNW	3	bc	38	85	8	5	4	–	1	2-3	2500	0	*
Calshot (Sthmtn.)	1020·1	−4	W	5	b	41	75	8	5	3	–	Tr	1	4000	1	2
Lympne ...	1017·8	−2	W'N	4	bc	37	85	8	–	7	–	0	2-3	–	1	3
Manston ...	1016·0	+2	W'N	5	bc	38	85	8	–	3	–	0	4-6	–	1	*
Shoeburyness ...	1016·2	+2	W	3	c	46	75	7	8	–	–	9+	9+	1500	1	*
Felixstowe ...	1015·0	+2	W'N	5	bc	41	75	7	5	–	–	2-3	2-3	1500	0	3
Gorleston ...	1012·9	0	WNW	4	b	38	85	7	–	4	–	0	Tr	–	1	3
Mildenhall ...	1014·5	+2	W	4	b	37	85	7	5	–	–	1	1	4000	0	*
Cranwell ...	1014·6	+6	W'N	3	b	38	85	7	5	–	–	Tr	Tr	2500	1	*
Birmingham ...	1017·8	+2	WNW	4	c	38	75	8	5	–	–	7-8	7-8	1500	1	*
Upper Heyford	1018·4	+6	NW'W	4	bc	38	85	8	5	–	–	4-6	4-6	1500	1	*
Ross-on-Wye	1019·4	0	W'N	2	c	40	75	8	5	–	–	7-8	7-8	2500	1	*
Hartland Point	1023·0	+2	NW	6	c	44	75	8	8	–	–	9	9	1500	1	4
Bristol ...	1020·6	0	W'N	4	c	41	85	7	8	–	–	7-8	7-8	1500	1	*
Portland Bill ...	1020·4	−4	NW	4	c	44	85	8	5	4	–	4-6	10	2500	1	4
Plymouth ...	1023·6	−4	WNW	4	pr	44	75	6	3	3	–	4-6	7-8	1500	1	2
The Lizard ...	1025·6	−6	NW	5	c	45	75	8	8	6	–	7-8	9+	2500	1	3
Scilly (St. Mary's)	1026·9	−2	NNW	5	c	46	85	8	8	6	–	4-6	10	2500	1	4
Guernsey ..	1023·5	−2	NW	4	bc	45	75	8	8	–	–	4-6	4-6	2500	1	3
Pembroke ...	1022·4	0	NNW	6	cq	44	75	7	8	6	–	4-6	7-8	2500	1	3
Holyhead ...	1019·1	+14	NW'W	6	c/pr	43	85	8	8	4	–	4-6	7-8	2500	1	3
Chester (Sealand)	1017·9	+18	W'N	6	bc/pr	41	75	8	9	3	–	2-3	4-6	1500	1	*
Manchester ...	1016·5	+12	WNW	5	bc	39	85	7	8	–	–	2-3	2-3	1500	1	*
Spurn Head ...	1011·1	+4	W'N	6	bc	39	85	6	–	4	–	0	2-3	–	0	4
Catterick ...	1012·5	+18	NW'N	5	bc	39	75	8	5	–	–	2-3	2-3	1500	1	*
Tynemouth ...	1010·6	+20	W	4	bc	38	75	8	8	–	–	4-6	4-6	2500	1	2
St Abbs Head ..	1010·1	+30	WNW	8	c/pr	41	65	8	3	1	–	4-6	9	2500	1	4
Leuchars ...	1012·3	+46	W	4	bc	41	75	8	5	4	–	2-3	4-6	2500	1	*
Renfrew (Abbots I.)	1015·8	+30	WNW	4	b	40	85	9	4	–	–	1	1	2500	1	*
Eskdalemuir ...	1013·4	+20	NW'W	7	bc	37	75	8	5	–	–	4-6	4-6	1500	1	*
Point of Ayre...	1016·9	+10	N'W	6	bc	44	75	8	8	–	–	2-3	2-3	1500	1	4
Tiree	1017·2	+26	NW'N	5	bc	44	85	8	8	–	–	4-6	4-6	1500	0	–
Stornoway ...	1016·0	+42	N	3	bc/pr	40	85	8	8	–	–	4-6	4-6	2500	1	2
Dalwhinnie ...	1015·6	+40	WNW	2	c	37	85	7	5	6	–	9	9+	2500	4	*
Aberdeen ...	1011·3	+54	N'W	4	bc/r	40	92	7	9	3	–	4-6	4-6	800	1	1
Wick ...	1011·7	+54	NE	6	c	41	75	8	5	7	–	4-6	9+	1500	1	3
Lerwick ...	1009·7	+52	NNW	5	c	38	85	8	8	7	–	4-6	7-8	1500	1	*
Blacksod Point	1025·7	+20	WNW	5	bc	45	85	8	9	–	–	2-3	2-3	1500	1	4
Malin Head ...	1021·6	+30	NNW	4	c	45	75	8	8	5	–	4-6	7-8	4000	1	4
Aldergrove ...	1019·4	+16	NW	4	bc	38	85	8	2	–	–	2-3	2-3	1500	1	*
Birr Castle ...	1024·0	+10	WNW	3	c/pr	41	92	8	8	–	–	7-8	7-8	1500	1	*
Valentia Obsy. †	1025·3	+6	NW'N	5	bc	47	75	8	6	–	–	2-3	2-3	2500	1	4
Roches Point	1026·9	+8	WNW	4	bc	44	85	8	3	–	5	2-3	4-6	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 10th Hrs. (36)
London (Kew)	54	39	33	Tr	–	3·1
Croydon ...	55	39	34	Tr	–	4·0
S. Farnborough	54	37	34	Tr	Tr	4·2
Boscombe Down	52	37	33	0·1	–	5·7
Calshot (Sthmtn.)	54	39	36	–	–	4·6
Lympne ...	51	35	31	–	–	5·0
Manston ...	54	38	35	–	–	6·0
Shoeburyness ...	54	40	35	1	–	4·1
Felixstowe ...	53	40	37	0·4	–	*
Gorleston ...	53	38	35	1	Tr	4·6
Mildenhall ...	54	37	34	0·2	–	4·5
Cranwell ...	52	37	33	0·3	0·4	4·5
Birmingham ...	50	36	34	0·6	0·3	5·8
Upper Heyford	52	37	32	Tr	–	*
Ross-on-Wye	52	39	33	2	0·3	4·1
Hartland Point	48	43	41	Tr	0·2	3·9
Bristol ...	51	39	36	Tr	0·1	5·7
Portland Bill ...	49	43	*	Tr	*	*
Plymouth ...	51	44	40	1	Tr	1·1
The Lizard ...	51	42	*	2	0·5	2·8
Scilly (St. Mary's)	52	44	*	1	0·3	3·0
Guernsey ..	53	44	41	Tr	0·4	4·4
Pembroke ...	50	43	*	Tr	–	3·9
Holyhead ...	48	42	40	2	0·1	5·1
Chester (Sealand)	50	35	32	3	6	4·5
Manchester ...	48	38	34	2	2	1·7
Spurn Head ...	49	38	*	Tr	–	4·6
Catterick ...	49	36	33	1	0·5	5·0
Tynemouth ...	49	37	34	0·4	–	4·2
St Abbs Head ..	48	38	*	0·4	Tr	*
Leuchars ...	47	36	31	Tr	–	6·8
Renfrew (Abbots I.)	46	35	31	4	3	2·7
Eskdalemuir ...	44	35	33	5	0·5	2·4
Point of Ayre...	47	39	*	1	2	4·5
Tiree	46	39	37		0·2	4·0
Stornoway ...	44	39	*	2	2	3·0
Dalwhinnie ...	41	31	30	4	3	1·9
Aberdeen ...	48	38	34	–	0·5	4·3
Wick ...	47	36	*	1	2	*
Lerwick ...	49	35	*	0·2	1	1·9
Blacksod Point	50	39	*	2	0·1	*
Malin Head ...	(44)	36	*	3	2	*
Aldergrove ...	49	36	32	2	3	6·1
Birr Castle ...	47	39	34	2	0·3	3·9
Valentia Obsy. †	49	44	39	1	1	2·1
Roches Point	49	43	*	1	0·2	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. Yesterday	Humidity 15h. G.M.T % Yesterday	Humidity 9h. G.M.T % Yesterday	Visibility 9h. To-day
Kew ...	18	bcc bcy	bcy pr cy	cy bc bbc	54	39	33	Tr	–	3·1	•	•	6
Croydon ...	217	czpr	bczy	bcb bc	55	39	34	Tr	–	4·0	•	•	6
Greenwich (Royal Observatory) ...	149	bcc	cpbc	cbc	54	38	32	Tr	–	•	63	71	5
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	56	39	31	–	–	2·5	61	74	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	•	34	39	35	Tr	–	2·8	59	73	*
Camden Square ...	110	bc	bc	*	55	39	34	–	–	*	*	73	*
Kensington ...	80	bc	bc	*	55	39	32	–	–	2·8	59	73	*
Hampstead Observatory ...	450									3·6	*		*

At 18h.

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

South Kensington Max.	Time.	Min.	Time.
<0·3	the whole period		

Kew Observatory Max.	Time.	Min.	Time.
0·2	17h 12th	<0·1	1-5h 13th

FOREIGN OBSERVATIONS.

Stations	13h. G.M.T. 12th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 13th February 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 ...	1025·5	W	4	bc	52	1020·6	WNW	4	bc	41	*	41	–	1
Brussels ...	1018·6	WSW	5	c/r	48	1015·3	W	4	r	39	52	39	0·3	Tr
Berlin ...	1008·4	WSW	6	cq	50	1005·0	WSW	3	bc	39	52	39	Tr	0·2
Zürich ...						1020·6	SSW	3	r	41		36		Tr
Rome ...	1022·9	W	2	0	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	1½ miles.
5 Poor visibility	2½ "
6 Moderate "	6½ "
7 Good "	12½ "
8 Very good "	31 "
9 Excellent "	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 14th February 193
No. 28208.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Mod. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1020.4	+14	NW	4	zo	46	65	6	5	—	—	9+	9+	1500
	Croydon ...	1020.0	+12	NW	4	zo	45	65	6	8	—	—	9+	9+	2500
	S. Farnborough	1021.1	+10	NW	4	c	46	55	8	7	—	—	9	9	2500
	Boscombe Down	1022.5	+14	NNW	6	c	44	65	8	8	—	—	7-8	7-8	2500
	Calshot (Sthmtn.)	1021.9	+10	NW	5	c	46	65	8	5	—	—	7-8	7-8	2500
	Lympne ...	1019.5	+12	NNW	5	c	45	65	8	1	—	—	7-8	7-8	2500
	Manston ...	1018.3	+10	NNW	5	c	45	65	6	5	—	—	9+	9+	2500
2	Shoeburyness ...	1016.9	+14	NNW	4	c	45	65	8	8	—	—	9+	9+	2500
	Felixstowe ...	1017.6	+14	NNW	5	c	45	65	8	5	—	6	9+	9+	2500
	Gorleston ...	1016.4	+16	NNW	4	rso	41	85	6	6	—	—	10	10	1500
	Mildenhall ...	1016.7	+26	NW	5	rso	42	92	6	6	2	—	7-8	10	1500
	Cranwell ...	1016.5	+18	NNW	4	c	45	65	7	4	—	—	9	9	4000
3	Birmingham ...	1021.6	+24	NW	4	bc	43	75	6	8	—	6	4-6	4-6	1500
	Upper Heyford	1021.2	+16	NW	4	c	44	65	7	5	—	—	10	10	1500
4	Ross-on-Wye	1023.0	+16	NNW	4	bc	47	85	8	7	—	—	2-3	2-3	4000
5	Hartland Point	1026.0	+12	NW	6	bc	44	85	8	2	—	—	4-6	4-6	2500
	Bristol ...	1023.4	+16	NNW	5	c	45	65	8	8	—	—	7-8	7-8	2500
	Portland Bill ...	1023.1	+6	NW	5	c	47	75	8	2	—	—	7-8	7-8	2500
	Plymouth ...	1025.6	+10	NNW	5	cq	47	65	8	8	—	—	9	9	2500
	The Lizard ...	1026.9	+6	NNW	5	bc	47	75	8	8	6	—	4-6	4-6	2500
	Scilly (St. Mary's)	1028.0	+4	NNW	6	bcq	49	85	7	8	6	—	2-3	4-6	1500
	Guernsey ...	1024.0	+4	NW	5	bc	47	65	8	8	—	—	4-6	4-6	2500
6	Pembroke ...	1026.6	+10	NW	4	bcq	46	75	7	8	—	—	4-6	4-6	1500
7	Holyhead ...	1024.0	+22	NW	6	c	45	85	8	8	4	—	7-8	7-8	2500
	Chester (Sealand)	1022.9	+24	W	6	bc	46	75	7	6	—	1	4-6	4-6	2500
8	Manchester ...	1021.7	+30	NWN	4	bc	45	75	7	2	—	—	4-6	4-6	2500
10	Spurn Head ...	1017.[illegible]	+28	NNW	7	cq	44	75	7	8	—	—	9	9	1500
	Catterick ...	1020.6	+40	NNW	4	c	46	65	8	5	—	—	9+	9+	1500
	Tynemouth ...	1019.1	+34	N	3	c/pr	44	75	6	8	—	—	7-8	7-8	1500
11	St. Abbs Head ...	1020.2	+34	N	5	c	41	85	8	[illegible]	6	—	7-8	9-	1500
	Leuchars ...	1020.2	+30	NNW	2	c	46	65	8	5	6	—	7-8	9	1500
12	Renfrew (Abbots I.)	1022.4	+[illegible]	NNW	4	bc	43	65	9	1	6	1	2-3	4-6	4000
	Eskdalemuir ...	1021.2	+48	NW	4	bc	45	65	8	7	—	6	2-3	2-3	4000
	Point of Ayre ...	1023.2	+30	NW	5	bc	47	85	8	5	—	—	4-6	4-6	2500
13A	Tiree ...	1024.5	+28	NNW	4	bc	47	75	8	8	4	2	2-3	4-6	2500
13B	Stornoway ...	1023.7	+24	NW	4	c/pr	45	75	7	5	7	—	7-8	9+	2500
15	Dalwhinnie ...	*	+46	WNW	2	c	37	85	7	4	2	—	4-6	9	2500
	Aberdeen ...	1020.6	+44	NNW	3	c/pr	42	75	7	8	—	—	9	9	1500
	Wick ...	1020.9	+40	NNW	4	c/pr	41	75	8	5	7	—	7-8	9+	1500
16	Lerwick ...	1018.1	+32	NNW	5	c	42	65	8	8	7	—	4-6	7-8	1500
17	Blacksod Point	1030.6	+20	NW	5	c	47	85	8	9	—	—	7-8	7-8	1500
18	Malin Head ...	1025.5	+24	NW	4	cjp	46	85	6	3	—	5	7-8	9	1500
	Aldergrove ...	1025.2	+22	NNW	4	c/pr	45	75	8	8	—	—	7-8	7-8	1500
19	Birr Castle ...	1029.0	+10	WNW	2	c	45	85	7	5	7	8	4-6	9	2500
20	Valentia Obsy. †	1032.2	+10	NW	5	cjp	49	75	8	9	—	1	9	9	1500
	Roches Point	1030.1	+12	N	4	c	48	75	8	3	4	—	4-6	7-8	1500

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Mod. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1025.2	+28	NW	2	zo	45	75	6	5	—	—	9+	9+	1500	1	*
	Croydon	1024.9	+26	NWN	5	m	45	75	4	9	—	—	9+	9+	2500	1	*
	S. Farnborough	1025.7	+30	NW	2	zo	45	75	6	5	3	—	4-6	7-8	2500	1	*
	Boscombe Down	1026.4	+26	NNW	3	c	44	85	8	5	—	—	9+	9+	4000	0	*
	Calshot (Sthmtn.)	1025.5	+26	NW	4	zo	45	65	6	5	—	—	10	10	4000	1	2
	Lympne	1024.0	+26	NNW	4	c	42	85	6	5	7	—	4-6	9+	2500	1	§2
	Manston	1023.7	+36	NNW	5	c	42	85	7	5	—	—	9+	9+	2500	1	*
2	Shoeburyness	1023.7	+30	NNW	2	c	44	75	7	5	7	—	7-8	9+	4000	1	*
	Felixstowe	1023.6	+30	NNW	5	c	44	75	8	5	—	—	9+	9+	2500	0	3
	Gorleston	1022.3	+40	N	4	c	43	75	6	5	4	—	4-6	7-8	2500	1	3
	Mildenhall	1024.3	+34	NNW	3	c	42	85	7	5	—	—	10	10	2500	1	*
	Cranwell	1025.2	+26	NNW	2	co	42	75	6	5	—	—	10	10	4000	1	*
3	Birmingham	1025.9	+24	NW	3	c	45	75	5	8	—	5	4-6	7-8	1500	1	*
	Upper Heyford	1026.4	+36	NWN	4	zo	43	75	6	4	4	—	4-6	7-8	2500	1	*
4	Ross-on-Wye	1026.3	+24	N'E	2	bc	44	75	8	5	—	1	4-6	4-6	2500	1	*
5	Hartland Point	1028.6	+20	N	5	c	45	85	8	8	4	—	7-8	7-8	2500	1	3
	Bristol	1027.2	+26	NNW	3	zo	44	65	6	4	4	—	4-6	4-6	2500	1	*
	Portland Bill	1027.1	+30	NNW	3	c	45	85	7	5	7	—	7-8	10	2500	1	3
	Plymouth	1028.5	+26	NW	4	c	45	75	7	5	3	—	4-6	7-8	1500	1	2
	The Lizard	1029.5	+12	NWN	4	bc	45	75	8	8	6	—	4-6	4-6	2500	1	2
	Scilly (St. Mary's)	1030.5	+12	N'E	5	bc	46	85	8	2	6	4	4-6	4-6	2500	1	3
	Guernsey	1026.6	+22	NNW	3	bc	45	65	8	1	7	—	1	2-3	2500	1	3
6	Pembroke	1029.4	+6	N'E	3	bc	44	75	8	5	4	2	2-3	4-6	1500	1	2
7	Holyhead	1027.4	+20	NWN	5	c	46	85	7	7	4	—	7-8	9+	2500	1	2
	Chester (Sealand)	1027.0	+26	NW	3	zo	43	85	6	8	7	1	2-3	2-3	2500	[illegible]	*
8	Manchester	1026.2	+30	WNW	2	[illegible]	39	92	4	5	—	1	1	2-3	4000	1	*
10	Spurn Head	1024.6	+40	NWN	4	c	42	85	7	5	—	—	10	10	2500	0	3
	Catterick	1025.9	+30	NWN	3	c	42	65	7	5	—	—	9+	9+	4000	1	*
	Tynemouth	1025.1	+24	NNW	4	c/pr	41	75	6	8	—	—	9+	9	1500	1	2
11	St. Abbs Head	1026.2	+14	N	5	c	42	65	8	8	6	—	7-8	9+	1500	0	4
	Leuchars	1026.4	+26	W	1	c	42	65	8	8	7	5	9	9	2500	1	*
12	Renfrew (Abbots I.)	1027.3	+30	WNW	1	c	42	75	9	4	3	—	4-6	7-8	4000	1	*
	Eskdalemuir	1027.1	+32	NE'N	1	c	39	75	8	7	7	6	4-6	10	4000	1	*
	Point of Ayre	1027.2	+32	N'W	5	c	45	85	8	5	3	—	4-6	7-8	1500	1	3
13A	Tiree	1029.4	+24	NW	3	c	45	75	8	5	—	—	7-8	7-8	1500	0	3
13B	Stornoway	1026.9	+12	WNW	2	c	39	85	7	8	7	—	7-8	7-8	2500	1	1
15	Dalwhinnie	1027.9	+24	S	2	c	35	85	7	4	4	2	2-3	7-8	2500	0	*
	Aberdeen	1025.5	+22	NW	3	c/pr	40	85	7	8	—	—	9	9	1500	1	2
	Wick	1024.6	+18	W	3	c	40	75	8	5	7	—	4-6	7-8	1500	1	1
16	Lerwick	1022.2	+20	NNW	4	c	38	75	8	8	7	—	4-6	7-8	1500	1	*
17	Blacksod Point	1032.4	+16	NW	3	bc	46	85	8	4	—	—	4-6	4-6	1500	1	3
18	Malin Head	1030.1	+44	N	2	c/pr	44	85	7	8	6	—	4-6	7-8	2500	1	5
	Aldergrove	1029.3	+30	NW	3	bc	41	92	8	4	—	—	2-3	2-3	1500	1	*
19	Birr Castle	1031.1	+18	NW	1	bc	44	85	8	5	4	—	2-3	4-6	2500	1	*
20	Valentia Obsy. †	1034.2	+14	NW	4	c	47	85	8	5	—	6	4-6	7-8	1500	1	3
	Roches Point	1032.2	+16	N	4	bc	46	83	8	5	—	1	4-6	4-6	2500	1	3

PAST 24 HOURS. WEATHER.

District	Stations	7h.—13h. 13th. (37)	13h.—18h. 13th. (38)	18h.—1h. 13th–14th (39)	1h.—7h. 14th. (40)
1	London (Kew)	cbcz,cz	czo	czc	cscbqx
	Croydon	cmopro	czogz	[illegible]	bcb
	S. Farnborough	bbccy	czoybc	bcz cmo	amkfw
	Boscombe Down	bcprobcc	c	ab,cbc	bcc
	Calshot (Sthmtn.)	bbc	ccro	cm bmo	bmwcmo
	Lympne	probbc	cmododo	cmbcb	bx
	Manston	bccmo	cproidom	b	bxwd
2	Shoeburyness	cbcc	crobcc	crc	cbmo
	Felixstowe	bcb,c	cproc	c,bmo	bmx
	Gorleston	bbcorro	crc	cbcb	bbcz
	Mildenhall	b,cromo	cromoc	cbcb	bcwmx
	Cranwell	bzocproc	ccmo	cmbmx	b[illegible]x
3	Birmingham	cprobc	bc	bcc	cf
	Upper Heyford	c	bczo	bczm	bcm
4	Ross-on-Wye	qpbbcy	bc	bcbb	bbcB
5	Hartland Point	cbc	bcc	cbc	bc
	Bristol	cPRbc	cbcy	bccbco	bccx
	Portland Bill	c	c	bcbc	bcc
	Plymouth	cprcq	cqproc	cbz bc	bco
	The Lizard	prcbc	bc	bc	bcw
	Scilly (St. Mary's)	bcphrq	cpoqbc	bcb	obcc
	Guernsey	bc	cprbc	bcb	bbcc
6	Pembroke	cproqbc	bc	bcb	bbcw
7	Holyhead	bcc	c	cbc	bcwc
	Chester (Sealand)	cbc	bcmo	bccm w	cmbff[illegible]
8	Manchester	bcbbc	bc,zm	bcm cm	cff
10	Spurn Head	cqpro	cqpro	prqcb	bzw
	Catterick	pbcc	bbcc	cb	bbc
	Tynemouth	bc po	cpo	[illegible]	cbc
11	St. Abbs Head	cPHR	c	cc	bcc
	Leuchars	prsm[illegible]	[illegible]	cc cb	[illegible]
12	Renfrew (Abbots I.)	bcc	bccbo	cbcc w	w[illegible]
	Eskdalemuir	bcb	cbcc	c	cxcw
	Point of Ayre	bc	bcc	cbc	bbcw
13A	Tiree	prbc	bcc	c	coo
13B	Stornoway	bc pro	cpro	c	c
15	Dalwhinnie	cbc	c	*	bcc
	Aberdeen	cpro jp	cpro	cbcb	bcc
	Wick	crcc	c	cbc	c
16	Lerwick	pnr	bcc	cbcc	crrm
17	Blacksod Point	prcq	bc	bc	ido
18	Malin Head	cprbcc	cprobcc	bcbcc	c
	Aldergrove	proqpro	cprocbc	bcbc	c
19	Birr Castle	cprc	cbc	bcb	bbcc
20	Valentia Obsy. †	bcpro	cbcc	cbcbw	bwbc
	Roches Point	cproc	cbc	bc	bcw

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

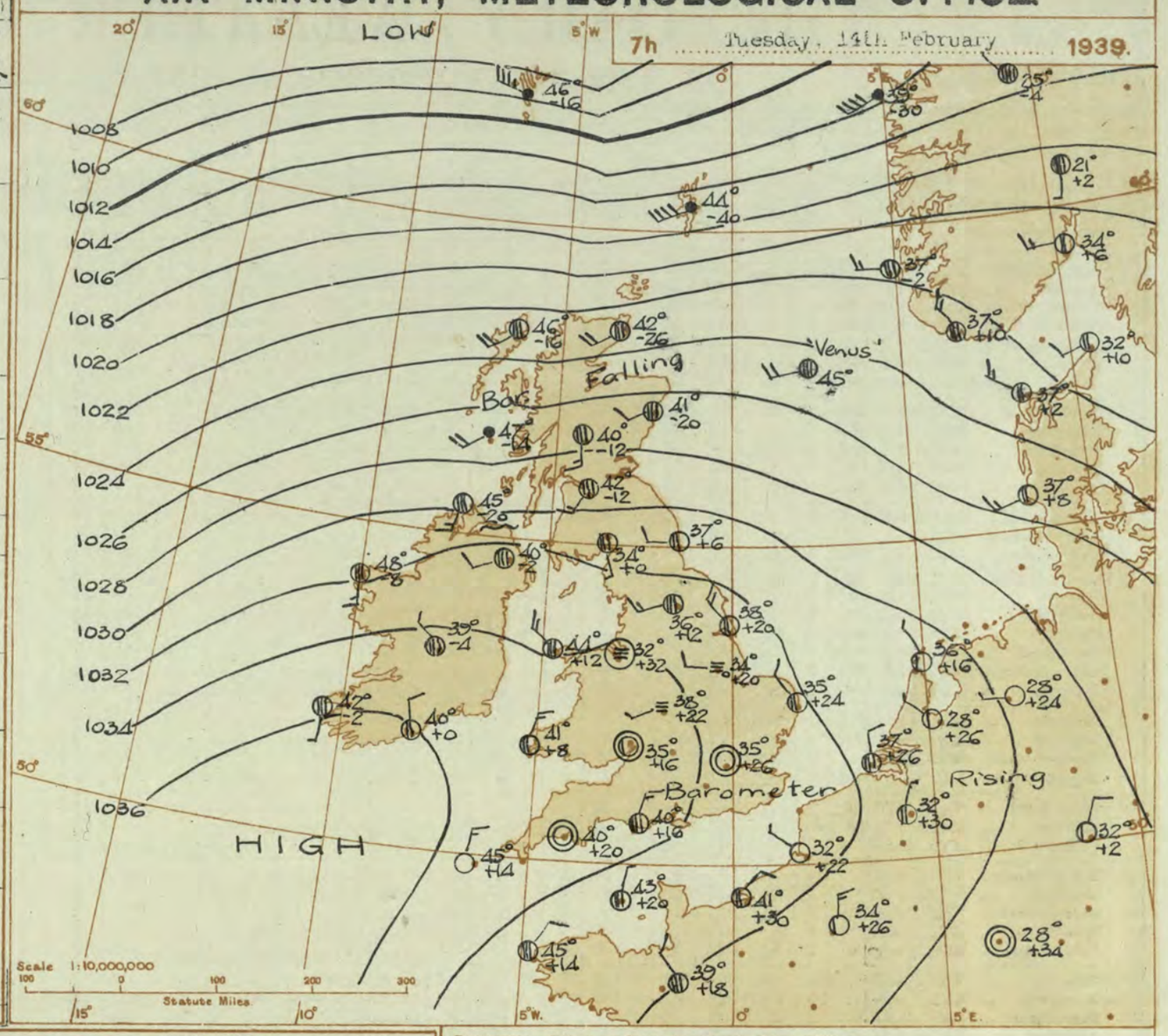
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 13th February 1939.

Districts	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F) Min. 9h. 12th to 9h. 13th	Temperature. (°F) Max. 9h.—17h. 12th 13th	Rainfall. (mm.) Night 17h. 12th to 9h. 13th	Rainfall. (mm.) Day. 9h.—17h. 13th	Sunshine. (Hrs.) Sunrise to 17h. 13th	Sunshine. (Hrs.) Sunrise to Sunset, 12th
1	Tunbridge W.	cbcc	co.	37	44	—	Trace	1.4	2.5
	Bournemouth	b	bcbbc	39	*	0.3	—	5.8	0.0
	Ventnor ...	pb	bcv	40	50	0.3	—	5.7	0.0
	Southsea ...	b	bcb	40	48	Trace	—	5.5	0.0
	Bognor Regis	bc	bcc	39	48	—	—	4.1	0.0
	Littlehampton	bc	bcc	38	49	—	—	3.6	0.1
	Worthing ...	bcb	bc	38	47	—	—	4.7	0.0
	Brighton ...	b	bbc	39	48	—	—	5.0	0.0
	Eastbourne† ...	b	bbcc	39	48	—	—	5.1	0.4
	Hastings† ...	bbc	ccbc	37	48	—	—	4.4	0.7
	Folkestone ...	bbc	cobo	36	47	—	Trace	4.4	0.6
	Dover ...	bc	bccpc	39	47	—	Trace	4.8	1.4
	Deal	b	bocco	38	46	—	Trace	4.6	4.2
	Ramsgate ...	bcc	c.cbc	38	47	—	Trace	4.7	4.8
	Margate ...	bc	bccd.	40	45	—	Trace	4.6	4.4
2	Southend ...	bbc	bccc	38	46	—	Trace	3.7	4.3
	Clacton-on-Sea	bcc	cpbc	38	46	—	0.2	5.0	3.6
	Dovercourt ...	bcv	bcoc	39	45	—	—	5.1	3.1
	Lowestoft ...	bop	cpbcp	36	45	—	1	3.5	3.1
	Skegness ...	bbcc	bcc	36	46	—	—	4.2	4.0
	Mablethorpe...	bbc	bcop	36	46	—	Trace	1.9	6.2
	Cleethorpes ...	bcrbc	bc	37	46	—	Trace	1.9	6.6
3	Leamington S.	bc	bcc	36	46	0.5	—	2.6	3.9
4	Cheltenham†	bcqc	cz	37	46	—	—	1.2	4.4
5	Bath	bbc	cbcb	40	48	0.3	—	5.8	3.5
	Weymouth ...	b	b	41	49	—	—	7.6	0.0
	Jersey ...	pcbc	bc	44	49	0.1	—	7.0	5.6
	Torquay ...	bcp.bq	bp.b	43	48	—	Trace	7.0	2.6
	Falmouth	chrop	b	42	48	1	1	4.9	3.5
	Penzance ...	cpbc	bcc	43	50	1	1	4.9	*
	St. Ives ...								
	Bude... ...	cbc	bc	43	48	0.6	—	4.5	7.8
	Ilfracombe ...	bccbc	cbc	44	47	—	—	2.8	7.2
6	Aberystwyth	prc	c	42	46	0.5	—	0.7	4.7
7	Llandudno ...	bc	bcc	41	46	0.2	—	2.5	4.6
	Colwyn Bay...	bcc	bcc	41	46	1	—	0.4	6.3
	Rhyl	bcc	c.c	40	46	0.5	Trace	1.1	3.1
8	Wallasey ...	bcb	bc	40	43	0.5	—	5.9	2.7
	Southport ...	bcb	bbc	39	49	0.6	—	7.8	4.7
	Blackpool ...	b	bbm.	38	46	0.5	—	7.8	1.8
	Morecambe ...	b	bbc	39	48	2	—	6.6	0.9
9	Ilkley... ...	bc	bc	35	49	5	—	3.4	4.3
	Harrogate ...	cbq	bc	35	46	3	—	4.8	4.1
10	Berwick-on-T.	cs.	c	37	44	—	Trace	1.7	0.2
11	Dunbar ...	cm.6	cpc	36	45	Trace	Trace	0.9	3.9
12	Troon	cobcc	bcoc	39	49	1	—	6.2	0.0
	Douglas ...	bcpr	bc	36	46	3	—	4.0	0.0

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



Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 14th February, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Wind becoming westerly, light; fine at first, cloud increasing during night; average temperature.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Wind southwest light, freshening; cloudy, occasional light rain or drizzle, chiefly in West; becoming milder.
11 S.E. Scotland ▼ 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. ▼ 14 Mid Scotland 15 N. E. Scotland ▼ 16 Orkney and Shetland ▼	Wind southwest, fresh or strong, a gale locally; cloudy, occasional rain or drizzle; mild.
17 N. W. Ireland 18 N. E. Ireland	As 7 - 10.
19 S. E. Ireland 20 S. W. Ireland	Wind south to southwest, light to moderate; mainly cloudy, becoming mild.

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

GENERAL INFERENCE.

An anticyclone persists off our southwest coasts while a deep depression northeast of Iceland is moving east. Weather will be cloudy with occasional rain or drizzle in the North but will remain dry in the South though with increasing amounts of cloud.

FURTHER OUTLOOK.

Mild and dry in the South, occasional rain in the North.

Time of Issue of Gale Warnings.

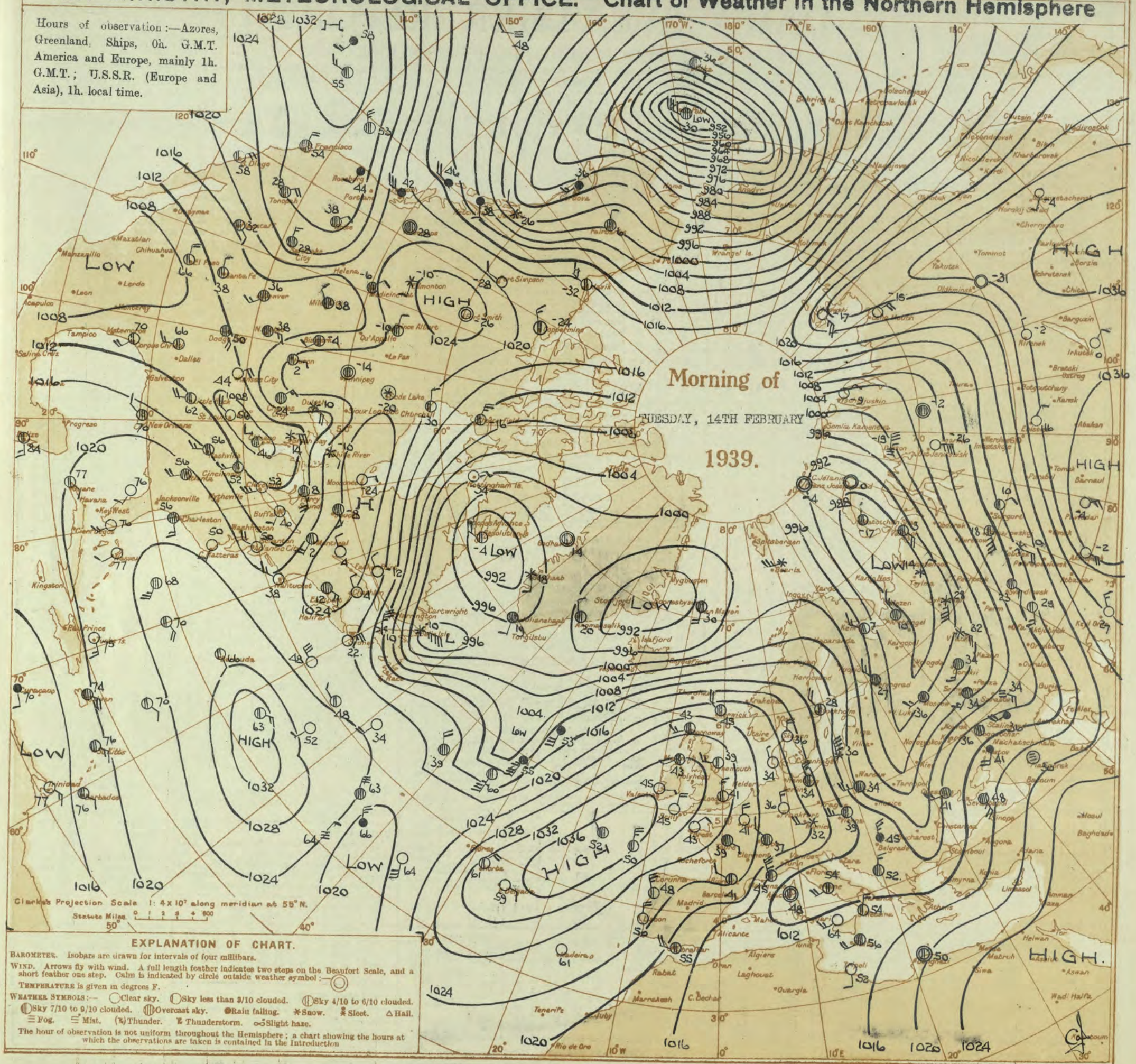
▼ South Cone hoisted at 0830 on 14/2/39 in districts 11, 13B. 15 and 16.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

H.M. Stationery Office Press, Kingsway W.C.2. v.737/3640. m.8088. D.3763 fp.348 32200. 2/39

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 14th February, 1939
No 28208.

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1029.7	+16	N'E	3	bc	41	75	7	-	3	-	0	2-3	-
	S. Farnborough	228	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1029.8	+26	N'W	3	b	38	85	8	-	-	-	0	0	-
	Manston ...	154	1029.5	+26	N	4	b	39	85	8	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1028.8	+20	NW'N	3	b	36	85	7	-	-	-	0	0	-
	Mildenhall ...	19	1030.2	+24	NW'N	2	z	35	97	6	5	-	-	4-6	4-6	5700
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1032.4	+10	N	3	bc	45	92	8	8	-	-	4-6	4-6	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1031.4	+16	N	3	bc	42	85	8	5	-	-	2-3	2-3	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1033.0	+6	NW'N	3	b	41	85	8	8	6	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	1033.9	+12	N'E	4	b	45	92	8	-	-	-	0	0	-
	Guernsey ..	175	1031.0	+18	NNW	2	b	44	85	8	-	-	-	0	0	-
6	Pembroke ...	142	1032.0	+10	NE'N	4	b	43	92	8	5	-	-	Tr	Tr	2500
7	Holyhead ...	26	1031.9	+10	N	3	bc	44	92	8	1	-	-	2-3	2-3	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1029.8	+16	NW'N	4	b	39	85	7	-	-	-	0	0	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1029.8	+12	W	3	bc	39	65	7	5	-	-	4-6	4-6	1500
11	St Abbs Head ..	280	1029.2	+60	WNW	3	bc	42	55	8	2	4	-	1	4-6	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1031.6	+10	N	2	b	42	92	8	-	4	-	0	Tr	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1027.2	-14	SW	3	c	43	85	7	8	7	-	7-8	7-8	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1026.4	- 4	WSW	3	c	38	85	8	5	7	-	7-8	9	1500
16	Lerwick ...	156	1023.5	- 4	NW	4	c	40	85	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	18	1033.8	0	-	0	c	47	92	7	5	-	-	10	10	800
18	Malin Head ...	84	1032.2	+6	SW	1	c	43	92	7	4	-	-	7-8	7-8	2500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1035.9	+6	E	1	b	45	97	8	-	-	-	0	0	-
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea 0–9 (30)
London (Kew)	1033.7	+24	NNW	2	z	38	85	6	5	-	1	Tr	1	2500	1	*
Croydon ...	1033.6	+26	-	0	z	35	92	5	-	4	-	0	Tr	-	1	*
S. Farnborough	1034.5	+26	-	0	f	32	97	3	-	3	-	0	1	-	3	*
Boscombe Down	1034.9	+20	NNW	2	c	39	92	7	5	-	-	9	9	1500	1	*
Calshot (Sthmtn.)	1034.4	+24	NW	2	z	38	92	6	5	4	-	9	9	4000	1	1
Lympne ...	1033.5	+24	N'W	3	b	34	92	7	3	4	-	1	1	2500	1	§ 0
Manston ...	1033.1	+26	N	2	b	35	92	8	-	3	-	0	1	-	1	*
Shoeburyness ...	1033.2	+26	NNW	2	b	33	97	6	-	4	-	0	Tr	-	1	*
Felixstowe ...	1032.8	+20	NNW	2	z	33	92	6	5	-	-	Tr	Tr	2500	0	2
Gorleston ...	1032.1	+24	NW'N	2	bc	35	92	5	5	4	-	2-3	2-3	2500	1	2
Mildenhall ...	1033.8	+26	WNW	1	m	29	97	4	-	4	-	0	Tr	-	1	*
Cranwell ...	1033.2	+20	W	2	m	34	92	4	-	4	-	0	Tr	-	1	*
Birmingham ...	1034.5	+22	WSW	1	cf	38	92	3	-	3	-	0	9	-	1	*
Upper Heyford	1034.1	+2	NW	2	m	37	92	4	-	3	-	0	4-6	-	1	*
Ross-on-Wye	1034.1	+16	-	0	b	35	97	7	5	-	1	1	1	2500	1	*
Hartland Point	1034.5	+16	N	3	bc	43	92	8	6	-	-	2-3	2-3	800	1	3
Bristol ...	1034.5	+20	-	0	z	34	97	6	5	-	-	4-6	4-6	1500	1	*
Portland Bill ...	1033.9	+16	NNE	3	c	40	92	7	5	-	-	10	10	2500	1	3
Plymouth ...	1034.6	+20	-	0	b	40	92	7	-	-	-	0	0	-	1	1
The Lizard ...	1034.8	+14	NNW	3	bc	40	97	8	4	-	-	2-3	2-3	2500	1	2
Scilly (St. Mary's)	1035.6	+14	N'E	3	bc	45	92	8	2	6	1	2-3	4-6	2500	1	2
Guernsey ..	1033.4	+20	N'E	1	c	43	85	6	4	-	-	9	9	4000	1	3
Pembroke ...	1035.2	+8	NNE	3	bc	41	92	8	5	4	-	4-6	4-6	2500	1	2
Holyhead ...	1033.9	+12	NW'N	3	c	44	92	8	6	5	-	2-3	7-8	2500	1	2
Chester (Sealand)	1034.6	+32	-	0	bcf	39	92	2	5	3	-	Tr	4-6	4000	0	*
Manchester ...	1034.2	+22	-	0	cf	30	97	2	-	3	-	0	9	-	3	*
Spurn Head ...	1032.0	+20	NW'N	3	bc	38	92	6	-	5	-	0	2-3	-	1	2
Catterick ...	1032.6	+12	W'S	3	c	36	85	8	5	3	-	1	7-8	2500	1	*
Tynemouth ...	1030.6	+6	W	2	bc	37	75	6	2	-	-	2-3	2-3	2500	1	2
St Abbs Head ..	1029.4	-10	WSW	4	c	40	85	8	5	6	-	4-6	9	2500	0	3
Leuchars ...	1028.4	-14	WSW	3	c/r	39	85	8	5	7	-	7-8	9	2500	1	*
Renfrew (Abbots I.)	1030.2	-12	SW	3	z	42	85	6	5	-	1	7-8	7-8	4000	1	*
Eskdalemuir ...	1031.7	0	SSE	1	c	34	85	8	5	4	1	9	9+	2500	1	*
Point of Ayre...	1032.7	+4	WNW	3	c	42	97	8	5	7	-	4-6	9+	4000	1	2
Tiree	1027.4	-14	SW	4	r	47	97	5	-	2	-	10	10	800	1	*
Stornoway ...	1023.6	-16	SW	4	c	46	85	7	5	2	-	4-6	10	2500	1	3
Dalwhinnie ...	1027.9	-12	S	3	c	40	85	7	5	2	-	4-6	10	2500	0	*
Aberdeen ...	1026.2	-20	SW	2	c	41	75	6	5	-	-	9	9	1500	1	1
Wick ...	1022.7	-26	SW	4	c	42	85	8	5	1	-	7-8	10	1500	1	2
Lerwick ...	1016.8	-40	WSW	8	r	44	92	6	6	2	-	4-6	10	800	1	*
Blacksod Point	1031.9	-8	S	3	c	48	97	7	5	-	-	10	10	450	1	3
Malin Head ...	1030.5	-20	SSW	3	c	45	92	7	5	-	-	9	9	2500	1	4
Aldergrove ...	1032.8	-2	WSW	2	c	40	92	7	-	7	-	0	10	-	1	*
Birr Castle ...	1034.4	-4	NW	1	c	39	97	7	5	7	-	4-6	7-8	2500	1	*
Valentia Obsy. †	1035.8	-2	S'W	1	c	42	92	7	5	1	-	4-6	7-8	1500	1	3
Roches Point	1036.0	0	N	2	bc	40	97	8	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)	Night 18h–7h mm. (35)	Sunshine 13th Hrs. (36)
London (Kew)	46	37	21	—	-	3.3
Croydon ...	45	35	29	Tr	-	0.2
S. Farnborough	46	31	25	—	Tr	2.4
Boscombe Down	46	37	31	—	-	4.7
Calshot (Sthmtn.)	48	37	34	—	-	4.3
Lympne ...	45	33	30	0.1	-	4.4
Manston ...	46	35	31	Tr	-	4.5
Shoeburyness ...	46	32	25	0.1	Tr	3.8
Felixstowe ...	46	33	30	0.1	-	*
Gorleston ...	45	34	32	0.5	-	3.5
Mildenhall ...	45	29	22	0.1	Tr	2.8
Cranwell ...	46	33	28	Tr	-	1.9
Birmingham ...	45	37	31	Tr	-	5.4
Upper Heyford	45	36	29	—	-	*
Ross-on-Wye	48	35	26	0.3	-	7.0
Hartland Point	46	42	40	—	-	4.0
Bristol ...	48	33	24	0.3	-	5.5
Portland Bill ...	49	38	*	—	-	*
Plymouth ...	47	40	33	0.4	-	5.1
The Lizard ...	48	39	*	0.1	-	5.4
Scilly (St. Mary's)	49	43	*	1	-	5.4
Guernsey ..	49	41	32	0.2	-	6.6
Pembroke ...	47	40	*	Tr	-	4.4
Holyhead ...	47	42	36	—	-	3.5
Chester (Sealand)	47	31	26	—	Tr	5.1
Manchester ...	47	29	22	—	-	5.2
Spurn Head ...	44	38	*	Tr	0.2	2.2
Catterick ...	47	32	26	—	-	3.4
Tynemouth ...	45	37	33	Tr	-	2.5
St Abbs Head ..	43	37	*	1	-	*
Leuchars ...	47	33	29	0.2	Tr	1.7
Renfrew (Abbots I.)	48	35	28	Tr	-	6.0
Eskdalemuir ...	46	31	22	—	-	5.1
Point of Ayre...	47	35	*	—	-	6.6
Tiree	47	38	36	0.1	Tr	5.4
Stornoway ...	45	39	*	1	1	3.0
Dalwhinnie ...	39	31	23	0.1	-	0.4
Aberdeen ...	42	35	28	0.1	-	0.0
Wick ...	42	35	*	Tr	-	*
Lerwick ...	43	36	*	0.5	1	5.4
Blacksod Point	49	43	*	0.3	Tr	*
Malin Head ...	47	38	*	0.4	-	1.2
Aldergrove ...	47	35	27	0.5	-	2.3
Birr Castle ...	48	34	25	1	-	3.7
Valentia Obsy. †	49	36	31	0.2	Tr	2.3
Roches Point	49	39	*	0.1	Tr	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather. Morning. (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	cbcz.cz	cz	czbmx	46	37	21	-	-	3.3	•	•	4
Croydon	217	cmpr	czqz	qzcbc	45	35	29	Tr	-	0.2	•	•	3
Greenwich (Royal Observatory)...	149	c	cmc	cxf	45	36	27	Tr	-	0.5	75	88	4
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	2.3	•	•	•
Westminster (St James' Park) ...	27	•	•	•	47	39	30		-	2.1	73	87	•
Regents Pk. (Botanic Gardens)‡...	168	•	•	•	46	35	26	-	-	3.2	75	90	•
Camden Square	110	bc	c	•	47	36	28	-	-	•	•	83	•
Kensington	80	c	bcc	•	47	37	28	-	-	3.5	66	83	•
Hampstead Observatory	450	bcb	bc	bc	45	34	26	Tr	-	3.6	•	85	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0.3	17-19h 13th	0.3	2-4h. 14th

Kew Observatory. Max.	Time.	Min.	Time.
0.3	19-20h 13th	0.1	0-3h. 14th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 13th February					7h. G.M.T. 14th February					Past 24 Hours.			
	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Paris	1022.7	NNW	5	c	41	1031.4	N	3	b	34	43	34	0.2	Tr
Brussels	1019.4	NW	3	o	41	1031.8	NNE	1	bc	32	43	30	1	-
Berlin	1004.0	WNW	6	r	39						*			
Zürich	1020.0	W	1	bc	37	1025.8	NW	2	c	32	41	32	1	0.4
Rome	1011.4	SW	3	o	54						*	*	0.6	

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 15th February, 1939.

No 28209.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1033.1	−4	SW'W	2	z_0	47	65	6	4	3	6	1	7-8	2500
	Croydon	1034.0	−14	W'S	2	z_0	48	65	5	1	3	—	Tr	4-6	4000
	S. Farnborough	1034.2	−18	SW	1	c	50	55	7	1	—	2	2-3	9	2500
	Boscombe Down	1035.2	−10	W'S	1	z_0	46	65	6	—	7	4	0	4-6	—
	Calshot (Sthmtn.)	1035.1	−6	—	0	cfs	48	65	7	1	5	5	1	7-8	4000
	Lympne	1034.8	−4	NNW	1	c	44	65	8	2	—	2	4-6	7-8	2500
	Manston	1033.9	−10	NW'W	2	z_0	45	65	6	1	5	1	2-3	2-3	1500
2	Shoeburyness	1033.8	−6	SSW	2	bc	46	65	7	1	—	8	1	2-3	2500
	Felixstowe	1032.7	+6	WNW	2	bc	45	65	7	1	5	8	Tr	4-6	2500
	Gorleston	1032.2	−12	W'N	2	bc	45	65	6	1	5	—	2-3	4-6	2500
	Mildenhall	1033.1	−16	SW'W	3	z_0	46	75	6	1	—	9	Tr	4-6	4000
	Cranwell	1032.8	+2	WSW	3	z_0	45	55	6	—	7	—	0	9+	—
3	Birmingham	1033.8	−4	WSW	3	c	43	75	6	—	7	—	0	9+	—
	Upper Heyford	1034.2	−12	WSW	2	z_0	47	65	6	—	3	8	0	7-8	—
4	Ross-on-Wye	1034.1	−6	W'S	2	c	49	65	7	—	7	7	0	10	—
5	Hartland Point	1035.5	0	WNW	2	c	47	65	8	1	—	7	2-3	9+	1500
	Bristol	1035.2	−2	WSW	2	z_0	47	75	7	1	4	8	Tr	7-8	2500
	Portland Bill	1034.9	+6	SE	2	c	47	85	7	5	—	—	10	10	1500
	Plymouth	1035.8	0	SW	2	c	49	75	8	7	—	6	2-3	7-8	2500
	The Lizard	1036.4	0	SW	2	bc	49	75	8	8	6	—	4-6	4-6	2500
	Scilly (St. Mary's)	1036.8	+4	N'E	2	bc	49	85	8	2	—	6	2-3	4-6	2500
	Guernsey	1035.3	+2	NE	1	bc	48	65	7	1	1	—	Tr	2-3	2500
6	Pembroke	1035.9	+6	WNW	2	c	47	85	8	5	6	2	2-3	7-8	2500
7	Holyhead	1033.8	−2	SW'W	4	c	47	75	8	5	9	2	4-6	9+	4000
	Chester (Sealand)	1033.9	−8	—	0	z_0	47	75	6	—	7	—	0	10	—
8	Manchester	1033.6	−6	E	1	cf−	39	97	2	5	1	—	9+	10	800
10	Spurn Head	1032.4	−2	WSW	2	c	45	75	6	—	2	—	0	10	—
	Catterick	1030.2	−10	W	2	c	47	75	8	5	7	—	4-6	9+	5700
	Tynemouth	1028.8	−10	W	4	c	46	65	6	5	—	—	9+	9+	2500
11	St. Abbs Head	1026.4	−10	WNW	4	c	39	75	9	5	6	—	7-8	9+	2500
	Leuchars	1025.3	−18	SW	4	c	46	92	7	5	7	—	2-3	10	1500
12	Renfrew (Abbots I.)	1028.2	−14	WSW	4	c/r	47	92	7	8	—	3	9	9+	800
	Eskdalemuir	1029.4	−12	SSW	4	d_0d_0	42	85	6	—	2	—	10	10	450
	Point of Ayre	1031.7	−2	W'S	4	c	48	75	8	5	—	—	9+	9+	2500
13A	Tiree	1026.8	−2	SW'W	4	id	48	97	6	5	—	—	10	10	1500
13B	Stornoway	1021.8	−2	WSW	6	c	49	86	7	8	7	—	7-8	9+	2500
15	Dalwhinnie	1025.9	−4	W	4	c	47	85	7	5	2	—	7-8	10	2500
	Aberdeen	1023.1	−16	SW	3	c	46	85	6	5	9	—	1	9+	4000
	Wick	1020.9	−8	W	4	c	50	85	8	5	2	—	9	10	1500
16	Lerwick	1012.9	−14	WSW	8	r_0r_0	47	97	6	6	2	—	4-6	10	450
17	Blacksod Point	1030.7	−8	SW	3	id_0	50	92	7	9	—	—	9	9	800
18	Malin Head	1029.2	−6	W	4	c	49	85	7	8	—	—	9	9	4000
	Aldergrove	1031.3	−10	WSW	3	z_0	47	92	6	5	—	—	9+	9+	1500
19	Birr Castle	1034.3	0	WSW	2	c	49	92	8	5	1	—	7-8	10	2500
20	Valentia Obsy. †	1035.9	−2	SSW	3	d_0d_0	50	92	6	5	—	—	10	10	450
	Roches Point	1035.7	−4	WSW	3	bc	49	85	8	5	3	—	2-3	4-6	2500

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1033.5	−4	SW	2	z_0	44	75	5	5	7	—	2-3	4-6	2500	1	*
	Croydon	1033.3	−4	SW'W	3	m	44	65	4	5	7	6	1	7-8	5700	1	*
	S. Farnborough	1034.1	+2	SW	1	z_0	42	75	6	—	7	—	0	9+	—	0	*
	Boscombe Down	1034.7	+4	W	2	z_0	43	85	6	—	7	8	0	9+	—	1	*
	Calshot (Sthmtn.)	1034.4	+2	SW	3	z_0	43	85	6	—	7	8	0	9	—	1	2
	Lympne	1034.2	0	SW	2	c	40	85	7	5	—	6	4-6	9+	4000	1	§ 1
	Manston	1033.9	0	SSW	1	z_0	40	75	6	—	7	—	0	10	—	1	*
2	Shoeburyness	1033.3	−2	—	0	bcf+	43	75	3	—	4	8	0	4-6	—	1	*
	Felixstowe	1033.1	−2	W	2	z_0	44	65	5	5	—	7	1	9+	4000	0	1
	Gorleston	1031.8	−2	WSW	2	c	44	65	6	5	—	—	9+	9+	2500	0	2
	Mildenhall	1031.9	−8	SW'W	2	z_0	43	75	6	5	2	—	9+	10	5700	1	*
	Cranwell	1031.2	−10	SW'W	2	z_0	43	75	5	5	2	—	4-6	10	4000	1	*
3	Birmingham	1032.3	−2	WSW	2	z_0	45	75	5	—	7	—	0	10	—	1	*
	Upper Heyford	1033.3	−4	WN	2	z_0	43	85	6	—	9	6	0	7-8	—	1	*
4	Ross-on-Wye	1033.0	−4	SSW	2	c	44	75	8	5	7	2	2-3	9+	2500	1	*
5	Hartland Point	1035.1	0	W	2	c	44	92	8	1	4	9	2-3	7-8	1500	1	2
	Bristol	1034.2	0	SW	3	z_0	43	85	6	—	7	—	0	7-8	—	1	*
	Portland Bill	1034.3	−8	WNW	2	c	45	92	7	5	—	—	7-8	7-8	1500	1	3
	Plymouth	1035.3	0	WSW	1	c	45	85	6	4	4	6	2-3	7-8	2500	1	1
	The Lizard	1036.0	−10	N'W	2	bc	44	85	8	4	4	—	2-3	2-3	2500	1	1
	Scilly (St. Mary's)	1036.0	0	NW	3	bc	46	92	8	1	—	6	1	4-6	4000	1	2
	Guernsey	1035.2	+6	—	0	bc	45	75	6	—	1	—	0	4-6	—	1	2
6	Pembroke	1034.1	−8	WNW	3	c	46	85	8	—	7	8	0	7-8	—	1	2
7	Holyhead	1032.2	−4	SW	3	c	46	85	8	5	—	—	10	10	2500	1	2
	Chester (Sealand)	1032.1	−6	WSW	1	c	48	75	7	5	—	—	10	10	2500	0	*
8	Manchester	1031.7	−8	W	2	c/d	44	85	5	5	7	—	9	10	2500	1	*
10	Spurn Head	1029.8	−10	WSW	3	m	43	85	4	5	2	—	7-8	10	1500	0	2
	Catterick	1028.2	−10	W	4	c	45	85	7	5	3	—	4-6	7-8	1500	1	*
	Tynemouth	1027.1	−10	W	3	c	48	85	6	5	2	—	7-8	9+	1500	1	2
11	St. Abbs Head	1024.8	0	WNW	5	c	49	75	9	8	6	—	4-6	7-8	1500	0	3
	Leuchars	1023.4	−2	W	4	c	49	75	9	4	9	—	Tr	9	2500	1	*
12	Renfrew (Abbots I.)	1027.2	−8	W	5	c	48	85	8	8	6	1	4-6	7-8	1500	1	*
	Eskdalemuir	1027.5	−6	SW	3	c	46	85	7	5	—	6	9	9+	1500	1	*
	Point of Ayre	1030.0	−4	W	4	c	46	92	8	6	7	—	4-6	9+	1500	0	2
13A	Tiree	1025.8	−4	SW	4	dd	48	97	6	—	2	—	10	10	1500	1	3
13B	Stornoway	1021.5	−4	SW	5	c/d	49	85	7	5	7	—	9	10	2500	1	3
15	Dalwhinnie	*	−8	SW	2	c	45	75	7	5	4	1	4-6	9+	2500	0	*
	Aberdeen	1022.2	+2	—	0	bcf+	45	97	3	5	3	—	Tr	2-3	4000	1	1
	Wick	1019.5	+2	W	4	c	48	85	8	5	7	8	4-6	9	800	1	2
16	Lerwick	1013.2	+10	WSW	8	c/r	47	97	6	8	2	—	4-6	10	450	1	*
17	Blacksod Point	1030.1	−6	W	3	c	49	92	7	9	—	—	10	10	800	1	3
18	Malin Head	1028.8	−8	W	4	c/d	47	92	6	8	—	—	9+	9+	800	1	3
	Aldergrove	1030.3	−2	WSW	2	c	48	92	8	5	—	—	9+	9+	1500	1	*
19	Birr Castle	1032.1	−4	SW	1	c	50	85	7	5	1	—	7-8	10	1500	1	*
20	Valentia Obsy. †	1034.5	−2	SSW	3	z_0	49	97	6	5	—	—	10	10	450	1	2
	Roches Point	1034.2	−4	W	3	c	50	92	8	5	—	—	7-8	7-8	1500	1	2

PAST 24 HOURS. — Weather

District	Stations	7h.—13h. 14th (37)	13h.—18h. 14th (38)	18h. 14th to 1h. 15th (39)	1h.—7h. 15th (40)
1	London (Kew)	$bmbcm_0$	$bccybcz_0$	$bccz_0$	cm_0w
	Croydon	bfbc	bcz_0y	cz_0	cbm_0wcm_0
	S. Farnborough	fbcb,cy	cybcc	cz_0em_0	$cbccm_0$
	Boscombe Down	$cbcm_0$	bcm_0cm	cm_0bcm_0c	c
	Calshot (Sthmtn.)	cbm_0cm_0	cm_0	cm_0bcm_0cm	cid_0m_0
	Lympne	bx,cmbc	bc⊕c	$cbcm_0$	$obcm_0$
	Manston	b,c,bcm_0	$bccyz_0$	cz_0b,cm_0	ocm_0
2	Shoeburyness	bm_0bcb	bcyff	bcfcm	cbcm
	Felixstowe	bm_0,cm_0	$bcccm_0$	cm_0cmff	ff,bm_0
	Gorleston	bcfm	$bccz_0$	$cbccz_0$	$cbccz_0$
	Mildenhall	bfbmbcmc	c	cm_0	cm_0bcm_0w
	Cranwell	$bmxcz_0$	cz_0ycz_0	cbm_0cm_0	bcm_0cm_0w
3	Birmingham	cf	cm	c	cb
	Upper Heyford	$bcmzz_0$	$bccz_0$	$bccm_0$	cm_0bmfcf
4	Ross-on-Wye	$ijfbcm_0c$	c	ccbc	bcbbw
5	Hartland Point	bcc	c	cbcc	cid_0
	Bristol	bcbbc	cm_0	cbcc	cm_0
	Portland Bill	c	c	bcbc	bcc
	Plymouth	$bbcm_0c$	cm_0bcm_0	$bbcm_0$	cm
	The Lizard	bc	bc	bcb	bbcc
	Scilly (St. Mary's)	bccbc	bccbc	bbccw	c
	Guernsey	cbc	bcbbc	bcbw	bwbc
6	Pembroke	bcc	c	cq	cddif
7	Holyhead	m_0c	c	cbw	bwc
	Chester (Sealand)	bcfFx	cz_0	cbc	bcwbfm
8	Manchester	cFofcf	$cffz_0m_0d_0$	cq_0em	cm_0m_0
10	Spurn Head	cz_0	cmc	cbmw	bccw
	Catterick	c	c	fcb	bbc
	Tynemouth	cmc	c	c	cbc
11	St. Abbs Head	c	c	cq	c
	Leuchars	c	c	cbc	bcc
12	Renfrew (Abbots I.)	$m_0d_0od_0c$	c	c	c
	Eskdalemuir	cod_0d_0	od_0dc	c	c
	Point of Ayre	c	c	cbcc	c
13A	Tiree	odr_0id	oidmd	oid_0D	od_0m
13B	Stornoway	cpr	cpr_0id_0	c	$cr_0r_0id_0$
15	Dalwhinnie	clro	c	*	c
	Aberdeen	cz_0	czbcf	bcffb	bc
	Wick	c	cq	c	c
16	Lerwick	rir_0r_0	r_0phrr	r_0r_0dr	$drir_0$
17	Blacksod Point	idc	id_0	id	id_0
18	Malin Head	cid_0c	cid_0c	cid_0c	c
	Aldergrove	c,r_0,id_0	$r_0cm_0cid_0c$	c	c
19	Birr Castle	c	cid_0c	c	c
20	Valentia Obsy. †	$cm_0d_0d_0$	d_0d_0idm	omd_0d_0id	idcm
	Roches Point	bc	bcc	cw	cwc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_0, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_0/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_0, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

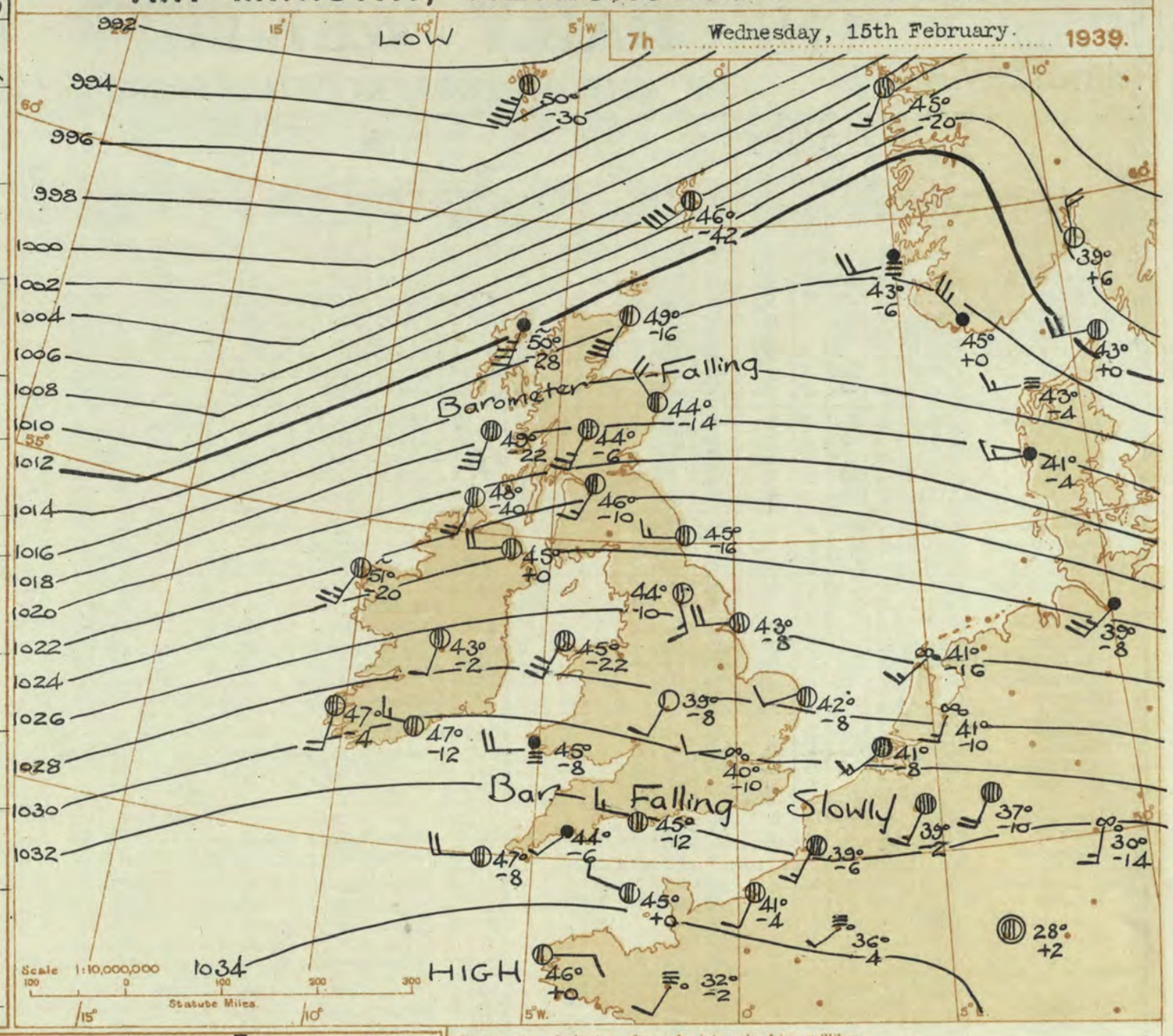
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 14th February 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 13th to 9h. 14th	Temperature. (°F.) Max. 9h.—17h. 14th	Rainfall. (mm.) Night. 17h. 13th to 9h. 14th	Rainfall. (mm.) Day. 9h.—17h. 14th	Sunshine. (Hrs.) Sunrise to 17h. 14th	Sunshine. (Hrs.) Sunrise to Sunset. 13th
1	Tunbridge W.	b	bbc	27	47	—	—	6.9	1.4
	Bournemouth	b	bcco	36	48	—	—	4.4	5.8
	Ventnor ...	cobz	bbz	36	50	—	—	5.9	5.7
	Southsea ...	cmbc	bcc	37	49	—	—	5.4	5.5
	Bognor Regis	bc	bcc	36	48	—	—	6.3	4.1
	Littlehampton	bc	bc	34	51	—	—	7.0	3.6
	Worthing ...	b	bbc	35	49	—	—	7.6	4.7
	Brighton ...	b	bbc	36	48	—	—	6.6	5.0
	Eastbourne† ...	b	bbcb	36	49	—	—	7.7	5.1
	Hastings† ...	bbc	bcc	34	48	—	—	7.3	4.4
	Folkestone ...	m.b	bbcco	36	48	—	—	6.9	4.4
	Dover ...	bc	bcc	36	47	—	—	7.0	4.8
	Deal	bbc	bcbbc	34	46	—	—	6.1	4.6
	Ramsgate ...	bc	bcm	32	47	—	—	5.8	4.7
	Margate ...	bc	bcc	39	46	—	—	7.0	4.6
2	Southend ...	bbm	bbf	35	51	Trace	—	6.2	3.7
	Clacton-on-Sea	bcm	bcbc	33	47	Trace	—	6.2	5.0
	Dovercourt ...	xbc	bcc	34	47	—	—	5.6	5.1
	Lowestoft ...	bbc	bcbc	32	47	—	—	3.7	3.5
	Skegness ...	bbc	c	31	46	—	—	3.4	4.2
	Mablethorpe...	bc	com.	30	46	—	—	3.1	1.9
	Cleethorpes ...	bcc	c	34	46	Trace	—	2.5	1.9
3	Leamington S.	c	c	33	46	—	—	0.0	2.6
4	Cheltenham†	m.bcc	c	26	47	—	—	1.6	1.2
5	Bath	b	bbcc	33	50	—	—	4.8	5.8
	Weymouth ...	b	bm	38	49	—	—	5.3	7.6
	Jersey ...	cbc	cbc	43	50	—	—	5.8	7.0
	Torquay ...	wb	bbc	37	49	—	—	7.0	7.0
	Falmouth	b	b	39	51	—	—	7.5	4.9
	Penzance ...	bcb	bbcb	42	52	—	—	7.5	4.9
	St. Ives ...								
	Bude... ...	b	bc	32	48	—	—	6.5	4.5
	Ilfracombe ...	cbcz	cbc	40	46	—	—	4.5	2.8
6	Aberystwyth	zbcc	c	35	47	—	—	2.5	0.7
7	Llandudno ...	c	c	38	47	—	—	0.2	2.5
	Colwyn Bay...	bcc	c	38	50	—	—	0.1	0.4
	Rhyl	bcm.c	c	34	49	—	—	0.0	1.1
8	Wallasey ...	mc	cd	35	46	—	Trace	0.0	5.9
	Southport ...	cfc	cp.c	32	45	Trace	Trace	0.0	7.8
	Blackpool ...	cfc	cd.pc	32	45	Trace	Trace	0.0	7.8
	Morecambe ...	bbc	c	31	44	—	Trace	0.0	6.6
9	Ilkley... ...	c	c	29	45	—	—	0.4	3.4
	Harrogate ...	bcc	c	32	44	—	—	1.3	4.8
10	Berwick-on-T.	c	c	35	49	—	—	0.7	1.7
11	Dunbar ...	cm.	bcm.	35	49	—	—	0.3	0.9
12	Troon... ...	ocopo	oco	30	49	—	Trace	0.0	6.2
	Douglas ...	bcgx	c	36	47	Trace	—	0.6	4.0

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



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 15th February, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Freshening southwest winds, strong locally; bright periods, local drizzle and fog near south and west coasts; local mist inland at night; mild.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man	Southwest winds, strong or gale in exposed places; cloudy, dull at times, with occasional rain or drizzle; mild.
13 A. W. Scotld. B. N.W. Scotland. ↓ 14 Mid Scotland 15 N. E. Scotland ↓ 16 Orkney and Shetland ↓ 17 N. W. Ireland ↓	Southwest winds, strong or gale, veering moderating; cloudy, dull at times with occasional rain, fairer later; mild at first but temperature falling to the seasonal average.
18 N. E. Ireland ↓	As 11 - 12.
19 S. E. Ireland 20 S. W. Ireland	As 1 - 10.

GENERAL INFERENCE.

An anticyclone is centred southwest of the British Isles and pressure is low to the North. There will be occasional rain in the Northwest but elsewhere it will be mainly fine and mild.

FURTHER OUTLOOK.

Mainly fair and mild in the Southeast, unsettled in the Northwest with tendency for less mild conditions to spread southeastwards.

Times of Issue of Gale Warnings.

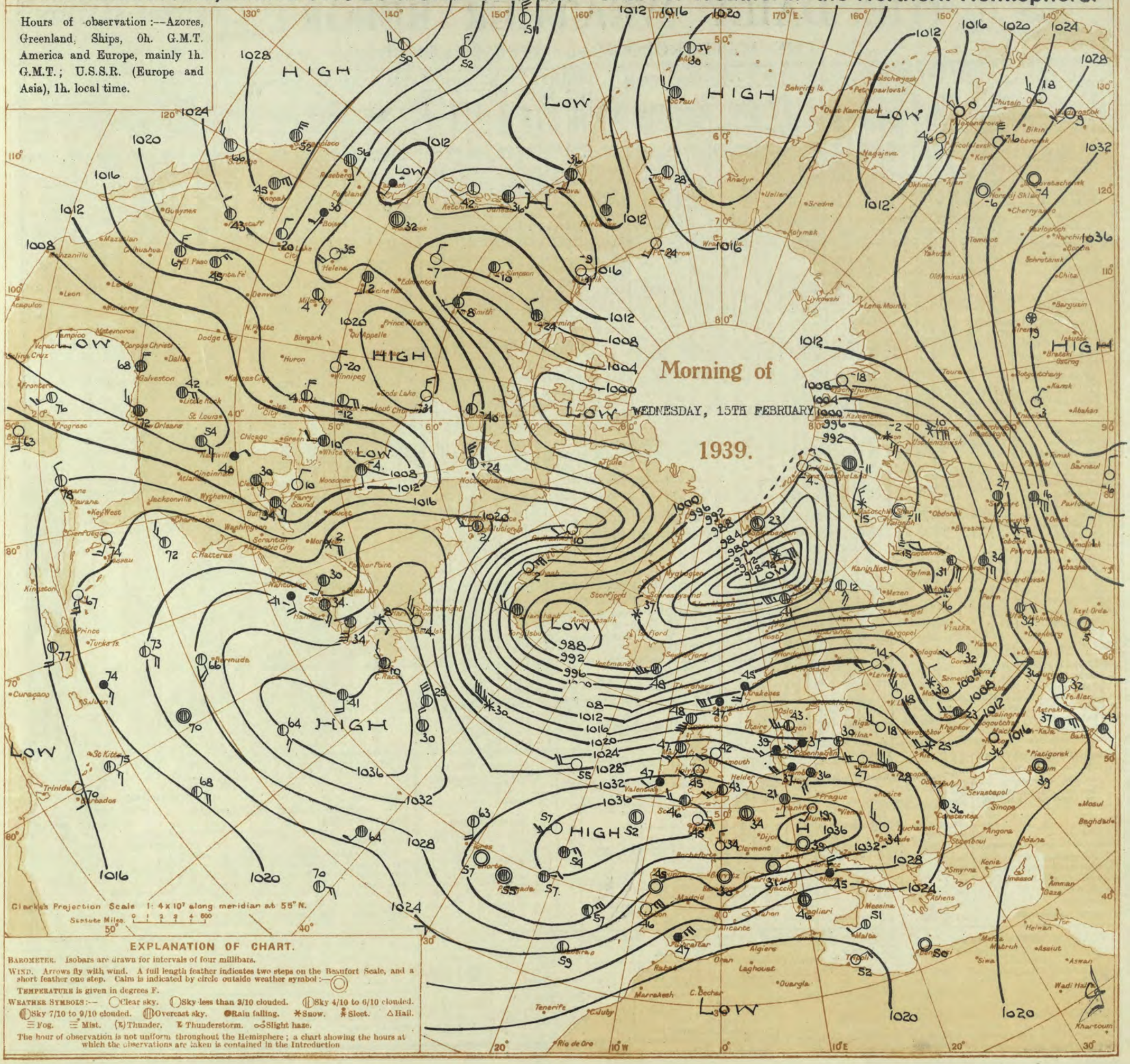
↓ South Cone hoisted at 0830 on 14/2/39 in district 16, and at 0820 on 15/2/39 in districts 13, 15, 17 and 18.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 15th February, 1939.
No. 28209.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1032·9	-10	WSW	3	z₀	43	85	6	5	-	-	9+	9+	4000
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1032·8	-12	W'S	3	z₀	40	85	6	5	-	-	10	10	4000
	Manston	154	1032·1	-10	SW'W	3	z₀	41	85	5	5	-	-	10	10	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1029·8	-8	W'S	2	c	43	75	6	5	-	-	10	10	2500
	Mildenhall	19	1030·1	-12	SWW	3	z₀	45	85	6	5	-	-	10	10	2500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1033·9	-10	W	3	c	45	97	8	5	-	-	4-6	9+	5700
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1033·7	-4	WNW	3	bc	43	85	8	4	-	-	2-3	2-3	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1036·0	0	-	0	b	45	92	8	-	-	-	0	0	-
	Scilly (St. Mary's)	163	1035·8	-6	WNW	3	c	46	92	8	5	3	-	2-3	7-8	2500
	Guernsey	175	1035·3	0	WSW	1	b	42	92	8	-	-	-	0	0	-
6	Pembroke	142	1033·2	-2	WNW	4	cq	47	92	7	8	2	-	4-6	9	2500
7	Holyhead	26	1030·3	-14	SW	2	b	45	92	8	5	-	-	1	1	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1027·8	-8	W'S	2	b	42	92	5	-	-	-	0	0	-
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1025·3	-4	W	3	c	48	75	7	2	-	-	7-8	7-8	2500
11	St Abbs Head	280	1023·4	-6	W	6	bcq	47	75	8	5	4	9	2-3	4-6	2500
	Leuchars	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1029·0	-4	W'N	4	c	47	92	8	5	-	-	9+	9+	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1017·4	-24	SSW	7	c	48	85	7	5	-	-	7-8	7-8	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1018·1	-14	SW	3	bc	47	92	8	5	1	-	2-3	4-6	1500
16	Lerwick	156	1012·6	-6	WSW	8	dr	47	97	5	6	2	-	4-6	10	450
17	Blacksod Point	18	1027·0	-20	SW	5	c	49	85	7	9	-	-	10	10	1500
18	Malin Head	84	1026·1	-18	SW	3	c	47	85	7	4	-	-	7-8	7-8	4000
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1032·8	-4	WSW	2	dd	47	97	6	5	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low. (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1030·5	-8	SW'W	2	z₀	42	92	6	5	-	-	10	10	1500	1	*
Croydon	1030·2	-10	W	2	z₀	40	97	5	5	-	-	10	10	220	1	*
S. Farnborough	1030·2	-8	W'S	2	z₀	43	92	6	5	-	-	10	10	800	1	*
Boscombe Down	1030·9	-6	WNW	3	c	44	97	7	5	-	-	10	10	1500	1	*
Calshot (Sthmtn.)	1031·2	-4	SW	3	°/d	41	92	7	5	-	-	10	10	800	1	§2
Lympne	1031·0	-4	WSW	2	z₀	37	92	5	5	3	-	2-3	4-6	2500	1	1
Manston	1029·6	-10	WSW	3	z₀	39	85	5	5	-	-	7-8	7-8	2500	1	*
Shoeburyness	1029·5	-6	WSW	3	bc	40	92	6	-	4	-	0	2-3	-	1	*
Felixstowe	1029·0	-4	W	3	z₀	42	85	5	5	-	5	1	2-3	2500	0	2
Gorleston	1027·6	-8	W'S	2	c	42	85	6	5	8	-	2-3	7-8	2500	0	2
Mildenhall	1027·9	-6	SW	3	z₀	38	97	6	5	-	5	1	2-3	4000	1	*
Cranwell	1027·1	-8	WSW	3	z₀	41	97	6	5	7	1	Tr	9+	4000	1	*
Birmingham	1028·8	-8	SW	2	b	39	97	5	5	7	-	1	1	450	1	*
Upper Heyford	1029·9	-10	W'S	2	f+	37	97	2	-	-	-	10	10	<150	1	*
Ross-on-Wye	1029·0	-8	WSW	1	b	39	92	8	-	1	-	0	Tr	-	1	*
Hartland Point	1031·0	-12	SW	4	id₀	45	97	7	6	2	-	7-8	10	800	1	3
Bristol	1030·6	-8	W	5	c	44	92	7	5	2	-	7-8	10	1500	1	*
Portland Bill	1032·0	-12	WNW	3	c	45	85	8	5	-	-	10	10	2500	1	3
Plymouth	1032·6	-6	WSW	1	id₀	44	97	6	5	2	-	9+	10	800	1	1
The Lizard	1033·2	-12	WNW	3	c	46	92	7	8	2	-	7-8	9+	1500	1	2
Scilly (St. Mary's)	1033·1	-8	W	4	c	47	97	8	5	-	-	9+	9+	2500	1	3
Guernsey	1033·2	0	WNW	1	c	45	85	9	8	-	-	9+	9+	2500	1	1
Pembroke	1030·8	-8	W	4	d₁	45	97	6	8	2	-	4-6	10	1500	1	2
Holyhead	1026·6	-22	SW'S	6	c	45	97	7	5	-	-	10	10	450	1	3
Chester (Sealand)	1027·4	-32	SE	2	m/f	37	92	4	-	3	-	0	1	-	0	*
Manchester	1027·6	-18	SSW	1	fq	43	92	4	5	-	-	9	9	1500	1	*
Spurn Head	1024·9	-8	W	4	c	43	92	6	-	9	3	0	7-8	-	1	3
Catterick	1024·0	-10	S'E	3	bc	44	92	8	5	9	-	2-3	4-6	1500	1	*
Tynemouth	1022·3	-16	W	3	bc	45	85	7	2	4	-	4-6	4-6	1500	1	1
St Abbs Head	1020·9	-20	WNW	4	c	45	75	8	8	6	-	4-6	9	1500	0	3
Leuchars	1019·3	-10	WSW	5	c	45	85	8	5	7	6	2-3	7-8	2500	1	*
Renfrew (Abbots I.)	1022·9	-10	SW	3	c	46	92	7	5	-	-	9+	9+	2500	1	*
Eskdalemuir	1023·9	-6	SE	3	c	43	85	7	5	-	-	10	10	1500	1	*
Point of Ayre	1026·0	-8	W'N	4	c	46	92	8	5	-	-	10	10	2500	0	2
Tiree	1018·0	-22	SSW	6	o	49	85	6	5	-	-	10	10	1500	1	*
Stornoway	1012·0	-28	SSW	7	id₀	50	92	7	5	2	-	7-8	10	2500	1	4
Dalwhinnie	1019·5	-6	SW	5	c	44	85	7	4	4	-	9	10	2500	0	*
Aberdeen	1015·7	-14	NWW	4	e	44	85	8	-	3	-	0	9	-	1	1
Wick	1012·6	-16	SW	6	c	49	75	8	5	1	4	4-6	9	1500	1	2
Lerwick	1005·1	-42	WSW	8	c	46	97	7	8	2	-	7-8	10	800	1	*
Blacksod Point	1022·3	-20	SW	5	c	51	92	7	5	-	-	10	10	800	1	4
Malin Head	1021·9	-40	SSW	4	c	48	92	8	5	-	-	9	9	5700	0	3
Aldergrove	1025·2	0	W	4	c	45	92	7	5	-	-	10	10	1500	1	*
Birr Castle	1027·7	-2	SSW	2	c	43	97	7	5	-	-	9	9	1500	1	*
Valentia Obsy. †	1029·9	-4	S'W	4	c	47	97	6	5	-	-	7-8	7-8	800	1	2
Roches Point	1030·3	-12	W'N	3	c	47	92	8	5	-	-	9+	9+	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 14th. Hrs. (36)
London (Kew)	48	39	34	—	-	6·0
Croydon	49	40	37	—	-	3·8
S. Farnborough	50	36	35	—	-	5·9
Boscombe Down	47	38	34	—	-	4·4
Calshot (Sthmtn.)	50	38	35	—	Tr	5·4
Lympne	46		30	—	-	5·3
Manston	46	38	35	—	-	5·6
Shoeburyness	48	40	35	—	-	6·2
Felixstowe	47	41	38	—	-	*
Gorleston	46	41	39	—	-	3·2
Mildenhall	48	38	34	—	Tr	3·2
Cranwell	46	40	39	—	-	3·0
Birmingham	45	38	35	—	-	0·1
Upper Heyford	47	33	26	—	Tr	*
Ross-on-Wye	49	36	26	—	-	4·4
Hartland Point	48	44	40	—	0·6	5·1
Bristol	48	41	38	—	-	5·0
Portland Bill	47	39	*	—	-	*
Plymouth	49	41	34	—	-	7·0
The Lizard	50	41	*	—	-	7·6
Scilly (St. Mary's)	51	43	*	—	-	8·5
Guernsey	49	41	34	—	-	5·3
Pembroke	47	45	*	—	0·2	2·6
Holyhead	47	42	37	—	-	0·7
Chester (Sealand)	49	34	27	—	-	0·0
Manchester	46	43	35	Tr	Tr	0·0
Spurn Head	45	41	*	—	Tr	1·3
Catterick	47	43	37	—	-	0·1
Tynemouth	48	45	39	—	-	0·0
St Abbs Head	50	44	*	—	-	*
Leuchars	50	44	41	—	-	0·2
Renfrew (Abbots I.)	49	45	43	Tr	-	0·1
Eskdalemuir	46	42	41	0·3	-	0·0
Point of Ayre	48	45	*	—	-	0·1
Tiree	49	46	45	1	0·6	0·0
Stornoway	50	47	*	0·1	0·1	0·1
Dalwhinnie	49	42	37	Tr	-	1·7
Aberdeen	48	36	31	—	-	0·1
Wick	51	44	*	—	-	*
Lerwick	48	36	*	0·6	0·4	0·0
Blacksod Point	50	43	*	0·1	Tr	*
Malin Head	49	45	*	0·3	Tr	0·0
Aldergrove	49	45	43	Tr	-	0·3
Birr Castle	50	42	34	Tr	-	0·2
Valentia Obsy. †	52	46	43	Tr	0·3	0·2
Roches Point	51	45	*	—	Tr	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather: Morning (24 hrs. ended 9h.)	Weather: Afternoon	Weather: Night	Temperature: Day Max. °F.	Temperature: Night Min. °F.	Temperature: Min. on Grass °F.	Rainfall: Day mm.	Rainfall: Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	bmbcm	bccybcz	bcczm	48	39	34	-	-	6·0	•	•	6
Croydon	217	bfbc	bczy	czmw	49	40	37	-	-	3·8	•	•	6
Greenwich (Royal Observatory)	149	bf	bfcm	cfcbcm	47	39	33	-	-	1·2	53	89	6
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	2·1	•	•	•
Westminster (St. James' Park)	27	•	•	•	49	40	32	-		2·9	59	92	•
Regent's Pk. (Botanic Gardens)‡	168	•	•	•	48	36	30	-	-	2·9	56	92	•
Camden Square	110	b	bc	•	50	39	33	-	-	•	•	90	•
Kensington	80	bc	bcz	•	49	40	34	-	-	5·5	At 18h 59	90	•
Hampstead Observatory	450	bc	bc	o	47	37	33	-	-	6·0	•	99	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

	Max.	Time.	Min.	Time.
South Kensington	0·3	18-20h 14th	0·3	3-5h 15th
Kew Observatory	0·5	18h 14th	0·1	3-5h 15th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 14th February: Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 15th February: Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1034·2	N	2	bc	41	1033·4	WSW	1	m	36	45	36	-	-
Brussels	1033·2	WNW	1	c	39	1030·4	SW	3	o	39	45	36	-	-
Berlin	1028·8	WSW	3	bc	36	1025·2	WSW	5	c	37	37	34	-	Tr
Zurich	1031·8	ENE	3	b	32	1033·2	NE	1	bc	25	41	23	-	-
Rome	1015·4	NE	2	c	50	1023·1	NNE	4	d	45	*	*	-	1

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

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

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. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 16th February, 1939.
No. 28210

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1027.7	–16	WSW	2	zo	51	75	6	4	–	–	Tr	Tr	4000
	Croydon	1028.1	–14	WSW	3	zo	50	75	6	–	4	–	0	Tr	–
	S. Farnborough	1028.3	–14	W	3	b	52	75	7	–	4	–	0	Tr	–
	Boscombe Down	1029.7	–10	WN	5	c	50	85	8	7	–	–	7-8	7-8	1500
	Calshot (Sthmtn.)	1029.5	–10	W	3	bc	51	75	8	4	4	–	1	2-3	2500
	Lympne	1029.0	–10	WSW	3	c	44	92	6	5	–	–	9+	9+	800
	Manston	1027.8	–14	SW	3	zo	46	85	6	5	–	–	4-6	4-6	800
2	Shoeburyness	1027.4	–16	WSW	3	zo	50	75	6	–	4	–	0	Tr	–
	Felixstowe	1027.1	–10	W'S	3	zo	50	75	6	–	4	5	0	Tr	–
	Gorleston	1025.0	–8	W	3	bc	53	65	6	–	4	–	0	2-3	–
	Mildenhall	1026.5	–10	WSW	4	bc	53	75	7	–	–	4	0	4-6	–
	Cranwell	1025.3	–6	SW'W	4	zo	51	75	6	–	4	–	0	Tr	–
3	Birmingham	1026.5	–10	SW	4	bc	53	65	8	–	–	6	0	2-3	–
	Upper Heyford	1027.7	–10	W'S	3	b	55	65	7	–	5	–	0	Tr	–
4	Ross-on-Wye	1027.0	–16	SW	3	bc	55	65	8	–	–	5	0	2-3	–
5	Hartland Point	1029.7	–12	WSW	4	dodo	45	97	5	5	–	–	7-8	7-8	800
	Bristol	1029.9	–6	W	4	c	46	92	8	5	2	–	7-8	9+	800
	Portland Bill	1030.3	–6	WNW	3	c	47	85	8	5	7	–	7-8	10	2500
	Plymouth	1031.3	–12	NW	3	c	49	85	7	5	1	–	9+	10	1500
	The Lizard	1032.1	–8	WN	4	ido	47	97	7	5	2	–	7-8	10	1500
	Scilly (St. Mary's)	1032.0	–8	W	4	c/d	48	97	7	5	2	–	7-8	10	1500
	Guernsey	1031.9	–8	W	2	ido	47	92	7	5	–	–	10	10	2500
6	Pembroke	1029.1	–4	WNW	4	cif	46	97	6	8	–	–	10	10	1500
7	Holyhead	1025.2	–22	SSW	5	c	45	92	7	5	–	–	9+	9+	450
	Chester (Sealand)	1026.0	–12	W	1	bc	54	65	8	–	3	9	0	4-6	–
8	Manchester	1025.9	–10	SW'W	1	m	47	85	4	–	–	1	0	4-6	–
10	Spurn Head	1024.0	–4	WSW	3	c	49	92	6	–	–	7	0	10	–
	Catterick	1022.6	–10	SW	3	c	49	85	8	5	7	–	2-3	7-8	1500
	Tynemouth	1020.6	–6	W	4	c	50	65	7	8	4	–	4-6	7-8	2500
11	St. Abbs Head	1016.2	–32	SW	6	cq	47	85	8	5	6	–	4-6	7-8	2500
	Leuchars	1015.7	–26	WSW	7	c	50	65	7	5	–	6	4-6	7-8	800
12	Renfrew (Abbots I.)	1018.9	–18	SW	5	id	48	92	5	6	–	–	10	10	800
	Eskdalemuir	1020.1	–26	SW	6	dodo	44	92	6	–	2	–	10	10	220
	Point of Ayre	1022.9	–22	W'S	6	c	49	85	7	5	–	–	10	10	1500
13A	Tiree	1014.4	–10	SW'S	6	c	51	92	6	5	–	–	7-8	7-8	1500
13B	Stornoway	1009.4	–28	SW	7	c/pr	48	85	7	8	7	–	4-6	7-8	2500
15	Dalwhinnie	1014.1	–30	SW	6	c	49	75	7	5	6	–	7-8	9	2500
	Aberdeen	1013.0	–26	SW	3	c	51	75	7	1	7	–	1	7-8	1500
	Wick	1009.5	–10	SW	5	cq	51	85	8	5	7	8	4-6	9	800
16	Lerwick	1003.2	–6	WSW	8	c	47	92	7	8	7	–	4-6	9	800
17	Blacksod Point	1020.8	–10	W'S	4	c	51	92	7	5	4	–	4-6	7-8	450
18	Malin Head	1016.0	–20	SWW	5	c	51	92	7	6	–	4	7-8	9	1500
	Aldergrove	1021.4	–20	WSW	3	zo	48	92	6	5	–	–	10	10	800
19	Birr Castle	1024.9	–18	SSW	3	c	51	85	7	5	–	–	10	10	2500
20	Valentia Obsy. †	1027.3	–14	SW'S	4	zo	52	92	6	5	–	–	10	10	800
	Roches Point	1028.3	–14	W'S	3	c	50	92	8	5	–	–	9	9	2500

OBSERVATIONS at 18h. G.M.T. 15th February — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 15th (37)	Weather 13h.–18h. 15th (38)	Weather 18h. 15th to 1h. 16th (39)	Weather 1h.–7h. 16th (40)
London (Kew)	1026.1	–4	SW	3	zo	49	75	6	⊥	–	1	0	1	–	0	*	cmowbm	bzo	bbccmo	cmo
Croydon	1026.1	–12	SW	3	zo	50	75	6	–	4	–	0	Tr	–	1	*	cmobzo	bzo	bmocmo	cmo
S. Farnborough	1026.8	–4	SW	3	b	46	85	8	–	4	–	0	Tr	–	0	*	cmobcb	b	bwcbc	cmo
Boscombe Down	1027.8	–6	W	4	c	45	92	7	5	–	–	9	9	800	1	*	c	cbcc	c	c
Calshot (Sthmtn.)	1027.9	–4	SW'W	3	b	45	92	7	1	4	–	Tr	Tr	2500	1	2	cmobc	b	bmocmo	cmoewm
Lympne	1027.5	–2	SW	3	zo	40	97	5	5	4	1	2-3	4-6	450	1	§2	bcffomo	cbcmo	bcmoFf	ofm
Manston	1026.0	0	SW	4	zo	43	92	6	–	4	6	0	2-3	–	1	*	bccmo	bcmo	bcbmow	b,cmow
Shoeburyness	1025.3	–10	SSW	2	zo	49	75	6	–	4	1	0	1	–	1	*	bcomb	bbcbmo	bmo	bwcmo
Felixstowe	1025.0	–4	SW'W	3	m	47	85	4	–	–	3	0	Tr	–	0	2	bmo,cm	bmobcmbm	bm	bmoidmo
Gorleston	1023.6	–2	SW	2	bc	50	75	6	–	4	–	0	2-3	–	0	2	cbczo	bczozo	bcbzoq	bccpro
Mildenhall	1024.3	–6	SW'S	3	zo	49	85	6	–	–	2	0	2-3	–	0	*	bcmbcmbm	bcbbm	bmocmow	cmow
Cranwell	1023.0	–2	W'S	2	b	48	85	7	–	4	–	0	Tr	–	1	*	cbzo	bzobc	bmo	b
Birmingham	1024.0	–12	WSW	3	bc	49	75	8	–	7	6	0	4-6	–	1	*	b	bbc	bcc	cbc
Upper Heyford	1025.9	+2	SSW	3	zo	45	92	6	5	–	1	Tr	2-3	1500	1	*	ofmcbmb	bbcmo	bcmcbc	cbc
Ross-on-Wye	1025.7	–6	SSW	2	bc	46	75	7	–	–	2	0	4-6	–	1	*	b	bc	bcbqc	bcb
Hartland Point	1027.3	–6	W	4	df	45	97	2	–	–	–	10	10	<150	1	3	cidodo	dfifdf	dfdodofdf	dfc
Bristol	1027.9	–10	W	4	c	45	92	7	5	2	–	7-8	10	450	1	*	c	c	c	croc cbc
Portland Bill	1028.1	–8	W	3	bc	46	92	8	5	–	–	2-3	2-3	2500	1	3	c	cbc	bc	bcc
Plymouth	1029.5	–6	W	3	zo	48	85	6	5	–	–	10	10	1500	1	1	idocmoc	cmo	omocidm	idomocdd
The Lizard	1030.2	–16	W	4	c	47	92	8	5	2	–	9	10	1500	1	3	cido	cidoc	cidmo	mifdc
Scilly (St. Mary's)	1029.7	–10	W	5	cjf	47	97	6	5	–	–	10	10	800	1	3	cdo	cdoc	oidoif	odofc
Guernsey	1030.4	–6	WSW	2	c	48	92	6	8	–	–	10	10	2500	1	2	coido	oidoc	co	proro
Pembroke	1026.9	–8	W	5	dodo	46	97	6	5	2	–	7-8	10	800	1	3	ddifo	ifdod	cidfqirbc	bc
Holyhead	1021.9	–18	SW	5	o	46	97	6	5	–	–	10	10	220	1	3	domoc	cmoo	omoprb	b
Chester (Sealand)	1023.2	–8	S	3	c	49	75	8	5	–	–	9	9	4000	0	*	bmxbmo	bcc	bccro	cb
Manchester	1022.2	–18	SW'W	3	zo	51	65	6	5	4	–	9	9+	1500	1	*	cmfm	bcmzocz	croc	cbmo
Spurn Head	1022.0	–4	WSW	2	c	46	85	5	–	4	7	0	10	–	0	1	bcwc	cmo	bccw	cbc
Catterick	1019.9	–18	SW	5	c	47	85	7	5	7	–	7-8	9	800	1	*	bcc	c	cirobc	bcb
Tynemouth	1018.0	–12	SW	3	c	49	85	6	8	–	–	9+	9+	1500	1	1	bcc	c	cbc	bc
St. Abbs Head	1014.6	–8	SW	4	c	47	85	8	8	2	–	4-6	7-8	2500	0	3	cq	c	bq	bq
Leuchars	1012.2	–22	WSW	5	zo	49	85	6	8	4	2	2-3	4-6	1500	1	*	c	cmobcmo	bcprobq	bqcprobc
Renfrew (Abbots I.)	1015.1	–22	WSW	4	c/r	49	85	6	9	3	9	4-6	9	800	1	*	cdoddmo	dcmodqir	bcqpr	bcPRH
Eskdalemuir	1016.8	–14	WSW	6	df	43	97	3	–	2	–	10	10	<150	1	*	corododo	oddmf	fdocdo	ccprs
Point of Ayre	1019.5	–12	W'S	6	c	50	92	7	5	2	–	7-8	10	1500	0	3	c	c	cPRb	b
Tiree	1012.1	–6	SW'W	6	bc/pr	46	75	7	8	–	–	4-6	4-6	1500	0	5	iDmoc	cirpr	bcpr	cpbr
Stornoway	1005.9	–16	SW	6	c	45	85	7	8	7	–	4-6	7-8	2500	1	3	cidopr	cpr	PHRqlbc	bccPHRql
Dalwhinnie	1011.1	–8	SW	5	iR	42	85	7	6	–	–	10	10	2500	1	*	ciro	cir	[illegible]	ciRis
Aberdeen	1010.2	–6	SSW	3	c	50	65	7	5	3	–	7-8	7-8	2500	1	1	c	cbcc	cbcb	b
Wick	1007.0	–10	WSW	3	c/pr	45	85	8	5	7	–	7-8	9+	1500	1	1	cq	cproq	clprb	cprq
Lerwick	1001.2	0	WSW	8	c	46	97	7	8	2	–	4-6	9+	800	1	*	ciro	cir	cphrq	cphrql
Blacksod Point	1020.5	0	W	5	c	48	85	7	9	–	–	7-8	7-8	800	1	4	c	idr	prcq	proc
Malin Head	1016.5	–12	W'S	5	cjp	47	85	7	8	–	2	4-6	7-8	2500	0	4	cidc	cproc	phrlapr	cprbcc
Aldergrove	1018.7	–10	W	4	c	48	75	8	5	–	2	7-8	9	1500	1	*	ccmo	cidomoc	cprocb	bw
Birr Castle	1022.4	0	WSW	3	c	50	85	8	6	7	–	4-6	9	1500	1	*	c	circ	c	cprbcx
Valentia Obsy. †	1026.5	+6	W'S	4	c	50	85	8	5	5	–	4-6	7-8	1500	1	3	cmo	moDDirc	cbccroc	cproc
Roches Point	1025.6	–18	W'S	3	dod	50	97	6	5	–	–	10	10	450	1	3	c	codod	odrbc	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

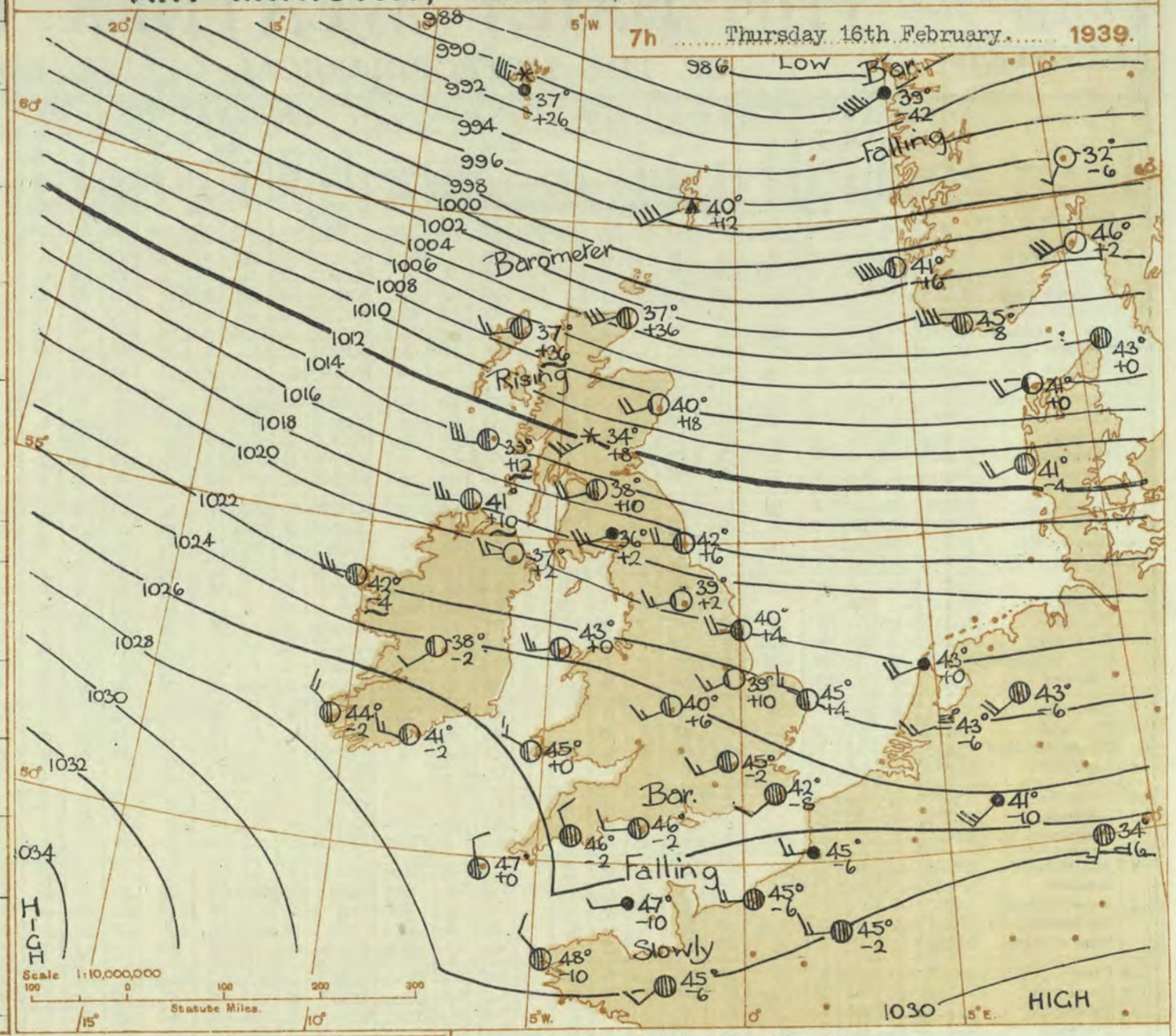
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 15th February 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 14th to 9h. 15th	Temperature. (°F.) Max. 9h.—17h. 15th	Rainfall. (mm.) Night. 17h. 14th to 9h. 15th	Rainfall. (mm.) Day. 9h.—17h. 15th	Sunshine. (Hrs.) Sunrise to 17h. 15th	Sunshine. (Hrs.) Sunrise to Sunset. 14th
1	Tunbridge W.	ocbc	bcb	33	54	—	—	4.2	6.9
	Bournemouth	cbcb	b	38	55	—	—	5.7	4.4
	Ventnor ...	ou	ocb	41	49	—	—	3.0	5.9
	Southsea ...	ocbc	b	40	54	—	—	4.0	5.4
	Bognor Regis	ocbc	bcb	39	52	—	—	3.1	6.3
	Littlehampton	c	cbc	38	52	—	—	3.6	7.0
	Worthing ...	oc	bcb	38	50	—	—	3.7	7.6
	Brighton ...	c	cbcb	39	47	—	—	1.9	6.6
	Eastbourne† ...	o	ocbcb	41	48	—	—	1.7	7.7
	Hastings† ...	oc	bcb	39	47	—	—	1.2	7.3
	Folkestone ...	mo	cbcm.	37	48	—	—	1.4	6.9
	Dover ...	co	ocbc	39	48	—	—	2.0	7.0
	Deal	bo	cbcb	37	48	—	—	4.9	6.1
	Ramsgate ...	bcc	bc	39	50	—	—	5.6	5.8
	Margate ...	bcc	bc	39	51	—	—	4.6	7.0
2	Southend ...	omcb	bbc	38	52	—	—	4.4	6.2
	Clacton-on-Sea	ocbcm	bcm	34	51	—	—	3.6	6.2
	Dovercourt ...	ocf	bc	36	54	—	—	5.0	5.6
	Lowestoft ...	b	b	36	56	—	—	7.4	3.7
	Skegness ...	b	b	38	53	—	—	7.3	3.4
	Mablethorpe...	bbc	b	36	53	—	—	6.8	3.1
	Cleethorpes ...	bc	bc	38	52	—	—	6.2	2.5
3	Leamington S.	bc	bc	36	56	—	—	6.0	0.0
4	Cheltenham†	m.wb	bq	35	54	—	—	8.5	1.8
5	Bath	c	c	36	48	—	—	0.0	4.8
	Weymouth ...	c	cb	39	51	—	—	3.8	5.3
	Jersey ...	c	cdo	39	48	—	Trace	0.0	5.8
	Torquay ...	wbm.b	b	38	56	—	—	9.2	7.0
	Falmouth	c	c	39	50	—	—	0.0	7.5
	Penzance ...	cd.	c	40	50	—	Trace	0.2	7.5
	St. Ives ...								
	Bude... ...	cd.	cd.c	46	48	0.3	Trace	0.1	6.5
	Ilfracombe ...	codcm	com	43	48	0.1	Trace	0.1	4.5
6	Aberystwyth	d.cbc	bcc	41	47	0.5	—	2.9	2.5
7	Llandudno ...	b	bbc	41	55	—	—	7.5	0.2
	Colwyn Bay...	bcb	bcb	36	55	—	—	7.5	0.1
	Rhyl	b	bbc	36	54	—	—	3.8	0.0
8	Wallasey ...	fbc	bcc	38	56	—	—	5.8	0.0
	Southport ...	bcc	cbcc	37	51	Trace	—	2.3	0.0
	Blackpool ...	cd.pc	ccm	36	47	—	Trace	0.2	0.0
	Morecambe ...	bcc	c	35	45	—	—	0.0	0.0
9	Ilkley... ...	c	c	37	48	—	—	0.0	0.4
	Harrogate ...	bcc	c	37	49	—	—	2.0	1.3
10	Berwick-on-T.	c	cobc	41	49	—	—	1.2	0.7
11	Dunbar ...	bcm.	cm.	41	52	—	—	0.3	0.3
12	Troon... ...	oco	ocopo	36	48	—	Trace	0.0	0.0
	Douglas ...	c	cdm	41	47	—	Trace	0.0	0.6

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



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 16th February, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Wind west to northwest light to moderate; long bright periods; scattered showers of rain or hail; average temperature during day, 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 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland	Wind westerly fresh to strong squally, gale at times in North Scotland; frequent wintry showers, local thunder, some bright periods; rather cold with night frost.
19 S. E. Ireland 20 S. W. Ireland	As 1 - 6.

GENERAL INFERENCE.

Anticyclones cover most of the Atlantic and Southern Europe while depressions are moving in an easterly direction in the latitude of Iceland. There will be long bright periods in the south with scattered showers but in the north wintry showers will be frequent with local thunder but some bright periods. It will be generally colder than of late with night frost.

FURTHER OUTLOOK.

Wintry showers, bright periods, rather cold.

Time of Issue of Gale Warnings.

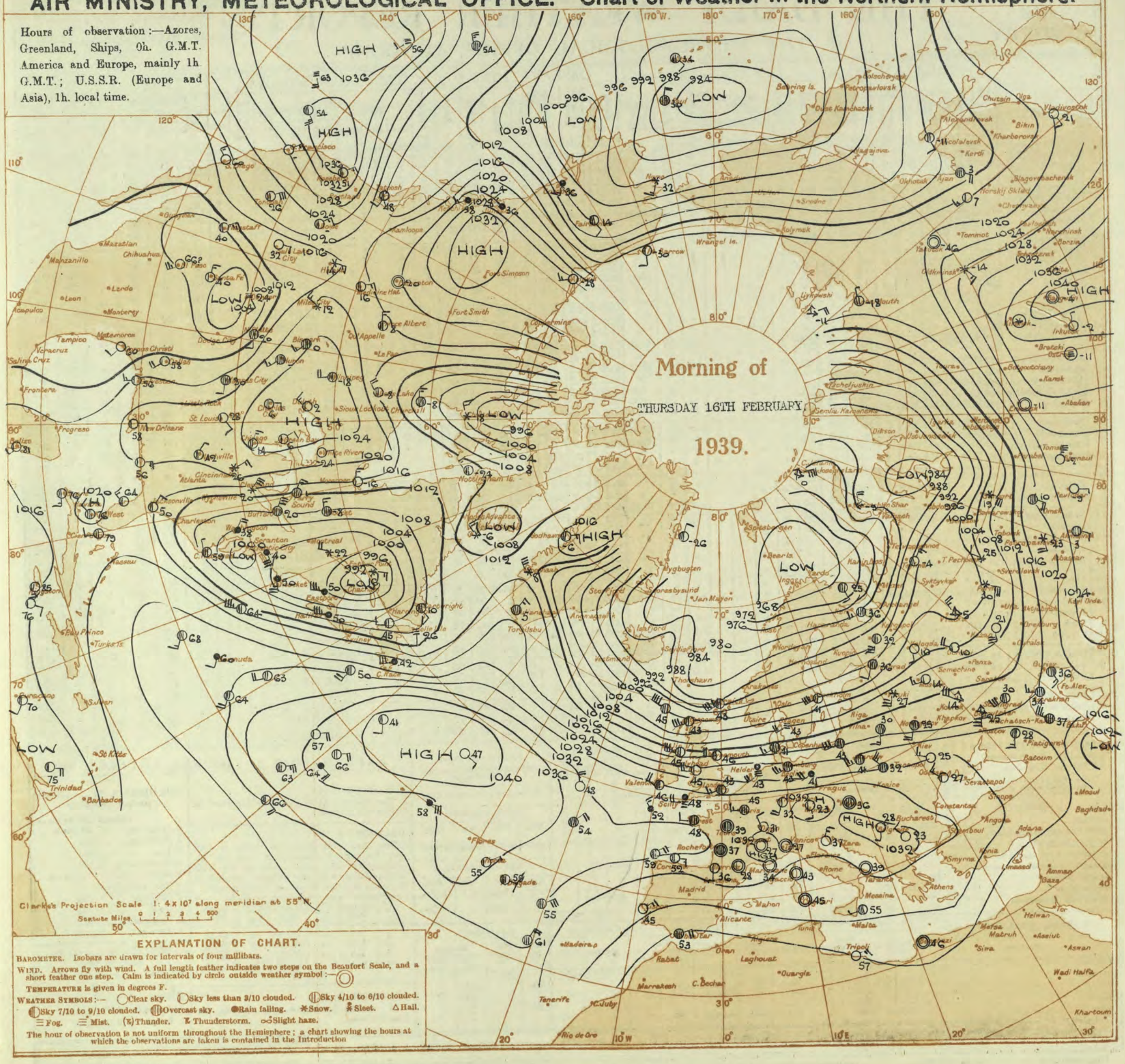
South Cone hoisted at 0830 on 14/2/39 in district 16, at 0820 on 15/2/39 in districts 13B and 15, and at 0900 on 16/2/39 in district 11.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 16th February, 1939.

No. 28210

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Rel. Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1025.7	−6	W'S	3	Z_o	45	92	6	5	—	—	9+	9+	800
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1026.6	−2	WSW	3	of−	42	97	3	5	—	—	10	10	2200
	Manston ...	154	1024.9	−4	WSW	4	Z_o	39	97	5	—	—	—	0	0	—
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1022.0	−6	W'N	4	b	43	85	6	—	—	—	0	0	—
	Mildenhall ...	19	1023.3	−2	SWW	4	Z_o	44	97	6	5	—	—	10	10	1500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1025.5	−12	W	4	df	46	97	2	—	—	—	10	10	<150
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1027.1	−2	W	3	bc	45	92	7	5	—	—	4-6	4-6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1028.9	−6	W	4	id_o	47	97	4	5	—	—	10	10	800
	Scilly (St. Mary's)	163	1025.6	−8	W	4	df	48	97	3	—	—	—	10	10	<150
	Guernsey ..	175	1023.8	−10	W'S	3	o	47	85	6	5	—	—	10	10	2500
6	Pembroke ...	142	1025.9	−2	NW	2	bc	47	92	7	5	—	—	2-3	2-3	1500
7	Holyhead ...	26	1023.0	+6	W	4	b	45	75	8	2	—	—	Tr	Tr	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1015.8	−2	W	4	c	45	92	6	—	2	—	0	10	—
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1016.8	+8	W	4	bc	46	65	7	2	—	—	2-3	2-3	1500
11	St Abbs Head ..	280	1012.4	−8	W	6	bq	42	75	8	—	3	—	0	1	—
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1015.5	+2	WNW	6	b	45	75	8	—	—	—	0	0	—
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1000.6	−12	WSW	7	bc	43	75	7	5	—	—	2-3	2-3	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1000.1	−26	SW	6	bc	39	92	7	5	—	—	2-3	2-3	1500
16	Lerwick ...	156	991.0	−78	SW	8	c/phr	43	75	8	8	7	—	4-6	7-8	800
17	Blacksod Point	18	1022.1	+4	W	6	c	45	85	8	9	—	—	10	10	1500
18	Malin Head ...	84	1016.3	−2	W	7	bc/pr	45	65	7	6	—	—	4-6	4-6	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1028.0	0	W'N	4	c/pr	46	92	7	5	—	—	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Rel. Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1024.1	+4	SW	2	Z_o	45	92	6	5	2	—	7-8	10	2500	0	*
	Croydon ...	1024.4	−2	W'S	3	c	45	92	6	5	—	—	10	10	800	1	*
	S. Farnborough	1024.5	0	WSW	2	Z_o	44	97	6	5	7	—	4-6	9+	2500	0	*
	Boscombe Down	1025.8	0	WNW	2	c	44	97	6	5	5	6	2-3	7-8	1500	1	*
	Calshot (Sthmtn.)	1025.1	−8	WSW	2	Z_o	45	97	6	5	7	—	7-8	9+	4000	1	2
	Lympne ...	1025.4	−8	SW'W	2	Z_o	42	97	5	5	—	—	10	10	<150	1	§2
	Manston ...	1024.3	−2	WSW	3	Z_o	42	97	6	5	—	—	10	10	1500	1	*
2	Shoeburyness ...	1024.0	0	WSW	2	c	45	92	5	5	—	—	10	10	5760	1	*
	Felixstowe ...	1023.5	+2	W'S	4	id_o	43	92	6	5	—	—	10	10	1500	1	3
	Gorleston ...	1022.0	+4	WNW	3	c	45	85	6	5	—	8	4-6	7-8	2500	1	2
	Mildenhall ...	1022.6	+2	WSW	3	c	44	97	7	5	—	—	9+	9+	4000	1	*
	Cranwell ...	1022.4	+10	W'S	3	b	39	85	7	—	4	—	0	1	—	1	*
3	Birmingham ...	1024.2	+6	WSW	3	bc	40	65	7	—	—	2	0	4-6	—	1	*
	Upper Heyford	1024.5	+4	W'N	3	bc	42	75	8	5	4	2	Tr	2-3	2500	1	*
4	Ross-on-Wye	1024.6	+4	W'S	2	bc	41	75	8	—	—	1	0	2-3	—	1	*
5	Hartland Point	1025.8	0	WNW	2	c	45	85	8	5	2	—	7-8	9	1500	1	2
	Bristol ...	1025.4	+2	W	3	bc	41	97	7	5	4	8	2-3	4-6	2500	1	*
	Portland Bill ...	1025.3	−2	W	2	c	46	92	8	5	2	—	4-6	10	2500	1	3
	Plymouth ...	1026.5	−2	N'W	2	9/d	46	92	7	5	—	—	10	10	1500	1	1
	The Lizard ...	1027.6	−10	N	3	c	44	97	6	5	—	—	10	10	1500	1	1
	Scilly (St. Mary's)	1027.8	0	N	2	c	47	92	8	5	7	—	7-8	10	1500	1	3
	Guernsey ..	1026.7	−10	W	1	fog	47	97	5	5	—	—	10	10	1500	1	2
6	Pembroke ...	1025.8	0	WNW	3	bc	45	85	8	5	1	—	2-3	2-3	2500	1	2
7	Holyhead ...	1022.8	0	W	5	bc	43	75	8	1	4	—	1	2-3	2500	1	2
	Chester (Sealand)	1022.7	0	WSW	3	b	41	65	7	—	—	5	0	Tr	—	1	*
8	Manchester ...	1021.6	0	WSW	4	Z_o	38	85	6	5	—	—	Tr	Tr	2500	1	*
10	Spurn Head ...	1020.5	+4	W	4	bc	40	85	6	—	4	—	0	2-3	—	0	2
	Catterick ...	1018.6	+2	WSW	3	b	39	85	7	5	—	—	Tr	Tr	1500	1	*
	Tynemouth ...	1016.5	+6	W	4	bc	42	65	7	2	—	—	2-3	2-3	2500	1	2
11	St Abbs Head ..	1012.1	+10	W	7	bq	41	65	8	—	4	—	0	Tr	—	0	4
	Leuchars ...	1012.2	+16	WSW	5	c/pr	38	85	8	8	—	3	4-6	7-8	1500	1	*
12	Renfrew (Abbots I.)	1015.6	+10	W'S	4	c/pr	36	85	7	9	—	—	7-8	7-8	2500	1	*
	Eskdalemuir ...	1016.8	+2	WSW	5	prs	36	85	7	6	—	—	9	9	1500	1	*
	Point of Ayre ...	1015.3	−2	WNW	6	b	43	75	8	4	—	—	Tr	Tr	2500	0	3
13A	Tiree	1013.3	+12	W	6	c/pr	39	92	7	8	—	—	7-8	7-8	1500	1	5
13B	Stornoway ...	1006.4	+36	WSW	3	c	37	85	7	9	—	—	9	9+	2500	1	4
15	Dalwhinnie ...	1011.9	+8	SW	5	is	34	92	7	8	—	—	7-8	7-8	2500	4	*
	Aberdeen ...	1008.7	+16	W'S	4	b	40	75	7	5	—	3	Tr	1	4000	0	1
	Wick ...	1003.8	+36	WSW	6	c/pr	37	97	6	5	7	—	7-8	9+	1500	1	2
16	Lerwick ...	992.2	+12	WSW	8	pbr	40	85	8	8	7	—	4-6	7-8	800	1	*
17	Blacksod Point	1022.0	−4	W	5	c	42	85	8	9	—	—	7-8	7-8	1500	1	4
18	Malin Head ...	1017.3	+10	W	5	cjp	41	75	7	9	—	—	7-8	7-8	1500	1	5
	Aldergrove ...	1020.1	+2	W	3	b	37	85	8	—	—	—	0	0	—	1	*
19	Birr Castle ...	1024.1	−2	SW	1	bc	38	92	8	5	4	—	2-3	2-3	2500	1	*
20	Valentia Obsy. †	1027.4	−2	NW'W	3	c	44	75	8	5	—	—	7-8	7-8	2500	1	3
	Roches Point	1027.0	−2	W'N	3	bc	41	85	8	5	—	—	4-6	4-6	2500	1	2

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 15th Hrs. (36)
1	London (Kew)	55	43	39	—	—	5.1
	Croydon ...	55	40	38	—	—	4.9
	S. Farnborough	55	41	37	—	—	5.8
	Boscombe Down	52	40	35	—	—	4.5
	Calshot (Sthmtn.)	55	39	35	—	Tr	5.9
	Lympne ...	47	39	35	—	Tr	1.4
	Manston ...	50	38	35	—	0.1	5.1
2	Shoeburyness ...	53	41	37	—	—	4.6
	Felixstowe ...	51	41	37	—	Tr	*
	Gorleston ...	56	43	42	—	Tr	7.2
	Mildenhall ...	58	40	36	—	Tr	7.9
	Cranwell ...	54	39	34	—	—	6.4
3	Birmingham ...	55	39	36	—	—	8.1
	Upper Heyford	58	41	39	—	—	*
4	Ross-on-Wye	56	40	31	—	—	8.8
5	Hartland Point	46	44	42	1	2	0.2
	Bristol ...	46	41	35	—	0.2	0.0
	Portland Bill ...	48	43	*	—	—	*
	Plymouth ...	49	46	44	Tr	Tr	0.0
	The Lizard ...	48	43	*	Tr	0.5	*
	Scilly (St. Mary's)	49	45	*	Tr	0.3	0.2
	Guernsey ..	49	46	45	Tr	0.2	0.0
6	Pembroke ...	47	44	*	0.1	1	0.0
7	Holyhead ...	46	43	40	Tr	1	0.0
	Chester (Sealand)	57	41	34	—	Tr	6.7
8	Manchester ...	52	38	33	—	0.1	1.1
10	Spurn Head ...	50	40	*	Tr	Tr	7.5
	Catterick ...	49	38	32	—	Tr	3.6
	Tynemouth ...	52	42	38	—	—	2.4
11	St Abbs Head ..	49	35	*	—	—	*
	Leuchars ...	50	38	34	—	Tr	1.9
12	Renfrew (Abbots I.)	49	38	34	0.3	3	0.0
	Eskdalemuir ...	44	35	34	1	1	0.0
	Point of Ayre ...	52	42	*	—	0.2	0.7
13A	Tiree	51	37	35	1	3	0.3
13B	Stornoway ...	51	36	*	0.6	3	1.1
15	Dalwhinnie ...	50	33	31	0.6	7	2.7
	Aberdeen ...	52	39	35	—	—	0.4
	Wick ...	55	37	*	0.1	1	*
16	Lerwick ...	53	37	*	0.1	1	0.7
17	Blacksod Point	52	40	*	1	0.3	*
18	Malin Head ...	51	37	*	1	2	0.7
	Aldergrove ...	49	36	31	Tr	0.4	0.0
19	Birr Castle ...	52	36	29	1	0.1	0.8
20	Valentia Obsy. †	52	43	38	2	0.4	0.4
	Roches Point	51	40	*	0.1	1	

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T % (Yesterday)	Humidity 9h. G.M.T % (To-day)	Visibility 9h.
Kew ...	18	cmwbm	bz	bbccm	55	43	39	—	—	5.1	*	*	6
Croydon ...	217	cmbz	bz	bmcm	55	40	38	—	—	4.9	*	*	6
Greenwich (Royal Observatory) ...	149	cbc	b	bc	56	43	38	—	—	5.5	63	72	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	4.7	*	*	*
Westminster (St James' Park) ...	27	*	*	*	57	44	38	—	—	5.5	65	92	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	55	43	42	—	—	4.7	61	84	*
Camden Square ...	110	b	b	*	56	44	42	—	—	*	*	75	*
Kensington ...	80	bc	bcbz	*	57	44	40	—	—	5.5	At 18h. 75	95	*
Hampstead Observatory ...	450	o	bc	obc	54	42	39	—	—	5.4	*	92	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
Less than 0.3	whole	period.	

Kew Observatory Max.	Time.	Min.	Time.
0.3	17-18h 15th	<0.1	0-5h 16th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 15th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 16th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...						1027.9	W	3	Z_o	45	45	43	0.1	—
Brussels ...	1027.8	SW	4	o	43	1020.5	SSW	3	Z_o	39	41	39	0.2	Tr
Berlin ...	1024.3	WSW	3	dod	41						43		—	
Zurich ...	1031.4	SSE	1	Z_o	34						*	*	1	—
Rome ...	1025.6	NNE	1	bc	45	1026.9	NE	3	b	34				

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 17th February, 1939.
No. 28211

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1024·6	-6	W'N	4	bc	49	55	7	8	-	1	4-6	4-6	2500
	Croydon ...	1024·7	-2	W	4	zo	50	55	6	1	-	2	1	9	5700
	S. Farnborough	1024·8	+6	W	3	bc	50	45	8	1	-	1	1	4-6	4000
	Boscombe Down	1025·5	-4	NW	3	bc	47	55	7	1	-	6	2-3	4-6	2500
	Calshot (Sthmtn.)	1025·6	-2	NW'W	3	c	48	55	8	7	3	2	4-6	7-8	2500
	Lympne ...	1024·8	-6	NW	2	c/r	45	75	6	5	2	-	7-8	10	4000
	Manston ...	1024·2	-2	WNW	2	zo	45	85	6	5	-	-	9+	9+	2500
2	Shoeburyness ...	1024·2	0	NW'W	3	bc	50	55	8	8	6	1	1	4-6	4000
	Felixstowe ...	1023·9	-2	NW	3	bc	48	45	8	7	3	6	1	4-6	4000
	Gorleston ...	1022·3	-6	NWW	4	bc	48	55	6	1	-	1	Tr	4-6	4000
	Mildenhall ...	1023·2	-8	W'N	4	bc	48	55	7	1	-	2	Tr	4-6	4000
	Cranwell ...	1022·3	-10	W	4	c	46	65	7	7	-	-	7-8	7-8	2500
3	Birmingham ...	1023·4	-2	WSW	3	bc	46	45	8	2	-	-	4-6	4-6	2500
	Upper Heyford	1025·0	-2	NWW	3	bc	47	55	8	1	-	8	2-3	2-3	4000
4	Ross-on-Wye	1024·2	-10	W	3	..c	47	55	8	8	-	-	7-8	7-8	4000
5	Hartland Point	1026·4	-4	NW	3	c	45	85	8	8	-	-	7-8	7-8	2500
	Bristol ...	1025·9	-6	W	3	bc	48	65	7	7	-	6	4-6	4-6	2500
	Portland Bill ...	1025·9	+6	WNW	2	c	48	92	8	5	-	-	4-6	7-8	2500
	Plymouth ...	1026·9	-6	NW'N	3	c	48	55	8	8	7	-	7-8	10	4000
	The Lizard ...	1027·9	+2	W'S	2	bc	48	85	8	8	6	-	4-6	4-6	2500
	Scilly (St.Mary's)	1028·4	-2	NW	2	bc	50	85	8	8	4	3	1	4-6	2500
	Guernsey ...	1026·9	0	NW	2	roro	44	97	6	5	-	-	10	10	1500
6	Pembroke ...	1026·2	+2	NW	4	c	46	75	7	8	3	-	4-6	7-8	2500
7	Holyhead ...	1022·9	-6	W'N	5	c	45	65	8	8	8	5	4-6	7-8	2500
	Chester(Sealand)	1023·0	-6	W	4	pr	46	55	8	8	-	-	7-8	7-8	1500
8	Manchester ...	1022·0	-6	W	5	c	47	65	7	2	3	-	4-6	7-8	2500
10	Spurn Head ...	1020·7	+2	W'N	5	c	45	65	6	8	8	8	4-6	7-8	4000
	Catterick ...	1019·1	-2	W'S	4	c	45	65	8	8	-	1	4-6	7-8	1500
	Tynemouth ...	1017·3	0	W	4	bc	45	55	7	2	-	-	4-6	4-6	2500
11	St. Abbs Head ...	1014·3	+6	W	7	bcq	41	55	8	2	4	-	2-3	2-3	4000
	Leuchars ...	1014·1	+6	WSW	4	b	43	75	9	8	4	-	1	1	1500
12	Renfrew (Abbots I.)	1016·8	+6	W	3	bc/pr	39	85	9	3	6	3	4-6	4-6	2500
	Eskdalemuir ...	1017·6	0	WSW	6	c/rs	38	75	8	5	7	-	7-8	9+	1500
	Point of Ayre ...	1020·3	0	W'N	6	c	46	65	8	8	4	3	4-6	7-8	2500
13A	Tiree ...	1015·1	+2	W	6	bc/ps	42	65	8	8	6	-	4-6	4-6	1500
13B	Stornoway ...	1009·8	+4	SW	5	s/phr	34	97	6	8	7	-	7-8	9	2500
15	Dalwhinnie ...	1014·1	+2	SW	3	is	33	85	7	8	4	8	4-6	9	2500
	Aberdeen ...	1011·5	+6	W'N	5	b	43	55	8	3	-	-	Tr	Tr	1500
	Wick ...	1008·1	+14	W	5	s/phr	42	65	8	5	7	9	4-6	7-8	1500
16	Lerwick ...	1000·1	+30	WNW	8	c	41	65	8	8	7	-	4-6	7-8	800
17	Blacksod Point	1023·2	+2	W'N	5	bc	45	75	8	3	-	-	4-6	4-6	2500
18	Malin Head ...	1018·6	+2	W'N	5	cjp	42	75	7	8	-	-	7-8	7-8	2500
	Aldergrove ...	1020·6	-2	W'N	4	c	42	75	9	3	-	-	9	9	2500
19	Birr Castle ...	1024·8	-2	WSW	1	bc/c	44	75	8	5	4	-	2-3	7-8	2500
20	Valentia Obsy. †	1027·7	-2	NWW	4	bc/pr	45	75	8	8	-	4	2-3	2-3	1500
	Roches Point	1027·0	-6	NW	3	bc/pr	44	92	8	3	4	2	2-3	4-6	1500

OBSERVATIONS at 18h. G.M.T. 16th February — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.—13h. 16th (37)	Weather 13h.—18h. 16th (38)	Weather 18h 16th to 1h. 17th (39)	Weather 1h.—7h. 17th (40)
London (Kew)	1023·1	+2	W'S	2	zo	45	65	6	5	-	1	4-6	4-6	2500	0	*	cmobcy	bcybczy	bczo	cmox
Croydon	1023·6	-2	W'N	3	zo	45	65	5	5	-	2	9+	9+	5700	1	*	cmozoy	czoy	bzomow	bmmcmx
S. Farnborough	1023·6	+2	W	1	zo	44	55	6	5	-	2	7-8	7-8	5700	0	*	cmobcy	bcyczo	bcbwx	bm.xc
Boscombe Down	1024·3	0	W	2	c	43	75	7	5	4	-	7-8	9	5700	0	*	cbc	bcc	cbcbbc	bccmox
Calshot (Sthmtn.)	1024·2	+2	W	2	c	45	65	8	5	7	6	9	9+	2500	1	2	cmobcy	bcyc	bcbbw	bwbxmo
Lympne	1023·7	-4	NW	2	zo	43	65	6	5	-	-	7-8	7-8	4000	1	§2	fomorcro	cbczo	bzox	bzomox
Manston	1023·0	+4	W'N	1	zo	41	75	6	5	7	-	4-6	4-6	2500	1	*	cmo	cmoybczo	bcbmox	bbcmx
Shoeburyness	1022·7	-6	NW	2	bc	43	65	7	4	4	2	4-6	4-6	4000	1	*	cmobc	bcybc	bcb	b,cmo
Felixstowe	1022·5	0	NW	2	zo	45	65	6	5	-	5	1	2-3	2500	0	1	aidocmo	bcybcmo	bcmobmo	bmobcm
Gorleston	1021·6	0	WSW	2	c	43	65	6	1	5	-	1	7-8	2500	0	2	cbcy	bccyzo	cb	bbccxzo
Mildenhall	1021·8	-2	SW	2	zo	40	75	6	5	-	1	2-3	4-6	4000	0	*	cbcbcmoy	bcybcmo	bmobmox	bmoxbcmox
Cranwell	1021·4	+2	W'S	2	zo	42	75	6	8	-	-	4-6	4-6	4000	1	*	bbczoc	bcyczo	bczobmo	bbccx
Birmingham	1022·0	+2	WSW	3	bc	42	65	7	8	7	-	1	4-6	2500	1	*	bc	bccbc	bcb	bx,c
Upper Heyford	1023·4	0	NW'W	3	bc	40	65	7	-	3	1	0	2-3	-	1	*	bcby	cybcy	bmo	bbcmom
Ross-on-Wye	1023·3	-4	WSW	2	bc	41	75	8	4	-	1	1	2-3	2500	1	*	bc	bcyc	b	bcc
Hartland Point	1024·6	-4	WNW	3	c	44	92	8	8	4	-	7-8	9	1500	1	2	cbcc	cbcc	cpobc	bccpo
Bristol	1024·3	-2	W	4	c	42	85	7	5	7	-	4-6	7-8	1500	1	*	bc	bccpobc	bcb	bxbccpo
Portland Bill	1024·8	+4	NW	2	c	46	92	7	5	-	-	10	10	2500	1	3	c	c	bcb	bcc
Plymouth	1025·7	0	WNW	3	zo	46	75	6	5	7	6	7-8	9	5700	1	1	cdmoccy	cycmo	cmobmo	bmocmo
The Lizard	1026·6	0	W'N	3	bc	45	75	8	8	4	-	4-6	4-6	2500	1	1	probc	cbc	bc	bcc
Scilly (St.Mary's)	1026·8	-2	NW	3	c	45	85	8	8	7	3	4-6	7-8	2500	1	3	cbc	bcc	bcbbc	bccpq
Guernsey	1025·5	0	W'N	1	c	46	85	6	5	2	-	7-8	10	2500	1	2	ororr	oroc	cbcb	bcprc
Pembroke	1024·4	-6	NW	3	c	45	85	7	8	7	8	2-3	7-8	1500	1	2	bcc	cbcc	bcq	bcprsqc
Holyhead	1021·7	-2	W'N	4	c	44	65	8	8	4	8	4-6	7-8	2500	1	2	b,c	cbc	bcprob	broroc
Chester(Sealand)	1022·2	+2	W	3	zo	43	65	6	8	-	-	7-8	7-8	2500	0	*	bzocypro	cproybc	cPRbmo	bxbc
Manchester	1021·4	+4	W'N	3	zr	40	85	6	8	3	-	4-6	4-6	2500	1	*	bmobczo	bczocz o	bcmobm	bmocmo
Spurn Head	1019·8	0	W'N	4	bc	42	75	6	-	-	8	0	4-6	-	0	3	bcc	como	cbzo	bbczo
Catterick	1018·9	+6	WSW	3	b	39	75	8	8	-	-	1	1	2500	1	*	bbc	probcb	bbx	bxc
Tynemouth	1017·4	+2	W	3	bc	40	75	6	2	-	-	4-6	4-6	1500	1	1	bc	bc	bc	bc
St. Abbs Head	1015·1	+4	W	7	bcq	37	75	9	4	4	-	2-3	2-3	4000	0	4	bqy	bcbq	bq	bbcqc
Leuchars	1013·9	+2	WSW	5	b	35	85	8	8	-	3	Tr	Tr	2500	1	*	b	bbcvb	bx,probm	bmo,ciro
Renfrew (Abbots I.)	1017·2	+10	SW'W	2	pr	36	85	8	3	6	-	1	2-3	2500	1	*	bcpro	qphrsb	bprc	cmororo
Eskdalemuir	1017·7	+4	W	4	bc/ps	33	85	7	5	-	-	4-6	4-6	800	-	*	cprs	prscsqps	b	bbcciro
Point of Ayre	1019·9	0	NWW	5	b	41	85	8	4	-	-	1	1	2500	0	3	bbc	cphrb	bbc	bcdo
Tiree	1014·0	-2	W	5	bc	41	75	8	8	3	-	4-6	4-6	1500	0	4	cphrq	bcphq	bccph	cirRq
Stornoway	1009·2	+4	WSW	4	c	37	85	7	3	7	-	7-8	9	2500	1	3	cPHRq	cPHq	cbcPHS	bccphr
Dalwhinnie	1013·1	+8	SW	3	is	31	92	5	8	-	-	10	10	1500	7	*	ciS	ciS		ciS
Aberdeen	1012·1	+10	W'S	3	b	37	65	6	8	3	-	Tr	Tr	1500	0	1	b	bybzo	bzobx	bxbc
Wick	1008·5	+4	WSW	5	c	34	85	8	5	7	1	4-6	9	800	1	2	cphrs	cpsc	prsps	c
Lerwick	1002·2	-2	WSW	8	c	38	75	8	8	7	-	4-6	7-8	800	1	*	cphrq (aurora)	ephq (aurora)	cpsh	cpshtq
Blacksod Point	1022·4	-10	W	4	bc	43	85	8	9	-	-	4-6	4-6	2500	1	3	phrq	phrq	prcq	prcq
Malin Head	1017·9	-12	W	5	cjp	42	65	7	9	-	4	4-6	7-8	4000	0	4	cphrobcc	cprobcyc	cprbcprc	crrc
Aldergrove	1019·9	+2	WNW	3	b	38	85	9	8	-	-	1	1	2500	1	*	prhopo	cb	bbcc	c
Birr Castle	1023·6	-2	WSW	1	bc	41	75	8	5	-	-	2-3	2-3	2500	1	*	probc	bc	probc	bccx
Valentia Obsy. †	1026·2	-2	NW'W	3	c	44	65	9	5	3	-	7-8	7-8	2500	1	3	phrqprobc	bcbproqbcc	cproc	ciro
Roches Point	1026·2	-2	NW	3	bc	42	85	8	3	-	3	2-3	2-3	1500	1	2	cprbc	phoprbc	bc	bcciro

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

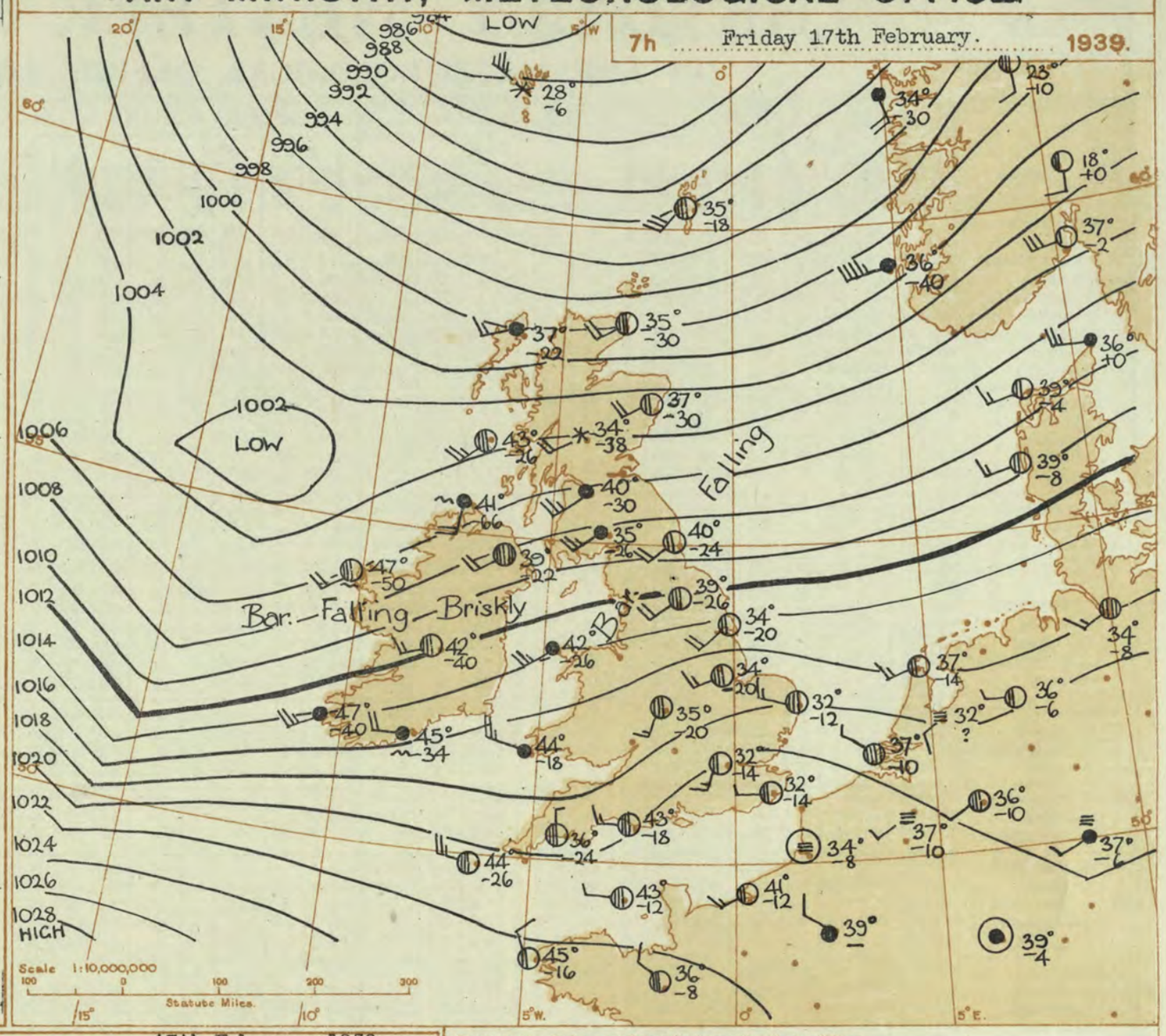
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 16th February 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 15th to 9h. 16th	Temperature. (°F.) Max. 9h.—17h. 16th	Rainfall. (mm.) Night. 17h. 15th to 9h. 16th	Rainfall. (mm.) Day. 9h.—17h. 16th	Sunshine. (Hrs.) Sunrise to 17h. 16th	Sunshine. (Hrs.) Sunrise to Sunset. 15th
1	Tunbridge W.	cbc	bcbbc	40	50	-	-	4·5	4·2
	Bournemouth	ocbc	bbc	41	50	-	-	3·8	5·7
	Ventnor ...	opc	cbbc	43	51	-	1	3·7	3·0
	Southsea ...	cbbc	bbc	41	51	-	-	2·8	4·0
	Bognor Regis	ocbc	bc	42	51	-	-	4·1	3·1
	Littlehampton	bc	bc	42	53	-	-	4·1	3·6
	Worthing ...	c	bc	42	51	Trace	-	3·9	3·7
	Brighton ...	cbc	cbc	42	50	Trace	-	3·5	1·9
	Eastbourne† ...	orco	ocbcc	43	49	-	1	1·6	1·7
	Hastings† ...	odpo	cbc	42	49	Trace	1	1·8	1·2
	Folkestone ...	moirc	occm	39	49	-	Trace	0·4	1·4
	Dover ...	odo	ocbc	40	49	-	Trace	0·0	2·0
	Deal	oc	obc	40	49	-	-	1·5	4·9
	Ramsgate ...	c	c	39	49	-	-	1·9	5·6
	Margate ...	c	cbc	40	48	-	-	2·2	4·6
2	Southend ...	omb	bbc	41	52	Trace	-	5·7	4·4
	Clacton-on-Sea	ombc	boy	38	50	-	-	5·0	3·6
	Dovercourt ...	bcc	bc	40	49	-	-	5·3	5·0
	Lowestoft ...	bbc	bcb	41	56	-	-	7·2	7·4
	Skegness ...	bcb	bbcb	37	52	-	-	6·3	7·3
	Mablethorpe...	bc	bcb	37	52	-	-	4·9	6·8
	Cleethorpes ...	bc	bc	38	48	-	-	6·1	6·2
3	Leamington S.	bc	bc	38	49	-	-	4·8	6·0
4	Cheltenham†	wqbc	bcc	38	49	-	-	5·0	8·5
5	Bath	bcb	bbcrh	41	49	Trace	0·3	3·8	0·0
	Weymouth ...	mc	bcc	42	51	-	-	1·7	3·8
	Jersey ...	dc	dcc	46	48	0·2	2	0·0	0·0
	Torquay ...	wcbc	bccboy	43	50	-	-	1·9	9·2
	Falmouth	acopc	c	44	51	1	0·3	2·6	0·0
	Penzance ...	ccpb	bbcc	44	53	0·5	0·3	3·4	0·2
	St. Ives ...								
	Bude... ...	bcc	cbc	46	48	1	-	3·4	0·1
	Ilfracombe ...	rocbc	bcc	44	48	2	-	3·9	0·1
6	Aberystwyth	prbc	bcc	42	46	0·5	-	5·4	2·9
7	Llandudno ...	bc	bcp	42	46	2	Trace	5·2	7·5
	Colwyn Bay...	bcc	cpbcb	41	47	2	Trace	3·8	7·5
	Rhyl	bbc	bprcbc	41	47	1	0·1	4·2	3·8
8	Wallasey ...	bbc	bcbbc	42	47	0·5	-	6·3	5·8
	Southport ...	bbc	bcp.bc	42	47	1	-	7·0	2·3
	Blackpool ...	bmb	bccbc	42	46	1	-	5·5	0·2
	Morecambe ...	bcb	bbc	42	45	0·3	-	4·8	0·0
9	Ilkley... ...	bc	bc	38	45	0·5	-	4·6	0·0
	Harrogate ...	cbc	bc	38	45	Trace	-	4·6	2·0
10	Berwick-on-T.	bc	bc	38	44	0·1	-	8·2	1·2
11	Dunbar ...	bcmr	bcm.	37	43	Trace	Trace	6·6	0·3
12	Troon... ...	ocpco	orso	40	48	2	2	2·0	0·0
	Douglas ...	bcid.	bcph	39	44	0·3	1	6·6	0·0

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



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 17th February, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Fresh or strong southwest to west winds, veering northwest later; cloudy, dull at times, periods of rain, with sleet or snow on high ground in the North, becoming fairer later; becoming rather cold, local frost at night.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland	Fresh or strong squally north or northwest winds; mainly cloudy, occasional showers of hail, sleet or snow; rather cold, frost at night.
19 S. E. Ireland 20 S. W. Ireland	As 1 - 10.

GENERAL INFERENCE.

A depression is centred between Iceland and Norway and another northwest of Ireland will move southeast. Rain will spread to all districts and temperature will tend to fall.

FURTHER OUTLOOK.

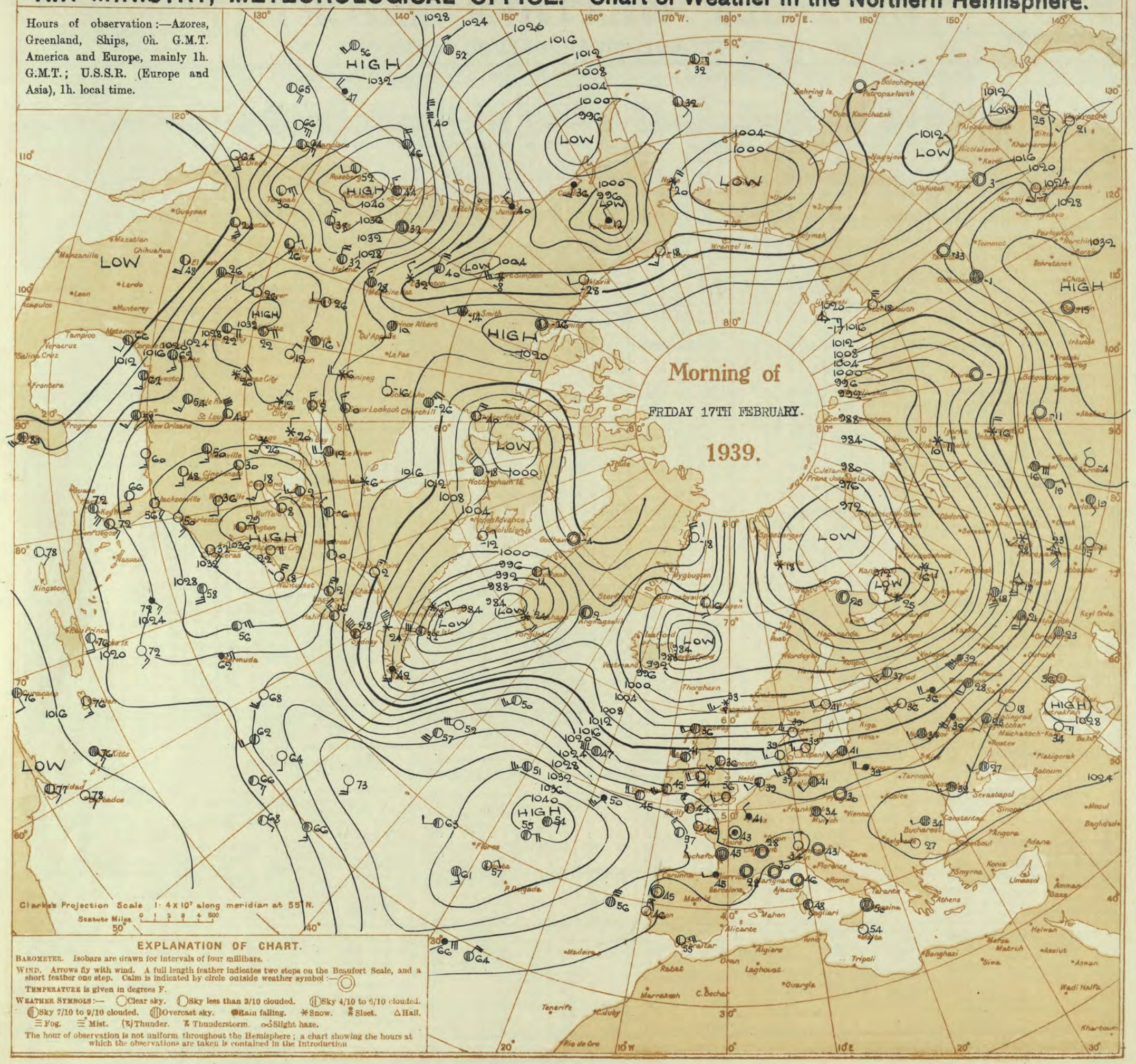
None issued.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2. 6.737/3640. m.8086. D.3768. Gp.348. 32200. 2/39.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 17th February, 1939.
No. 28211

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0-12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0-10 (12)	Cloud Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1022.4	-10	W'S	3	zo	36	92	6	—	—	—	0	0	—
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1023.2	-4	NW	3	zo	36	75	5	—	—	—	0	0	—
	Manston ...	154	1021.8	-8	W'N	2	zo	34	85	5	—	—	—	0	0	—
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1020.3	-6	W'N	2	b	37	75	7	—	—	—	0	0	—
	Mildenhall ...	19	1021.0	-6	SW'W	3	zo	31	85	6	—	—	—	0	0	—
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1023.0	-12	WNW	4	bcjp	42	85	8	2	—	—	4-6	4-6	2500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1022.6	-10	WNW	3	b	42	92	8	—	—	—	0	0	—
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1024.9	-14	W	3	bc	43	85	8	4	—	—	2-3	2-3	2500
	Scilly (St. Mary's)	163	1025.1	-16	NW'W	5	bc	44	85	8	8	4	—	4-6	4-6	1500
	Guernsey ..	175	1023.9	-12	W	1	bc	43	85	9	—	3	—	0	2-3	—
6	Pembroke ...	142	1022.8	-10	NW	4	bcq	43	85	7	5	—	—	2-3	2-3	1500
7	Holyhead ...	26	1019.1	-18	W'S	4	b	41	75	8	—	—	8	0	1	—
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1016.5	-10	W	4	b	37	85	5	—	—	—	0	0	—
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1015.4	-10	SW	3	bc	36	75	7	5	—	—	2-3	2-3	1500
11	St Abbs Head ..	280	1012.0	-20	SW	6	bcq	34	85	8	4	4	—	1	2-3	4000
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1017.1	-18	W	5	bc	39	85	8	4	—	—	2-3	2-3	4000
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1005.4	-26	WSW	4	bc/rs	36	92	7	5	—	—	2-3	2-3	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1003.2	-28	SW	4	c/ps	34	97	8	5	7	—	4-6	7-8	1500
16	Lerwick ...	156	998.5	-24	WSW	5	psh	33	97	8	8	7	—	7-8	10	800
17	Blacksod Point	18	1015.4	-28	W	5	c	42	92	7	9	—	—	10	10	800
18	Malin Head ...	84	1012.5	-34	W	4	cjp	41	85	6	9	2	—	7-8	9+	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1020.5	-14	WSW	5	c/pr	45	97	7	8	—	—	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0-12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0-10 (26)	Cloud Amount Total 0-10 (27)	Height of Base (feet) (28)
London (Kew)	1016.8	-14	SSW	2	zo	33	92	5	—	2	8	0	9+	—
Croydon	1020.4	-14	SSW	3	zo	32	92	6	5	4	2	1	7-8	4000
S. Farnborough	1019.1	-16	SW	1	zo	32	92	6	—	2	—	0	9+	—
Boscombe Down	1019.5	-16	SSW	1	zo	32	97	6	5	2	—	7-8	10	1500
Calshot (Sthmtn.)	1020.3	-20	SW	3	zo	34	97	6	3	3	5	Tr	2-3	2500
Lympne	1021.0	-14	W	1	zo	32	92	5	—	—	1	0	2-3	—
Manston	1019.5	-14	SWW	2	m	30	97	4	—	—	6	0	7-8	—
Shoeburyness	1019.5	-8	WSW	2	c	35	92	5	—	7	—	0	9	—
Felixstowe	1019.2	-8	W'N	3	zo	34	92	6	—	—	2	0	4-6	—
Gorleston	1018.3	-12	W'N	3	c	32	97	6	—	1	—	0	7-8	—
Mildenhall	1017.6	-38	SSW	3	zo	32	97	6	5	—	5	1	2-3	4000
Cranwell	1016.2	-20	SW'W	3	zo	34	92	6	5	7	—	9+	9+	4000
Birmingham	1017.1	-20	SSW	3	c	35	85	8	—	1	—	0	10	—
Upper Heyford	1018.7	-20	SW	3	m	31	97	4	5	3	—	9	10	2500
Ross-on-Wye	1017.9	-24	S'W	2	c	37	85	7	5	1	—	2-3	10	1500
Hartland Point	1017.8	-38	WNW	4	pr	44	85	8	8	—	—	7-8	7-8	2500
Bristol	1019.0	-18	S	3	c	37	85	7	5	7	—	4-6	9	1500
Portland Bill	1019.8	-18	W	3	c	43	92	8	5	—	—	7-8	7-8	2500
Plymouth	1020.4	-24	N	1	zo	36	97	6	5	—	7	2-3	10	2500
The Lizard	1020.8	-20	W'S	5	c	44	75	8	8	2	—	7-8	10	2500
Scilly (St. Mary's)	1020.6	-26	W'N	5	c/pr	44	92	8	8	6	—	4-6	7-8	1500
Guernsey	1020.3	-12	W	1	c	43	75	9	2	2	—	4-6	7-8	2500
Pembroke	1017.2	-18	W'N	5	prs	44	85	7	8	—	—	9+	9+	1500
Holyhead	1012.3	-26	SW'W	5	roro	42	85	8	9	2	—	4-6	10	1500
Chester (Sealand)	1014.6	-30	SSE	2	bc	39	85	7	5	7	—	1	4-6	4000
Manchester	1014.9	-24	S	2	zo	34	85	6	5	—	—	7-8	7-8	4000
Spurn Head	1014.4	-20	SW'S	4	bc	34	92	6	—	5	8	0	4-6	—
Catterick	1011.5	-26	SW	4	c	39	75	7	5	7	—	1	7-8	1500
Tynemouth	1009.6	-24	SW	4	bc	40	75	7	2	4	—	4-6	4-6	1500
St Abbs Head	1005.5	-20	SW	7	cq	37	85	8	9	2	9	4-6	7-8	2500
Leuchars	1004.7	-24	WSW	3	iro	38	92	7	5	2	—	9	10	800
Renfrew (Abbots I.)	1006.2	-30	SW	5	roro	40	85	5	5	—	—	10	10	2500
Eskdalemuir	1008.6	-26	SW'W	5	iro	35	92	7	6	—	—	10	10	1500
Point of Ayre	1010.4	-24	W'S	5	dod	41	92	7	8	1	—	4-6	10	1500
Tiree	1002.3	-26	SW	5	c	43	85	7	8	—	—	7-8	7-8	1500
Stornoway	999.7	-22	WSW	3	prs	37	92	7	8	7	—	4-6	9+	2500
Dalwhinnie	1002.1	-38	SW	4	s	34	92	5	5	—	—	10	10	1500
Aberdeen	1002.1	-30	SW'W	4	bc	37	85	7	1	3	5	Tr	2-3	1500
Wick	997.7	-30	SW	4	c	35	97	8	5	7	2	7-8	9+	1500
Lerwick	992.0	-18	SSW	6	c/ps	35	85	8	8	7	—	7-8	10	800
Blacksod Point	1005.7	-50	SW	4	c	47	97	7	9	—	—	10	10	800
Malin Head	1005.4	-66	S'W	4	roro	41	97	6	8	2	—	4-6	9	800
Aldergrove	1008.9	-22	SW'W	4	c	39	85	7	5	—	—	10	10	1500
Birr Castle	1011.1	-40	WSW	3	c	42	92	8	8	—	—	7-8	7-8	1500
Valentia Obsy. †	1013.1	-40	SW'W	5	iro	47	85	7	5	—	—	10	10	1500
Roches Point	1014.7	-34	W	4	iro	45	92	7	6	7	—	4-6	7-8	1500

PAST 24 HOURS

Stations	State of Ground 0-9 (29)	Sea 0-9 (30)	Temperature Max. Day 7h-18h °F. (31)	Temperature Min. Night 18h-7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h-18h mm. (34)	Rainfall Night 18h-7h mm. (35)	Sunshine 16th Hrs. (36)
London (Kew)	1	*	50	33	22	—	Tr	6.7
Croydon	1	*	51	31	26	—	—	6.7
S. Farnborough	0	*	51	30	22	—	Tr	6.6
Boscombe Down	5	*	49	29	21	—	—	5.5
Calshot (Sthmtn.)	1	2	50	33	29	—	—	2.4
Lympne	3	§2	47	32	24	0.1	—	1.2
Manston	3	*	48	29	22	—	—	2.1
Shoeburyness	3	*	52	34	21	—	—	5.2
Felixstowe	0	2	49	33	28	Tr	—	*
Gorleston	3	2	49	32	30	—	—	7.0
Mildenhall	1	*	50	31	25	—	Tr	5.6
Cranwell	0	*	47	32	29	—	—	4.9
Birmingham	1	*	47	33	25	—	—	5.0
Upper Heyford	1	*	49	29	18	—	—	*
Ross-on-Wye	1	*	49	34	26	—	—	4.5
Hartland Point	1	3	47	41	36	—	1	3.1
Bristol	1	*	48	33	22	Tr	Tr	4.4
Portland Bill	1	3	48	40	*	—	—	*
Plymouth	1	1	49	36	31	Tr	—	1.9
The Lizard	1	3	52	41	*	0.5	—	3.5
Scilly (St. Mary's)	1	3	51	43	*	—	0.2	3.0
Guernsey	1	1	48	41	35	3	0.6	0.0
Pembroke	1	2	47	41	*	—	0.2	5.2
Holyhead	1	3	47	40	36	—	0.2	7.1
Chester (Sealand)	1	*	49	34	23	0.1	1	4.8
Manchester	3	*	47	31	24	—	—	4.7
Spurn Head	0	2	47	33	*	—	—	4.7
Catterick	1	*	46	33	24	Tr	—	6.8
Tynemouth	1	1	45	34	30	—	—	5.8
St Abbs Head	0	4	42	32	*	—	—	*
Leuchars	1	*	44	33	29	—	Tr	8.1
Renfrew (Abbots I.)	1	*	44	35	32	0.5	2	4.1
Eskdalemuir	1	*	40	31	29	3	0.1	1.9
Point of Ayre	1	3	46	38	*	1	Tr	5.5
Tiree	1	*	43	37	35	1	4	4.6
Stornoway	1	2	40	34	*	3	5	0.9
Dalwhinnie	7	*	35	30	27	3	4	2.5
Aberdeen	0	1	44	34	28	—	—	8.4
Wick	4	2	42	32	*	0.4	1	*
Lerwick	4	*	46	30	*	0.3	0.4	1.6
Blacksod Point	1	4	52	40	*	1	3	*
Malin Head	1	4	43	37	*	0.6	6	4.1
Aldergrove	1	*	44	34	30	0.3	—	5.6
Birr Castle	1	*	45	34	26	0.1	0.3	4.7
Valentia Obsy. †	1	4	47	40	32	1	2	5.1
Roches Point	1	3	47	38	*	0.6	0.1	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	cm,bcy	bcybczy	bczmx	50	33	22	—	Tr	6.7	•	•	5
Croydon	217	cmozoy	czoy	bzmwmx	51	31	26	—	—	6.7	•	•	6
Greenwich (Royal Observatory)	149	cy	cy	cbxcm	50	33	26	—	Tr	4.9	40	87	4
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	4.3	•	•	•
Westminster (St James' Park)	27	•	•	•	52	34	26	—	—	5.1	61	92	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	50	34	29	—	—	5.1	49	90	•
Camden Square	110	bc	bc	•	52	34	27	—	—	•	•	92	•
Kensington	80	bc	bc	•	52	34	27	—	—	4.6	At 18h. 53	90	•
Hampstead Observatory	450	bc	bc	o	50	33	27	—	—	5.8	•	97	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 17th.

South Kensington Max.	Time.	Min.	Time.
0.6	18-20h 16th	<0.3	3-5h 17th

Kew Observatory Max.	Time.	Min.	Time.
0.4	18h 16th	<0.1	11h 16th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 16th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 17th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1024.1	WSW	2	zo	46	1021.1	WNW	2	tlr	39	48	39	—	4
Brussels	1022.4	NNW	2	rr	43	1019.7	SW	1	F+	37	45	36	1	1
Berlin	1019.6	WSW	4	ido	43	1018.1	WSW	3	roro	39	45	37	Tr	0.5
Zurich						1022.3	SE	1	zo	32		36		—
Rome						1013.2	NE	2	bc	39	•	•		—

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 18th February 1939

No. 28212

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (12)	Height of Base (feet) (14)
1	London (Kew)	1014·4	-34	SW'S	4	z	45	75	6	8	-	1	9	9+	2500
	Croydon ...	1016·1	-30	SSW	4	z	43	75	6	7	7	8	2-3	7-8	2500
	S. Farnborough	1014·7	-34	SW'W	4	c	44	75	7	7	-	-	10	10	5700
	Boscombe Down	1015·0	-30	SW	3	c/d	43	75	7	5	2	-	4-6	10	2500
	Calshot (Sthmtn.)	1016·6	-26	SW'S	4	c	46	75	8	1	7	-	2-3	10	2500
	Lympne ...	1016·8	-26	SW'W	3	c	42	75	7	1	2	-	2-3	10	1500
	Manston ...	1015·5	-30	WSW	4	c	43	75	6	-	-	6	0	9+	-
2	Shoeburyness ...	1015·1	-26	SW	4	c	44	75	6	1	7	1	Tr	7-8	4000
	Felixstowe ...	1014·6	-32	WSW	4	c	43	75	7	1	1	6	Tr	9+	2500
	Gorleston ...	1013·6	-30	SW'W	4	bc	44	65	6	-	4	-	0	4-6	-
	Mildenhall ...	1013·2	-30	SW	4	z	44	75	6	1	3	1	1	2-3	4000
	Cranwell ...	1011·3	-30	SW	4	z	44	75	6	1	7	-	4-6	4-6	1500
3	Birmingham ...	1011·7	-28	S	3	c	40	85	6	5	-	-	10	10	800
	Upper Heyford	1014·0	-32	SW'S	3	c/r	42	85	7	5	7	-	2-3	10	1500
4	Ross-on-Wye	1011·7	-30	SW	3	c	43	85	7	5	-	-	10	10	2500
5	Hartland Point	1012·1	-32	W	6	ir	46	92	8	9	2	-	9+	10	1500
	Bristol ...	1013·8	-36	SW	5	c	45	75	8	5	2	-	4-6	9+	1500
	Portland Bill ...	1014·5	-28	WSW	4	c	44	92	8	5	7	-	7-8	10	2500
	Plymouth ...	1014·7	-36	SW'W	4	c/r	47	85	7	5	2	-	4-6	10	1500
	The Lizard ...	1015·1	-20	SW	5	c/pr	47	92	8	8	2	-	7-8	10	1500
	Scilly (St.Mary's)	1014·2	-34	WSW	4	c	48	92	8	8	7	-	4-6	10	1500
	Guernsey ...	1017·4	-20	SW'W	3	c	47	75	8	8	3	-	2-3	9+	2500
6	Pembroke ...	1010·9	-26	WSW	5	id	46	92	6	5	-	-	10	10	1500
7	Holyhead ...	1007·0	-32	SW	4	r	46	92	6	6	2	-	7-8	10	800
	Chester(Sealand)	1008·8	-36	SSW	2	ir	46	75	8	5	7	-	7-8	10	1500
8	Manchester ...	1008·9	-36	SSW	4	r	42	85	6	5	7	-	4-6	10	2500
10	Spurn Head ...	1008·8	-36	SW'W	5	bc	44	65	5	-	-	5	0	4-6	-
	Catterick ...	1005·3	-22	SW'W	6	z	41	85	6	5	2	-	4-6	9+	1500
	Tynemouth ...	1004·0	-32	WSW	4	c	44	75	6	2	3	-	7-8	9+	2500
11	St.Abbs Head...	998·8	-40	SW	7	cq	44	65	9	8	6	-	4-6	7-8	1500
	Leuchars ...	999·3	-36	SW	4	ir	42	92	7	9	7	-	9	9+	800
12	Renfrew (Abbotsl.)	1001·0	-30	SW	5	dd	43	92	6	6	2	-	9+	10	800
	Eskdalemuir ...	1002·5	-26	SW	6	rr	40	92	6	6	-	-	10	10	450
	Point of Ayre...	1004·3	-24	W'S	6	ir	45	92	7	8	2	-	9	10	1500
13A	Tiree	1001·3	+10	NW	5	bc	45	85	8	5	7	-	4-6	4-6	1500
13B	Stornoway ...	998·6	0	WSW	7	c/pr	38	75	7	8	-	-	9	9+	2500
15	Dalwhinnie ...	998·7	-26	SW	3	s	36	92	5	8	-	-	10	10	1500
	Aberdeen ...	996·6	-32	WSW	4	c	44	75	7	1	2	-	2-3	9	1500
	Wick ...	995·3	-8	WNW	5	c/ps	38	92	6	5	2	-	7-8	10	800
16	Lerwick ...	989·2	0	WNW	6	sh	33	85	7	8	7	-	7-8	9+	800
17	Blacksod Point	1006·9	+18	WNW	5	cq	50	92	8	9	-	-	9	9	800
18	Malin Head ...	1002·2	+2	W	4	c/pr	47	92	7	2	7	-	4-6	7-8	1500
	Aldergrove ...	1003·4	-26	WSW	4	d	44	97	5	6	-	-	10	10	1150
19	Birr Castle ...	1006·3	-16	NW	3	c/pr	50	92	8	3	7	-	2-3	9	1500
20	Valentia Obsy. †	1011·5	+10	NW'W	5	pr	51	85	6	6	-	-	10	10	800
	Roches Point	1008·9	-28	W'N	4	c	52	85	8	3	4	-	4-6	7-8	1500

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

District	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1010·4	-18	SSW	4	z	45	85	6	5	7	-	7-8	10	2500	1	*
	Croydon ...	1011·1	-22	SSW	4	z	43	85	6	5	7	-	7-8	9+	2500	1	*
	S. Farnborough	1010·9	-18	SSW	4	ir	44	85	7	6	2	-	9+	10	2500	0	*
	Boscombe Down	1010·2	-26	SSW	4	ir	44	92	7	6	-	-	10	10	1500	1	*
	Calshot (Sthmtn.)	1012·6	-14	SSW	4	ir	45	92	8	5	-	-	10	10	1500	1	2
	Lympne ...	1013·3	-22	SW	4	c	40	92	7	5	3	1	4-6	9	5700	1	§ 3
	Manston ...	1011·6	-14	SW	4	c	41	85	7	5	7	-	4-6	9+	2500	1	*
2	Shoeburyness ...	1011·0	-20	SSW	3	c	43	75	7	5	-	-	9+	9+	5700	1	*
	Felixstowe ...	1010·6	-18	WSW	4	c	42	75	6	5	-	-	9+	9+	4000	0	2
	Gorleston ...	1009·3	-10	SW	4	c	43	75	6	5	3	-	7-8	9+	2500	0	2
	Mildenhall ...	1008·5	-18	SSW	4	z	44	75	6	5	2	-	7-8	10	2500	1	*
	Cranwell ...	1006·6	-26	SW'S	4	z	42	85	6	5	2	-	9	10	7200	0	*
3	Birmingham ...	1007·0	-16	SSW	3	r	42	97	5	6	-	-	10	10	450	1	*
	Upper Heyford	1009·4	-20	SSW	3	ir	43	85	7	5	2	-	9+	10	1500	1	*
4	Ross-on-Wye	1007·9	-14	SW	4	id	45	85	6	6	-	-	10	10	1500	1	*
5	Hartland Point	1008·5	-6	NW	5	c/d	47	97	6	5	7	-	7-8	9	1500	1	3
	Bristol ...	1009·2	-22	SW	5	id	45	85	7	5	-	-	10	10	1500	1	*
	Portland Bill ...	1010·5	-24	WSW	4	c	45	92	8	5	-	-	10	10	2500	1	4
	Plymouth ...	1009·7	-22	SW'W	5	dd	47	97	5	-	2	-	10	10	220	1	3
	The Lizard ...	1010·6	-6	W	3	r	47	97	6	5	-	-	10	10	1500	1	2
	Scilly (St.Mary's)	1011·3	0	NW	5	c	49	97	7	8	6	-	4-6	9+	1500	1	3
	Guernsey ...	1013·3	-20	SSW	3	rr	46	92	6	5	-	-	10	10	1500	1	3
6	Pembroke ...	1008·0	-10	NW	3	c/r	48	97	7	8	6	-	4-6	9+	1500	1	3
7	Holyhead ...	1005·7	+10	WNW	4	c/r	47	92	7	9	8	-	7-8	9+	1500	1	2
	Chester(Sealand)	1005·2	-10	WSW	3	c/r	47	85	6	5	7	-	9	10	2500	1	*
8	Manchester ...	1004·8	-14	SW'S	3	rr	44	97	4	6	2	-	9	10	450	1	*
10	Spurn Head ...	1004·3	-20	SW	5	ir	43	85	6	5	2	-	9+	10	1500	1	3
	Catterick ...	1002·6	-12	W'S	2	c/r	44	92	7	5	7	-	9	9+	1500	1	*
	Tynemouth ...	1001·1	-6	W	4	c/r	45	85	5	9	-	-	7-8	7-8	1500	1	2
11	St.Abbs Head...	1000·4	+20	WNW	5	bc	42	65	8	2	4	9	2-3	4-6	2500	0	4
	Leuchars ...	1001·4	+32	WNW	4	bc	41	65	8	8	4	1	2-3	4-6	1500	1	*
12	Renfrew (Abbotsl.)	1004·1	+38	NW'W	4	bc	41	65	8	2	6	-	2-3	4-6	2500	1	*
	Eskdalemuir ...	1002·9	+22	NW'N	4	bc	39	85	8	7	-	1	4-6	4-6	2500	1	*
	Point of Ayre...	1005·6	+22	N'W	5	c	44	85	8	8	-	5	7-8	9+	1500	1	3
13A	Tiree	1006·0	+26	NW'W	6	c	43	75	8	8	-	-	7-8	7-8	1500	0	4
13B	Stornoway ...	1001·7	+20	WNW	7	c	39	55	7	5	7	-	4-6	9+	2500	1	3
15	Dalwhinnie ...	*	+22	W	3	c	34	75	7	8	-	1	9	9+	2500	4	*
	Aberdeen ...	1000·0	+26	NW'N	4	bc	36	75	7	9	-	-	2-3	2-3	800	1	1
	Wick ...	997·2	+14	NW	5	ps	34	85	6	5	7	-	7-8	9+	1500	4	2
16	Lerwick ...	990·0	-4	WNW	5	c/ps	32	85	7	9	7	-	4-6	7-8	800	7	*
17	Blacksod Point	1012·6	+26	WNW	4	bc	45	85	8	4	-	2	2-3	4-6	2500	1	3
18	Malin Head ...	1008·2	+58	N'W	4	c/p	44	75	8	8	4	2	4-6	7-8	4000	1	4
	Aldergrove ...	1007·6	+38	NNW	3	bc/pr	42	75	8	8	-	-	4-6	4-6	1500	1	*
19	Birr Castle ...	1010·2	+30	NW	3	c/pr	46	85	8	8	7	-	7-8	9	1500	1	*
20	Valentia Obsy. †	1014·8	+22	N'W	6	pr	49	85	6	6	-	-	10	10	1500	1	4
	Roches Point	1011·3	+26	NW	5	bc/pr	49	85	8	3	-	5	2-3	4-6	1500	1	5

PAST 24 HOURS.

District	Stations.	Weather 7h.—13h. 17th. (37)	Weather 13h.—18h. 17th. (38)	Weather 18h. 17th to 1h. 18th. (39)	Weather 1h.—7h. 18th. (40)
1	London (Kew)	cmxcm	cm	cmcdm	cbcbmx
	Croydon ...	cm, ⊕	cz	irddd	bbz
	S. Farnborough	cmcz	ccir	circ	cbw
	Boscombe Down	cmidc	idcrr	irrrid	cbc
	Calshot (Sthmtn.)	cm,rc	cir	crrDrb	bbw
	Lympne ...	bcomc	cbcc	cdfir	Fdirb
	Manston ...	cm	mbcz	crrm	crrbm
2	Shoeburyness ...	xcmbcz	cpbcc	crrc	cbc
	Felixstowe ...	bcmom	cbc	crrrrc	c,b
	Gorleston ...	cbcz	bcc	coir	irrbbc
	Mildenhall ...	bcmcmbcm	cmbcc	crrcm	cmcbcbm
	Cranwell ...	cmbcz	cbczcz	cbcrb	bmx
3	Birmingham ...	cpr	odir	orbc	bc.
	Upper Heyford	cfmrc	cr	crdbc	bcb
4	Ross-on-Wye	cdc	c	dcopcb	bcb
5	Hartland Point	Fdirc	irddo	crbcb	bbc
	Bristol ...	c	cidc	cidbc	bcbxm
	Portland Bill ...	c	c	cbc	bc
	Plymouth ...	cmcir	cidrdd	oddpr	bcb
	The Lizard ...	cprc	cm	cbcb	bbcw
	Scilly (St.Mary's)	cpcq	corrc	bcb	c
	Guernsey ...	cprc	irrr	prrcbc	bbc
6	Pembroke ...	pcmqidc	oifirc	bcb	bbcc
7	Holyhead ...	rrmc	ridc	cb	b,c
	Chester(Sealand)	bcxcr	crrm	cbbc	bcpr
8	Manchester ...	cm,rr	rrmcmm	crmcb	bbm
10	Spurn Head ...	bcz	coir	rcqb	bqbc
	Catterick ...	ccm	irrc	ccirb	bx
	Tynemouth ...	bcc	coir	cbbc	bc
11	St.Abbs Head...	cq	crqbc	bccqy	cbcqy
	Leuchars ...	cidir	cirbc	bcc	c,bx
12	Renfrew (Abbotsl.)	rrirD	rdqprbc	bccbc	bcbbc
	Eskdalemuir ...	cirorr	orrcbc	bcb	bbx
	Point of Ayre...	dir	rrc	cbc	cpr
13A	Tiree	cidpr	bcc	cphr	c
13B	Stornoway ...	crrPHR	cPHRq	c	c
15	Dalwhinnie ...	csrs	csrs	*	cshb
	Aberdeen ...	bcc	rcphrs	bcsb	b
	Wick ...	rsPS	prpsq	psbcq	bc
16	Lerwick ...	pshtlrisq	cpsh	cpspsh	cpsbc
17	Blacksod Point	prcq	bc	prcq	prc
18	Malin Head ...	cidc	cphrprbc	cbcybc	bcidfo
	Aldergrove ...	irrrddm	ddprbc	bcbbc	bccidm
19	Birr Castle ...	cpr	cpr	cprb	xbcc
20	Valentia Obsy. †	rrirpr	prbccprq	prqidbrc	c
	Roches Point	rrcpc	cprbc	bc	bcc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

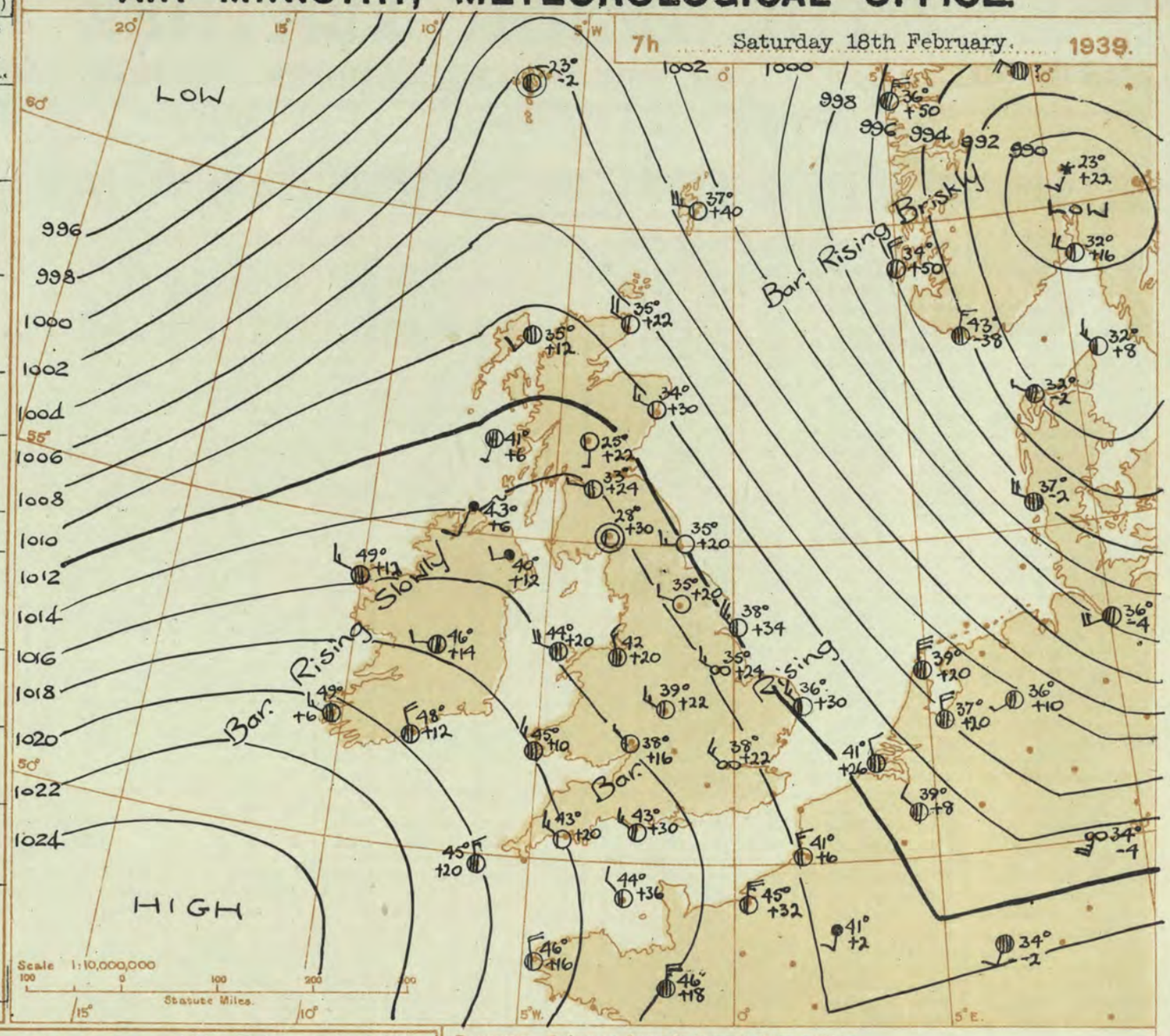
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 17th February 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 16th to 9h. 17th.	Temperature. (°F.) Max. 9h.—17h. 17th.	Rainfall. (mm.) Night. 17h. 16th to 9h. 17th.	Rainfall. (mm.) Day. 9h.—17h. 17th.	Sunshine. (Hrs.) Sunrise to 17h. 17th.	Sunshine. (Hrs.) Sunrise to Sunset. 16th.
1	Tunbridge W.	o	oco	25	45	-	-	1·3	4·5
	Bournemouth	o	o	33	47	-	-	0·0	3·8
	Ventnor ...	ou	oup	38	45	-	Trace	0·0	3·7
	Southsea ...	c	c	35	47	-	-	0·0	2·8
	Bognor Regis	oc	cor	34	46	-	Trace	0·0	4·1
	Littlehampton	c	c	33	45	-	-	0·0	4·1
	Worthing ...	c	c	34	46	-	-	0·0	3·9
	Brighton ...	c	cbcc	34	46	-	-	0·4	3·5
	Eastbourne† ...	c	cbcc	34	47	-	-	1·2	1·6
	Hastings† ...	coc	bc	33	47	-	-	2·1	1·8
	Folkestone ...	mc	bcbbc	33	47	-	-	2·3	0·4
	Dover .	oc	cbc	32	46	-	-	2·2	0·0
	Deal	oc	cb	33	46	-	-	2·8	1·5
	Ramsgate - ...	m	bc	34	46	-	-	3·1	1·9
	Margate ...	c	bc	34	47	-	-	2·9	2·2
2	Southend ...	cmbc	bcc	33	47	Trace	-	2·0	5·7
	Clacton-on-Sea	cmbc	bc	32	45	-	-	2·9	5·0
	Dovercourt ...	xfbcc	bc	32	47	-	-	3·0	5·3
	Lowestoft ...	bzbc	bzbc	30	46	-	-	4·4	7·2
	Skegness ...	cbc	bbc	31	46	-	-	4·1	6·3
	Mablethorpe...	bcb	bco	30	47	-	-	5·5	4·9
	Cleethorpes ...	bc	bcc	31	46	-	-	5·3	6·1
3	Leamington S.	oc	op	31	44	-	Trace	0·0	4·8
4	Cheltenham†	o	opo	32	45	Trace	Trace	0·0	5·0
5	Bath	c	poc	31	46	-	Trace	0·0	3·8
	Weymouth ...	c	c	33	48	-	-	0·0	1·7
	Jersey ...	rc	cpc	39	47	1	Trace	0·0	0·0
	Torquay ...	wco	oc	35	49	-	-	0·2	1·9
	Falmouth	orgro	ogrog	38	49	1	5	0·0	2·6
	Penzance ...	cp	rorr	39	50	0·3	3	0·0	3·4
	St. Ives ...								
	Bude... ...	cd	od	42	48	0·6	1	0·0	3·4
	Ilfracombe ...	bcco	com	42	47	-	0·6	0·0	3·9
6	Aberystwyth	prc	cpr	41	47	1	1	0·0	5·4
7	Llandudno ...	cr	circ	39	48	0·3	0·6	0·1	5·2
	Colwyn Bay...	c	cpc	38	50	0·3	0·3	0·2	3·8
	Rhyl	c	cpr	34	48	1	1	0·0	4·2
8	Wallasey ...	cor	or	36	48	-	0·5	0·0	6·3
	Southport ...	cor	coir	36	45	Trace	0·4	0·0	7·0
	Blackpool ...	crrpr	irodm	40	45	Trace	0·3	0·0	5·5
	Morecambe ...	c	cdr	39	45	Trace	3	0·0	4·8
9	Ilkley... ...	cog	ro	33	43	3	0·5	0·0	4·6
	Harrogate ...	c	err	33	42	Trace	2	0·0	4·6
10	Berwick-on-T.	bccr	circo	34	45	-	0·4	1·8	8·2
11	Dunbar ...	bc	bcpr	34	46	-	2	2·4	6·6
12	Troon... ...	ocopo	popc	36	45	0·5	0·3	0·7	2·0
	Douglas ...	cir	cir	36	46	1	3	0·0	6·6

† Max. Temp. for period 21h. yesterday to 7h. to-day: Min. Temp. 21h.-9h.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 18th February, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England	Moderate northwest winds; bright periods at first, occasional rain to-morrow; chance of local fog at night. Rather mild, but local ground frost at night.
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.	Moderate or fresh southwest to west winds; bright periods, occasional rain; rather mild, but local ground frost at night.
13 A. W. Scotld. B. N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland	Fresh or strong south to southwest winds veering west; bright periods, occasional rain; rather mild.
19 S. E. Ireland 20 S. W. Ireland	As 6 - 12.

GENERAL INFERENCE.

A ridge of high pressure is moving east across the British Isles and will be followed by a low pressure trough. There will be considerable bright periods in most districts, but a belt of rain, perhaps of a thundery type, will pass across the country later. It will be generally rather mild.

FURTHER OUTLOOK.

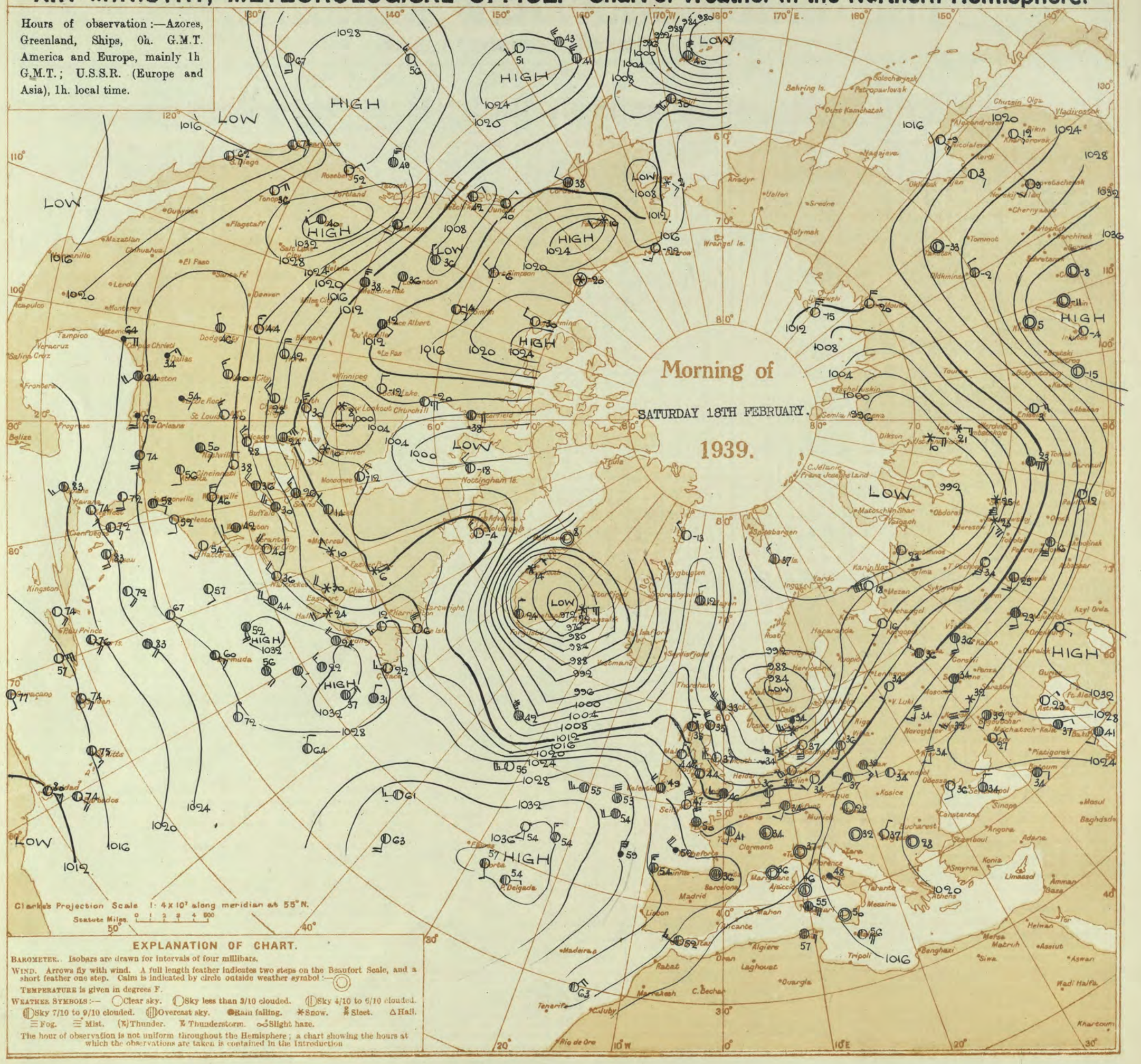
Probably continuing rather mild.

Forecasts issued at 1030 G. M. T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

H.M. Stationery Office Press, Kingsway W.C.2. 9.737/3940. m.8086. D.3169. Gp.548. 32200. 2/39.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 18th February 1939

No 28212

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

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1009·6	+2	W	3	o/d	46	97	6	5	-	-	10	10	800
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1010·7	-6	SW'W	4	rF	43	97	1	-	-	-	10	10	<150
	Manston ...	154	1008·9	-10	SW'W	4	r.r.	44	97	6	6	-	-	10	10	450
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1006·7	0	NW	3	ir.	44	85	6	6	-	-	10	10	1500
	Mildenhall ...	19	1008·2	+14	NW'W	5	z.	44	85	6	5	2	-	4·6	7·8	2500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1014·4	+28	N	5	b	45	92	8	-	-	-	0	0	-
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1011·5	+18	NNW	3	bc	46	92	8	5	-	-	2·3	2·3	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1015·7	+30	N'W	3	b	45	92	8	-	-	-	0	0	-
	Scilly (St. Mary's)	163	1016·6	+24	N'W	6	b	47	92	8	-	-	-	0	0	-
	Guernsey ..	175	1012·1	+14	WNW	2	b	48	92	8	-	-	-	0	0	-
6	Pembroke ...	142	1015·3	+24	N'E	3	b	44	92	7	5	-	-	Tr	Tr	2500
7	Holyhead ...	26	1012·0	+10	NW'W	5	b	44	85	7	8	-	-	1	1	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1016·8	+18	NW'W	5	bq	40	75	7	-	-	-	0	0	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1006·9	+20	W	4	bc	37	65	7	5	-	-	2·3	2·3	1500
11	St Abbs Head ..	280	1006·5	+12	WNW	7	cq	40	55	8	5	6	-	4·6	9+	2500
	Lowchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots L.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1011·4	+22	NNW	5	bc	43	75	8	8	-	-	4·6	4·6	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1009·9	+20	N	3	c	35	75	7	5	2	-	7·8	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1004·5	+32	NW	6	bcq	35	85	8	5	7	-	2·3	4·6	800
16	Lerwick ...	156	995·6	+22	NW	6	c/ps	33	85	7	8	7	-	4·6	7·8	800
17	Blacksod Point	18	1014·9	+4	WNW	5	c	49	92	7	9	-	-	10	10	1500
18	Malin Head ...	84	1012·8	+18	N	3	bc	44	85	7	5	-	-	4·6	4·6	4000
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1019·6	+14	WNW	4	o	49	97	7	5	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	1015·1	+26	NW'W	3	z.	39	75	6	-	-	1	0	Tr	-	1	*
Croydon ...	1014·5	+22	NW'W	3	z.	38	75	6	-	4	-	0	Tr	-	1	*
S. Farnborough	1015·7	+28	W'N	2	b	35	85	8	-	8	1	0	Tr	-	0	*
Boscombe Down	1016·7	+22	WNW	3	bc	34	92	7	5	-	-	4·6	4·6	2500	1	*
Calshot (Sthmtn.)	1016·3	+22	WNW	2	b	36	85	8	-	4	-	0	Tr	-	1	1
Lympne ...	1014·3	+30	NW'N	4	z.	36	75	6	-	-	1	0	Tr	-	1	§1
Manston ...	1013·1	+30	NW'N	4	b	38	75	6	-	-	6	0	1	-	1	*
Shoeburyness ...	1013·6	+22	NW	2	bc	35	85	7	-	3	2	0	2-3	-	1	*
Felixstowe ...	1013·0	+26	NNW	4	b	37	75	7	-	4	-	0	Tr	-	1	2
Gorleston ...	1011·3	+30	NW'N	3	bc	36	85	6	5	4	-	2·3	4·6	2500	1	2
Mildenhall ...	1013·0	+24	WNW	3	z.	34	92	6	-	-	5	0	1	-	1	*
Cranwell ...	1013·1	+24	WNW	3	z.	35	85	6	-	7	5	0	Tr	-	0	*
Birmingham ...	1015·3	+22	WNW	3	bc	39	85	6	5	7	-	2·3	2·3	4000	1	*
Upper Heyford	1015·5	+26	WNW	3	bc	37	85	7	5	-	1	2·3	2·3	1500	1	*
Ross-on-Wye	1016·4	+16	NW	1	b	38	85	8	5	-	-	Tr	Tr	2500	1	*
Hartland Point	1017·9	+16	NW	5	bc	44	92	8	4	-	-	2·3	2·3	1500	1	3
Bristol ...	1017·1	+20	WNW	2	b	35	92	7	1	-	1	Tr	1	2500	1	*
Portland Bill ...	1016·7	+30	NW	3	bc	43	85	8	5	-	-	2·3	2·3	2500	1	3
Plymouth ...	1018·2	+20	NW	3	b	43	85	8	5	-	-	Tr	Tr	2500	1	2
The Lizard ...	1019·0	+16	NW	3	bc	41	92	8	8	4	-	2·3	4·6	2500	1	1
Scilly (St. Mary's)	1020·2	+20	NNW	3	c	45	92	8	4	4	2	2·3	7·8	2500	1	2
Guernsey ..	1017·4	+36	NW'N	2	bc	44	75	8	2	-	-	2·3	2·3	2500	1	2
Pembroke ...	1018·0	+10	NW'N	3	c	45	92	8	5	-	-	9	9	2500	1	2
Holyhead ...	1015·9	+20	WNW	4	c	44	85	8	5	5	-	4·6	9+	4000	1	2
Chester (Sealand)	1015·4	+20	NNW	3	c	42	85	7	8	-	-	9+	9+	2500	1	*
Manchester ...	1015·0	+28	NW	1	z.	36	92	6	1	-	-	Tr	Tr	1500	1	*
Spurn Head ...	1011·8	+34	NW'N	5	bcq	38	75	7	-	-	8	0	2·3	-	0	3
Catterick ...	1013·6	+20	WNW	2	b	35	75	8	-	-	-	0	0	-	3	*
Tynemouth ...	1011·8	+20	W	3	bc	35	75	6	2	-	-	2·3	2·3	2500	1	2
St Abbs Head ..	1012·2	+28	WNW	5	bc	38	55	8	4	4	9	2·3	4·6	2500	0	4
Lowchars ...	1012·5	+24	WSW	2	b	33	75	8	2	-	2	Tr	1	1500	3	*
Renfrew (Abbots L.)	1014·3	+24	W'N	1	bc	33	85	8	4	3	-	2·3	4·6	2500	1	*
Eskdalemuir ...	1014·7	+30	-	0	b	28	85	8	-	-	1	0	1	-	3	*
Point of Ayre...	1014·8	+22	NW'N	3	c	43	85	8	5	-	-	9+	9+	2500	1	2
Tiree	1012·2	+6	SSW	1	c	41	85	7	5	-	-	9+	9+	2500	0	*
Stornoway ...	1011·4	+12	SW	2	c	35	85	7	5	7	-	4·6	7·8	2500	1	1
Dalwhinnie ...	*	+22	S	1	b	25	97	8	-	4	-	0	Tr	-	4	*
Aberdeen ...	1011·0	+30	NW'W	3	b	34	75	7	5	-	5	1	1	4000	4	1
Wick ...	1009·8	+22	NW	4	bc	35	75	8	5	-	-	2·3	2·3	1500	4	2
Lerwick ...	1005·5	+40	WNW	5	bc	37	75	8	8	-	-	4·6	4·6	800	7	*
Blacksod Point	1017·3	+12	WNW	3	c	49	85	7	5	-	-	10	10	1500	1	3
Malin Head ...	1013·9	+6	SSW	2	dm	43	97	4	3	-	-	10	10	800	1	4
Aldergrove ...	1015·4	+12	WSW	2	id.	40	92	5	6	-	-	10	10	450	1	*
Birr Castle ...	1017·1	+14	W	2	c	46	85	7	5	-	-	7·8	7·8	2500	1	*
Valentia Obsy. †	1021·2	+6	NW'W	3	c	49	75	7	5	-	-	9+	9+	2500	1	3
Roches Point	1019·8	+12	NNW	4	c	48	85	8	5	3	-	7·8	7·8	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 17th Hrs. (36)
London (Kew)	46	39	30	-	0·5	0·8
Croydon ...	45	38	34	-	1	0·7
S. Farnborough	45	35	30	Tr	0·5	0·0
Boscombe Down	44	33	31	Tr	0·2	0·0
Calshot (Sthmtn.)	48	34	32	Tr	1	0·0
Lympne ...	46	36	32	-	2	1·3
Manston ...	45	37	34	-	2	2·8
Shoeburyness ...	47	34	31	Tr	1	1·9
Felixstowe ...	45	36	32	-	1	*
Gorleston ...	45	35	34	-	0·4	3·5
Mildenhall ...	45	34	29	-	1	2·9
Cranwell ...	45	34	29	-	Tr	1·1
Birmingham ...	43	37	33	1	0·5	0·0
Upper Heyford	43	36	29	0·1	0·1	*
Ross-on-Wye	45	38	30	Tr	0·2	0·1
Hartland Point	47	43	41	1	0·2	0·0
Bristol ...	46	34	28	Tr	Tr	0·0
Portland Bill ...	47	41	*	-	-	*
Plymouth ...	47	43	38	1	0·1	0·0
The Lizard ...	47	40	*	2	-	0·0
Scilly (St. Mary's)	50	45	*	1	-	0·0
Guernsey ..	48	43	38	1	2	0·2
Pembroke ...	48	43	*	2	-	0·0
Holyhead ...	48	40	40	1	Tr	0·2
Chester (Sealand)	48	40	31	0·5	0·1	0·0
Manchester ...	44	34	27	3	2	0·0
Spurn Head ...	46	37	*	Tr	Tr	4·9
Catterick ...	44	35	29	0·2	Tr	0·0
Tynemouth ...	45	34	30	0·1	-	0·0
St Abbs Head ..	45	37	*	0·2	-	*
Lowchars ...	44	33	25	0·6	-	2·4
Renfrew (Abbots L.)	46	32	27	1	-	1·5
Eskdalemuir ...	43	28	22	6	-	0·0
Point of Ayre...	46	41	*	2	0·1	0·0
Tiree	48	40	39	0·3	0·2	1·9
Stornoway ...	43	33	*	2	-	2·3
Dalwhinnie ...	38	25	17	3	Tr	1·5
Aberdeen ...	44	33	30	3	0·1	2·4
Wick ...	38	32	*	5	1	*
Lerwick ...	36	28	*	5	2	1·0
Blacksod Point	52	43	*	0·4	1	*
Malin Head ...	48	40	*	1	0·2	1·7
Aldergrove ...	46	39	31	1	Tr	0·1
Birr Castle ...	52	39	31	1	0·6	1·1
Valentia Obsy. †	52	48	44	2	0·5	4·3
Roches Point	53	43	*	1	·	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day. mm.	Rainfall Night. mm.	Sunshine to Sunset hrs. Yesterday.	Humidity 15h. G.M.T % Yesterday.	Humidity 9h. G.M.T % To-day.	Visibility 9h.
Kew ...	18	cmxcm.	cm.	cmcddm.	46	39	30	-	1	0·8	•	•	6
Croydon ...	217	cm.⊕	cz.	ircddd	45	38	34	-	1	0·7	•	•	4
Greenwich (Royal Observatory)...	149	c	c	crcdm.	46	38	31	-	1	1·0	67	77	6
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•	0·4	•	•	•
Westminster (St James' Park) ...	27	•	•	•	46	37	30		1	0·9	72	83	•
Regents Pk. (Botanic Gardens)‡...	168	•	•	•	46	36	32	-	1	0·3	69	82	•
Camden Square ...	110	o	c	•	45	36	32	-	1	•	At 12h. 82		•
Kensington ...	80	c	c	•	46	38	32	-	1	0·9	73	80	•
Hampstead Observatory ...	450	obc	od	orb	48	35	28	-	1	0·5	•	88	•

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

South Kensington. Max.	Time.	Min.	Time.	Kew Observatory. Max.	Time.	Min.	Time.
0·3	17-19h 17th	<0·3	2-4h 18th	0·2	17-22h 17th	<0·1	0-1h 18th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 17th February. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 18th February. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Paris ...	1016·6	W	4	c	45	1012·7	SSW	2	d.d.	41	46	39	1	3
Brussels ...	1014·2	SW	2	c	37	1010·4	NW	2	c/d	39	43	32	-	-
Berlin ...						1005·8	S	4	z.	34		32		-
Zurich ...	1018·8	NW	1	r	36						45		0·2	
Rome ...	1016·2	ESE	6	r	52	1014·4	SE	2	c	32	*	*	2	5

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

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

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.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 19th February, 1939.
No. 28213

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1018·2	+6	WNW	2	z_o	45	55	6	8	-	-	4-6	4-6	2500
	Croydon ...	1018·1	+6	NW	2	z_o	45	55	6	2	-	-	7-8	7-8	4000
	S. Farnborough	1018·5	+4	NW'W	3	c	46	65	7	7	4	-	7-8	7-8	2500
	Boscombe Down	1019·3	+6	NW'N	3	c	46	65	8	7	7	-	7-8	9	2500
	Calshot (Sthmtn.)	1019·4	-8	NW	4	c	46	65	8	4	-	-	7-8	7-8	4000
	Lympne ...	1018·3	+14	NNW	4	bc	43	55	8	1	-	-	2-3	2-3	2500
	Manston ...	1017·6	+14	NNW	3	b	43	65	7	1	-	-	1	1	2500
2	Shoeburyness ...	1017·5	+12	NW	3	bc	47	55	8	7	-	-	4-6	4-6	4000
	Felixstowe ...	1016·9	+14	W	4	b	44	55	8	1	-	-	1	1	2500
	Gorleston ...	1015·7	+12	NW'N	4	bc/pr	43	65	6	8	-	-	4-6	4-6	2500
	Mildenhall ...	1017·0	+10	NW'N	3	b	44	55	8	1	-	1	Tr	1	2500
	Cranwell ...	1017·0	+8	NW	3	b	45	55	7	1	-	-	Tr	Tr	4000
3	Birmingham ...	1018·2	+8	WNW	3	c	44	75	6	5	-	-	10	10	1500
	Upper Heyford	1018·4	+6	NW	3	bc	45	65	6	7	-	-	4-6	4-6	4000
4	Ross-on-Wye	1018·6	+4	WNW	3	c	48	75	8	8	1	-	4-6	9+	2500
5	Hartland Point	1020·4	+6	WNW	2	c/d	45	97	6	5	2	-	9+	10	450
	Bristol ...	1019·7	+2	WNW	3	c	47	75	7	7	2	8	4-6	7-8	2500
	Portland Bill ...	1019·7	+8	W	3	bc	47	92	8	2	4	-	4-6	4-6	2500
	Plymouth ...	1020·5	0	W	1	ir_o	48	85	7	6	2	-	9+	10	1500
	The Lizard ...	1021·4	0	NW	4	c	51	85	7	8	3	-	4-6	7-8	2500
	Scilly (St. Mary's)	1022·2	+2	NW'W	4	c	53	85	6	5	3	3	2-3	7-8	2500
	Guernsey ...	1020·3	+6	NW	2	bc	49	75	8	2	-	8	2-3	4-6	2500
6	Pembroke ...	1020·5	+10	NW	3	c	47	97	7	5	-	-	10	10	1500
7	Holyhead ...	1016·8	-2	W	4	c	48	85	7	5	7	-	4-6	9+	4000
	Chester (Sealand)	1017·7	+2	WNW	3	c	47	75	8	6	2	-	4-6	10	1500
8	Manchester ...	1017·2	+2	W'N	3	c	45	75	7	5	7	-	4-6	10	2500
10	Spurn Head ...	1016·0	+16	NW'N	4	bc	42	55	8	-	8	8	0	2-3	-
	Catterick ...	1015·5	0	W'S	3	bc	47	55	8	5	3	-	2-3	2-3	5700
	Tynemouth ...	1014·5	+4	WNW	3	bc	43	45	6	2	3	-	2-3	4-6	1500
11	St. Abbs Head ...	1013·5	-4	NW	2	c	41	55	8	5	6	-	4-6	7-8	2500
	Leuchars ...	1013·6	-8	WSW	2	c	41	65	8	5	7	-	2-3	9+	5700
12	Renfrew (Abbots I.)	1014·8	-10	SW'W	2	o/d	42	85	6	5	-	-	10	10	1500
	Eskdalemuir ...	1014·9	-4	S'W	3	c	39	65	8	5	-	-	9+	9+	800
	Point of Ayre ...	1015·8	-2	W'S	3	c	45	97	7	5	7	-	7-8	10	1500
13A	Tiree ...	1012·3	0	WSW	3	bc	50	85	7	5	7	-	2-3	4-6	2500
13B	Stornoway ...	1009·1	-22	S	6	c	43	92	7	5	-	-	9+	9+	2500
15	Dalwhinnie ...	1013·2	-10	SW	3	c	35	85	7	5	1	-	4-6	10	2500
	Aberdeen ...	1012·4	0	W'N	2	c	40	65	6	-	7	-	0	9+	-
	Wick ...	1010·4	-4	SW	3	c	39	85	8	5	2	-	9	10	1500
16	Lerwick ...	1008·6	+6	WNW	3	bc	39	75	8	5	3	-	4-6	4-6	1500
17	Blacksod Point	1017·8	+2	SW	2	o	50	97	7	5	-	-	10	10	450
18	Malin Head ...	1014·2	+4	W	4	c	49	85	7	4	-	-	7-8	7-8	4000
	Aldergrove ...	1015·8	-2	W	3	o/d	47	85	6	5	-	-	10	10	1500
19	Birr Castle ...	1020·1	+4	WNW	2	c	49	75	8	5	1	-	7-8	10	2500
20	Valentia Obsy. †	1022·4	-2	W	4	c	51	85	8	5	-	-	9+	9+	1500
	Roches Point	1020·8	+2	WNW	3	bc	51	75	8	3	4	-	4-6	4-6	2500

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1018·6	+8	W'S	1	z_o	46	65	5	5	2	-	7-8	10	2500	1	*
Croydon	1018·7	+6	W'N	2	m	44	75	4	5	7	-	7-8	10	4000	1	*
S. Farnborough	1018·9	+8	W'S	1	z_o	45	75	6	5	-	-	10	10	4000	0	*
Boscombe Down	1019·7	+10	W'N	2	c	45	85	7	5	2	-	9	10	2500	1	*
Calshot (Sthmtn.)	1019·7	+6	W'S	3	c	48	75	7	5	-	-	10	10	2500	1	1
Lympne	1019·4	+12	WNW	2	z_o	39	75	6	-	-	-	0	0	-	1	§ 0
Manston	1018·7	+10	W'S	1	b	36	75	6	-	7	-	0	1	-	1	*
Shoeburyness	1018·4	+8	-	0	z_o	39	75	5	-	5	9	0	7-8	-	1	*
Felixstowe	1017·9	+8	SW	2	z_o	41	65	6	-	3	5	0	2-3	-	0	2
Gorleston	1016·9	+10	NW	1	c	40	65	6	-	7	-	0	7-8	-	1	2
Mildenhall	1017·2	+6	SW'W	2	z_o	41	75	6	5	7	-	9	10	4000	0	*
Cranwell	1016·8	+6	W'S	2	z_o	44	75	5	5	7	-	7-8	10	4000	0	*
Birmingham	1018·0	+4	WSW	2	c/pr	45	85	6	6	7	-	9	10	1500	1	*
Upper Heyford	1018·8	+10	W'N	3	c	45	85	7	5	-	-	9+	9+	2500	1	*
Ross-on-Wye	1018·9	+4	W'N	2	c	48	75	8	5	-	-	9+	9+	2500	1	*
Hartland Point	1020·5	+6	WNW	4	c	46	97	7	5	2	-	4-6	9	1500	1	2
Bristol	1019·7	+8	W	3	z_o	45	92	6	5	7	-	7-8	9+	1500	1	*
Portland Bill	1019·5	+2	W	3	c	46	92	7	5	-	-	7-8	7-8	2500	1	3
Plymouth	1021·3	+8	NW'W	2	z_o	49	75	5	5	-	-	9+	9+	1500	1	2
The Lizard	1022·6	+6	WNW	3	c	48	92	7	5	2	-	9	10	1500	1	2
Scilly (St. Mary's)	1022·5	+2	NW'W	4	c	49	92	7	5	5	-	2-3	9+	2500	1	2
Guernsey	1020·7	+6	WSW	2	c	47	85	7	8	-	-	10	10	2500	1	2
Pembroke	1019·8	-2	NW'W	4	c	48	92	7	5	2	-	4-6	9+	2500	1	2
Holyhead	1017·2	+2	WSW	3	c	48	75	7	5	4	-	2-3	9	4000	1	2
Chester (Sealand)	1017·3	+2	W	3	z_o	47	75	6	5	-	-	9+	9+	2500	1	*
Manchester	1016·7	0	W	2	c/r	44	97	5	5	7	-	9	10	1500	1	*
Spurn Head	1015·9	0	WSW	2	c	42	65	6	-	2	-	0	10	-	0	1
Catterick	1015·2	0	W'S	1	c	43	85	7	5	7	-	7-8	10	2500	1	*
Tynemouth	1014·3	-2	WSW	3	c/pr	43	75	6	5	-	-	9+	9+	1500	1	2
St. Abbs Head	1012·0	-10	SW	3	c	41	85	8	5	2	-	7-8	10	2500	0	3
Leuchars	1011·6	-10	SSW	1	c	40	92	6	5	7	-	7-8	9+	1500	1	*
Renfrew (Abbots I.)	1012·6	-12	SW'W	3	ir_o	46	85	6	5	7	-	9	9+	1500	1	*
Eskdalemuir	1013·8	-6	S'W	3	rF	39	97	1	5	-	-	10	10	<150	1	*
Point of Ayre	1015·3	0	WNW	3	c	46	92	7	8	1	-	4-6	10	2500	1	2
Tiree	1008·3	-18	SW'W	5	c	49	92	7	5	-	-	9+	9+	1500	1	3
Stornoway	1005·5	-26	SSW	4	ir_o	47	92	7	5	2	-	9	10	2500	1	2
Dalwhinnie	1010·7	-20	S	3	c	37	92	7	8	4	2	4-6	9	2500	4	*
Aberdeen	1010·1	-18	SW'S	2	m	39	75	4	5	-	-	1	1	2500	1	1
Wick	1006·7	-20	SSW	4	c	39	85	8	5	7	1	4-6	9+	1500	1	2
Lerwick	1005·8	-18	W	4	c	39	75	8	8	7	-	4-6	7-8	1500	6	*
Blacksod Point	1014·9	-12	SW	2	c	50	92	7	5	-	-	10	10	800	1	3
Malin Head	1012·5	-20	W	4	c	48	97	7	8	-	-	9	9	1500	1	4
Aldergrove	1014·6	-8	W'S	4	c	47	85	8	5	-	-	10	10	2500	1	*
Birr Castle	1018·3	-4	SSW	1	id_o	48	97	7	5	-	-	10	10	2500	1	*
Valentia Obsy. †	1021·7	-6	SW'W	4	c	50	92	7	5	-	-	10	10	800	1	3
Roches Point	1020·8	0	W	3	c	50	92	8	5	-	-	7-8	7-8	1500	1	2

PAST 24 HOURS.

Stations	Weather 7h.—13h. 18th (37)	Weather 13h.—18h. 18th (38)	Weather 18h. 18th to 1h. 19th (39)	Weather 1h.–7h. 19th (40)
London (Kew)	bm_oxbcz_o	bcz_ocz_o	cm_o	cm_ocw
Croydon	$bzbcz_oy$	bcz_oycz	czm_obcmy	$cbcm_ow$
S. Farnborough	bbcc	bccbbc	cz_obcb	bbcc
Boscombe Down	bcbbcc	c	cbcbbc	$bccid_o$
Calshot (Sthmtn.)	b,c,bc	bc	c	c
Lympne	bm_oby	$bybz_o$	$bccz_oxbc$	c
Manston	$bbcm_ob$	$bbyz_o$	$b,cbcm_o$	$bcir_oc$
Shoeburyness	bcb	$bcbym_o$	$bccm_o$	cm_o
Felixstowe	bby	$bybm_o$	bm_ocm_o	cm_o
Gorleston	cbcpr	$bccz_o$	coz_o	oz_oc
Mildenhall	bm_oby	bcm_o	$cm_ocir_om_o$	cr_ocm_oc
Cranwell	bm_obz_oy	$bycz_oy$	oz_oir_o	oir_ocm_o
Birmingham	$bcpr_oc$	cpr_o	cr_obco	or_o
Upper Heyford	bcc	c	cir_ob	$bccm_o$
Ross-on-Wye	bbcc	c	cbbcc	c
Hartland Point	$bccd_oc$	c	c	cor_o
Bristol	bcm_oc	c	cm_obcb	$bbccr_o$
Portland Bill	bcc	c	bc	bcc
Plymouth	$bbcm_oc$	$cir_oid_ocz_o$	cz_oc	c
The Lizard	bcc	cbcc	cw	c
Scilly (St. Mary's)	cbcc	c	cbc	$bccp_o$
Guernsey	bc	bcc	cbcwc	cwo
Pembroke	cid_om	m_oc	cid_oq	crrq
Holyhead	c	c	c	rrc
Chester (Sealand)	$cr_od_om_o$	cd_orm_o	cm_o	$cRRr_oq$
Manchester	bm_oc	$cmodd_ofc$	$cm_or_or_ocm$	cm_orrq_oc
Spurn Head	bcqb	$bccz_o$	oz_oor_o	oir_oc
Catterick	by	byc	$ccir_oc$	c
Tynemouth	bc	$bccp_o$	$coir_oc$	c
St. Abbs Head	bccy	c	c	c
Leuchars	bxbcyc	cir_ocm_o	cir_oc	circbc
Renfrew (Abbots I.)	$bccz_oid_o$	$cz_od_od_o$	$cm_or_or_oR$	cRrrb
Eskdalemuir	bcxc	ir_oir_oF	ird_od_o	orcbc
Point of Ayre	cddc	c	c	rrcbc
Tiree	om_orc	codrc	cdrc	cbc
Stornoway	cpr	$cprir_o$	coRR	bor_or_oPR
Dalwhinnie	ciso	cir	*	cirb
Aberdeen	$bbccz_o$	cz_obz	$bcor_o$	okgrbcb
Wick	bcc	c	prerr	crPR
Lerwick	bc	bcc	cid_orr (gale)	crrpr
Blacksod Point	o	id_o	iro	pr_oc
Malin Head	cbcc	cidc	cidcprc	cbcc
Aldergrove	id_oFmm_o	cm_oc	$ccpr_o$	PRc,b
Birr Castle	c	$coid_o$	oid_o	id_obc
Valentia Obsy. †	c	c	cprc	cbcc
Roches Point	cbc	bcc	c	cbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

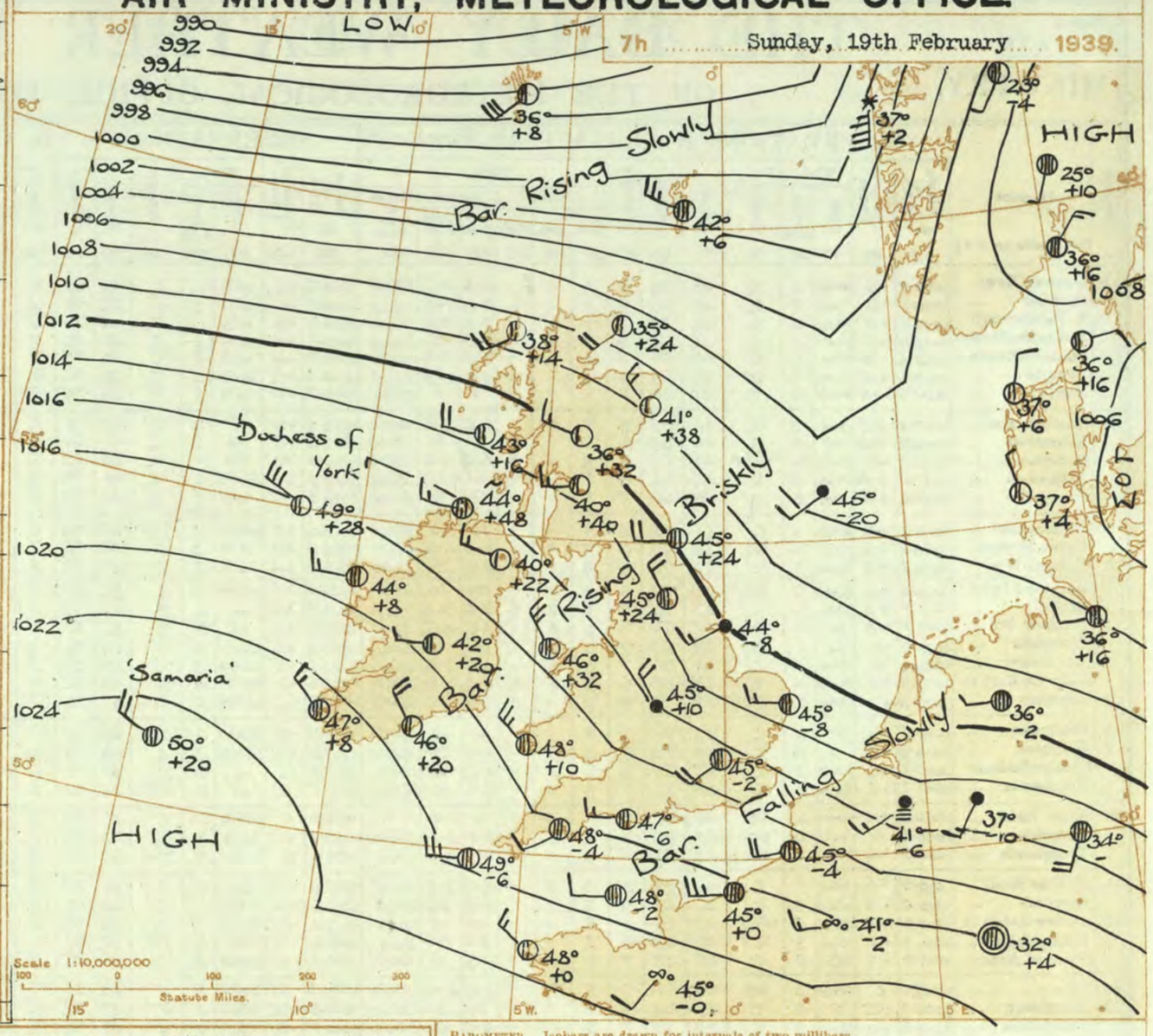
0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than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

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

† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h ..... Sunday, 19th February ..... 1939.



REPORTS from HEALTH RESORTS for 18th February 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 17th to 9h. 18th	Temperature. (°F.) Max. 9h.—17h. 18th	Rainfall. (mm.) Night. 17h. 17th to 9h. 18th	Rainfall. (mm.) Day. 9h.—17h. 18th	Sunshine. (Hrs.) Sunrise to 17h. 18th	Sunshine. (Hrs.) Sunrise to Sunset. 17th
1	Tunbridge W.	bbc	bcm	32	46	2	-	6·4	1·3
	Bournemouth	b	b	37	52	2	-	8·0	0·0
	Ventnor ...	rob	bc	37	49	1	-	6·4	0·0
	Southsea ...	b	bc	37	49	Trace	-	6·5	0·0
	Bognor Regis	b	bcc	36	49	0·3	-	7·6	0·0
	Littlehampton	bbc	bc	36	50	1	-	7·4	0·0
	Worthing ...	b	bcb	37	49	1	-	7·3	0·0
	Brighton ...	b	b	37	49	2	-	7·3	0·4
	Eastbourne† ...	b	b	39	48	4	-	8·2	1·2
	Hastings† ...	bbcb	b	36	48	3	-	8·2	2·1
	Folkestone ...	mob	b	35	46	5	-	7·9	2·3
	Dover ...	bc	bc	38	47	5	-	8·7	2·2
	Deal	b	b	36	45	-	-	8·4	2·8
	Ramsgate ...	bc	bc	36	46	3	-	8·7	3·1
	Margate ...	bcb	bbc	38	44	2	-	8·5	2·9
2	Southend ...	b	b	36	49	1	-	8·5	2·0
	Clacton-on-Sea	b	b	34	45	1	-	8·7	2·9
	Dovercourt ...	doc	b	34	45	Trace	-	8·6	3·0
	Lowestoft ...	bbc	bbc	34	46	1	-	7·4	4·4
	Skegness ...	b	bbc	33	46	Trace	-	7·8	4·1
	Mablethorpe...	b	bbco	32	45	-	-	7·5	5·5
	Cleethorpes ...	b	bbc	34	45	-	-	7·0	5·3
3	Leamington S.	cbc	bcc	33	48	1	-	2·5	0·0
4	Cheltenham†	bcqc	coc	34	49	0·5	-	2·9	0·0
5	Bath	bbc	bcc	36	50	-	-	5·0	0·0
	Weymouth ...	b	c	39	51	1	-	4·4	0·0
	Jersey ...	pcbc	bc	43	50	1	-	7·4	0·0
	Torquay ...	wbbc	coc	38	51	0·4	-	3·7	0·2
	Falmouth	c	c	42	50	0·3	-	3·0	0·0
	Penzance ...	cidb	bpc	42	54	0·3	0·3	3·0	0·0
	St. Ives ...								
	Bude... ...	bccd	cbc	45	49	1	Trace	2·7	0·0
	Ilfracombe ...	rodbc	cbcc	43	48	0·6	-	1·8	0·0
6	Aberystwyth	pro	odc	43	47	1	0·3	0·0	0·0
7	Llandudno ...	pd	doc	42	47	Trace	0·1	0·1	0·1
	Colwyn Bay...								0·2
	Rhyl	c	odc	40	47	Trace	Trace	0·0	0·0
8	Wallasey ...	cp	rc	41	45	Trace	1	0·0	0·0
	Southport ...	bco	orro	39	46	0·1	1	1·3	0·0
	Blackpool ...	bcom	odfem	40	45	0·5	1	0·9	0·0
	Morecambe ...	bbc	c	37	44	Trace	0·5	1·4	0·0
9	Ilkley... ...	b	bco	30	46	3	-	4·4	0·0
	Harrogate ...	b	bbcc	35	46	0·5	-	5·2	0·0
10	Berwick-on-T.	b	coro	33	44	0·1	Trace	4·4	1·8
11	Dunbar ...	bcx	bcpr	33	43	-	Trace	3·6	2·4
12	Troon... ...	pco	copo	38	47	-	0·5	0·0	0·7
	Douglas ...	cir	cid	39	49	1	Trace	0·5	0·0

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

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

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 19th February, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Light to moderate northwest wind; fair; average day temperature, ground frost at night.
7 North Wales ... 8 N.W. England	Moderate northwest to west wind; local showers to-day then fair; average day temperature, ground frost inland at night.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 1 - 6.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Moderate to fresh westerly wind; bright periods and showers, sleet or snow locally on high ground; rather cold.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind west backing southwest, moderate; fair to-day, becoming cloudy with slight rain tomorrow; average temperature.

H.M. Stationery Office Press, Kingsway, W.C.2. 137/3840. m.8086 D.3763 Gp.548 32200. 2/39

GENERAL INFERENCE.

A trough of low pressure moving southeast across England will be followed by a ridge of high pressure. Weather will be fair in most districts, with temperatures about the seasonal average, but a disturbance far out on the Atlantic will soon cause a renewal of unsettled conditions in Ireland.

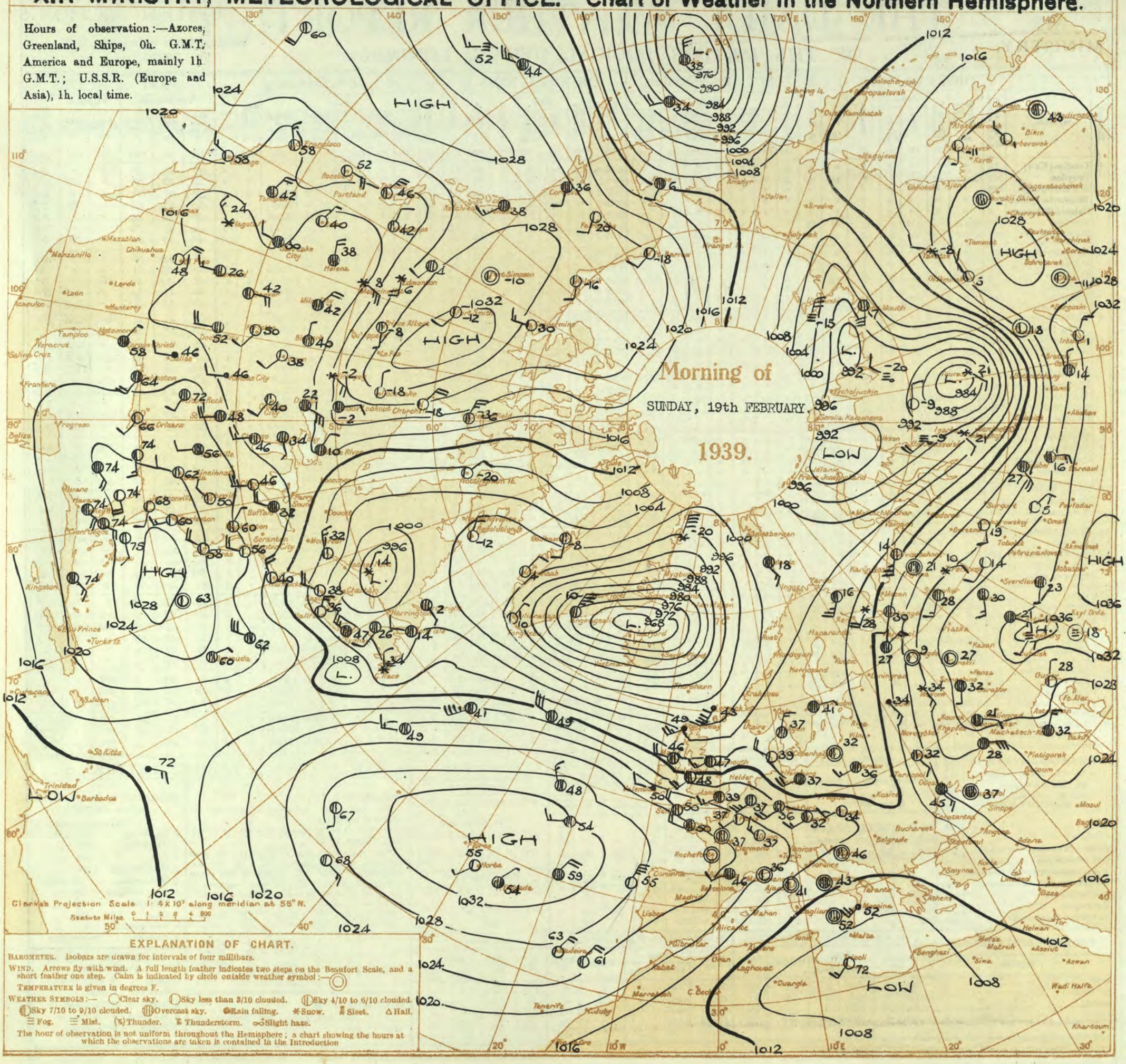
FURTHER OUTLOOK.

Rain spreading from the West.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 19th February, 1939

No. 28213

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1018·9	+2	W'S	3	Zo	39	85	6	5	3	-	4-6	9+	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1019·3	-4	W'N	3	C	41	85	7	-	7	-	0	9+	-
	Manston ...	154	1018·0	-6	W	3	Zo	43	85	6	5	-	-	4-6	4-6	5700
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1016·2	-2	W	2	0	42	75	6	5	-	-	10	10	1500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1020·9	0	W	4	C	46	97	8	5	-	-	9	9	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1020·1	-2	W	3	bc	47	85	8	4	-	-	2-3	2-3	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1023·3	+2	W'N	3	C	47	97	8	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1023·6	+4	WNW	4	bc	48	97	8	*	-	-	4-6	4-6	2500
	Guernsey ..	175	1022·0	+2	WSW	1	C	47	85	7	-	3	-	0	7-8	-
6	Pembroke ...	142	1020·2	0	WNW	4	CQ	48	97	7	5	2	-	4-6	10	1500
7	Holyhead ...	26	1015·7	-10	SW	4	C	48	85	7	5	2	-	7-8	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1013·5	-10	W	4	irO	44	92	6	5	-	-	10	10	800
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1010·9	-8	WSW	3	C	47	85	7	2	-	-	9	9	1500
11	St Abbs Head ..	280	1007·9	-20	SW	4	C	46	85	8	5	2	-	7-8	10	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1013·0	-8	W	5	C	48	92	8	5	1	-	7-8	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1004·0	+28	WSW	5	rrO	49	97	6	5	-	-	10	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1001·8	-10	WSW	4	rr	44	97	7	5	2	-	9	10	800
16	Lerwick ...	156	996·9	-36	SSW	8	rr	43	97	6	6	2	-	4-6	10	450
17	Blacksod Point	18	1016·6	+26	W	5	C	48	75	8	5	-	-	10	10	800
18	Malin Head ...	84	1011·4	+12	W	4	cjp	46	92	6	9	2	-	4-6	9	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1020·0	+6	W	2	id	50	97	6	5	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 19th February

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1016·8	-6	SW	3	C	44	92	7	-	7	-	0	9+	-	1	*
	Croydon ...	1017·8	-2	WSW	4	C	45	92	7	-	7	-	0	10	-	1	*
	S. Farnborough	1017·2	-4	WSW	3	C	45	92	7	1	3	6	Tr	9	1500	0	*
	Boscombe Down	1018·6	+2	W'S	3	id	45	97	6	6	2	-	7-8	10	1500	1	*
	Calshot (Sthmtn.)	1019·4	-0	SW	3	C	45	92	8	5	7	-	7-8	9+	1500	1	1
	Lympne ...	1017·8	-4	W'N	3	C	41	85	7	5	-	-	10	10	4000	1	§2
	Manston ...	1016·2	-6	W	3	C	44	85	6	5	-	-	9+	9+	4000	1	*
2	Shoeburyness ...	1015·9	-4	SW	3	C	43	92	6	-	9	9	0	9	-	1	*
	Felixstowe ...	1014·9	-6	W	4	Zo	44	85	6	5	1	5	7-8	9+	4000	0	2
	Gorleston ...	1013·6	-8	W'N	3	C	45	85	6	5	3	-	4-6	9	2500	0	2
	Mildenhall ...	1014·6	-2	SWW	2	C	43	92	7	5	7	1	4-6	9+	1500	1	*
	Cranwell ...	1013·9	+2	W	3	C	46	92	7	5	-	-	10	10	1500	1	*
3	Birmingham ...	1016·6	+10	NW	4	rr	45	92	5	6	-	-	10	10	450	1	*
	Upper Heyford	1016·7	0	W'S	3	Zo	43	92	6	5	7	1	4-6	10	2500	1	*
4	Ross-on-Wye	1017·8	0	W	2	ir	47	85	6	6	-	-	10	10	1500	1	*
5	Hartland Point	1018·7	-4	W	5	r	47	97	6	-	2	-	10	10	1500	1	3
	Bristol ...	1018·3	-4	W	5	irO	47	97	6	5	-	-	9+	9+	450	1	*
	Portland Bill ...	1020·0	-6	W	3	C	47	92	7	5	-	-	10	10	2500	1	3
	Plymouth ...	1020·8	-4	WSW	2	C	48	92	7	5	-	-	10	10	1500	1	1
	The Lizard ...	1021·8	-10	W	5	C	47	97	8	8	2	-	7-8	9+	2500	1	2
	Scilly (St. Mary's)	1021·9	-6	W	5	cjp	49	97	7	5	2	-	7-8	10	1500	1	3
	Guernsey ..	1021·5	-2	W	2	O	48	97	7	5	-	-	10	10	2500	1	1
6	Pembroke ...	1019·3	+10	WNW	5	c/r	48	97	7	5	6	-	4-6	7-8	1500	1	3
7	Holyhead ...	1017·9	+32	NW'W	5	C	46	85	8	5	-	-	7-8	7-8	4000	1	2
	Chester (Sealand)	1016·7	+30	WNW	3	c/r	46	85	8	6	2	-	9+	10	1500	1	*
8	Manchester ...	1015·7	+20	W'N	3	c/r	44	92	7	5	7	-	7-8	10	1500	1	*
10	Spurn Head ...	1012·0	-8	WSW	3	irO	44	92	6	5	2	-	9+	10	450	1	2
	Catterick ...	1013·1	+24	NW	4	C	45	75	8	5	-	-	10	10	2500	1	*
	Tynemouth ...	1011·4	+24	W	4	C	45	75	7	3	-	-	9+	9+	2500	1	2
11	St Abbs Head ..	1011·0	+40	WNW	5	C	44	65	8	5	2	-	4-6	7-8	2500	0	3
	Leuchars ...	1011·9	+42	W	3	bc	41	85	8	-	7	-	0	2-3	-	1	*
12	Renfrew (Abbots I.)	1015·8	+40	W	3	bc	40	85	8	1	1	-	1	2-3	4000	1	*
	Eskdalemuir ...	1014·2	+40	NNW	3	bc	40	75	8	5	7	-	2-3	4-6	1500	1	*
	Point of Ayre...	1016·6	+20	NW'N	5	bc	45	85	8	4	7	-	1	2-3	2500	1	3
13A	Tiree	1013·4	+16	W'N	4	bc	43	75	8	8	4	-	2-3	4-6	2500	0	*
13B	Stornoway ...	1009·0	+14	WSW	4	bc	38	85	7	5	-	-	4-6	4-6	2500	1	2
15	Dalwhinnie ...	1013·4	+32	WNW	3	b	36	65	8	4	6	-	1	1	4000	4	*
	Aberdeen ...	1010·5	+38	NW	3	b	41	75	8	-	3	-	0	1	-	1	1
	Wick ...	1007·7	+24	WSW	4	bc	35	92	8	5	7	1	2-3	4-6	1500	1	2
16	Lerwick ...	1001·7	+6	WNW	5	c/pr	42	75	8	8	3	-	4-6	7-8	800	1	*
17	Blacksod Point	1019·4	+8	W	3	C	44	85	7	5	-	-	10	10	1500	1	3
18	Malin Head ...	1016·7	+48	W'N	3	C	44	75	8	8	5	-	4-6	9	4000	1	4
	Aldergrove ...	1017·8	+22	WNW	3	b	40	85	8	5	-	-	1	1	2500	1	*
19	Birr Castle ...	1019·6	+20	W	1	bc	42	92	8	5	4	-	2-3	4-6	2500	1	*
20	Valentia Obsy. †	1023·0	+8	NW'W	3	C	47	65	8	5	-	-	9	9	2500	1	3
	Roches Point	1021·9	+20	NW	4	bc	46	85	8	5	7	1	2-3	4-6	2500	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)
London (Kew)	47	42	37	-	-	6·4
Croydon ...	47	39	37	-	-	5·7
S. Farnborough	49	39	33	-	-	4·2
Boscombe Down	50	39	34	-	Tr	5·9
Calshot (Sthmtn.)	49	42	40	-	-	5·3
Lympne ...	44	37	29	-	-	7·8
Manston ...	44	35	31	-	Tr	8·4
Shoeburyness ...	47	39	35	-	-	8·2
Felixstowe ...	45	39	31	-	-	*
Gorleston ...	44	38	35	Tr	-	7·3
Mildenhall ...	45	41	38	-	0·2	8·2
Cranwell ...	47	42	39	-	0·2	6·2
Birmingham ...	47	41	41	0·1	0·4	2·1
Upper Heyford	47	38	32	-	0·1	*
Ross-on-Wye	49	42	37	-	0·3	3·9
Hartland Point	47	46	45	Tr	0·2	1·3
Bristol ...	48	41	36	-	Tr	4·6
Portland Bill ...	47	41	*	-	-	*
Plymouth ...	50	47	42	Tr	-	2·9
The Lizard ...	53	47	*	-	-	3·2
Scilly (St. Mary's)	53	47	*	-	0·5	1·7
Guernsey ..	50	45	41	-	-	7·9
Pembroke ...	49	46	*	0·3	1	2·0
Holyhead ...	51	45	43	-	3	1·0
Chester (Sealand)	47	45	41	0·6	3	0·3
Manchester ...	45	43	39	0·6	3	1·6
Spurn Head ...	45	41	*	-	Tr	7·7
Catterick ...	47	42	38	-	0·1	5·4
Tynemouth ...	45	42	39	0·1	Tr	5·0
St Abbs Head ..	42	39	*	Tr	0·3	*
Leuchars ...	42	38	31	Tr	1	2·7
Renfrew (Abbots I.)	46	40	35	Tr	3	0·0
Eskdalemuir ...	39	38	36	0·4	2	1·6
Point of Ayre...	51	44	*	Tr	1	0·3
Tiree	50	42	36	3	1	0·7
Stornoway ...	47	37	*	0·2	5	0·0
Dalwhinnie ...	38	35	29	0·4	5	0·7
Aberdeen ...	42	38	33	-	1	3·5
Wick ...	41	35	*	-	2	*
Lerwick ...	41	38	*	-	8	5·0
Blacksod Point	51	43	*	0·2	1	*
Malin Head ...	49	41	*	0·5	1	0·2
Aldergrove ...	51	39	32	0·5	2	0·5
Birr Castle ...	51	41	34	0·1	1	0·0
Valentia Obsy. †	52	47	41	-	1	0·9
Roches Point	52	45	*	-	-	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T % (Yesterday)	Humidity 9h. G.M.T % (To-day)	Visibility 9h.
Kew...	18	bm,xbcz	bcz,czO	cm,cw	47	42	37	-	-	6·4	*	*	6
Croydon ...	217	bzbcz,y	bcz,ycz	czmwc	47	39	37	-	-	5·7	*	*	6
Greenwich (Royal Observatory) ...	149	bczO	czO	cdm	47	42	36	-	Tr	5·6	61	92	4
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	5·9	*	*	*
Westminster (St James' Park) ...	[illegible]	*	*	*	49	41	35	Tr		5·7	60	92	*
Regents Pk. (Botanic Gardens)‡ ...	166	*	*	*	47	39	37	-	0·1	5·7	62	92	*
Camden Square ...	110	b	bc	*	49	40	35	-	-	*	*	91	*
Kensington ...	80	b	bc	*	49	42	35	-	0·1	5·2	At 18h. 65	89	*
Hampstead Observatory ...	450	bc	o	or	46	41	36	-	Tr	7·1	*	95	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
0·6	21-22h. 18th.	<0·3	1-5h. 19th.

Kew Observatory Max.	Time.	Min.	Time.
0·4	18h. 18th.	<0·1	4-7h. 19th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 18th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 19th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	1019·7	NNW	3	bc	41	1020·1	W	3	Zo	41	46	36	0·4	0·1
Brussels ...	1017·9	NW	2	bc	37	1016·3	WSW	3	id	41	45	34	-	Tr
Berlin ...	1003·4	WSW	4	c/r	36	1005·5	NW'W	4	C	32	39	32	4	1
Zurich ...	1017·6	WNW	1	c/r	39	1021·6	NW	1	C	36	46	36	0·2	1
Rome ...						1012·3	NE	2	C	45	*	*		-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22 — Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 20th February, 1939.
No. 28214

OBSERVATIONS at 13h. G.M.T. 19th February

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1019·4	+8	NW	4	bc	51	55	7	1	-	4	1	2-3	2500
	Croydon	1019·0	+4	NW	4	zo	50	65	6	1	-	-	2-3	2-3	2500
	S. Farnborough	1019·6	+6	NNW	4	bc	50	65	7	7	-	-	2-3	2-3	4000
	Boscombe Down	1020·4	+2	N'W	2	bc	50	65	8	8	1	-	4-6	4-6	2500
	Calshot (Sthmtn.)	1020·2	-2	NNW	3	bc	51	65	8	1	-	8	1	2-3	4000
	Lympne	1018·7	+6	NW'W	4	c	50	75	6	8	-	-	9	9	1500
	Manston	1018·2	+14	NW	4	c/r	49	75	6	5	-	8	4-6	7-8	4000
2	Shoeburyness	1018·5	+14	NNW	5	c	51	65	8	8	-	1	7-8	7-8	2500
	Felixstowe	1017·6	+18	NW	5	c	49	75	7	5	1	-	9	9+	1500
	Gorleston	1015·9	+20	W'N	5	bc	47	75	6	5	3	-	2-3	4-6	2500
	Mildenhall	1018·1	+20	NNW	4	c	50	65	7	8	-	-	9+	9+	2500
	Cranwell	1018·5	+22	NW'N	4	c	49	55	7	5	7	-	2-3	7-8	2500
3	Birmingham	1020·1	+14	NW	3	c	46	65	6	8	7	-	9	10	1500
	Upper Heyford	1019·7	+6	NNW	4	zo	50	65	6	1	1	-	4-6	4-6	2500
4	Ross-on-Wye	1029·0	+8	NNW	2	bc	50	55	8	7	-	2	4-6	4-6	4000
5	Hartland Point	1023·0	+14	NW	3	c	46	85	8	5	4	-	4-6	7-8	1500
	Bristol	1021·2	+14	NW	3	c	51	65	8	8	4	-	7-8	9	2500
	Portland Bill	1020·6	+10	WNW	3	c	51	85	8	2	-	-	7-8	7-8	2500
	Plymouth	1022·4	+10	N'W	4	bc	51	65	8	8	3	-	4-6	4-6	2500
	The Lizard	1023·6	+14	NW	4	bc	51	85	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1024·8	+12	NNW	4	bc	51	85	8	5	3	-	2-3	4-6	2500
	Guernsey	1021·6	0	W	3	roro	50	97	6	5	-	-	10	10	1500
6	Pembroke	1023·4	+12	WNW	4	bc	47	92	7	5	7	-	2-3	4-6	2500
7	Holyhead	1021·4	+14	NW'W	4	bc	47	75	8	8	8	8	1	7-8	2500
	Chester (Sealand)	1021·3	+18	WNW	5	bc	47	75	8	8	7	1	2-3	4-6	2500
8	Manchester	1020·1	+12	WNW	4	c	47	75	7	1	3	8	2-3	7-8	2500
10	Spurn Head	1017·3	+28	N'W	5	cq	48	65	7	-	3	3	0	7-8	-
	Catterick	1018·4	+18	NW'W	3	c	47	65	8	8	-	9	Tr	9	2500
	Tynemouth	1017·4	+20	NW	4	c	47	55	7	8	3	2	4-6	7-8	2500
11	St. Abbs Head	1016·1	+16	WNW	5	c	45	55	7	7	3	9	4-6	7-8	2500
	Leuchars	1016·1	+14	W	4	bc	48	65	8	8	4	9	2-3	4-6	4000
12	Renfrew (Abbots I.)	1018·0	+10	W'S	3	bc	47	65	8	2	6	5	1	2-3	4000
	Eskdalemuir	1018·5	+6	WNW	3	bc	43	65	8	5	-	2	4-6	4-6	2500
	Point of Ayre	1020·2	+10	NWW	4	bc	48	75	8	5	4	5	Tr	2-3	4000
13A	Tiree	1016·1	+2	W'S	4	bc	47	75	8	8	7	6	4-6	7-8	2500
13B	Stornoway	1012·3	+10	SW	6	bc	45	75	8	5	5	4	4-6	7-8	2500
15	Dalwhinnie	1016·2	+16	SW	4	c	41	75	7	8	6	1	4-6	7-8	2500
	Aberdeen	1014·9	+12	WNW	3	bc	·18	55	7	1	-	2	2-3	2-3	1500
	Wick	1011·6	+16	WSW	4	bc	44	75	8	7	7	1	2-3	4-6	1500
16	Lerwick	1007·8	+30	W	5	bc/pr	43	75	8	8	8	-	4-6	4-6	1500
17	Blacksod Point	1021·2	+6	W	3	c	48	75	8	5	-	-	7-8	7-8	1500
18	Malin Head	1018·7	+6	W'N	4	c/pr	45	85	7	9	4	-	4-6	7-8	1500
	Aldergrove	1020·2	+6	W	3	c	48	75	8	3	7	7	1	10	2500
19	Birr Castle	1022·7	+8	SW	2	c	48	75	8	2	7	-	2-3	9	2500
20	Valentia Obsy. †	1025·5	+2	W	3	c/pr	48	75	8	8	3	-	9	9+	2500
	Roches Point	1025·1	+8	W'N	3	c/pr	49	75	8	3	-	6	4-6	7-8	1500

OBSERVATIONS at 18h. G.M.T. 19th February

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1022·2	+24	NW'W	2	zo	47	65	6	5	-	8	4-6	9+	2500	1	*
	Croydon	1021·5	+26	NW'W	3	m	47	65	4	4	-	4	4-6	7-8	4000	1	*
	S. Farnborough	1022·4	+22	NW'N	2	zo	45	65	6	-	4	9	0	4-6	-	0	*
	Boscombe Down	1022·7	+14	N'E	2	c	46	75	7	5	2	-	9	10	1500	1	*
	Calshot (Sthmtn.)	1022·1	+10	NW	2	zo	46	75	6	5	-	-	9+	9+	2500	1	1
	Lympne	1021·5	+14	N'W	2	c	46	75	7	5	-	-	9	9	4000	1	§ 1
	Manston	1020·9	+14	NNW	2	c	44	85	7	5	-	-	9+	9+	4000	1	*
2	Shoeburyness	1021·1	+14	-	0	c	46	75	7	4	-	-	9	9	4000	1	*
	Felixstowe	1020·9	+18	N	2	zo	44	75	6	5	3	6	2-3	4-6	2500	0	2
	Gorleston	1020·5	+16	N'W	3	bc	42	85	6	-	4	-	0	2-3	-	0	2
	Mildenhall	1020·9	+18	NNW	1	bc	41	85	7	8	6	1	4-6	4-6	4000	0	*
	Cranwell	1021·4	+20	W'N	2	zo	43	65	5	5	4	8	4-6	4-6	4000	1	*
3	Birmingham	1022·5	+12	NW	2	bc	43	65	6	-	7	-	0	4-6	-	1	*
	Upper Heyford	1022·2	+14	NW	3	zo	42	75	6	-	7	8	0	4-6	-	1	*
4	Ross-on-Wye	1023·1	+16	WNW	2	bc	45	75	8	5	-	1	4-6	4-6	4000	1	*
5	Hartland Point	1024·8	+14	NW	3	bc	45	85	8	5	4	-	2-3	4-6	1500	1	3
	Bristol	1023·3	+20	NW'N	4	c	46	75	7	5	7	-	7-8	9+	2500	1	*
	Portland Bill	1022·7	+14	NNW	3	c	47	85	8	5	4	-	7-8	10	2500	1	3
	Plymouth	1024·7	+16	NWN	4	zo	47	65	6	5	7	8	4-6	7-8	2500	1	2
	The Lizard	1025·4	+14	NW	4	bc	46	85	8	8	4	-	4-6	4-6	2500	1	1
	Scilly (St. Mary's)	1026·6	+18	NW'N	4	bc	47	85	8	8	3	2	2-3	4-6	2500	1	2
	Guernsey	1023·0	+16	NW	1	o	48	85	7	5	-	-	10	10	2500	1	2
6	Pembroke	1024·8	+6	NW	4	bc	46	97	7	5	6	1	2-3	4-6	2500	1	2
7	Holyhead	1022·7	+8	W	3	c	46	75	7	5	4	8	4-6	9+	4000	1	2
	Chester (Sealand)	1022·9	+12	WNW	2	c	42	85	7	5	3	8	4-6	7-8	4000	1	*
8	Manchester	1022·1	+16	W'N	1	zo	40	92	5	-	7	-	0	Tr	-	1	*
10	Spurn Head	1020·7	+20	NW'N	1	c	42	85	6	8	9	1	4-6	7-8	4000	0	1
	Catterick	1020·4	+18	W'N	2	bc	40	75	7	5	-	9	Tr	4-6	2500	1	*
	Tynemouth	1019·2	+14	W	3	c	44	75	6	8	-	-	7-8	7-8	1500	1	2
11	St. Abbs Head	1018·4	+12	WSW	4	c	42	75	8	8	2	-	4-6	10	2500	0	3
	Leuchars	1017·5	+10	W	5	c	42	85	8	5	7	-	4-6	10	4000	1	*
12	Renfrew (Abbots I.)	1019·6	+6	SW	2	c	42	75	8	4	2	-	4-6	10	2500	1	*
	Eskdalemuir	1019·9	+6	W'S	3	c	39	75	8	5	7	-	1	10	1500	1	*
	Point of Ayre	1021·4	+8	W'N	3	c	44	85	8	5	7	-	2-3	10	2500	1	2
13A	Tiree	1016·6	+2	WSW	4	id	43	85	7	6	2	-	7-8	9+	1500	1	3
13B	Stornoway	1013·6	+4	SSW	4	c	43	85	7	5	2	-	7-8	10	2500	1	3
15	Dalwhinnie	1017·6	+6	WSW	3	c	36	85	7	4	1	-	2-3	10	2500	0	*
	Aberdeen	1016·7	+12	W	2	c	43	65	7	-	7	-	0	10	-	1	1
	Wick	1014·1	+8	SW	3	c	40	85	8	5	2	-	9	10	1500	1	2
16	Lerwick	1010·9	+8	WSW	5	c	42	85	8	8	7	-	4-6	7-8	1500	1	*
17	Blacksod Point	1022·6	+14	W	3	c	46	85	8	4	-	4	4-6	7-8	2500	1	3
18	Malin Head	1019·1	+4	W	4	c/pr	43	85	7	9	2	-	4-6	9	1500	1	5
	Aldergrove	1021·2	+6	W'N	3	c	42	85	8	8	2	-	4-6	9	1500	1	*
19	Birr Castle	1023·2	+8	SW	1	c	44	92	8	5	4	5	4-6	7-8	2500	1	*
20	Valentia Obsy. †	1026·6	+6	NW'W	4	bc	48	75	8	8	-	-	2-3	2-3	2500	1	3
	Roches Point	1025·9	+8	NW	3	bc/pr	46	92	8	3	4	-	4-6	4-6	1500	1	2

PAST 24 HOURS. — WEATHER.

District	Stations	7h.—13h. 19th (37)	13h.—18h. 19th (38)	18h. 19th to 1h. 20th (39)	1h.—7h. 20th (40)
1	London (Kew)	cdomobcb	b,bcyczo	cbcbzo	bmox
	Croydon	cidoiromo	bzoczoy	xbczbmo	bmox
	S. Farnborough	cciroc	bc,zo	bcbw	mxbcc
	Boscombe Down	ldororocbc	bcc	c	cbcb
	Calshot (Sthmtn.)	cirob	ccmo	cmoc	cbbx
	Lympne	cdocmo	czoc	c	cbcbwx
	Manston	ciromo	bccmoc	bccmow	cbcmobwx
2	Shoeburyness	ciromobc	c	cbc	bcbmox
	Felixstowe	cidomoc	cbcmo	bcmobmo	bmox
	Gorleston	coirobc	bcq	bcbzobc	bczox
	Mildenhall	cdodo	cbc	bcbmo	bmowbmox
	Cranwell	cb,c	cyzo	czobmo	bmox
3	Birmingham	rc	cbc	bcb	b,cx
	Upper Heyford	bbc	bcbybczo	bzomo	bmob
4	Ross-on-Wye	pcbcc	cybc	bccb	bbx
5	Hartland Point	ororoc	cbc	bc	bc
	Bristol	crobcc	c	cbcb	bmox
	Portland Bill	c	c	cbc	bc
	Plymouth	ccmodorc	bccybczo	bczob	bbw
	The Lizard	efd bc	cbc	bcb	bbc
	Scilly (St. Mary's)	cidbc	bccbc	bcbw	bbc
	Guernsey	ociro	oroco	ocbcb	bcw
6	Pembroke	cbc	bc	bcb	bw
7	Holyhead	c,bc	bcc	cb	bwc
	Chester (Sealand)	crobc	bc	bcw	bcbw
8	Manchester	c,b,c	cbmo	bmo	bmo,oF
10	Spurn Head	iroqc	cqc	bcbm	bmow
	Catterick	cbcc	cbc	bcb	bbx
	Tynemouth	cbcc	cbcc	cbc	bbc
11	St. Abbs Head	bccy	c	cbcb	b
	Leuchars	bcbbc	bcc	cbc	bcbx
12	Renfrew (Abbots I.)	bcpro	cqPR	cprb	bcmo
	Eskdalemuir	bcbbc	bcc	cbc	probcx
	Point of Ayre	bc	bcc	cbcb	bbcw
13A	Tiree	probc	bccir	cirbc	bc
13B	Stornoway	cbcprphr	cphrpr	bcbpro	bbcpro
15	Dalwhinnie	cir	cir	*	cirbc
	Aberdeen	bby	bcyc	cbcb	bbx
	Wick	probc	cprc	cbcb	bbc
16	Lerwick	cbcpr	bccpr	cphrbc	bcprc
17	Blacksod Point	proc	bc	prc	proc
18	Malin Head	cprobcc	cbcc	cprcprbc	bccbc
	Aldergrove	bbcc	cproc	cprobc	bcb
19	Birr Castle	bcc	cproc	cbc	bcbx
20	Valentia Obsy. †	cproc	probc	bcbw	bwbcc
	Roches Point	cproc⊕	cpobc	bcbw	bcw

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

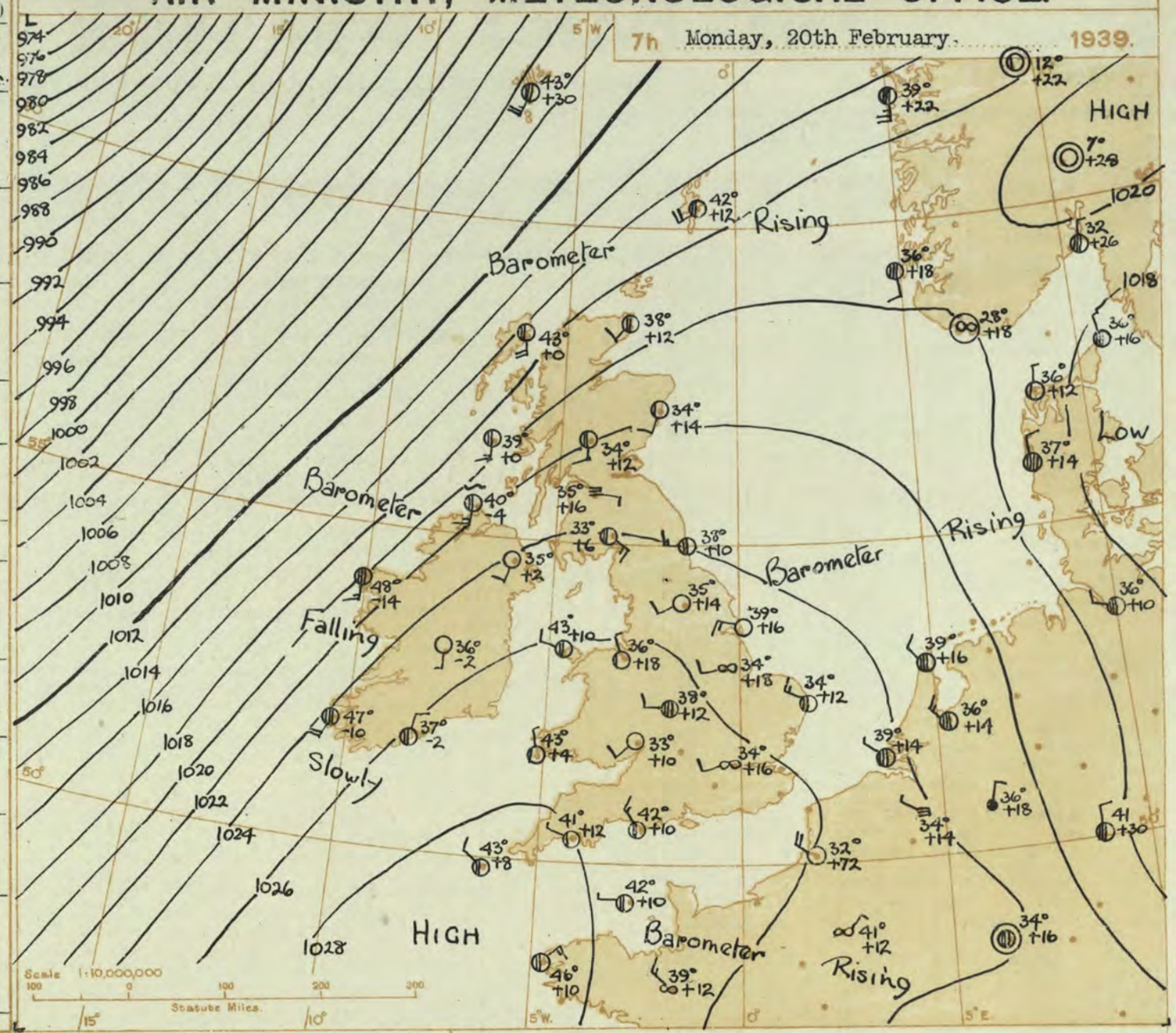
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 19th February 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 18th. to 9h. 19th.	Temperature. (°F.) Max. 9h.—17h. 18th. 19th.	Rainfall. (mm.) Night. 17h. 18th. to 9h. 19th.	Rainfall. (mm.) Day. 9h.—17h. 19th.	Sunshine. (Hrs.) Sunrise to 17h. 18th.	Sunshine. (Hrs.) Sunrise to Sunset. 18th.
1	Tunbridge W.	od.bc	bccm	36	50	-	Trace	2.9	6.4
	Bournemouth	d.bcb	bbcc	41	55	Trace	Trace	3.0	8.0
	Ventnor ...	co	cpcbc	43	53	Trace	-	1.8	6.4
	Southsea ...	cbcb	bbc	42	53	-	-	2.1	6.5
	Bognor Regis	beir.	bc	40	54	Trace	Trace	3.8	7.6
	Littlehampton	cbc	bc	41	57	-	-	4.4	7.4
	Worthing ...	bcb	bbc	41	54	Trace	-	3.6	7.3
	Brighton ...	bcdbc	cbc	40	54	-	Trace	3.1	7.3
	Eastbourne† ...	c	cbcc	43	54	Trace	-	2.4	8.2
	Hastings† ...	cb.c	bcc	41	54	-	-	2.4	8.2
	Folkestone ...	mcoire	cbcc	37	52	-	Trace	2.5	7.9
	Dover ...	cod.c	cbc	39	52	-	Trace	2.1	8.7
	Deal	cppc	bccbc	38	51	-	*	1.0	8.4
	Ramsgate ...	c	cbc	45	51	-	-	1.7	8.7
	Margate ...	cd	bcc	40	47	-	Trace	1.8	8.5
2	Southend ...	ocbc	bccm	40	51	Trace	-	0.9	8.5
	Clacton-on-Sea	cp.bc	bcc	35	51	-	Trace	1.5	8.7
	Dovercourt ...	roc	ocvc	38	49	Trace	-	1.7	8.6
	Lowestoft ...	cpbc	b	36	49	Trace	0.5	3.8	7.4
	Skegness ...	ocbc	bbcb	37	50	Trace	-	4.7	7.8
	Mablethorpe...	obc	bbc	38	50	Trace	-	4.8	7.5
	Cleethorpes ...	bc	bc	37	49	0.5	-	4.3	7.0
3	Leamington S.	cbc	bc	40	50	1	-	4.7	2.5
4	Cheltenham†	qbcc	c	41	51	0.5	-	3.9	2.9
5	Bath	cbc	bcc	42	53	0.3	-	3.0	5.0
	Weymouth ...	ccb	bcc	46	55	Trace	-	2.3	4.4
	Jersey ...	cdc	drc	44	50	Trace	0.5	0.0	7.4
	Torquay ...	cbcb	bccy	43	53	0.2	-	3.0	3.7
	Falmouth	b	c	46	52	1	-	3.3	3.0
	Penzance ...	bpb	bbccb	45	53	2	-	5.3	3.0
	St. Ives ...								
	Bude... ...	cpbc	bc	46	49	3	-	2.9	2.7
	Ilfracombe ...	rocbc	bc.	45	49	3	-	6.7	1.8
6	Aberystwyth	prbcc	bcc	43	47	4	-	4.9	0.0
7	Llandudno ...	cbc	bbc	43	48	3	-	6.1	0.1
	Colwyn Bay...	ccbcb	bcb	43	49	3	-	5.5	*
	Rhyl	cbc	bbc	43	47	2	-	6.1	0.0
8	Wallasey ...	bcb	bc	43	48	1	-	5.7	0.0
	Southport ...	bcb	bbc	42	51	2	-	7.0	1.3
	Blackpool ...	bcm.	bcbm.	42	47	3	-	7.8	0.9
	Morecambe ...	bcb	bbc	39	47	3	-	7.4	1.4
9	Ilkley... ...	bc	bc	39	50	2	-	4.8	4.4
	Harrogate ...	bbc	bbc	35	48	1	-	5.1	5.2
10	Berwick-on-T.	bbc	bc	36	49	0.5	-	5.5	4.4
11	Dunbar ...	bc	bc	35	47	Trace	-	6.9	3.6
12	Troon.. ...	bcroc	ocbcc	38	48	3	1	3.6	0.0
	Douglas	cir	bc	41	47	3	-	6.9	0.5

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



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 20th February, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind west, backing southwest, becoming moderate to fresh; fair generally but cloud increasing; mainly rather mild.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Winds south to southwest, fresh to strong; becoming cloudy; occasional rain tonight chiefly near the coast and in the hills; some hill fog later; mild.
9 N. Midlands ... 10 N.E. England	Wind southwest, freshening; fair at first; occasional rain or drizzle later; becoming mild generally.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Wind backing south, increasing to strong; fair today with cloud increasing; then a period of rain; becoming mild.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Wind south increasing to strong to gale on coasts; fair early becoming dull and rainy; becoming mild.
15 N. E. Scotland 16 Orkney and Shetland	Wind southwest backing south, increasing to gale; fair today; then dull, rainy; average temperature, becoming mild.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind south to southwest, strong to gale in the west and north; dull; rainy today; fairer periods tomorrow; mild then slightly cooler.

GENERAL INFERENCE.

A belt of high pressure extends from the Azores across South England to Northwest Russia. A deepening depression in Mid-Atlantic will move quickly northeast and give rise to strong winds or gales with general rain in the northwestern half of the British Isles. In the southeastern half of the country weather will continue fair. Temperature will be above normal generally.

FURTHER OUTLOOK.

Continuing fair in the southeastern half of the British Isles; unsettled elsewhere.

Time of Issue of Gale Warnings.

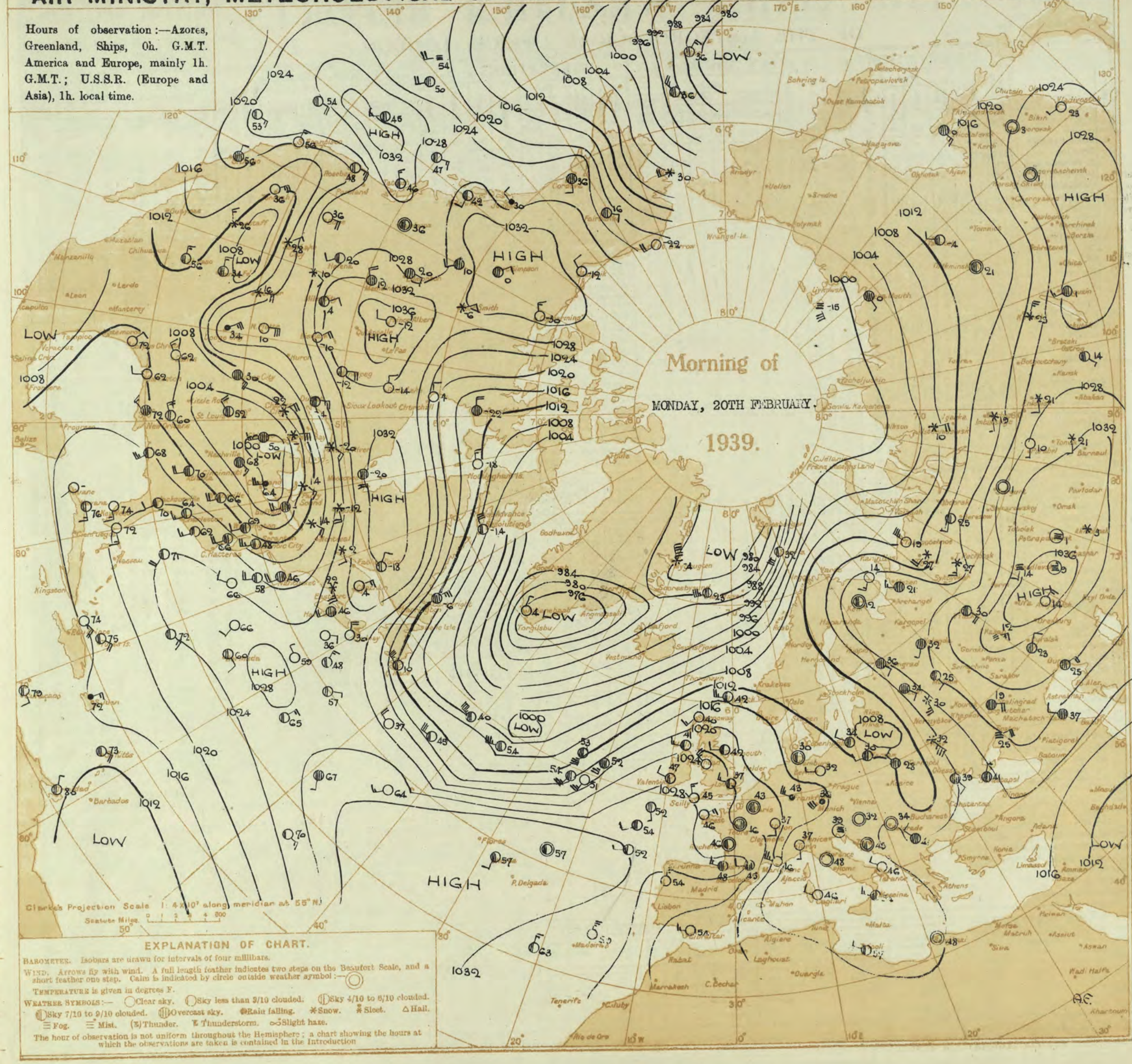
South Cone hoisted at 0800 on 20/2/39 in districts 13A, 13B, 15, 16, 17, 18 and part of 20.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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

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



Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 20th February, 1939.
No. 28214

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1025.0	+12	WNW	3	Z_0	37	85	5	-	4	-	0	2-3	-
	S. Farnborough	228	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1024.6	+8	NW	2	c	41	85	7	5	-	-	9+	9+	5700
	Manston	154	1024.0	+4	NW	1	Z_0	39	92	6	5	-	-	10	10	7200
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1022.9	+10	WNW	2	bc	37	85	6	-	4	-	0	2-3	-
	Mildenhall	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1026.6	+6	NW	2	bc	44	97	8	4	-	-	2-3	2-3	2500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1026.1	+10	N	3	bc	42	85	8	5	-	-	2-3	2-3	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1027.6	+6	WNW	2	b	43	92	8	-	-	-	0	0	-
	Scilly (St. Mary's)	163	1028.3	+2	NW'N	3	b	45	97	8	1	-	-	Tr	Tr	4000
	Guernsey	175	1025.9	+6	NW'N	2	bc	44	85	7	-	1	-	0	2-3	-
6	Pembroke	142	1026.9	+6	NNW	3	b	45	92	8	-	-	-	0	0	-
7	Holyhead	26	1024.8	+10	NW'W	5	b	44	85	7	2	-	-	Tr	Tr	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1021.7	+8	WNW	4	m	40	85	4	-	-	-	0	0	-
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1021.3	+8	W	2	bc	42	75	7	2	-	-	4-6	4-6	1500
11	St Abbs Head	280	1020.0	+10	WSW	3	bc	39	75	8	4	4	-	1	2-3	2500
	Leuchars	36	*	*	*	*	*	*	*	*	*	*	*		*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1023.4	+12	NW	4	b	43	92	8	-	-	-	0	0	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1016.7	+20	SW	3	b	40	85	8	-	-	-	0	0	-
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1016.6	+12	SW	2	bc	36	92	8	5	-	-	2-3	2-3	1500
16	Lerwick	156	1013.4	+10	W	5	bc	42	85	8	8	-	-	4-6	4-6	1500
17	Blacksod Point	18	1023.2	+6	W	2	bct	45	85	8	3	-	-	2-3	2-3	1500
18	Malin Head	84	1022.0	+8	W	3	bc	41	92	7	8	-	-	4-6	4-6	4000
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1026.9	0	WNW	1	b	47	97	8	4	-	-	Tr	Tr	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 20th February — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 19th Hrs. (36)
London (Kew)	1026.9	+14	SW	2	Z_0	34	92	5	5	-	1	1	2-3	2500	3	*	52	32	19	Tr	Tr	4.1
Croydon	1026.7	+16	WSW	2	Z_0	34	97	6	5	3	-	2-3	4-6	4000	1	*	52	34	26	0.1	-	3.6
S. Farnborough	1027.2	+14	W'N	1	c	28	97	7	5	-	-	7-8	7-8	4000	3	*	52	27	22	Tr	Tr	4.2
Boscombe Down	1027.5	+6	NW	1	b	35	97	7	-	4	-	0	1	-	3	*	51	33	26	0.2	-	2.7
Calshot (Sthmtn.)	1027.0	+16	W	1	b	32	97	7	5	7	-	Tr	1	4000	1	1	52	31	28	Tr	-	1.8
Lympne	1026.6	+18	NNW	3	Z_0	34	92	6	-	4	-	0	Tr	-	1	§0	50	34	30	Tr	-	2.5
Manston	1026.0	+16	NW'W	2	Z_0	36	92	5	-	4	-	0	Tr	-	1	*	50	35	30	Tr	-	1.9
Shoeburyness	1025.9	+18	SW	2	b	34	92	6	-	4	-	0	1	-	3	*	48	33	23	Tr	-	2.0
Felixstowe	1025.7	+16	NNW	2	Z_0	36	92	5	-	-	-	0	0	-	1	1	51	36	28	Tr	-	*
Gorleston	1024.4	+12	NW	3	bc	34	85	5	5	-	-	2-3	2-3	800	3	2	49	33	31	1	-	3.4
Mildenhall	1025.8	+18	SW'S	2	Z_0	31	97	5	-	3	-	0	Tr	-	1	*	51	30	25	0.5	Tr	2.7
Cranwell	1025.0	+18	W'S	2	Z_0	34	97	5	-	-	-	0	0	-	1	*	50	34	30	-	-	5.0
Birmingham	1026.4	+12	W	2	c	38	92	5	5	-	-	9+	9+	1500	1	*	47	34	28	1	-	2.4
Upper Heyford	1026.8	+10	NW	2	b	36	92	7	5	3	-	1	1	2500	1	*	50	33	22	0.3	-	*
Ross-on-Wye	1026.6	+10	SW	2	b	33	92	8	-	-	-	0	0	-	1	*	50	31	23	0.4	-	2.9
Hartland Point	1027.3	+6	NW	2	bc	43	97	8	4	-	-	4-6	4-6	1500	1	2	48	43	41	1	-	4.2
Bristol	1027.0	+10	WSW	1	Z_0	34	97	6	-	-	-	0	0	-	1	*	52	33	*	0.2	-	3.6
Portland Bill	1027.2	+10	NNW	3	bc	42	85	8	5	-	-	4-6	4-6	2500	1	3	52	39	*	-	-	*
Plymouth	1028.2	+12	NW'N	1	b	41	92	8	5	-	-	1	1	2500	1	1	52	38	32	0.1	-	3.9
The Lizard	1028.7	+6	NW	3	bc	39	97	8	4	-	-	2-3	2-3	2500	1	2	52	38	*	0.5	-	4.1
Scilly (St. Mary's)	1028.9	+8	NW'N	2	bc	43	97	8	2	4	-	1	2-3	2500	1	2	51	42	*	0.3	-	3.1
Guernsey	1027.2	+10	W'N	1	bc	42	97	8	5	3	9	2-3	4-6	2500	1	2	51	42	34	0.2	-	0.3
Pembroke	1027.1	+4	NNW	1	b	43	97	8	1	1	-	Tr	1	2500	1	2	48	42	*	-	-	4.9
Holyhead	1025.8	+10	WNW	2	bc	43	92	8	1	3	8	2-3	4-6	1500	1	2	49	42	38	-	-	4.5
Chester (Sealand)	1026.4	+18	NNW	1	b	36	92	7	5	-	-	1	1	5700	1	*	47	36	28	0.1	-	6.0
Manchester	1026.1	+18	-	0	F	33	97	1	-	-	-	10	10	4150	1	*	49	31	25	-	-	4.6
Spurn Head	1024.3	+16	WNW	3	b	39	97	5	-	-	-	0	0	-	1	1	48	39	*	0.3	Tr	4.7
Catterick	1024.7	+14	SW'W	2	b	35	92	9	-	-	-	0	0	-	3	*	48	29	23	-	-	5.5
Tynemouth	1023.7	+10	W	3	bc	38	85	7	5	-	-	2-3	2-3	2500	1	2	48	38	34	-	-	6.1
St Abbs Head	1022.1	+10	WNW	4	bc	41	65	8	-	3	-	0	2-3	-	0	3	49	38	*	-	-	*
Leuchars	1022.6	+16	W	2	bc	33	92	8	-	7	-	0	2-3	-	3	*	48	31	23	-	-	7.2
Renfrew (Abbots I.)	1023.2	+16	ESE	1	bcf+	35	97	3	5	-	2	2-3	4-6	2500	1	*	48	34	28	1	1	6.1
Eskdalemuir	1024.1	+6	SE	3	bc	33	92	8	5	-	-	4-6	4-6	1500	3	*	44	33	27	-	0.1	5.3
Point of Ayre	1024.7	+6	W'N	3	bc	40	97	8	-	4	5	0	2-3	-	1	2	49	36	*	-	-	4.8
Tiree	1019.3	0	S	3	bc	39	85	8	8	3	-	2-3	4-6	2500	0	3	48	36	34	1	0.5	3.5
Stornoway	1017.0	0	S	4	bc	43	75	8	5	2	-	2-3	4-6	2500	1	2	45	39	*	1	3	1.2
Dalwhinnie	1022.8	+12	S	2	bc	34	92	7	4	5	-	2-3	4-6	2500	1	*	42	33	27	0.4	1	4.0
Aberdeen	1021.5	+14	SSW	2	b	34	85	5	5	-	5	Tr	1	4000	3	1	48	30	21	-	-	6.5
Wick	1019.1	+12	SW	2	bc	38	85	8	5	1	-	2-3	2-3	1500	1	1	45	34	*	0.4	-	*
Lerwick	1016.6	+12	SW	4	bc	42	85	8	5	7	-	2-3	4-6	1500	1	*	45	38	*	0.3	1	4.9
Blacksod Point	1020.5	-14	S	3	c	48	75	8	5	-	-	10	10	1500	1	3	51	43	*	0.2	0.5	*
Malin Head	1021.4	-4	S'W	3	bc	40	92	8	5	-	1	2-3	4-6	5700	1	5	47	38	*	1	0.3	2.7
Aldergrove	1024.2	+2	SSW	2	b	35	97	8	-	7	-	0	1	-	1	*	48	34	29	Tr	0.1	3.7
Birr Castle	1025.2	-2	S	1	b	36	97	8	-	-	-	0	0	-	1	*	48	34	24	0.6	-	2.1
Valentia Obsy. †	1024.9	-10	SSW	4	c	47	75	8	5	-	-	9+	9+	2500	1	3	50	40	31	1	Tr	1.3
Roches Point	1026.8	-2	NNE	2	bc	37	97	8	5	-	-	4-6	4-6	2500	1	2	50	35	*	0.3	Tr	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	cdm$_0$bcb	b$_0$bcycz$_0$	cbcbm$_0$x	52	32	19	Tr	Tr	4.1	.	.	4
Croydon	217	cid$_0$ir$_0$m	bz$_0$cz$_0$y	xbcbmx	52	34	26	0.1	-	3.6	.	.	4
Greenwich (Royal Observatory)	149	cmb	bc	cbxf	52	32	25	-	Tr	3.4	66	86	3
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	3.2	*	*	*
Westminster (St James' Park)	27	*	*	*	54	34	28	0.2		3.6	33	92	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	53	35	25	-	-	4.0	59	91	*
Camden Square	110	c	bc	*	54	35	27	-	-	*	*	86	*
Kensington	80	od	bc	*	53	34	27	Tr	-	4.1	At 19h. 65	90	*
Hampstead Observatory	450	oddc	bc	bc	51	34	26	Tr	-	4.5	*	88	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
0.3	20-21h. 19th.	<0.3	3-4h. 20th.

Kew Observatory. Max.	Time.	Min.	Time.
0.5	18h. 19th	<0.1	5-6h. 20th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 19th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 20th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1021.0	WNW	2	9/d	46	1024.6	NE	1	Z_0	41	50	*	1	*
Brussels	1018.9	NW	4	c	43	1024.6	NW	1	cf-	34	45	32	3	-
Berlin	1012.2	NW	1	b	36	1017.8	NW'W	3	Z_0	32	39	*	0.5	*
Zurich						1023.5	NW	2	Z_0	37		*		2
Rome	1033.3	SW	2	bc	55	1014.4	N	1	bc	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.

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. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 21st February, 1939.
No. 28215

OBSERVATIONS at 13h. G.M.T. 20th February

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1028·0	-6	SWW	2	z₀	46	65	6	8	-	-	7·8	7·8	4000
	Croydon ...	1027·7	-2	WNW	2	z₀	49	65	5	2	-	-	2·3	2·3	5700
	S. Farnborough	1027·9	-6	NW	1	bc	50	55	7	1	-	1	2·3	2·3	4000
	Boscombe Down	1028·3	-6	NW	2	bc	49	65	8	1	-	6	2·3	2·3	2500
	Calshot (Sthmtn.)	1028·5	-2	SE	1	z₀	48	75	6	1	-	1	1	1	2500
	Lympne ...	1028·9	+12	NNW	3	z₀	47	65	6	2	-	-	7·8	7·8	2500
	Manston ...	1027·7	+2	NW	2	z₀	45	75	6	-	-	-	0	0	-
2	Shoeburyness ...	1027·7	+2	NNW	2	bc	49	65	6	2	6	-	4·6	4·6	2500
	Felixstowe ...	1027·7	+8	NW	2	b	48	75	7	-	1	-	0	1	-
	Gorleston ...	1026·5	+2	NW'N	2	bc	47	65	6	2	-	-	4·6	4·6	2500
	Mildenhall ...	1027·1	-2	W'N	1	z₀	48	75	6	1	-	-	4·6	4·6	4000
	Cranwell ...	1026·8	0	-	0	z₀	49	65	6	1	-	-	Tr	Tr	4000
3	Birmingham ...	1027·7	-2	WNW	2	bc	46	65	6	1	-	1	2·3	2·3	2500
	Upper Heyford	1027·9	-4	NW'W	2	bc	49	85	8	1	-	1	2·3	2·3	4000
4	Ross-on-Wye	1027·2	-4	SW'S	2	b	51	55	8	1	-	1	1	1	4000
5	Hartland Point	1028·1	-2	SW	2	bc	46	92	8	1	-	4	2·3	4·6	1500
	Bristol ...	1028·4	-2	W'N	1	z₀	50	65	7	1	-	8	Tr	1	2500
	Portland Bill ...	1028·7	+8	W	3	bc	47	85	8	5	-	-	4·6	4·6	2500
	Plymouth ...	1029·0	-4	SW	2	bc	50	75	8	1	3	5	1	2·3	2500
	The Lizard ...	1028·8	-4	SSE	2	bc	51	75	8	7	4	-	2·3	2·3	4000
	Scilly (St. Mary's)	1028·6	-6	SSW	3	bc	51	85	8	8	4	4	2·3	4·6	1500
	Guernsey ...	1028·7	-2	NW	1	c	48	75	8	7	-	-	7·8	7·8	2500
6	Pembroke ...	1027·9	-2	SWS	2	bc	47	97	7	2	7	1	2·3	4·6	2500
7	Holyhead ...	1025·4	-10	SSW	4	c	48	75	8	7	8	5	1	9	2500
	Chester (Sealand)	1026·8	-6	SW	1	bc	54	45	8	1	-	4	2·3	4·6	2500
8	Manchester ...	1026·7	-4	SW	1	m	45	85	4	8	3	-	7·8	7·8	2500
10	Spurn Head ...	1026·6	+4	WNW	1	bc	47	75	5	8	-	-	4·6	4·6	4000
	Catterick ...	1025·2	-6	SSW	3	bc	50	65	8	7	-	2	4·6	4·6	2500
	Tynemouth ...	1024·5	+2	WSW	2	bc	48	65	6	2	-	-	2·3	2·3	2500
11	St. Abbs Head ...	1022·9	-10	SW	4	bc	46	65	8	7	3	1	2·3	4·6	2500
	Leuchars ...	1022·3	-6	SW	3	bc	47	75	7	7	-	-	4·6	4·6	2500
12	Renfrew (Abbots I.)	1022·4	-14	SSW	3	c	48	75	7	2	6	6	4·6	7·8	2500
	Eskdalemuir ...	1024·2	+4	SSW	3	c	40	85	7	5	-	-	10	10	800
	Point of Ayre ...	1024·5	-4	SW'W	4	bc	51	65	8	2	-	5	1	2·3	1500
13A	Tiree ...	1016·5	-10	S'E	6	c	45	85	7	5	-	-	9+	9+	1500
13B	Stornoway ...	1013·8	-12	S	7	c	46	85	7	8	1	-	7·8	10	2500
15	Dalwhinnie ...	1020·6	-12	S	4	c	41	75	7	4	6	8	2·3	10	2500
	Aberdeen ...	1021·0	-10	SSW	4	bc	47	65	7	1	-	6	Tr	2·3	2500
	Wick ...	1018·9	-8	S	4	bc	44	75	8	7	1	8	2·3	4·6	2500
16	Lerwick ...	1016·3	-4	SSW	4	bc	45	85	8	5	3	-	2·3	4·6	1500
17	Blacksod Point	1016·2	-20	S	7	Dr	48	97	6	6	-	-	10	10	220
18	Malin Head ...	1013·6	-22	S	5	c	47	85	8	4	8	-	4·6	9	5700
	Aldergrove ...	1021·9	-22	SSW	4	c	48	65	7	2	-	7	Tr	10	2500
19	Birr Castle ...	1022·0	-20	S'W	3	c	48	75	8	5	7	-	4·6	9	1500
20	Valentia Obsy. †	1021·4	-22	S	6	c	50	75	8	5	7	-	7·8	10	1500
	Roches Point	1024·8	-14	WSW	3	c	49	75	8	5	-	5	4·6	7·8	2500

OBSERVATIONS at 18h. G.M.T. 20th February

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1027·2	+2	SW	1	z₀	43	65	5	-	-	1	0	1	-	1	*
	Croydon ...	1027·2	+2	WSW	1	m	44	65	4	-	-	8	0	1	-	1	*
	S. Farnborough	1027·5	-2	-	0	b	42	75	7	-	4	5	0	1	-	0	*
	Boscombe Down	1027·5	0	SW	1	bc	44	75	7	1	-	8	1	2·3	4000	0	*
	Calshot (Sthmtn.)	1027·8	0	SW	3	z₀	43	85	7	-	-	5	0	1	-	1	1
	Lympne ...	1028·3	+4	S'E	1	z₀	41	75	6	-	6	-	0	Tr	-	1	1
	Manston ...	1027·8	+6	-	0	z₀	41	85	5	-	-	5	0	1	-	1	*
2	Shoeburyness ...	1027·5	+4	SW	1	bf+	41	85	3	4	-	1	Tr	Tr	4000	1	*
	Felixstowe ...	1027·3	+4	NNW	1	z₀	45	75	6	1	-	5	Tr	1	2500	0	1
	Gorleston ...	1027·1	+2	SSW	1	bc	41	85	6	4	-	-	4·6	4·6	2500	0	1
	Mildenhall ...	1026·8	+2	S	1	z₀	43	75	6	-	-	1	0	2·3	-	0	*
	Cranwell ...	1026·2	+2	W	2	z₀	39	85	6	-	-	5	0	2·3	-	1	*
3	Birmingham ...	1026·4	-2	SSW	2	bc	44	75	7	5	-	1	1	2·3	2500	1	*
	Upper Heyford	1027·5	0	SW	1	bc	43	85	8	-	-	8	0	2·3	-	1	*
4	Ross-on-Wye	1026·2	0	SSW	2	bc	44	65	8	-	-	1	0	2·3	-	1	*
5	Hartland Point	1026·3	-4	WSW	3	bc	46	85	8	2	4	1	2·3	4·6	1500	1	2
	Bristol ...	1027·5	-2	SSW	2	z₀	42	75	7	5	4	8	2·3	4·6	2500	1	*
	Portland Bill ...	1027·3	-8	W	3	c	45	85	7	5	-	-	7·8	7·8	2500	1	3
	Plymouth ...	1027·6	-2	SSW	2	bc	46	85	7	4	-	2	1	4·6	2500	1	1
	The Lizard ...	1027·7	-4	S'W	2	c	47	85	8	8	6	-	4·6	7·8	2500	1	1
	Scilly (St. Mary's)	1026·2	-12	S	4	c	47	85	8	5	4	2	2·3	7·8	2500	1	2
	Guernsey ...	1028·3	-4	W'N	1	z₀	44	85	7	-	1	-	0	2·3	-	1	1
6	Pembroke ...	1025·3	-4	SW	4	bc	46	85	7	2	7	3	2·3	4·6	2500	1	2
7	Holyhead ...	1022·6	-14	S	4	c	46	85	8	5	8	8	4·6	7·8	1500	1	2
	Chester (Sealand)	1025·1	-6	SSW	1	z₀	45	75	8	5	7	8	Tr	2·3	2500	1	*
8	Manchester ...	1025·3	-2	S'E	3	z₀	44	75	5	4	3	5	2·3	7·8	4000	1	*
10	Spurn Head ...	1025·8	-2	SE'S	2	bc	42	85	6	-	2	-	0	4·6	-	0	1
	Catterick ...	1024·6	-2	SSE	2	bc	42	85	7	-	-	2	0	4·6	-	1	*
	Tynemouth ...	1023·5	+2	S	3	bc	45	65	5	2	3	-	4·6	4·6	1500	1	1
11	St. Abbs Head ...	1020·1	-14	SW	5	c	42	85	8	8	6	2	4·6	9	2500	0	3
	Leuchars ...	1020·1	-8	S	2	c	44	85	7	5	7	7	2·3	9+	2500	1	*
12	Renfrew (Abbots I.)	1019·3	-18	S	2	c	46	75	7	5	3	5	4·6	9+	1500	1	*
	Eskdalemuir ...	1021·4	-14	S'W	5	c	41	92	7	5	-	-	10	10	800	1	*
	Point of Ayre ...	1021·6	-10	SW'S	4	c	45	85	8	8	-	8	4·6	7·8	1500	0	2
13A	Tiree ...	1012·0	-20	SSE	6	c	46	85	7	5	-	-	9+	9+	1500	0	4
13B	Stornoway ...	1009·6	-20	S	8	r₀	45	92	6	8	-	-	10	10	1500	1	5
15	Dalwhinnie ...	1016·9	-18	S	6	c	40	75	7	5	1	-	4·6	10	2500	0	*
	Aberdeen ...	1013·4	-18	SSW	4	c	43	85	6	5	7	-	4·6	9	2500	1	1
	Wick ...	1015·9	-20	SSW	6	c	45	75	8	5	3	-	4·6	10	2500	1	3
16	Lerwick ...	1014·7	-12	S	6	c	44	75	8	5	3	1	4·6	9	1500	1	*
17	Blacksod Point	1010·3	-28	S	8	r	49	97	6	6	-	-	10	10	<150	2	5
18	Malin Head ...	1014·0	-24	S	5	c	47	85	7	8	-	-	9	9	4000	0	5
	Aldergrove ...	1017·8	-26	SSW	4	c	46	75	8	5	-	-	9+	9+	2500	1	*
19	Birr Castle ...	1018·3	-18	S	3	c	47	75	8	5	7	-	7·8	9	1500	1	*
20	Valentia Obsy. †	1016·1	-34	S	6	c	51	92	8	5	-	-	10	10	800	1	4
	Roches Point	1020·6	-32	SW	6	r₀	48	92	7	6	2	-	4·6	9+	1500	1	4

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 20th. (37)	Weather. 13h.—18h. 20th. (38)	Weather. 18h. 20th. to 1h. 21st. (39)	Weather. 1h.—7h. 21st. (40)
1	London (Kew)	bmxbcz₀	bcbz₀	bx	cmx
	Croydon ...	bcmxfgm	bcbz₀	bzmwbm	bmfcmx
	S. Farnborough	c,bbcy	bcybyb	bmwx	bcbcm
	Boscombe Down	bm₀bmb	bbybc	bdbm₀b	bbccir₀c
	Calshot (Sthmtn.)	bm₀	bm₀	bbwm₀	bwm₀
	Lympne ...	bm₀mbcz	bcbz₀	bzzfwx	bifxbcpc
	Manston ...	bm₀bm	bz₀	bmwx	bmwxF
2	Shoeburyness ...	bm₀bcz₀	bcz₀bf	bf	bm₀x
	Felixstowe ...	bm₀b	bbm₀	bm₀	bcmbnx
	Gorleston ...	bcfbcz₀	bcbbcz₀	bcz₀bw	bwxz₀
	Mildenhall ...	bmxbcz₀	bcz₀bcbm	bm₀x	bmx
	Cranwell ...	bm₀xz₀	bz₀ybcm	bm₀	bm₀x
3	Birmingham ...	cbz	bcb	b	bbc.
	Upper Heyford	bbc	bcbybc	bbm₀	cm₀rof
4	Ross-on-Wye	b	bcycb	bbz₀	bcc
5	Hartland Point	bc	bc	bccbc	bccpc
	Bristol ...	bm₀	bcz₀bcy	bcbbc	bcqwbc
	Portland Bill ...	bc	bcc	bcb	bcc
	Plymouth ...	b,bcm₀b	bbccbc	bcbbcc	cir₀cq
	The Lizard ...	bc	bcc	c	c
	Scilly (St. Mary's)	bc	bcc	oid₀c	oid₀c
	Guernsey ...	bcc	cbc	bcz	bwbc
6	Pembroke ...	bbc	bc	cd₀d₀q	cid₀q
7	Holyhead ...	bcc	cbc	bcid₀c	d₀d₀m₀c
	Chester (Sealand)	bwbcm₀y	bcyz₀	bcz₀bw	bw,cm₀
8	Manchester ...	oFFcm	cmbcmz	bcz₀bm₀w	bm₀wcm₀
10	Spurn Head ...	bcm	bcz₀	bm₀w	bwm₀
	Catterick ...	xm₀bbc	bc	bcbfc	bfcx
	Tynemouth ...	bc	bc	bc	bc
11	St. Abbs Head ...	cbc	c	bcq	bcqc
	Leuchars ...	bm₀bc	bcc	cbcc	cr₀r₀m₀c
12	Renfrew (Abbots I.)	bcfmm₀c	bcc m₀c	cbcc	Rkcr₀
	Eskdalemuir ...	coc	or₀dd₀	cid₀	or₀r
	Point of Ayre ...	bcbbc	bc	c	mr₀q
13A	Tiree ...	bcc	cdrc	coird	cird
13B	Stornoway ...	bccpr₀	cir₀	cir₀r	crr
15	Dalwhinnie ...	cir₀	c		cir
	Aberdeen ...	bffbc	bccz₀	cz₀bcbbc	bcor₀
	Wick ...	bc	bcc	cpr₀c	cpr₀c
16	Lerwick ...	bccbc	bcc	c	cq
17	Blacksod Point	ddq	drq	Rrq	Rrq
18	Malin Head ...	cbcc	c	c	cir₀
	Aldergrove ...	bFbcc	c	cor₀rr	rrir₀m
19	Birr Castle ...	bbcc	c	cpr	cprc
20	Valentia Obsy. †	c	cid₀c	cir₀	r₀r₀RRrr
	Roches Point	bcc	cir₀	ir₀ir	odd

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

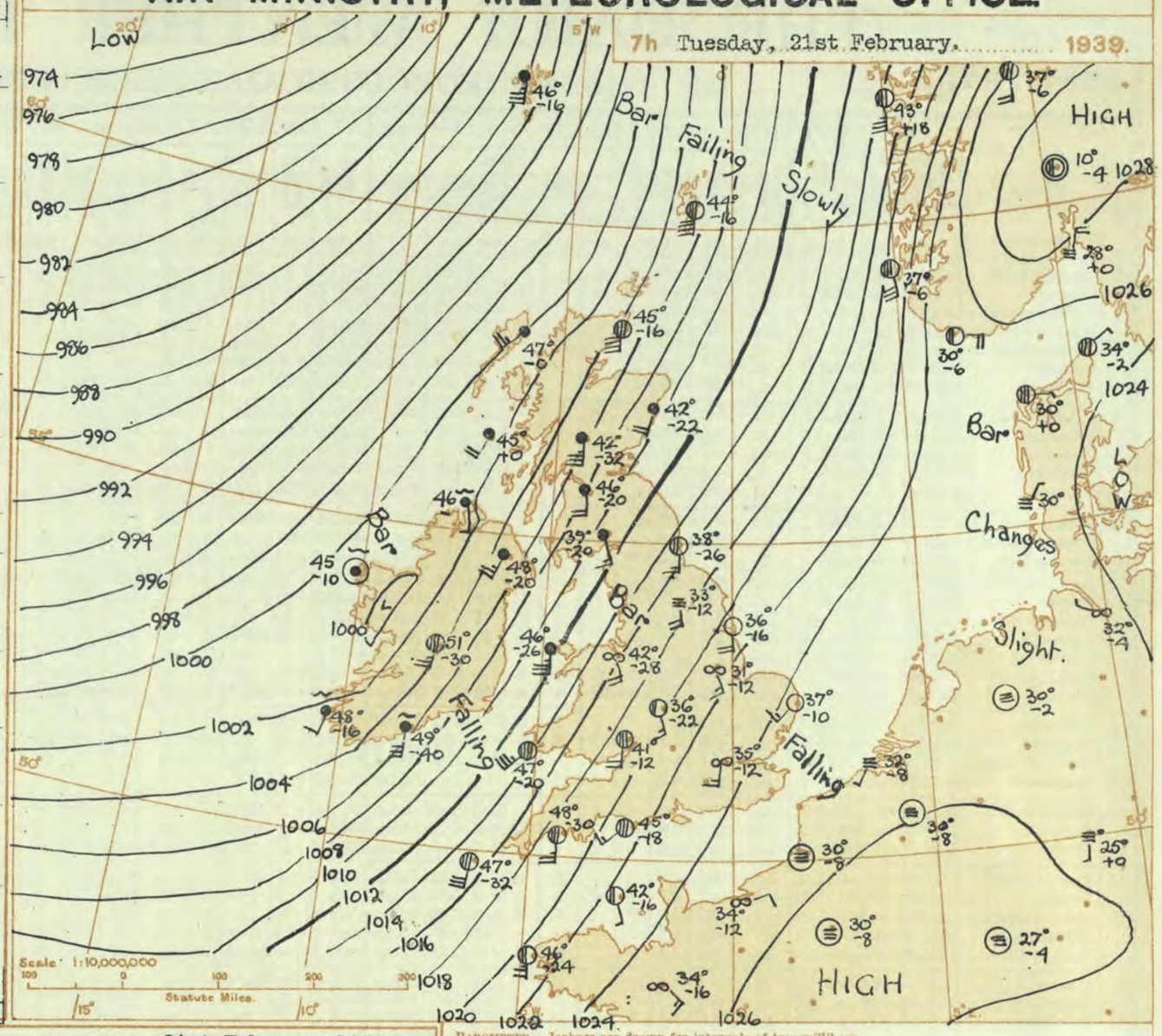
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 20th. February 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 19th. to 9h. 20th.	Temperature. (°F.) Max. 9h.—17h. 20th.	Rainfall. (mm.) Night. 17h. 19th. to 9h. 20th.	Rainfall. (mm.) Day. 9h.—17h. 20th.	Sunshine. (Hrs.) Sunrise to 17h. 20th.	Sunshine. (Hrs.) Sunrise to Sunset. 19th.
1	Tunbridge W.	mbcb	bbcm	26	49	-	-	5·6	2·9
	Bournemouth	b	bcb	35	51	-	-	6·6	3·0
	Ventnor ...	xb	bbc	37	53	-	-	8·9	1·8
	Southsea ...	b	b	35	52	-	-	8·4	2·1
	Bognor Regis	b	b	35	51	-	-	9·0	3·8
	Littlehampton	bcb	bbc	32	52	-	-	8·5	4·4
	Worthing ...	b	b	34	51	-	-	8·8	3·6
	Brighton ...	b	b	36	51	-	-	8·2	3·1
	Eastbourne† ...	b	bbybc	37	52	-	-	8·5	2·4
	Hastings† ...	b	bc	37	51	-	-	7·7	2·4
	Folkestone ...	m.b	bbm.	36	49	-	-	8·0	2·5
	Dover ...	bcb	b	37	49	-	-	8·0	2·1
	Deal	b	b	35	49	-	-	8·6	1·0
	Ramsgate ...	bc	bc	37	49	-	-	8·7	1·7
	Margate ...	bc	bc	38	47	-	-	8·3	1·8
2	Southend ...	bfb	b	33	53	Trace	-	7·8	0·9
	Clacton-on-Sea	xbm	bbcm	33	50	-	-	8·3	1·5
	Dovercourt ...	bc	b	34	50	-	-	8·3	1·7
	Lowestoft ...	bmbcb	b	32	51	-	-	8·3	3·8
	Skegness ...	mbbc	cb	30	50	-	-	7·1	4·7
	Mablethorpe...	bm.b	bm.	31	48	-	-	7·8	4·8
	Cleethorpes ...	b	bbc	34	48	-	-	7·0	4·3
3	Leamington S.	bbc	bcb	31	51	-	-	7·0	4·7
4	Cheltenham†	bxb	bbcq	29	51	-	-	8·2	3·9
5	Bath	b	bbc	33	53	-	-	8·4	3·0
	Weymouth ...	b	b	37	50	-	-	4·5	2·3
	Jersey ...	pcbc	bc	42	52	Trace	-	9·0	0·0
	Torquay ...	b	b	35	50	-	-	9·0	3·0
	Falmouth	b	b	40	52	-	-	7·4	3·3
	Penzance ...	b	bbc	39	53	-	-	8·0	5·3
	St. Ives ...								
	Bude... ...	bcb	bbc	40	50	-	-	7·9	2·9
	Ilfracombe ...	cbc	bcbbc	37	50	-	-	8·3	6·7
6	Aberystwyth	cbc	bcc	39	49	-	-	6·3	4·9
7	Llandudno ...	bbc	bc	41	51	-	-	6·4	6·1
	Colwyn Bay...	bcb	bcb	40	52	-	-	7·4	5·5
	Rhyl	bbc	bcb	36	51	-	-	7·2	6·1
8	Wallasey ...	bcb	bbc	39	52	-	-	7·7	5·7
	Southport ...	bcwcbc	bbc	37	53	0·1	-	6·3	7·0
	Blackpool ...	cFm.	bcm.	37	50	Trace	-	4·7	7·8
	Morecambe ...	fcbc	bcb	36	47	-	-	3·4	7·4
9	Ilkley... ...	bc	bc	34	48	-	-	3·4	4·8
	Harrogate ...	b	b	36	48	-	-	8·0	5·1
10	Berwick-on-T.	b	bcc	35	47	-	-	6·6	5·5
11	Dunbar ...	bcm.	bc	36	50	-	-	6·0	6·9
12	Troon... ...	cbcc	bcc	41	47	Trace	-	5·0	3·6
	Douglas ...	bcx	bc	37	48	-	-	6·7	6·9

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



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 21st February, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ...	Wind southerly, moderate to fresh; becoming mainly cloudy; occasional light rain in places later; average temperature.
4 W. Midlands ... 5 S.W. England	Wind south to southwest, fresh to strong at first on the coast; cloudy; occasional rain or drizzle, mostly light; mild today then colder.
6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Wind south, fresh to strong at first on the coast; dull; occasional rain; bright periods with local showers tomorrow; rather mild becoming colder.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld ▼ B.N.W.Scotland. ▼ 14 Mid Scotland	Wind south strong to gale on coast, veering and decreasing; dull, rainy today; bright periods, wintry showers with snow on the hills later; rather mild becoming colder.
15 N. E. Scotland ▼ 16 Orkney and Shetland ▼	Southerly gale, easing later; cloudy; rain at times; rather mild becoming colder.
17 N. W. Ireland 18 N. E. Ireland ▼ 19 S. E. Ireland 20 S. W. Ireland	Wind southwest to west, fresh to strong; variable sky; local showers of rain or hail; rather cold.

GENERAL INFERENCE.

Pressure is high to the east and southeast of the British Isles. A trough of low pressure over West Scotland and West Ireland associated with a deep depression over Iceland will move slowly east across the country. A period of rain in western and northern districts will be followed by colder weather with local wintry showers. Some light rain is likely in southern and eastern districts later today.

FURTHER OUTLOOK.

Rather cold with bright periods and wintry showers in the West and North; doubtful in the Southeast.

Time of issue of Gale Warning.

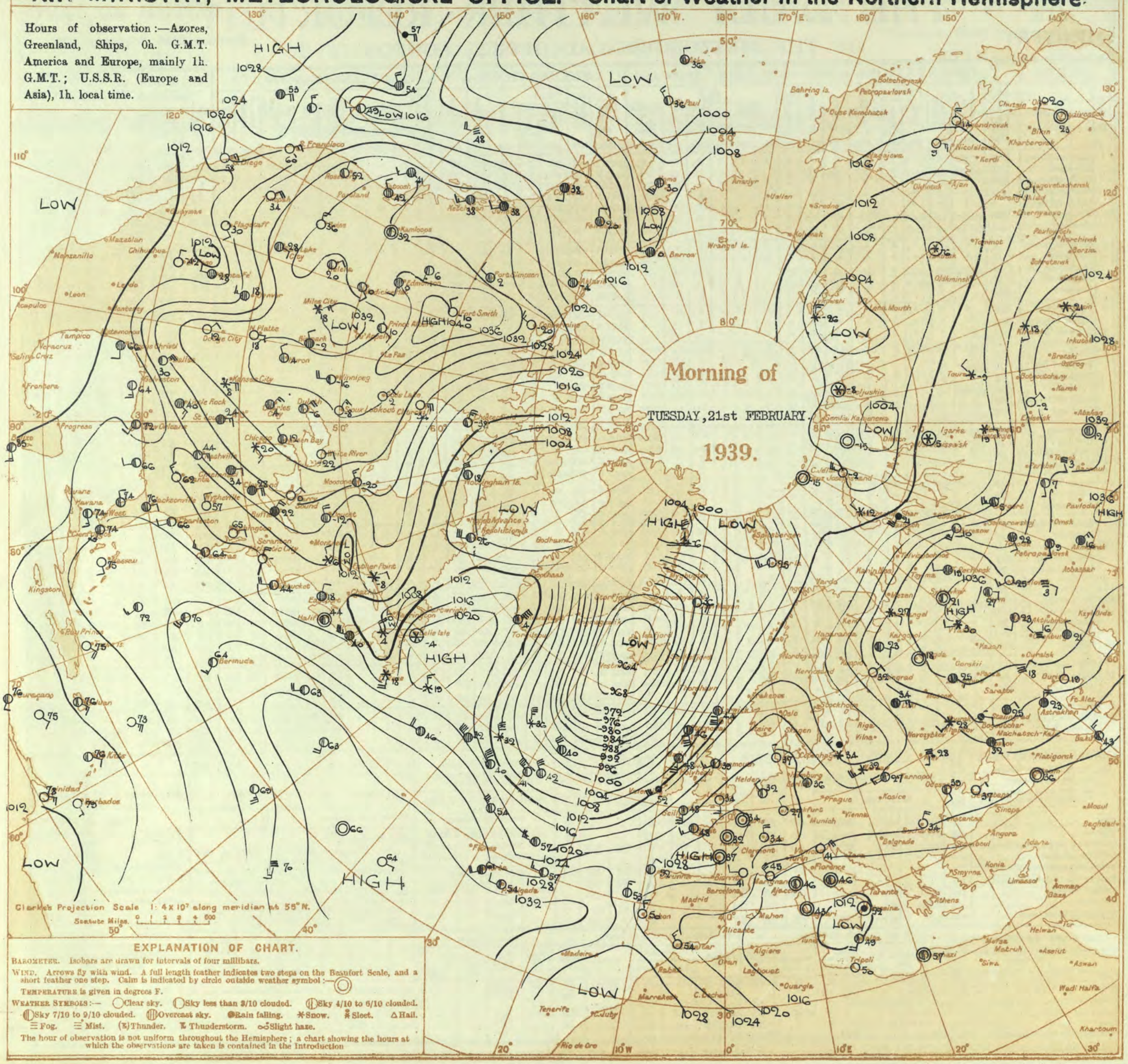
▼ South cone hoisted at 0800 on 20/2/39 in districts 13A, 13B, 15, 16 and 18.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 21st February, 1939.
No. 28215

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1026·5	-10	S	3	Z	34	97	6	-	-	-	0	0	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1027·7	-6	SW'W	1	D/F	37	85	5	-	-	-	0	0	-
	Manston ...	154	1027·0	-8	SSE	1	Z	37	97	5	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1026·4	-4	WSW	2	b	36	85	6	-	-	-	0	0	-
	Mildenhall ...	19	1025·6	-6	SE'S	3	Z	32	97	6	-	-	-	0	0	-
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1022·0	-18	SSW	3	bc	45	85	8	5	4	-	2-3	4-6	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1025·5	-10	SW	3	b	45	85	8	-	-	-	0	0	-
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1023·8	-16	S	4	c	48	85	8	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	1021·8	-20	S	5	c	48	97	6	3	2	-	4-6	10	1500
	Guernsey ..	175	1026·4	-18	S'E	1	b	41	97	7	-	-	-	0	0	-
6	Pembroke ...	142	1020·7	-14	SW'S	6	d.d.	46	92	7	5	2	-	7-8	10	1500
7	Holyhead ...	26	1017·9	-22	S	6	c	45	85	7	5	2	-	4-6	10	800
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1023·0	-8	S'W	3	b	38	92	5	-	-	-	0	0	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1020·4	-16	SW	3	bc	39	85	5	5	-	-	2-3	2-3	1500
11	St Abbs Head ..	280	1015·6	-20	SSW	6	bcq	42	85	8	8	6	-	2-3	4-6	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1017·1	-20	SW'S	5	c	46	85	7	5	-	-	10	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1004·1	-22	SSE	7	C/r	46	92	7	5	2	-	4-6	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1009·5	-24	S	6	C.	45	85	7	5	2	-	9	10	1500
16	Lerwick ...	156	1009·9	-16	S	8	C	44	92	8	8	2	-	4-6	10	1500
17	Blacksod Point	18	1002·6	-34	S	8	iR	50	97	7	6	-	-	10	10	<150
18	Malin Head ...	84	1005·7	-25	S	5	C/r	48	97	7	9	-	9	9	9	2500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1008·3	-14	SSW	6	ir	52	97	6	8	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount Low 0–10 (26)	Cloud. Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	1022·8	-14	SE	2	Z	33	97	5	5	-	-	9+	9+	2500	1	*
Croydon ...	1023·6	-12	S'W	3	Z	35	97	6	5	-	-	9+	9+	1500	1	*
S. Farnborough	1022·7	-16	SSE	2	m	34	97	4	5	-	5	1	4-6	2500	1	*
Boscombe Down	1022·5	-10	S'E	3	C	36	97	6	6	2	-	7-8	9+	800	1	*
Calshot (Sthmtn.)	1023·1	-18	SE'S	2	Z	40	97	6	1	3	5	1	2-3	2500	1	1
Lympne ...	1024·9	-14	SSW	2	C	39	97	6	5	-	-	9+	9+	1500	1	§ 2
Manston ...	1024·5	-10	S'W	2	F+	35	97	1	-	-	-	10	10	<150	1	*
Shoeburyness ...	1024·1	-8	SSW	1	b	37	55	6	-	-	-	0	0	-	3	*
Felixstowe ...	1024·1	-8	SW	1	m	36	97	4	-	-	5	0	1	-	1	1
Gorleston ...	1024·1	-10	SW'S	3	b	37	92	6	-	-	-	0	0	-	3	2
Mildenhall ...	1022·9	-10	SSW	2	m	32	97	4	-	-	-	0	0	-	1	*
Cranwell ...	1021·8	-12	SSE	3	Z	31	92	6	-	-	1	0	Tr	-	1	*
Birmingham ...	1019·4	-22	SSE	3	bc	36	97	6	-	7	5	0	4-6	-	1	*
Upper Heyford	1022·3	-18	SSE	1	f	34	97	2	-	-	-	10	10	<150	1	*
Ross-on-Wye	1019·0	-24	S	4	C	41	85	7	5	-	9	7-8	9	1500	1	*
Hartland Point	1016·2	-30	S	5	C	46	85	8	5	-	-	9	9	1500	1	3
Bristol ...	1020·0	-22	SSE	5	bc	42	85	8	5	4	1	2-3	4-6	800	1	*
Portland Bill ...	1021·2	-18	SW	3	C	45	85	7	5	4	-	7-8	10	2500	1	3
Plymouth ...	1019·0	-30	S	5	aq	48	75	8	5	-	-	10	10	1500	1	3
The Lizard ...	1018·2	-20	S	6	C	47	85	7	8	2	-	7-8	9+	1500	1	3
Scilly (St. Mary's)	1015·3	-32	S	6	C	47	97	6	5	2	-	7-8	10	1500	1	3
Guernsey ..	1022·3	-16	SSE	1	bc	42	92	8	1	1	8	2-3	4-6	2500	1	1
Pembroke ...	1014·4	-20	SW'S	7	cq	47	92	6	5	2	-	7-8	10	1500	1	3
Holyhead ...	1011·9	-26	S	7	d.d.	46	92	6	5	2	-	7-8	10	800	1	3
Chester (Sealand)	1016·2	-28	SSE	4	Z	42	85	6	5	2	-	9+	10	1500	1	*
Manchester ...	1017·5	-22	SSE	4	Z	39	85	6	5	3	-	4-6	9	4000	1	*
Spurn Head ...	1020·8	-16	S	4	b	36	92	6	-	-	-	0	0	-	1	2
Catterick ...	1017·0	-12	S'E	4	cf	33	97	3	5	-	7	7-8	10	2500	1	*
Tynemouth ...	1014·9	-26	S	3	bc	38	85	6	2	-	-	4-6	4-6	2500	1	2
St Abbs Head ..	1011·4	-24	S	5	C	42	85	8	8	6	2	4-6	7-8	1500	0	3
Leuchars ...	1011·0	-22	S	3	C/r	44	85	8	5	2	-	7-8	10	1500	1	*
Renfrew (Abbots I.)	1008·3	-20	S'E	4	rr.	46	85	7	5	-	-	10	10	1500	1	*
Eskdalemuir ...	1012·2	-20	SSE	3	rr	39	92	5	-	2	-	10	10	220	2	*
Point of Ayre...	1011·0	-20	SSW	6	r.	45	92	6	-	2	-	10	10	800	1	3
Tiree	1000·5	0	SSW	4	RR	45	97	5	-	2	-	10	10	450	1	*
Stornoway ...	1000·4	0	SW	5	rr	47	92	6	5	2	-	7-8	10	2500	1	3
Dalwhinnie ...	1005·9	-32	S	7	iR	42	85	6	6	1	-	4-6	10	2500	1	*
Aberdeen ...	1009·9	-22	S'W	4	ir	42	92	6	6	2	-	2-3	9	800	1	1
Wick ...	1004·8	-16	S	8	C/pr	45	85	8	5	7	-	7-8	9+	1500	1	3
Lerwick ...	1005·5	-16	S	8	C	44	85	7	8	2	-	7-8	10	1500	1	*
Blacksod Point	1000·8	-10	-	0	rr	45	92	7	6	-	-	10	10	<150	2	4
Malin Head ...	1001·0	*	S	1	rr	46	97	5	3	-	-	10	10	800	1	4
Aldergrove ...	1005·6	-20	SSW	5	ir	48	92	6	6	-	-	10	10	800	1	*
Birr Castle ...	1003·7	-30	S'W	3	C	51	92	8	8	-	-	7-8	7-8	1500	1	*
Valentia Obsy. †	1002·4	-16	S'W	2	rr	48	97	6	5	-	-	10	10	800	1	5
Roches Point	1006·3	-40	S'W	6	dd	49	97	6	5	-	-	10	10	450	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 20th. Hrs. (36)
London (Kew)	49	29	18	-	Tr	7·6
Croydon ...	50	32	27	-	-	7·9
S. Farnborough	51	32	24	-	Tr	8·6
Boscombe Down	52	32	26	-	0·1	8·6
Calshot (Sthmtn.)	51	39	35	-	Tr	7·9
Lympne ...	48	35	23	-	0·2	8·4
Manston ...	47	34	25	-	Tr	8·2
Shoeburyness ...	51	34	21	-	-	7·0
Felixstowe ...	50	32	21	-	-	*
Gorleston ...	49	35	32	-	-	7·3
Mildenhall ...	50	32	25	-	Tr	7·1
Cranwell ...	51	29	25	-	-	6·6
Birmingham ...	49	34	32	-	-	6·4
Upper Heyford	51	31	18	-	0·2	*
Ross-on-Wye	53	37	28	-	-	8·3
Hartland Point	48	42	40	-	Tr	8·1
Bristol ...	52	39	32	-	-	8·8
Portland Bill ...	51	40	*	-	-	*
Plymouth ...	50	45	40	-	Tr	7·6
The Lizard ...	51	45	*	-	-	8·2
Scilly (St. Mary's)	52	47	*	-	0·1	7·4
Guernsey ..	49	35	28	-	-	9·2
Pembroke ...	49	45	*	-	Tr	9·2
Holyhead ...	49	44	42	-	0·1	5·8
Chester (Sealand)	55	38	31	-	-	6·7
Manchester ...	50	37	27	-	-	2·7
Spurn Head ...	49	35	*	-	Tr	8·0
Catterick ...	51	31	28	-	-	8·2
Tynemouth ...	50	36	32	-	-	6·4
St Abbs Head ..	47	39	*	-	-	*
Leuchars ...	47	42	38	-	1	5·2
Renfrew (Abbots I.)	48	44	42	-	6	2·6
Eskdalemuir ...	43	38	37	Tr	7	0·0
Point of Ayre...	52	44	*	-	0·5	6·6
Tiree	47	44	43	0·3	5	2·8
Stornoway ...	46	44	*	1	7	1·1
Dalwhinnie ...	42	38	37	Tr	4	1·9
Aberdeen ...	47	42	38	-	0·1	5·6
Wick ...	46	43	*	-	Tr	*
Lerwick ...	46	42	*	-	-	4·0
Blacksod Point	51	47	*	1	33	*
Malin Head ...	48	45	*	-	2	3·0
Aldergrove ...	49	44	40	-	5	2·5
Birr Castle ...	51	46	44	-	0·4	3·4
Valentia Obsy. †	51	48	46	0·3	24	0·0
Roches Point	49	47	*	0·1	2	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning. (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	bmxbc	bcbz	cmx	49	29	18	-	Tr	7·6	*	*	5
Croydon	217	bmxfgm	bcbz	bmwfx	50	32	27	-	-	7·9	*	*	6
Greenwich (Royal Observatory)...	149	bfc	cmf	bfbxcb	48	30	23	-	Tr	1·4	78	89	
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	3·4	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	51	33	25	-		4·5	73	87	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	49	36	23	-	-	4·8	63	83	*
Camden Square	110	b	bc	*	53	35	25	-	-	*	*	86	*
Kensington	80	bcm	bz	*	51	34	24	-	-	5·9	At 18h. 71	87	*
Hampstead Observatory	450	bc	bcm	bc	50	35	27	-	-	7·4	*	93	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
2·0	21-22h. 20th.	0·3	3-4h. 21st.

Kew Observatory. Max.	Time.	Min.	Time.
1·2	22h. 20th.	0·1	5-6h. 21st.

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 20th February. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 21st February. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Paris	1027·5	-	0	b	43	1026·3	-	0	bcf+	30	50	30	-	-
Brussels						1026·2	-	0	fg	30		30		-
Berlin	1022·4	WNW	3	C	37						37		-	
Zurich	1023·9	N	2	C	39	1023·9	NE	1	C	32	45	30	-	-
Rude	1013·4	WNW	2	C	54	1011·3	NE	2	C	45	*	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 22nd February, 1939.
No. 28216

OBSERVATIONS at 13h. G.M.T. 21st February

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1018·4	-26	S	4	bc	49	65	8	7	-	3	4·6	4·6	2500
	Croydon ...	1020·1	-14	S'W	4	b	50	55	7	1	-	5	1	1	2500
	S. Farnborough	1018·6	-20	SSW	4	c	48	65	8	2	4	-	7·8	7·8	2500
	Boscombe Down	1017·6	-24	S'W	5	c	47	75	8	8	-	5	7·8	7·8	1500
	Calshot (Sthmtn.)	1019·5	-18	S'W	4	bc	49	75	8	1	7	6	1	4·6	1500
	Lympne ...	1021·5	-22	S	4	bc	46	75	7	1	-	-	4·6	4·6	1500
	Manston ...	1020·7	-24	S	4	z₀	45	75	6	5	-	-	1	1	800
2	Shoeburyness ...	1020·3	-22	S	3	c	47	75	8	2	-	-	7·8	7·8	4000
	Felixstowe ...	1020·8	-22	S	3	b	45	85	8	1	-	-	Tr	Tr	2500
	Gorleston ...	1020·0	-20	S'W	4	bc	42	85	6	2	-	-	4·6	4·6	2500
	Mildenhall ...	1018·5	-22	S'E	4	z₀	49	65	6	1	-	-	Tr	Tr	2500
	Cranwell ...	1016·4	-30	S'E	4	c	46	75	7	5	-	-	9+	9+	2500
3	Birmingham ...	1015·5	-20	SSE	4	c	44	75	6	5	1	-	9	10	800
	Upper Heyford	1017·3	-22	SSE	4	c	48	75	8	7	-	-	7·8	7·8	2500
4	Ross-on-Wye	1014·4	-30	S	4	c	47	75	8	7	-	2	7·8	9+	2500
5	Hartland Point	1010·8	-34	SW	6	c	48	75	8	5	1	-	7·8	9	1500
	Bristol ...	1016·2	-18	SSW	5	c	48	65	8	5	7	8	4·6	9	1500
	Portland Bill ...	1016·8	-18	S	4	c	47	85	8	1	4	1	4·6	10	2500
	Plymouth ...	1014·3	-30	S	6	cq	48	75	8	5	1	-	9+	10	2500
	The Lizard ...	1011·5	-32	S'E	7	c	49	85	7	8	2	-	7·8	10	1500
	Scilly (St.Mary's)	1009·1	-16	S'E	7	c	47	97	7	5	-	-	10	10	1500
	Guernsey ...	1018·3	-28	S	3	bc	46	85	7	6	-	8	2·3	4·6	2500
6	Pembroke ...	1008·0	-20	SSW	7	cq	47	85	6	8	-	-	10	10	1500
7	Holyhead ...	1007·0	-26	S	6	r₀r₀	46	92	7	6	2	-	7·8	10	800
	Chester (Sealand)	1011·8	-24	SE	3	c	47	75	7	5	7	-	9+	10	2500
8	Manchester ...	1013·0	-26	SSE	5	z₀	46	75	6	5	7	-	7·8	10	1500
10	Spurn Head ...	1016·0	-22	S'E	5	c	46	75	6	4	-	8	4·6	7·8	4000
	Catterick ...	1012·4	-26	SE'S	4	z₀	43	85	5	5	2	-	7·8	10	1500
	Tynemouth ...	1012·0	-12	S	4	c	46	75	5	5	-	-	9	9	1500
11	St. Abbs Head ...	1008·2	-12	SSE	5	cq	47	75	8	8	3	-	7·8	10	1500
	Leuchars ...	1006·9	-20	S	4	rr	46	85	7	5	2	-	4·6	10	1500
12	Renfrew (Abbots I.)	1005·0	-14	SSE	3	c/r	48	85	7	5	7	1	7·8	9+	1500
	Eskdalemuir ...	1008·4	-12	S'E	4	rr	41	92	6	-	2	-	10	10	800
	Point of Ayre ...	1006·3	-28	SSW	6	rr	46	97	6	6	2	-	7·8	10	800
13A	Tiree ...	997·8	-16	NNW	4	RR	41	97	6	-	2	-	10	10	1500
13B	Stornoway ...	1001·0	+4	NW	3	r₀r₀	40	85	7	5	2	-	7·8	10	2500
15	Dalwhinnie ...	1003·0	-16	S	7	ir	44	85	6	8	-	-	4·6	10	2500
	Aberdeen ...	1007·6	-16	S	4	ir	43	97	5	6	2	-	9	10	800
	Wick ...	1002·4	-14	S	8	c/pr	45	85	7	5	2	-	7·8	10	2500
16	Lerwick ...	1004·5	-10	S	8	ir	45	85	7	8	2	-	7·8	10	800
17	Blacksod Point	999·4	-6	N	1	r₀r₀	40	92	7	6	-	-	10	10	450
18	Malin Head ...	998·8	-2	W	2	r₀r₀	43	97	6	8	-	-	9+	9+	1500
	Aldergrove ...	1000·2	-30	S'W	6	d₀d₀	49	85	6	6	-	-	10	10	800
19	Birr Castle ...	1000·8	-14	S'W	4	rr	47	92	7	6	2	-	7·8	10	800
20	Valentia Obsy. †	1000·5	-8	WN	4	c/r	45	92	6	6	2	-	7·8	10	800
	Roches Point	1001·3	-12	SW	4	rr	47	97	6	6	2	-	7·8	10	800

OBSERVATIONS at 18h. G.M.T. 21st February

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1015·0	-12	SSE	3	z₀	43	85	6	-	5	8	0	4·6	-	1	*
	Croydon ...	1015·8	-14	SE'S	3	z₀	43	85	6	-	-	6	0	9+	-	1	*
	S. Farnborough	1014·5	-20	SSE	2	z₀	43	85	6	-	-	9	0	4·6	-	0	*
	Boscombe Down	1013·5	-20	S'E	4	c	42	85	8	-	5	7	0	10	-	1	*
	Calshot (Sthmtn.)	1015·4	-22	SSE	4	z₀	45	85	6	-	7	7	0	10	-	1	2
	Lympne ...	1018·1	-20	SSE	3	b	40	85	6	-	-	5	0	1	-	1	2
	Manston ...	1017·4	-14	S'E	3	z₀	41	75	6	-	-	5	0	2·3	-	1	*
2	Shoeburyness ...	1016·7	+14	S'E	4	b	42	85	7	-	-	1	0	1	-	1	*
	Felixstowe ...	1016·9	-20	S'E	4	z₀	42	85	6	-	7	5	0	1	-	0	3
	Gorleston ...	1018·1	-20	S'W	4	bc	41	75	6	-	4	-	0	2·3	-	0	3
	Mildenhall ...	1014·8	-18	SE	3	bc	41	85	7	4	3	5	Tr	4·6	4000	1	*
	Cranwell ...	1013·2	-14	SSE	3	c	42	75	7	-	7	6	0	9+	-	1	*
3	Birmingham ...	1010·7	-20	SSE	4	c	44	65	6	5	2	-	4·6	10	800	1	*
	Upper Heyford	1013·6	-14	S'E	4	c	42	75	8	-	7	7	0	10	-	1	*
4	Ross-on-Wye	1010·5	-20	S	4	c	45	75	7	5	-	-	10	10	1500	1	*
5	Hartland Point	1006·2	-22	S	6	r₀r₀	46	92	7	6	2	-	7·8	10	800	1	4
	Bristol ...	1012·1	-10	S	5	c	45	75	7	5	2	-	7·8	10	1500	1	*
	Portland Bill ...	1012·6	-26	S	4	c	47	85	8	5	7	-	7·8	10	2500	1	4
	Plymouth ...	1009·4	-24	S	6	rr	48	85	6	6	2	-	7·8	10	1500	1	4
	The Lizard ...	1006·3	-20	S'E	7	rr	47	97	6	5	-	-	10	10	1500	1	4
	Scilly (St.Mary's)	1005·7	-4	SSW	4	c/r	46	97	7	8	7	-	7·8	9+	1500	1	4
	Guernsey ...	1013·4	-20	S'E	5	c	46	75	7	6	2	-	2·3	10	2500	1	4
6	Pembroke ...	1003·4	-28	SSW	7	rr	46	92	6	5	2	-	7·8	10	1500	1	4
7	Holyhead ...	1002·6	-24	S	6	r₀r₀	45	85	7	6	2	-	7·8	10	1500	1	4
	Chester (Sealand)	1007·4	-20	SSE	5	z₀	46	65	6	5	2	-	4·6	10	2500	1	*
8	Manchester ...	1008·8	-18	SSE	4	c	45	65	7	5	7	-	4·6	10	2500	1	*
10	Spurn Head ...	1012·9	-20	SSE	4	c	42	85	6	-	5	8	0	7·8	-	0	3
	Catterick ...	1009·1	-18	S'E	4	z₀	42	85	5	6	2	-	4·6	10	800	1	*
	Tynemouth ...	1008·9	-16	S	4	c	45	75	5	5	-	-	9+	9+	1500	0	2
11	St. Abbs Head ...	1005·2	-14	SSE	6	cq	44	75	6	3	2	-	7·8	10	1500	0	4
	Leuchars ...	1004·3	-12	SSE	3	ir	45	92	6	5	2	-	9+	10	800	1	*
12	Renfrew (Abbots I.)	1002·1	-10	SSE	5	r₀r₀	46	85	5	5	2	-	7·8	10	1500	1	*
	Eskdalemuir ...	1005·0	-12	S'E	4	rr	42	92	6	6	-	-	10	10	450	2	*
	Point of Ayre ...	1002·9	-18	SSW	6	rr	45	85	6	-	2	-	10	10	800	1	4
13A	Tiree ...	994·9	0	NWN	3	DD	41	97	6	-	2	-	10	10	1500	1	3
13B	Stornoway ...	996·4	-18	NNW	3	RS	39	97	7	5	2	-	7·8	10	2500	1	1
15	Dalwhinnie ...	998·4	-20	S	9	RR	43	85	6	6	-	-	10	10	2500	1	*
	Aberdeen ...	1005·2	-14	S	5	iR	43	97	4	6	2	-	9+	10	450	1	2
	Wick ...	1000·4	-8	S	8	c	45	92	6	5	2	-	7·8	10	1500	1	3
16	Lerwick ...	1002·7	-4	S	8	c	45	92	7	8	2	-	4·6	10	800	1	*
17	Blacksod Point	998·1	-6	W	3	bc	44	65	8	8	-	-	4·6	4·6	1500	2	3
18	Malin Head ...	996·6	-24	W	2	ir	43	97	7	8	2	-	7·8	9+	1500	1	4
	Aldergrove ...	997·7	-4	SW	2	r₀r₀	44	97	6	6	2	-	4·6	10	800	1	*
19	Birr Castle ...	1000·0	+2	WSW	1	c	42	97	8	5	1	-	2·3	10	2500	1	*
20	Valentia Obsy. †	1001·0	+6	SW'S	2	bc	44	75	8	2	-	1	2·3	2·3	2500	1	5
	Roches Point	1001·1	0	W	3	bc	45	85	8	3	7	5	2·3	4·6	1500	1	4

PAST 24 HOURS.

District	Weather. 7h.—13h. 21st. (37)	13h.—18h. 21st. (38)	18h. 21st. to 1h. 22nd (39)	1h.—7h. 22nd (40)
1	cm₀xbm₀bc	bcbcm₀	bcm₀c	ccm₀
	cpbcm₀by	bbcycz₀	cm₀c	coc
	bcmbc	cbc	bccm₀	c₀r₀r₀c
	c	c	c	c₀r₀r₀r
	bbc	bcc	cbcc	crr₀r₀
	cm₀bc	bcbbz₀	bm₀	bm₀bcz₀
	bFcbcm₀	bcz₀	bcwbm₀	bbcm₀c
	bFFbc	cbW	bW	bbcc
	bm₀Fc,b	bm₀	bm₀	bm₀c
	bofbcz	bccbcbz	bcbz₀	bz₀c
	bmxbm₀	bm₀bbc	bcbbm₀b	bm₀c
	bm₀fbc	cbcc	cbm₀cm₀	cm₀r₀r₀
3	bcc	cbcc	cr	orr
	ofcm₀c	bcc	c	c₀r₀rm₀
4	c	c	coqr₀qm	r₀oc
5	ocir₀c	p₀r₀r₀c	r₀r₀RRrp	cpbcc
	bcqbcc	c	cirr₀	cirRcbc
	c	c	orr₀	oRc
	cq	cqcmm	crrm₀ir₀	cbcm₀
	c	cprrr	rrcbc	bcprc
	id₀r₀c	cr₀r₀	cp₀qbc	bcpq
	bc	bcc	corr	orrR
6	irm₀qc	crrm₀q	cbc	bc
7	id₀rm₀c	r₀ir₀c	cr₀r₀R	bcPRH
	Chester (Sealand)			
8	cm₀	cr₀m₀z₀	cz₀m₀r₀	cr₀m₀bc
	cm₀	cz₀c	cor₀rrc	
10	bcq	cqc	cq	corrq
	cfxcm₀	cm₀om₀	om₀ir₀	cr₀r₀m₀
	bcc	c	co	oir₀
11	cq	rrm₀c	cqrrp	ocrr
	cr₀r₀rr	rrr₀ir	iririrm₀	cam₀r₀
12	ir₀cr₀r₀	cm₀r₀r₀	m₀r₀r₀rr	m₀r₀r₀bc
	orrd₀d₀	orrdd	orrm₀	orrm₀
	r₀rr	rr	rrir₀	cbc
13A	or₀mrr	oRrr	orrdc	c
13B	crrrr₀	crr	crr	bccpr
15	cRrir₀	ciR	cRrc	
	cir₀	cr₀r₀	cmRir	cirrr
	cp₀r₀	cpr₀	crrm₀	rrcir
	cir	cirrq	cirq	cq
17	rr	ir	bc	pr₀c
18	crrc	crrc	cr₀r₀bc	bcc
	ir₀d₀d₀q	dd₀iRr₀r₀	cr₀r₀rb	bbcb
19	crr	crrc	cbc	bccx
20	rrr₀r₀c	cphr₀bc	bcbNprbc	bcphr₀b
	oddrr	crr bc	bc	cp₀bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

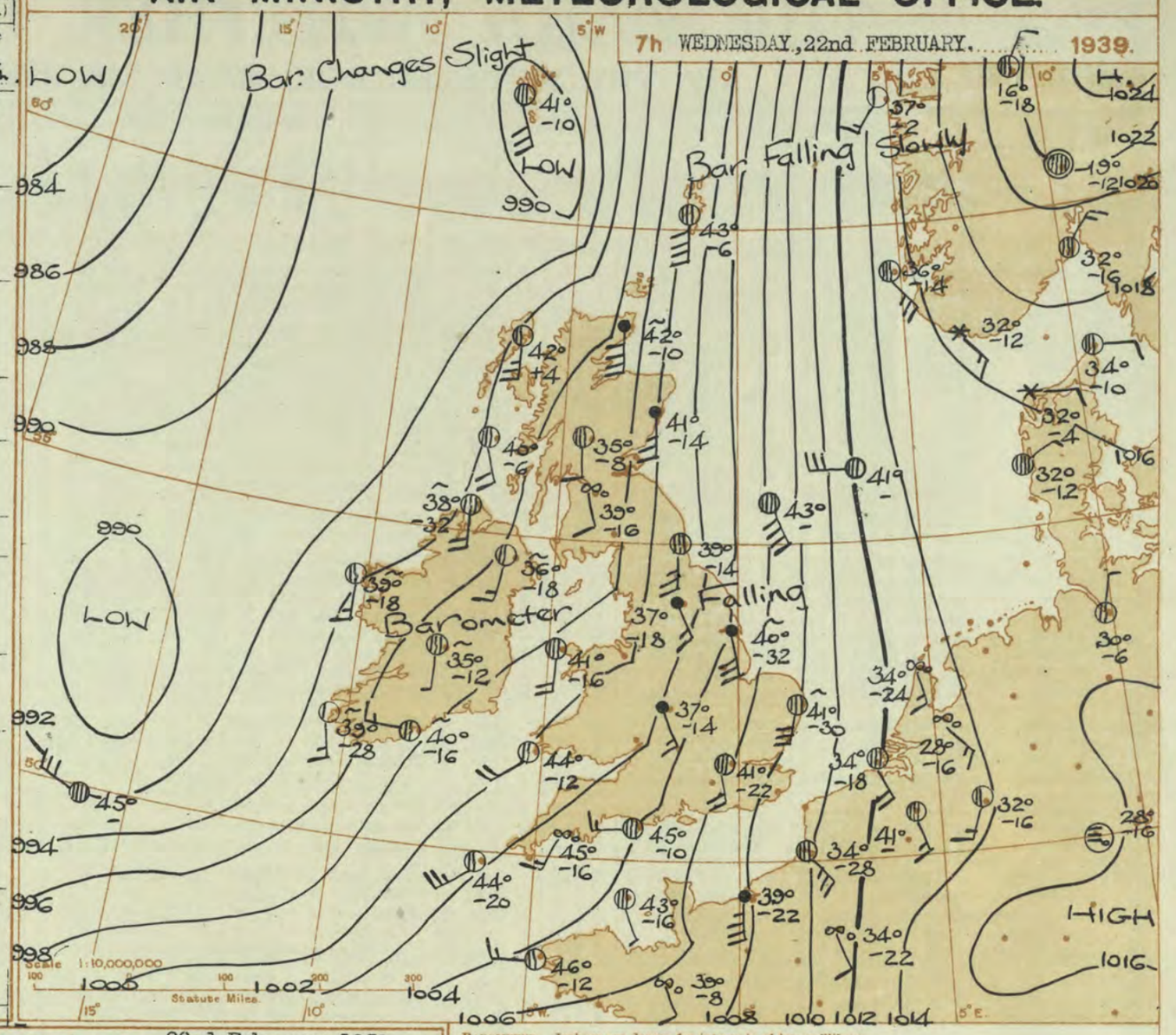
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 21st February 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 20th to 9h. 21st.	Temperature. (°F.) Max. 9h.—17h. 21st.	Rainfall. (mm.) Night. 17h. 20th to 9h. 21st.	Rainfall. (mm.) Day. 9h.—17h. 21st.	Sunshine. (Hrs.) Sunrise to 17h. 21st.	Sunshine. (Hrs.) Sunrise to Sunset. 20th.
1	Tunbridge W.	b	b	27	49	-	-	7·9	5·6
	Bournemouth	b	bbcc	37	50	-	-	5·2	6·6
	Ventnor ...	b	bbcu	40	52	-	-	7·8	8·9
	Southsea ...	b	bbcc	37	51	-	-	7·5	8·4
	Bognor Regis	b	bbcc	32	47	-	-	8·1	9·0
	Littlehampton	bcb	bbc	31	48	-	-	8·4	8·5
	Worthing ...	b	b	33	49	-	-	8·4	8·8
	Brighton ...	b	b	33	47	-	-	8·0	8·2
	Eastbourne† ...	b	b	33	50	-	-	8·4	8·5
	Hastings† ...	b	bbc	35	49	-	-	8·8	7·7
	Folkestone ...	m.cbc	b	33	48	-	-	7·7	8·0
	Dover ...	cbc	bc	33	47	Trace	-	6·4	8·0
	Deal	cobc	b	34	46	-	-	5·1	8·6
	Ramsgate ...	bcm	bc	36	45	-	-	7·6	8·7
	Margate ...	bc	bc	36	47	-	-	8·0	8·3
2	Southend ...	bmb	b	33	53	Trace	-	8·0	7·8
	Clacton-on-Sea	xfbcm	bcb	35	45	Trace	-	7·2	8·3
	Dovercourt ...	doc	bm	35	45	Trace	-	6·1	8·3
	Lowestoft ...	bFcb	bzcb	34	44	-	-	4·4	8·3
	Skegness ...	fcbbc	bcocb	34	46	-	-	4·8	7·1
	Mablethorpe...	omxbc	bc	29	47	Trace	-	4·0	7·8
	Cleethorpes ...	bc	bc	30	47	-	-	5·5	7·0
3	Leamington S.	bcc	c	31	50	-	-	3·6	7·0
4	Cheltenham†	qbcc	bcc	35	50	-	-	3·7	8·2
5	Bath	cbc	c	32	50	-	-	1·2	8·4
	Weymouth ...	b	bcc	34	50	-	-	5·4	4·6
	Jersey ...	bc	bcco	38	50	-	-	5·7	9·1
	Torquay ...	ocq	oq	39	48	-	-	0·3	9·0
	Falmouth	o	ogqor	43	49	-	Trace	0·0	7·4
	Penzance ...	qc	ccqrr	40	50	-	2	0·0	8·0
	St. Ives ...								
	Bude... ...	o	or.	38	49	-	Trace	0·0	7·9
	Ilfracombe ...	bcco	coco	42	50	-	-	0·0	8·3
6	Aberystwyth	c	cid.	41	48	-	Trace	0·0	6·3
7	Llandudno ...	d.cr.	cir.	44	50	-	0·1	0·0	6·4
	Colwyn Bay...	c	pcpcp	43	50	-	1	0·0	7·4
	Rhyl	c	cr.c	41	49	-	Trace	0·0	7·2
8	Wallasey ...	c	co	40	48	-	-	0·0	7·8
	Southport ...	coc	cop.o	37	48	Trace	Trace	0·0	6·3
	Blackpool ...	cm.	cir.c	38	47	Trace	0·3	0·0	4·7
	Morecambe ...	cbc	cdr	37	48	-	0·3	0·4	3·4
9	Ilkley... ...	c	c	34	48	-	-	1·1	3·4
	Harrogate ...	c	bcc	33	45	-	-	1·0	8·0
10	Berwick-on-T.	om.	m.o	37	49	-	-	0·0	6·6
11	Dunbar ...	bcr.	cm.r.	38	48	Trace	Trace	0·0	6·0
12	Troon... ...	opopo	prorp	42	48	3	1	0·0	5·0
	Douglas ...	cirq	cirq	39	46	0·5	1	0·0	6·7

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



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

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 22nd February, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Wind south, moderate to fresh backing southeast; cloudy or dull; occasional rain with sleet, possibly snow in places, later; rather cold.
4 W. Midlands ...	As 6 - 8.
5 S.W. England	Wind backing southeast to east, fresh or strong, decreasing later; cloudy; occasional rain with chance of sleet on high ground; rather cold.
6 South Wales ... 7 North Wales ... 8 N.W. England	Wind southerly, moderate or fresh; bright periods today, local showers of rain or hail; more cloud tomorrow with light rain; rather cold.
9 N. Midlands ... 10 N.E. England ↓ 11 S.E. Scotland ↓	Wind south to southeast, fresh, strong perhaps gale on coast; dull, occasional rain with sleet or snow on hills later; rather cold.
12 S.W. Scotland & Isle of Man. 13 { A. W. Scotld. B. N.W. Scotland. 14 Mid Scotland	Wind south, moderate to fresh locally; bright periods; occasional wintry showers; cold with frost at night.
15 N. E. Scotland ↓ 16 Orkney and Shetland ↓	Southerly gale; dull; occasional rain; rather cold.
17 N. W. Ireland 18 N. E. Ireland	As 12 - 14.
19 S. E. Ireland 20 S. W. Ireland	Wind southeast to variable, moderate to light; becoming cloudy; occasional rain in the South; rather cold.

H.M. Stationery Office Press, Kingsway, W.C.2. K.127/3640. m.8068. D.3783. Gp.548. 32200. 2/39

GENERAL INFERENCE.

Pressure is high over Scandinavia. A deepening depression 600 miles west of the Scilly Isles will move east-southeast probably just to southward of the English Channel. Rather cold unsettled conditions will be general with rain in the Eastern counties at first and further rain or sleet spreading to the south with a possibility of snow locally.

FURTHER OUTLOOK.

Rather cold and unsettled.

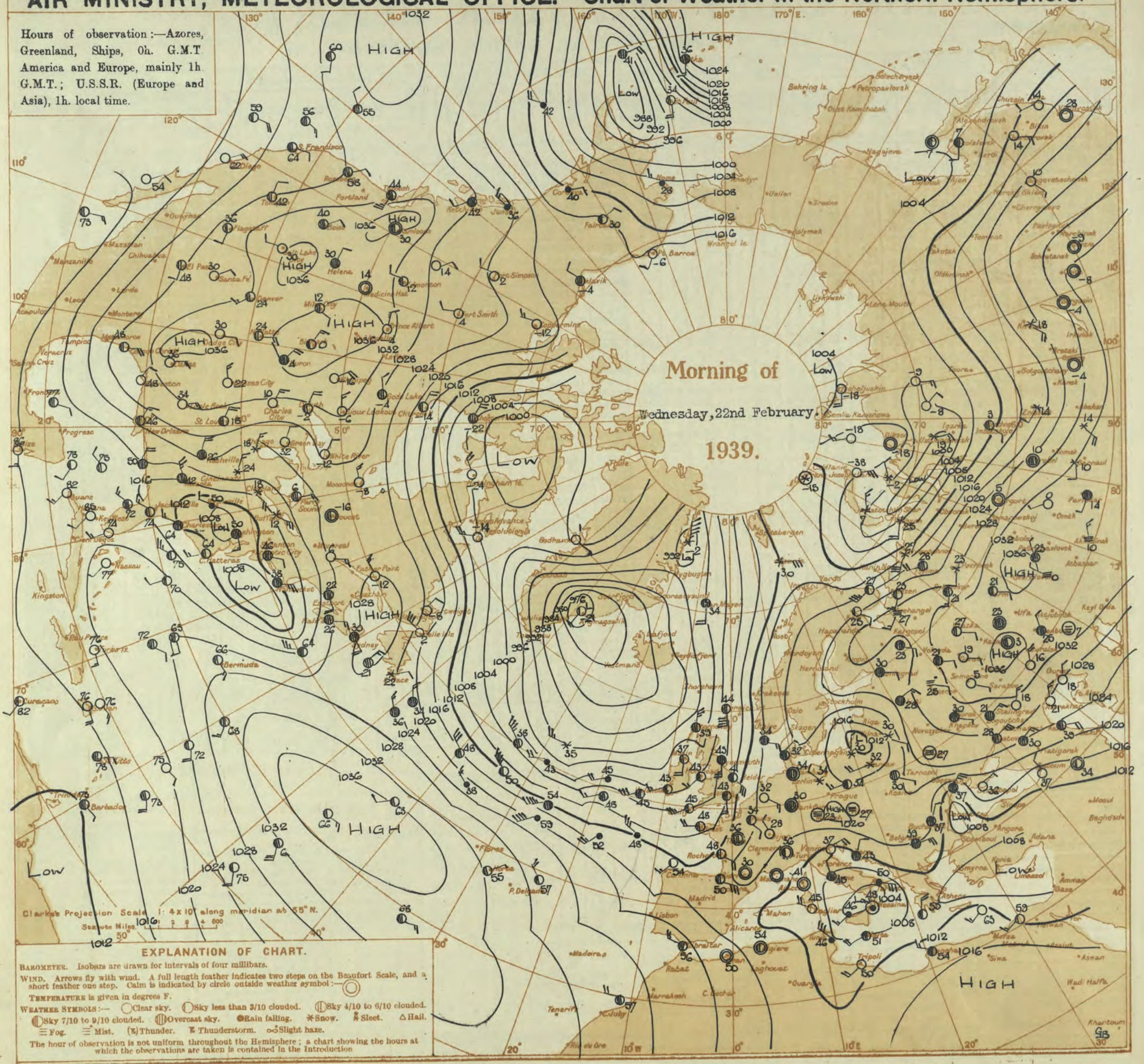
Time of Issue of Gale Warnings.

↓ South Cone hoisted at 0800 on 20/2/39 in districts 15 and 16, at 0200 on 22/2/39 in district 10 and at 1000 in district 11.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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



Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 22nd February, 1939
No. 28216

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1010·8	-22	S'E	3	c	43	75	7	-	7	-	0	10	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1014·1	-18	S	4	Zo	40	85	6	-	-	-	0	0	-
	Manston ...	154	1013·2	-22	S	3	Zo	40	85	6	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1012·9	-24	SSW	4	b	41	85	6	-	-	-	0	0	-
	Mildenhall ...	19	1016·5	-24	SE'S	4	Zo	40	85	6	-	-	-	0	0	-
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1003·5	-8	WSW	4	c/pr	45	92	8	8	-	-	7-8	7-8	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1006·5	-32	S	6	rr	44	92	7	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1005·4	-6	WSW	3	bc	45	92	8	8	-	-	4-6	4-6	2500
	Scilly (St.Mary's)	163	1004·9	-6	W'S	5	bc	45	85	8	8	-	-	2-3	2-3	1500
	Guernsey ..	175	1008·1	-20	SE'S	4	rr	42	97	4	5	-	-	10	10	1500
6	Pembroke ...	142	1002·6	0	W	3	bc	45	92	8	5	-	-	4-6	4-6	1500
7	Holyhead ...	26	1001·1	-4	SW	3	bc/r	43	92	8	9	4	-	2-3	4-6	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1008·5	-22	SSE	6	cq	41	75	7	-	-	7	0	10	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1004·5	-16	S	5	o	43	75	7	5	-	-	10	10	1500
11	St Abbs Head ..	280	1002·1	-12	S	5	rr	40	92	6	3	-	-	10	10	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1000·9	+2	SWW	3	iro	42	97	8	8	2	-	7-8	10	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	994·7	-6	N	5	c	39	92	6	5	2	-	7-3	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	998·0	-6	S	9	c	44	85	6	5	2	-	7-8	10	1500
16	Lerwick ...	156	1002·0	-4	S	8	c	44	75	7	8	2	-	4-6	10	800
17	Blacksod Point	18	996·9	-12	S	3	bc	42	75	8	9	-	-	4-6	4-6	1500
18	Malin Head ...	84	997·2	-4	S	4	bc	37	92	7	5	-	-	2-3	2-3	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	999·8	-6	WSW	3	bc	43	97	8	8	-	-	2-3	2-3	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 22nd February — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low. (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 21st Hrs. (36)
London (Kew)	1005·2	-20	SSW	4	Zo	41	85	6	5	2	-	4-6	10	2500	1	*	49	41	37	-	-	7·6
Croydon	1005·9	-22	S'E	4	c	41	75	7	5	7	7	4-6	9+	4000	1	*	51	41	37	-	-	7·0
S. Farnborough	1004·8	-20	S'E	3	roro	38	97	6	6	2	-	9+	10	1500	1	*	49	37	37	-	3	5·8
Boscombe Down	1003·0	-18	S'E	4	rr	39	97	6	6	2	-	7-8	10	800	1	*	48	38	37	-	6	3·0
Calshot (Sthmtn.)	1005·8	-20	S'E	5	roro	41	92	6	6	2	-	10	10	450	1	3	49	40	39	-	4	7·1
Lympne	1009·0	-26	SSE	4	c	39	75	7	-	7	-	0	9	-	1	§3	46	38	36	-	-	7·6
Manston	1007·7	-26	S	4	c	39	75	7	-	7	7	0	10	-	1	*	47	38	35	-	-	7·7
Shoeburyness	1007·1	-20	ESE	4	c	41	75	7	5	-	-	9+	9+	1500	1	*	48	40	36	-	-	7·2
Felixstowe	1008·1	-26	S	6	c	41	75	7	5	-	-	9+	9+	4000	0	4	46	40	37	0·1	-	*
Gorleston	1007·5	-30	S'W	6	c	41	85	7	-	4	-	0	7-8	-	1	4	45	40	39	-	-	5·5
Mildenhall	1005·5	-22	SE'S	4	c	40	75	7	5	1	-	9+	10	2500	1	*	50	39	34	Tr	-	7·5
Cranwell	1004·1	-32	SSE	5	roro	38	97	5	5	2	-	4-6	10	450	1	*	48	38	34	-	1	4·1
Birmingham	1002·5	-14	SSE	3	roro	37	97	6	6	-	-	10	10	800	1	*	48	36	36	-	6	0·5
Upper Heyford	1003·8	-24	SSE	4	rr	37	97	6	5	-	-	10	10	450	1	*	49	37	35	-	4	*
Ross-on-Wye	1001·3	+20	S'W	2	c	41	97	6	6	-	-	9	9	1500	1	*	48	40	37	-	5	0·9
Hartland Point	1000·1	-24	W	4	cjp	43	92	8	3	-	6	4-6	9	1500	1	3	49	42	39	Tr	8	0·0
Bristol	1002·0	-20	S'E	2	bc	41	97	7	5	4	-	4-6	4-6	1500	1	*	49	40	35	-	5	3·5
Portland Bill	1002·4	-10	W	3	c	45	92	7	5	7	-	7-8	10	2500	1	3	48	42	*	-	6	*
Plymouth	1002·3	-16	SW'S	3	Zo	45	85	6	8	4	-	2-3	4-6	1500	1	3	48	45	40	0·5	4	0·0
The Lizard	1002·5	-20	W'S	4	c/pr	43	92	8	8	2	-	7-8	9+	2500	1	2	(49)	42	*	3	8	0·0
Scilly (St.Mary's)	1001·6	-20	WSW	5	bc/pr	44	92	8	8	3	-	2-3	4-6	1500	1	3	49	42	*	5	1	0·0
Guernsey	1004·0	-16	SSE	1	c/r	43	97	7	5	1	8	4-6	7-8	1500	1	3	49	42	39	-	11	6·6
Pembroke	999·8	-12	WSW	4	bc	44	75	8	8	7	-	2-3	4-6	1500	1	2	48	43	*	4	3	0·0
Holyhead	998·2	-16	S	4	c/phr	41	92	8	9	-	-	9	9	1500	1	2	47	40	34	2	7	0·0
Chester (Sealand)	1000·0	-16	SE'S	3	Zo	39	92	5	5	-	-	4-6	4-6	2500	1	*	48	39	34	Tr	0·1	0·0
Manchester	1000·8	-20	S	3	Zo	40	85	6	5	2	-	9	10	1500	1	*	47	40	39	-	1	0·0
Spurn Head	1002·7	-32	S'E	6	rr	40	92	6	5	-	-	10	10	800	1	4	46	40	*	-	0·3	5·0
Catterick	1000·9	-18	SSE	3	iro	37	97	5	6	-	-	9+	9+	800	1	*	44	37	37	-	2	0·0
Tynemouth	1000·7	-14	S	5	c/r	39	92	6	6	-	-	10	10	800	1	2	46	38	36	-	1	0·0
St Abbs Head	998·9	-20	SSE	4	rr	38	97	6	3	2	-	7-8	10	1500	1	3	47	39	*	0·6	5	*
Leuchars	997·9	-12	SE	4	roro	41	92	6	6	-	-	10	10	800	1	*	47	40	39	9	4	0·0
Renfrew (Abbots I.)	997·5	-16	S'E	2	Zo	39	85	6	5	3	1	2-3	4-6	2500	1	*	48	38	29	2	2	0·0
Eskdalemuir	997·8	-16	S'E	3	ir	38	97	6	6	-	-	10	10	800	2	*	43	37	37	14	14	0·0
Point of Ayre	997·6	-12	SSW	3	bc	37	92	8	8	7	-	2-3	4-6	1500	1	2	46	36	*	10	8	0·0
Tiree	993·5	-6	SSE	4	c	40	85	7	8	7	-	4-6	7-8	1500	1	*	45	38	36	16	2	0·0
Stornoway	994·5	+4	S	5	bc	42	85	7	5	7	-	4-6	4-6	2500	1	3	47	38	*	17	11	0·0
Dalwhinnie	997·1	-8	S	2	c	35	85	7	5	4	-	7-8	9	2500	1	*	44	34	30	7	16	0·0
Aberdeen	998·9	-14	S	5	rr	41	92	5	6	2	-	9	10	450	1	1	45	40	39	4	11	0·0
Wick	996·4	-10	S	8	ir	42	92	6	5	2	-	9	10	800	1	4	46	41	*	0·1	3	*
Lerwick	1000·5	-6	S	8	c	43	75	7	8	2	-	4-6	10	800	1	*	47	42	*	1	Tr	0·0
Blacksod Point	993·9	-18	S	3	bc	39	85	8	9	-	-	4-6	4-6	800	1	4	50	37	*	11	1	*
Malin Head	993·6	-32	S	4	c	38	85	7	8	-	-	4-6	7-8	4000	1	4	46	35	*	14	2	6·0
Aldergrove	996·3	-18	SW	3	bc	36	92	7	8	-	-	2-3	2-3	1500	1	*	49	34	30	5	3	0·0
Birr Castle	996·5	-12	S	1	c	35	97	8	5	7	-	4-6	9	2500	1	*	51	33	23	13	-	0·0
Valentia Obsy. †	994·5	-28	S'E	3	b	39	75	8	5	-	-	Tr	Tr	2500	1	4	48	39	32	12	1	1·5
Roches Point	997·9	-16	W	3	bc	40	92	8	3	4	-	2-3	4-6	1500	1	4	50	39	*	11	0·3	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
		24 hrs. ended 9h.											
Kew	18	cmxbmbc	bcbcmo	bcmc	49	41	37	-	-	7·6	·	·	6
Croydon	217	c,bbcm,y	bba/cZo	cmoc	51	41	37	-	-	7·0	·	··	6
Greenwich (Royal Observatory)	149	bc	bc/b	bcro	52	39	33	-	Tr	7·2	56	79	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	4·8	*	*	*
Westminster (St James' Park)	27	*	*	*	51	41	36	Tr		6·9	65	92	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	51	39	38	-	Tr	6·1	57	82	*
Camden Square	110	bc	bc	*	52	39	37	Tr	Tr	*	*	89	*
Kensington	80	bcm	bc	*	51	40	36	-	0·2	6·7	At 18h. 73	83	*
Hampstead Observatory	450	bc	bc	cod	49	37	35	-	Tr	5·5	*	92	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 22nd

	Max.	Time.	Min.	Time.
South Kensington.	0·3	19-21h. 21st	<0·3	5-6h. 22nd
Kew Observatory.	0·3	9h. 21st	<0·1	1-6h. 22nd

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 21st February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 22nd February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1019·7	S'E	2	m	43	1010·9	SSE	2	Zo	34	48	30	-	-
Brussels						1014·3	*	*	c	41		30		-
Berlin	1019·7	WNW	2	Zo	34	1015·9	—	0	cjp	34	39	32	-	0·5
Zurich	1020·6	ENE	1	bc	34	1015·6	NW	1	Zo	27	43	25	-	-
Rome	1007·8	NE	2	ido	45						*	*	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 ,,	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. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 23rd February, 1939.
No. 28217

OBSERVATIONS at 13h. G.M.T. 22nd February

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	999·3	-40	SE'S	4	zo	41	85	6	5	–	–	10	10	800
	Croydon ...	1000·6	-46	SE'S	4	roro	40	92	6	6	2	–	7-8	10	1500
	S. Farnborough	998·6	-38	SE	3	c	43	85	6	5	–	–	9+	9+	800
	Boscombe Down	997·4	-38	SSW	4	c	46	75	8	8	–	8	4-6	7-8	2500
	Calshot (Sthmtn.)	1000·1	-34	SSW	4	c	48	75	8	2	4	6	2-3	7-8	1500
	Lympne ...	1003·6	-22	SE	4	iro	38	85	7	6	2	–	9	10	450
	Manston ...	1002·4	-32	S	4	c/r	40	75	6	5	2	–	4-6	10	1500
2	Shoeburyness ...	1001·8	-32	SE	5	iro	41	75	7	5	7	–	7-8	10	1500
	Felixstowe ...	1003·0	-26	S	6	c	42	75	7	5	1	–	9	10	2500
	Gorleston ...	1003·0	-26	SSW	6	c	41	75	6	5	–	–	10	10	2500
	Mildenhall ...	999·9	-34	SSE	5	iro	43	75	7	5	2	–	7-8	10	4000
	Cranwell ...	998·4	-36	SE'S	4	dod	38	97	5	6	–	–	10	10	450
3	Birmingham ...	996·5	-40	SE	2	m	41	97	4	6	–	–	9+	9+	800
	Upper Heyford	997·7	-38	SE'S	3	zo	41	97	6	5	–	–	9+	9+	450
4	Ross-on-Wye	995·3	-34	SE	3	c	47	65	8	2	–	1	4-6	7-8	2500
5	Hartland Point	993·5	-44	SW	4	c	46	92	8	8	7	–	7-8	9	1500
	Bristol ...	996·7	-38	SW	3	bc/pr	45	75	8	8	7	6	4-6	4-6	1500
	Portland Bill ...	997·3	-32	SW	3	c	45	92	8	5	4	–	4-6	10	2500
	Plymouth ...	996·5	-34	S	4	c	49	75	8	3	3	–	7-8	7-8	1500
	The Lizard ...	993·3	-52	SE	6	rr	47	97	7	5	–	–	10	10	1500
	Scilly (St. Mary's)	988·3	-100	SSE	7	rr	45	97	6	8	–	–	10	10	1500
	Guernsey ...	999·1	-36	S	3	c	49	75	8	–	3	–	0	9+	–
6	Pembroke ...	992·1	-40	S	5	cq	45	75	8	8	2	–	7-8	9+	1500
7	Holyhead ...	992·7	-34	S	4	c	46	85	8	9	–	3	4-6	7-8	2500
	Chester (Sealand)	994·2	-40	SE'S	4	c	45	75	7	2	–	–	9+	9+	1500
8	Manchester ...	994·7	-44	SSE	3	zo	44	75	6	8	4	–	9+	10	4000
10	Spurn Head ...	998·2	-28	SE	6	rr	40	85	6	5	–	–	10	10	800
	Catterick ...	996·4	-30	SE'S	3	zo	38	97	5	5	–	–	10	10	450
	Tynemouth ...	995·3	-28	S	4	c	40	85	6	5	–	–	9+	9+	1500
11	St. Abbs Head ...	994·0	-24	S	5	c	40	92	6	8	2	–	7-8	10	1500
	Leuchars ...	993·9	-20	SE	3	c/r	43	85	6	5	2	–	7-8	10	800
12	Renfrew (Abbots I.)	992·9	-10	NE	1	c/pr	41	85	6	8	7	–	7-8	9	1500
	Eskdalemuir ...	993·5	-22	SW	2	o/pr	39	92	7	5	–	–	10	10	450
	Point of Ayre ...	992·8	-28	SSW	4	c	45	85	8	8	6	3	4-6	9	2500
13A	Tiree ...	989·8	-4	SW	4	bc	44	75	8	8	–	–	4-6	4-6	2500
13B	Stornoway ...	991·9	+14	SSE	6	c	43	75	8	5	7	9	7-8	9+	2500
15	Dalwhinnie ...	992·8	-24	S	3	c	39	75	7	5	2	–	4-6	10	2500
	Aberdeen ...	994·8	-20	SE	4	roro	39	92	5	6	2	–	9+	10	450
	Wick ...	993·5	-20	S	6	iro	41	92	7	5	2	–	9	10	800
16	Lerwick ...	998·7	-8	SE	8	iro	42	75	7	8	2	–	7-8	10	800
17	Blacksod Point	990·3	-18	W	1	rs	36	97	7	6	–	–	10	10	450
18	Malin Head ...	990·1	-6	S	4	c	41	85	8	5	–	9	4-6	7-8	4000
	Aldergrove ...	991·2	-22	SWS	3	c	43	75	8	8	–	1	7-8	7-8	1500
19	Birr Castle ...	989·9	-26	S	1	c	42	85	8	5	1	–	2-3	10	1500
20	Valentia Obsy. †	986·5	-38	N'W	1	c/pr	43	75	9	5	2	–	4-6	10	1500
	Roches Point	985·6	-68	SE	5	rr	43	92	6	6	2	–	7-8	10	800

OBSERVATIONS at 18h. G.M.T. 22nd February

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	992·5	-28	SE'S	4	zo	43	85	6	5	–	–	10	10	2500	1	*
Croydon	994·1	-38	SE	4	c/pr	42	92	6	5	2	–	9	10	1500	1	*
S. Farnborough	991·5	-42	SSE	3	zo	43	85	6	6	2	–	7-8	10	2500	1	*
Boscombe Down	988·5	-58	SSE	6	rr	42	97	6	6	2	–	9	10	450	1	*
Calshot (Sthmtn.)	991·4	-60	SE'S	6	roro	45	92	6	6	2	–	4-6	10	800	1	4
Lympne	997·4	-38	SSE	4	o	39	85	6	5	–	–	10	10	450	1	§ 4
Manston	996·8	-36	S	4	iro	39	85	6	6	2	–	9	10	1500	1	*
Shoeburyness	995·4	-40	SE	5	c	41	92	7	5	9	8	tr	9	1500	1	*
Felixstowe	997·1	-34	S	7	ido	40	85	7	5	–	–	10	10	1500	1	4
Gorleston	997·0	-36	SW	7	iro	40	85	6	6	–	–	10	10	1500	1	4
Mildenhall	994·0	-30	SE'S	5	c	39	92	7	5	2	–	9+	10	1500	1	*
Cranwell	992·2	-42	SE	5	zo	39	92	5	5	–	–	10	10	800	1	*
Birmingham	989·2	-48	ESE	3	c	41	85	6	5	7	–	2-3	9+	1500	1	*
Upper Heyford	990·0	-34	SE'S	5	c	42	85	7	6	2	–	9	10	800	1	*
Ross-on-Wye	985·8	-56	SE	4	rr	42	92	6	6	–	–	10	10	800	1	*
Hartland Point	979·6	-70	SW	6	c/r	45	92	8	9	–	–	7-8	7-8	1500	1	3
Bristol	986·1	-78	SSE	5	rr	42	92	7	6	2	–	4-6	10	800	1	*
Portland Bill	986·5	-60	S	6	RR	46	92	7	5	–	–	10	10	1500	1	4
Plymouth	983·9	-52	SSW	7	cq	48	85	6	6	2	–	4-6	9	800	1	4
The Lizard	983·7	-16	SW'W	7	bc	45	97	8	8	–	–	4-6	4-6	1500	1	4
Scilly (St. Mary's)	982·2	-28	WSW	8	c/pr	45	92	6	8	6	–	4-6	9+	1500	1	5
Guernsey	989·5	-48	SSE	5	rr	47	92	5	5	–	–	10	10	1500	1	4
Pembroke	977·4	-80	SSW	4	c/r	45	85	7	9	–	–	9	9	800	1	3
Holyhead	983·6	-54	E'N	5	c	42	85	8	5	7	–	4-6	10	4000	1	2
Chester (Sealand)	986·6	-52	E'S	3	zo	44	65	6	8	7	–	7-8	9+	2500	1	*
Manchester	988·3	-40	ESE	4	zo	41	85	5	5	7	2	2-3	9+	1500	1	*
Spurn Head	992·5	-32	SE'S	6	iro	40	85	7	5	–	–	10	10	450	1	4
Catterick	990·8	-34	SE	4	iro	38	97	5	6	–	–	10	10	450	1	*
Tynemouth	991·5	-22	S	4	o	40	85	6	5	–	–	10	10	1500	1	[illegible]
St. Abbs Head	990·8	-6	SSE	4	c	39	92	5	5	2	–	7-8	10	1500	0	3
Leuchars	990·6	-16	SE	3	zo	41	85	6	5	6	–	7-8	9	1500	1	*
Renfrew (Abbots I.)	989·5	-20	SE'E	2	zo	41	85	6	8	6	–	4-6	9	2500	1	*
Eskdalemuir	989·3	-22	ESE	3	c	38	85	6	5	–	–	10	10	800	1	*
Point of Ayre	986·4	-44	SE	4	c	42	92	7	5	7	3	4-6	9+	1500	1	3
Tiree	989·2	-8	SE'E	3	c	40	85	8	8	–	–	7-8	7-8	1500	0	3
Stornoway	990·1	-4	SSE	5	c	40	85	8	8	5	6	2-3	7-8	1500	1	3
Dalwhinnie	990·7	-8	S	2	c	34	92	7	8	6	–	4-6	7-8	2500	4	*
Aberdeen	992·3	-14	S	4	c	41	92	5	6	2	–	9+	10	450	1	3
Wick	991·4	-16	SSE	6	c	41	85	6	5	7	–	7-8	10	800	1	3
Lerwick	996·8	+2	SE	8	rr	40	85	6	6	2	–	7-8	10	450	1	*
Blacksod Point	987·6	-18	W	2	c	40	75	8	2	–	–	4-6	7-8	2500	2	3
Malin Head	986·5	-34	S	2	c	39	85	8	5	–	7	2-3	9	2500	1	4
Aldergrove	985·8	-26	SE	2	zo	39	85	6	2	7	–	1	10	2500	1	*
Birr Castle	983·8	-22	NE	2	ir	40	92	7	6	2	–	4-6	10	800	1	*
Valentia Obsy. †	985·9	+6	NWN	5	c	43	65	9	8	7	–	9	9+	2500	1	5
Roches Point	980·0	-14	NNE	7	rs	38	97	6	6	2	–	7-8	10	800	1	4

PAST 24 HOURS. Weather.

Stations	7h.—13h. 22nd (37)	13h.—18h. 22nd (38)	18h. 22nd to 1h. 23rd (39)	1h.—7h. 23rd (40)
London (Kew)	cmocro	c|docm	crororc	cbc
Croydon	cromodo	rodor rpro	cRrorob	bv
S. Farnborough	croirc	cprbcc	cirbcb	b
Boscombe Down	rrroro pro	cprocrr	crrrob	b
Calshot (Sthmtn.)	crdocbc	bcc, ir	crrRbcb	bcprob
Lympne	omo roir	ororoomo	om rorrc	crobbc
Manston	cir mo	cirmo	croromo	cirobbc
Shoeburyness	croc	ciroc	crrc	crorc
Felixstowe	co	rodororoo	oidroro	obbcv
Gorleston	cq	coiroq	oirorr	orrbc
Mildenhall	ccliro	ciroc	crriro m	bcb, bc
Cranwell	crorododo	dodo com	orrroro	ciro
Birmingham	oirom	c	oRir	oro
Upper Heyford	crorcmo	cproc	RroroRcbcb	crorocq
Ross-on-Wye	cpcbc	cbccor	crqbqoq	oq
Hartland Point	c	crrbc	RorRroroo	rorocbc
Bristol	bccpro	cRR rr	rrRbcc	RRRsh
Portland Bill	cpr	oR	cbc	bcc
Plymouth	bcpro	bcorr	bcmo pro	bcprobc
The Lizard	cpr rr	crrpr	phrbc	bcq
Scilly (St. Mary's)	cpror	rrphrq	phrqro	rophrq
Guernsey	bccir	cirov	orrpr	bcc
Pembroke	bcprcq	cqmoRR	cprqr	crorq
Holyhead	cbprc	proc	RRcroc	rorirc
Chester (Sealand)	bcmoc	cproprmo	crroro m	crorom
Manchester	cmzo	czomo	cmcrrro	rorriro
Spurn Head	oirq	irqo	rrqo	qir
Catterick	iromocmo	omo iro	rrmss	oirrr
Tynemouth	oiroc	co	oiroir	oiro
St. Abbs Head	moc	moc	iReq	rreq
Leuchars	rorodoromo	cprocm	cmirocm	iRrcrrm
Renfrew (Abbots I.)	cqmopro	qphrmo	cm	cmcroro
Eskdalemuir	cpro	cprcmo	iroc	crrirs
Point of Ayre	bcrrc	cpre	crrrs	rse
Tiree	cphbc	bcc	circ	cird
Stornoway	cpr	cpr	cbcc	c
Dalwhinnie	c	ciS	*	cis
Aberdeen	crrro	rorocmo	cororo	ororo
Wick	iriro	iromo	PRcr	rriro
Lerwick	cirocq	iroprm	cir	cprprs
Blacksod Point	prc	prcbc	bc	proc
Malin Head	bcc	cbcc	ccPHRc	crrc
Aldergrove	bbcc	ccmo	irororomo	crorom
Birr Castle	c	cir	circbc	bcx
Valentia Obsy. †	bbcproc	ciroc	cphqcph	bcphrq
Roches Point	prcrr	rr rs rs	rsrsc	c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/so, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
so/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. ro, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. Ⓘ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus :—bc/r, fair weather after rain ; —. has decreased ; +. has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

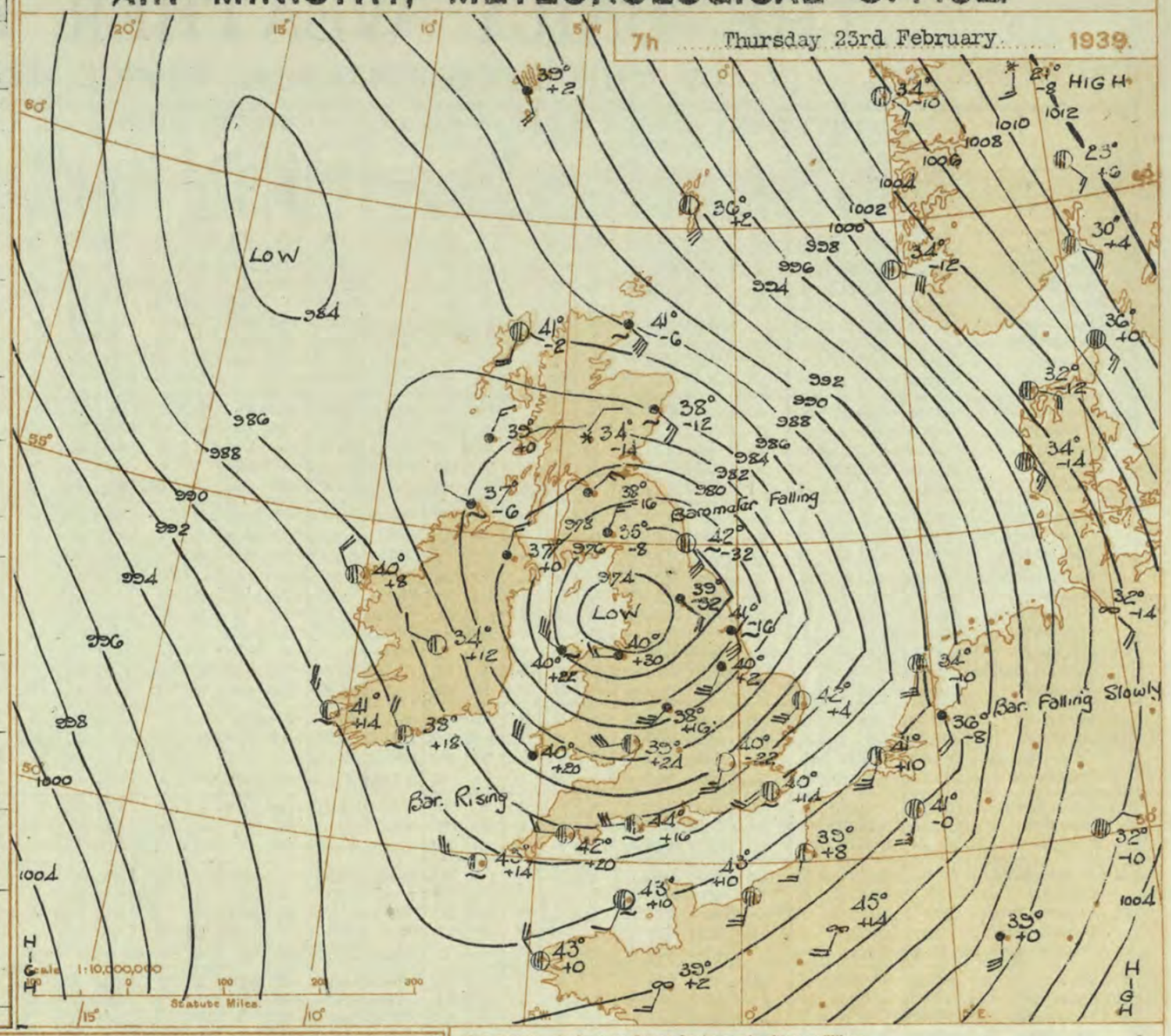
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 22nd. February 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 21st. to 9h. 22nd.	Temperature. (°F.) Max. 9h.—17h. 22nd.	Rainfall. (mm.) Night. 17h. 21st. to 9h. 22nd.	Rainfall. (mm.) Day. 9h.—17h. 22nd.	Sunshine. (Hrs.) Sunrise to 17h. 22nd.	Sunshine. (Hrs.) Sunrise to Sunset. 21st.
1	Tunbridge W.	oor	opcp	38	41	–	2	0·0	7·3
	Bournemouth	b	bcp	41	51	6	0·5	4·8	5·2
	Ventnor ...	rcb	bcou	39	51	3	–	4·4	7·8
	Southsea ...	popc	cbc	40	47	3	–	2·3	7·5
	Bognor Regis	rcir	rcbcc	40	45	7	2	0·5	8·1
	Littlehampton	crc	bcpc	40	45	4	2	0·4	8·4
	Worthing ...	orq	cbcc	39	45	5	1	0·6	8·4
	Brighton ...	rcc	c	40	44	1	2	0·0	8·0
	Eastbourne† ...	or.r.	r.o	41	45	–	2	0·0	8·4
	Hastings† ...	od.d	do c	40	46	–	1	0·0	8·8
	Folkestone ...	or.o	or.o	38	42	–	Trace	0·0	7·7
	Dover ...	or.o	or.o	39	41	–	Trace	0·0	6·4
	Deal	oor.	p o	39	41	–	Trace	0·0	5·1
	Ramsgate ...	cd	o	39	41	–	Trace	0·0	7·6
	Margate ...	c	c	39	42	–	–	0·0	8·0
2	Southend ...	oid.	oid.o	39	42	–	Trace	0·0	8·0
	Clacton-on-Sea	co	oir.o	38	41	–	0·1	0·0	7·2
	Dovercourt ...	bc	roc	38	41	–	Trace	0·0	6·1
	Lowestoft ...	cbcz	bccop	36	42	–	0·1	0·0	4·4
	Skegness ...	o	od.o	38	46	–	Trace	0·0	4·8
	Mablethorpe...	oir	oir	34	42	–	0·5	0·0	4·0
	Cleethorpes ...	or	oir	37	40	2	2	0·0	5·5
3	Leamington S.	orc	cod	38	46	3	0·2	0·8	3·6
4	Cheltenham†	om.c	bccp	38	47	6	Trace	2·4	3·7
5	Bath	cbc	bccp	41	49	4	0·3	2·3	1·2
	Weymouth ...	b	pcbr	41	50	8	2	5·6	5·4
	Jersey ...	rcbc	bccpc	41	49	6	0·2	5·8	5·7
	Torquay ...	bcpbc	corqm	38	48	6	9	3·5	0·3
	Falmouth	pbcor	qrroc	40	50	8	7	3·1	0·0
	Penzance ...	bbcrr	qcirq	40	50	3	6	2·0	0·0
	St. Ives ...								
	Bude... ...	bc	cpbc	39	49	4	3	2·2	0·0
	Ilfracombe ...	ropbc	pir	40	48	7	3	0·0	0·0
6	Aberystwyth	prcbc	cpr	40	48	5	2	2·5	0·0
7	Llandudno ...	pcbc	circ	39	48	6	2	1·5	0·0
	Colwyn Bay...	pcpbc	bcc	40	48	2	0·5	2·1	0·0
	Rhyl	bc	cpr.c	37	48	0·1	0·5	3·1	0·0
8	Wallasey ...	mbcc	cprhc	39	46	–	Trace	1·5	0·0
	Southport ...	bczbc	cprhc	39	49	Trace	3	3·5	0·0
	Blackpool ...	crm.	c@pc	39	47	0·5	4	2·3	0·0
	Morecambe ...	cbcp	bcc	37	47	2	1	2·8	0·4
9	Ilkley... ...	o	o	38	42	10	–	0·0	1·1
	Harrogate ...	oroc	coir	36	38	6	0·4	0·0	1·0
10	Berwick-on-T.	om.c	om.c	38	41	2	–	0·0	0·0
11	Dunbar ...	cm.r.	cm.	38	46	0·3	–	1·5	0·0
12	Troon... ...	cpohc	bccpo	38	45	3	4	2·8	0·0
	Douglas	cpr.x	bcpr	38	45	7	2	3·3	0·0

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



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 23rd February, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ...	Wind southwest, fresh, decreasing; considerable fine periods; scattered showers perhaps of hail locally; average day temperature; frost in places at night.
4 W. Midlands ... 5 S.W. England 6 South Wales ... ▲ 7 North Wales ... ▲	Wind west to northwest, fresh, strong locally on the coast at first, moderating; variable sky; showers of rain or hail with thunder locally; sleet or snow on hills; rather cold.
8 N.W. England ▲ 9 N. Midlands ...	Wind variable becoming westerly, fresh, squally; mainly cloudy; occasional rain at first, bright periods and wintry showers later; local thunder; rather cold.
10 N.E. England ▼ 11 S.E. Scotland ▼	Wind southeast, fresh to strong on coasts, veering and moderating; dull, rain at first with sleet on hills; brighter periods with frequent wintry showers later; rather cold.
12 S.W. Scotland & Isle of Man.	Wind east to variable moderate to fresh, becoming westerly; cloudy, occasional rain at first; bright periods and wintry showers later; rather cold.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland ▼ 16 Orkney and Shetland ▼	Wind east to southeast, gale at times near east coast, veering south and moderating later; dull, rain at times with sleet and snow on hills; rather cold.
17 N. W. Ireland	As 19 - 20.
18 N. E. Ireland ▲	As 12.
19 S. E. Ireland ▲ 20 S. W. Ireland	Wind northwest, fresh to strong and squally locally; bright periods; rain or hail showers with thunder locally; sleet on hills; rather cold.

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

GENERAL INFERENCE.

A deep depression centred over Northwest England will drift slowly north or north-northwest and become less deep. In southern and western districts there will be bright periods but with showers of rain and hail and a little local thunder. There will be a rather long period of rain in Scotland but the brighter conditions will extend slowly north. Snow and sleet will occur on the hills.

FURTHER OUTLOOK.

None issued.

Times of Issue of Gale Warnings.

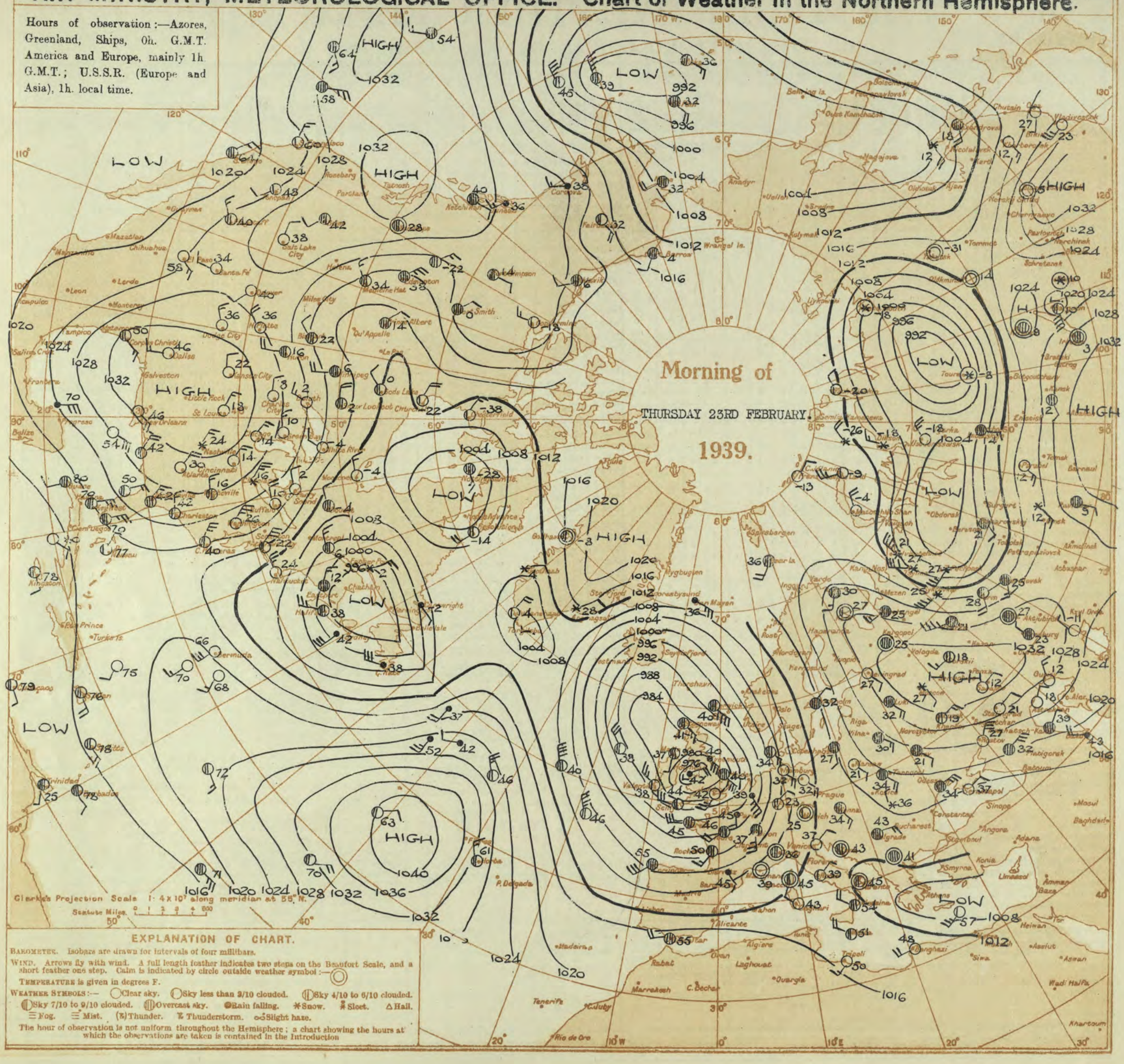
▼ South Cone hoisted at 0800 on 20th in districts 16 and part of 15; at 0200 on 22nd in district 10 and at 1000 on 22nd in districts 11 and remainder of 15.

▲ North Cone hoisted at 1910 on 22nd in districts 6, 7, 8 and parts of 18 and 19.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 23rd February, 1939.
No. 28217

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

Distrct.	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Cloud. Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	984.9	-1.6	SSW	5	b	42	92	7	-	-	-	0	0	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	987.9	-2.6	SW'S	5	c/r	42	85	6	5	2	-	9	10	1500
	Manston ...	154	986.9	-3.0	SSW	5	ir	44	85	6	5	2	-	7-8	10	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	986.2	-5.6	S	7	rr	40	92	6	6	-	-	10	10	1500
	Mildenhall ...	19	983.2	-4.8	SSE	4	bc/r	41	97	8	5	-	-	4-6	4-6	1500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Hayford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	980.6	-6.4	W	8	r.r.	40	85	7	-	2	-	10	10	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	983.5	+2	WSW	7	bc	44	92	8	5	-	-	4-6	4-6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	987.5	+2.0	W	6	bc	43	75	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	986.7	+1.0	WNW	6	bc/pr	44	85	8	3	-	-	2-3	2-3	1500
	Guernsey ..	175	988.0	-2	SW	4	bc	43	75	9	-	3	-	0	2-3	-
6	Pembroke ...	142	977.7	+2.2	NW	6	rr	40	92	6	5	2	-	7-8	10	800
7	Holyhead ...	26	973.3	-2.2	ENE	4	r.r.	42	92	7	6	2	-	4-6	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	980.2	-6.2	SE	8	o/r	40	92	6	5	-	-	10	10	1500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	983.5	-4.0	SE	6	ir	40	85	6	6	-	-	10	10	800
11	St Abbs Head ..	280	984.3	-3.0	SE	7	iR	39	85	7	3	2	-	7-8	10	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	987.7	-3.4	E	5	ir	38	97	7	-	2	-	10	10	800
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	987.0	-4	ESE	3	c	41	75	7	5	1	-	4-6	10	2500
15	Lalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	988.9	-1.2	SSE	8	rr	40	92	6	5	2	-	9	10	800
16	Lerwick ...	156	994.5	-1.2	SSE	8	c	40	75	7	8	2	-	7-8	10	800
17	Blacksod Point	18	987.6	0	W	3	bc	45	85	8	9	-	-	4-6	4-6	1500
18	Malin Head ...	84	983.7	-1.0	S	1	c.p	37	92	6	9	-	-	7-8	7-8	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	987.9	+1.0	NWN	5	b/pr	38	97	8	8	-	-	1	1	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 23rd February

Distrct.	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Cloud. Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	985.3	+2.0	SSW	5	bc	40	75	8	8	-	-	2-3	2-3	2500	1	*
	Croydon ...	986.4	+2.2	SSW	5	b	40	75	7	5	4	-	Tr	1	4000	1	*
	S. Farnborough	985.5	+1.6	SW'S	4	b	39	75	8	3	-	-	Tr	Tr	2500	1	*
	Boscombe Down	985.1	+2.0	SW'S	4	bc	37	75	8	8	6	-	1	2-3	2500	1	*
	Calshot (Sthmtn.)	987.1	+1.8	WSW	5	b	42	65	8	8	-	-	1	1	1500	1	3
	Lympne ...	988.6	+1.4	SW	4	c	40	92	8	5	-	-	7-8	7-8	800	1	§4
	Manston ...	987.3	+1.4	SSW	4	b	40	85	7	8	3	-	1	1	2500	1	*
2	Shoeburyness ...	986.5	+1.6	SSW	4	bc	41	75	7	7	4	-	2-3	2-3	2500	1	*
	Felixstowe ...	985.6	+6	SSW	7	bc	42	85	7	5	1	-	1	2-8	2500	1	4
	Gorleston ...	984.7	+4	SW'S	5	bc	42	85	7	5	-	1	2-3	4-6	2500	1	3
	Mildenhall ...	982.3	+1.0	S	5	bc	39	85	7	5	3	-	1	2-3	4000	1	*
	Cranwell ...	977.4	+2	SSW	5	ir	40	85	8	6	-	-	9+	9+	800	1	*
3	Birmingham ...	977.7	+1.6	SW	5	r.r.	38	85	6	9	-	-	10	10	450	1	*
	Upper Hayford	982.1	+2.2	SSW	6	c	37	92	8	6	-	-	10	10	800	1	*
4	Ross-on-Wye	981.2	+2.4	W'S	6	eq	39	75	8	6	1	2	2-3	9+	2500	1	*
5	Hartland Point	985.1	+2.6	NW	6	bc	41	75	8	3	-	-	4-6	4-6	1500	1	4
	Bristol ...	984.3	+3.0	W	6	DHR	38	85	6	6	-	-	9	9	450	1	*
	Portland Bill ...	986.9	+1.6	WSW	6	c	44	85	8	5	-	-	7-8	7-8	2500	1	5
	Plymouth ...	987.6	+2.0	W	3	c/pr	42	75	8	3	-	3	7-8	7-8	1500	1	2
	The Lizard ...	988.1	+1.4	W	5	bc	42	75	8	8	-	-	4-6	4-6	2500	1	3
	Scilly (St. Mary's)	988.3	+1.4	WNW	5	bc	43	85	8	3	-	-	4-6	4-6	1500	1	4
	Guernsey ..	988.9	+1.0	SSW	2	c	43	85	7	8	3	-	4-6	9	2500	1	4
6	Pembroke ...	983.8	+2.0	NW	6	r.r.	40	92	7	8	2	-	7-8	10	800	1	3
7	Holyhead ...	976.0	+2.2	NW	7	ir	40	92	7	9	2	-	7-8	10	1500	1	4
	Chester (Sealand)	974.7	+3.0	W	3	r.r.	40	85	7	6	2	-	7-8	10	800	1	*
8	Manchester ...	973.2	+2.0	SW'W	3	o/r	38	97	6	5	-	-	10	10	1500	1	*
10	Spurn Head ...	976.9	-1.6	S'E	6	ir	41	85	7	5	-	-	10	10	800	1	4
	Catterick ...	978.8	-3.2	SE'E	4	rr	39	92	6	6	-	-	10	10	1500	1	*
	Tynemouth ...	975.6	-3.2	SE	6	c/r	42	85	7	6	-	-	10	10	800	1	4
11	St Abbs Head ..	978.0	-2.4	E	6	rr	39	97	7	3	-	-	10	10	1500	2	4
	Leuchars ...	980.8	-1.8	E	6	rr	39	92	6	6	2	-	9	10	450	1	*
12	Renfrew (Abbotsl.)	979.8	-1.6	NE	3	r.r.	38	85	7	6	2	-	7-8	10	1500	1	*
	Eskdalemuir ...	976.7	-8	NNE	3	rs	35	97	6	6	-	-	10	10	450	*	*
	Point of Ayre...	975.8	-2	ENE	4	c	40	92	7	8	7	-	7-8	10	1500	1	3
13A	Tiree	982.7	0	NNE	3	id	39	92	7	6	2	-	7-8	9+	1500	1	*
13B	Stornoway ...	986.0	-2	SSW	4	c	41	85	7	5	2	-	7-8	10	2500	1	2
15	Lalwhinnie ...	983.5	-1.4	NE	2	is	34	92	5	5	1	-	4-6	10	1500	4	*
	Aberdeen ...	984.7	-1.2	SE'E	5	r.r.	38	85	6	6	-	-	10	10	450	1	4
	Wick ...	987.2	-6	SE	8	ir	41	85	6	5	2	-	9	10	800	1	4
16	Lerwick ...	993.5	+2	SSE	6	c/rs	36	92	7	8	7	-	4-6	7-8	800	1	*
17	Blacksod Point	987.6	+8	NW	4	bc	40	75	8	9	-	-	4-6	4-6	1500	1	3
18	Malin Head ...	982.2	-6	W'N	2	r.r.	37	97	6	9	2	-	4-6	9	1500	1	4
	Aldergrove ...	979.7	0	N'E	3	r.r.	37	92	6	6	-	-	10	10	1500	1	*
19	Birr Castle ...	984.7	+1.2	WNW	2	bc	34	97	8	5	4	-	2-3	4-6	2500	1	*
20	Valentia Obsy. †	989.7	+1.4	NW'N	5	bc	41	65	8	8	-	-	2-3	2-3	2500	1	5
	Roches Point	987.8	+1.8	NW	4	c	38	85	8	5	7	5	2-3	7-8	1500	1	4

PAST 24 HOURS.

Distrct.	Stations.	Temperature. Max. Day 7h–18h °F. (31)	Temperature. Min. Night 18h–7h °F (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 22.1 Hrs. (36)
1	London (Kew)	45	39	35	0.5	5	1.2
	Croydon ...	43	40	36	3	6	0.0
	S. Farnborough	45	38	35	2	7	0.9
	Boscombe Down	49	36	32	2	6	3.3
	Calshot (Sthmtn.)	49	41	38	0.5	4	3.2
	Lympne ...	40	38	34	0.2	3	0.0
	Manston ...	40	38	36	Tr	2	0.0
2	Shoeburyness ...	42	40	36	Tr	3	0.0
	Felixstowe ...	42	39	38	0.2	1	*
	Gorleston ...	42	39	37	0.1	4	0.0
	Mildenhall ...	43	39	35	Tr	3	0.0
	Cranwell ...	40	38	37	3	3	0.0
3	Birmingham ...	45	38	36	0.4	6	0.2
	Upper Hayford	45	36	33	2	4	*
4	Ross-on-Wye	49	39	38	3	5	2.4
5	Hartland Point	46	39	38	4	2	2.4
	Bristol ...	48	37	33	3	11	4.5
	Portland Bill ...	47	40	*	4	3	*
	Plymouth ...	50	41	38	6	0.6	2.7
	The Lizard ...	(47)	40	*	6	1	2.9
	Scilly (St. Mary's)	49	40	*	5	0.5	1.5
	Guernsey ..	50	42	36	2	2	4.3
6	Pembroke ...	46	39	*	11	4	1.8
7	Holyhead ...	46	39	39	2	9	3.4
	Chester (Sealand)	46	39	37	0.1	12	1.6
8	Manchester ...	45	37	37	-	5	0.7
10	Spurn Head ...	41	38	*	1	3	0.0
	Catterick ...	39	33	32	0.1	6	0.0
	Tynemouth ...	40	39	37	1	3	0.0
11	St Abbs Head ..	41	37	*	1	6	*
	Leuchars ...	45	38	37	0.4	6	1.0
12	Renfrew (Abbotsl.)	45	37	34	1	2	2.0
	Eskdalemuir ...	43	33	32	3	4	0.5
	Point of Ayre...	47	37	*	2	10	3.6
13A	Tiree	45	37	35	1	0.5	5.5
13B	Stornoway ...	44	38	*	0.5	-	0.9
15	Lalwhinnie ...	40	32	28	4	2	0.2
	Aberdeen ...	41	38	35	9	4	0.0
	Wick ...	42	39	*	3	1	*
16	Lerwick ...	45	35	*	Tr	0.6	0.0
17	Blacksod Point	49	36	*	9	0.3	*
18	Malin Head ...	42	36	*	-	8	3.8
	Aldergrove ...	44	37	34	-	4	2.9
19	Birr Castle ...	43	34	30	1	1	2.0
20	Valentia Obsy. †	43	35	32	1	4	0.1
	Roches Point	45	36	*	13	2	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset. hrs. (Yesterday.)	Humidity. 15h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew...	18	c m e r	c i d e m	e r r r c	45	39	35	0.5	5	1.2	•	•	8
Croydon	217	e r m d	r d i r r p r	e R r b	43	40	36	3	6	0.0	•	•	9
Greenwich (Royal Observatory)...	149	e r.	c i c	e r r r b	42	39	34	0.3	4	0.0	91	60	7
City (Bishopsgate St. Within) ...	—				•	•	•	•	•	0.0	•	•	•
Westminster (St James' Park) ...	27	•	•	•	45	40	35	6		0.0	91	65	•
Regents Pk. (Botanic Gardens)‡...	168	•	•	•	44	39	36	-	5	0.0	83	60	•
Camden Square	110	o d	c	•	44	39	35	0.5	5	•	•	58	•
Kensington	80	b c d	c b c d	•	45	40	35	1	6	0.0	At 12h. 85	60	•
Hampstead Observatory	450	o	o r	o r b c	42	37	32	-	5	0.1	•	67	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 23rd

	Max.	Time.	Min.	Time.
South Kensington.	0.3	19h. 22nd	0.3	5-7h. 23rd
Kew Observatory.	0.2	8h. 22nd	0.1	0-6h. 23rd

FOREIGN OBSERVATIONS.

18h. G.M.T. 22nd February

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.
Paris	1000.1	SSE	3	bc	39
Brussels	1000.8	S	4	c	39
Berlin	1012.4	ESE	3	bc	34
Zurich	1009.8	E	2	z.	34
Rome	1010.0	WNW	5	bc	52

7h. G.M.T. 23rd February

Stations.	Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Paris	993.3	SSW	4	z.	45	41	34	Tr	2
Brussels	991.4	S'W	5	c/r	41	45	36	-	3
Berlin	1007.5	SSE	4	c	30	39	25	Tr	-
Zurich	1005.5	NW	2	z.	30	41	30	-	-
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 3, 22 — Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 24th February, 1939.

No. 28218

OBSERVATIONS at 13h. G.M.T. 23rd February

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	983.5	+20	SW	4	bc	47	45	8	1	–	4	2-3	4-6	2500
	Croydon	989.7	+10	SW	4	bc	49	55	8	1	–	2	2-3	4-6	2500
	S. Farnborough	989.8	+16	SW	5	c	47	55	9	1	–	6	4-6	7-8	4000
	Boscombe Down	989.9	+22	SW'W	4	c	44	55	8	2	2	1	4-6	7-8	2500
	Calshot (Sthmtn.)	991.1	+18	SW'S	4	bc	47	65	8	1	4	4	1	4-6	2500
	Lympne	992.4	+14	SW	5	bc/pr	46	75	8	2	8	3	2-3	4-6	2500
	Manston	991.3	+18	SW'S	5	bc/pr	45	75	7	3	6	3	2-3	2-3	1500
2	Shoeburyness	990.2	+14	SW	5	bc	50	45	8	1	4	4	1	4-6	4000
	Felixstowe	989.7	+18	SSW	6	b	48	65	8	1	4	4	Tr	1	4000
	Gorleston	986.3	+20	SW	6	bc	49	75	7	–	4	–	0	2-3	—
	Mildenhall	987.2	+30	SW'S	5	c	46	65	8	5	–	–	7-8	7-8	4000
	Cranwell	983.5	+34	SSW	6	c	42	75	8	5	–	–	9+	9+	800
3	Birmingham	985.9	+42	SW	5	c	42	75	8	5	–	–	7-8	7-8	1500
	Upper Heyford	988.0	+24	WSW	5	c	43	65	9	8	–	–	7-8	7-8	1500
4	Ross-on-Wye	987.7	+24	W'S	5	cq	45	65	8	8	4	8	4-6	7-8	2500
5	Hartland Point	989.9	+20	WNW	5	c/pbr	42	75	8	3	–	3	4-6	7-8	2500
	Bristol	988.9	+16	WSW	5	bc	44	75	8	8	3	–	4-6	4-6	1500
	Portland Bill	990.1	+20	WSW	5	c	45	85	8	2	4	–	4-6	7-8	2500
	Plymouth	991.5	+14	NW	3	c/pr	42	65	8	9	–	–	7-8	7-8	2500
	The Lizard	992.8	+16	W'N	4	bc	45	65	8	8	6	–	2-3	4-6	2500
	Scilly (St. Mary's)	992.7	+16	NW'W	4	bc/pr	47	75	8	3	6	3	2-3	4-6	1500
	Guernsey	991.9	+6	SW'S	1	c/pr	45	65	8	5	3	–	4-6	9	2500
6	Pembroke	988.5	+20	WNW	6	bcq	44	65	8	8	–	–	4-6	4-6	1500
7	Holyhead	982.6	+36	WNW	6	c/pr	43	75	7	9	1	–	9	10	1500
	Chester (Sealand)	982.7	+38	WSW	3	ir	41	85	6	6	2	–	9	10	800
8	Manchester	981.2	+38	SW	5	ir	39	92	6	6	2	–	7-8	10	450
10	Spurn Head	982.0	+36	SSW	6	cq	42	75	6	5	–	–	9+	9+	800
	Catterick	977.5	+34	SW	4	c	42	85	7	5	3	9	4-6	7-8	1500
	Tynemouth	975.3	0	S	4	c/r	40	85	6	9	–	–	9+	9+	1500
11	St. Abbs Head	976.7	0	ESE	3	ir	40	92	7	3	2	–	7-8	10	1500
	Leuchars	978.7	–6	NNE	3	ir₀	41	92	7	6	2	–	9	10	800
12	Renfrew (Abbots I.)	979.6	+2	N	3	c	40	85	7	8	6	2	7-8	9	2500
	Eskdalemuir	976.6	+6	N'W	3	c	39	85	8	5	–	–	9+	9+	800
	Point of Ayre	979.3	+14	NW'W	6	c	42	85	7	8	7	–	9+	10	1500
13A	Tiree	982.9	0	NNW	3	c	43	85	8	5	1	–	7-8	9+	1500
13B	Stornoway	986.8	+10	ENE	4	c/pr	41	75	7	5	1	–	7-8	10	2500
15	Dalwhinnie	982.2	–14	NE	3	is	34	97	5	8	1	–	4-6	10	800
	Aberdeen	981.4	–16	E	4	ir₀	42	85	6	6	2	–	9	9+	450
	Wick	985.8	–8	ESE	8	ir₀	40	85	6	9	2	–	7-8	10	800
16	Lerwick	992.8	–6	SE	7	c/r	36	85	7	8	2	–	4-6	9+	800
17	Blacksod Point	990.0	+12	NW	4	c	41	65	8	9	–	–	7-8	7-8	1500
18	Malin Head	983.4	+6	NW'N	4	cjp	41	85	7	9	–	–	9+	9+	1500
	Aldergrove	982.5	+18	NW	4	c/r	39	97	6	6	2	–	9	10	800
19	Birr Castle	983.9	+16	WNW	4	c	41	75	8	8	–	–	7-8	7-8	1500
20	Valentia Obsy. †	993.0	+14	NW'W	4	bc	44	65	9	3	–	–	4-6	4-6	2500
	Roches Point	991.6	+18	WNW	4	bc	43	75	9	3	–	3	2-3	4-6	1500

OBSERVATIONS at 18h. G.M.T. 23rd February

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Dir. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	993.3	+28	SW'S	2	z₀	43	65	6	8	–	1	1	2-3	2500	1	*
Croydon	993.3	+22	SSW	3	z₀	43	65	6	4	4	1	1	4-6	4000	1	*
S. Farnborough	999.3	+24	SW'W	2	bc	40	75	8	4	–	8	2-3	4-6	4000	1	*
Boscombe Down	993.6	+26	W'S	3	bc	39	85	8	5	3	1	2-3	4-6	2500	1	*
Calshot (Sthmtn.)	993.8	+18	SW	3	bc	43	75	8	5	3	3	1	4-6	4000	1	2
Lympne	994.7	+16	SSW	2	c	40	85	8	5	3	6	Tr	7-8	2500	1	§2
Manston	994.1	+22	SW'S	3	c	42	75	8	–	3	6	0	9	—	1	*
Shoeburyness	993.6	+24	SSW	3	c	43	65	8	4	4	6	Tr	9	4000	1	*
Felixstowe	993.1	+24	SW	3	bc	44	75	7	–	–	6	0	4-6	—	0	4
Gorleston	992.8	+24	SW'S	4	bc	43	75	7	–	7	–	0	4-6	–	1	3
Mildenhall	991.8	+30	S'W	3	bc	43	65	8	5	–	6	2-3	4-6	4000	1	*
Cranwell	990.0	+42	SSW	5	c	41	75	7	5	–	–	7-8	7-8	1500	1	*
Birmingham	991.1	+32	SW	3	c	39	75	8	5	7	–	4-6	7-8	1500	1	*
Upper Heyford	992.4	+32	SW'W	3	bc	39	85	8	1	6	1	Tr	2-3	2500	1	*
Ross-on-Wye	992.1	+24	SW'W	3	bc	41	75	8	8	–	1	2-3	2-3	2500	1	*
Hartland Point	993.1	+22	WNW	4	bc	42	65	9	3	–	–	4-6	4-6	2500	1	3
Bristol	993.4	+30	W'S	3	bc	40	75	8	8	3	–	1	2-3	2500	1	*
Portland Bill	993.5	+20	WNW	3	c	44	85	8	5	4	–	4-6	7-8	2500	1	3
Plymouth	994.4	+24	W	4	bc	43	69	7	3	–	–	2-3	2-3	1500	1	2
The Lizard	995.0	+16	W'N	3	bc	43	65	8	6	–	–	2-3	2-3	2500	1	1
Scilly (St. Mary's)	995.0	+20	NW'W	4	bc	43	85	8	3	6	3	2-3	2-3	1500	1	3
Guernsey	993.9	+20	NW	2	bc	43	75	7	2	3	–	2-3	4-6	2500	1	3
Pembroke	992.1	+14	NW	4	bcq	44	75	7	9	–	–	4-6	4-6	800	1	2
Holyhead	987.5	+30	NW'W	6	pr	43	75	8	9	2	–	7-8	10	1500	1	4
Chester (Sealand)	988.4	+38	WSW	3	c	41	75	7	5	–	–	9	9	2500	1	*
Manchester	987.5	+30	SW'W	4	pr	39	92	6	9	–	–	7-8	7-8	800	1	*
Spurn Head	987.0	+36	SW'S	5	cq	42	85	7	5	–	–	9+	9+	1500	0	4
Catterick	983.9	+38	SSW	3	c	41	85	7	5	–	–	9	9	1500	1	*
Tynemouth	980.9	+32	SW	3	bc	40	85	5	8	–	–	4-6	4-6	1500	1	3
St. Abbs Head	978.0	+6	WNW	3	c	39	92	7	3	2	–	4-6	10	1500	1	3
Leuchars	980.1	+16	N	1	c	40	92	7	6	7	–	9+	10	800	1	*
Renfrew (Abbots I.)	982.4	+24	NNW	3	r₀r₀	40	92	6	5	2	–	9	10	1500	1	*
Eskdalemuir	981.3	+32	W	2	ir₀	36	85	6	6	2	–	4-6	10	800	1	*
Point of Ayre	984.9	+26	NW'W	5	rs	39	97	7	8	–	–	10	10	1500	1	4
Tiree	984.6	+16	NNW	4	c	43	75	8	8	1	1	4-6	9+	1500	0	3
Stornoway	987.5	+10	NE	4	c/pr	40	85	7	5	2	–	7-8	10	2500	1	3
Dalwhinnie	953.3	+14	NE	2	ir	35	97	6	5	–	–	10	10	1500	1	*
Aberdeen	981.6	+8	E'N	3	c	42	92	6	6	2	–	9	10	450	1	4
Wick	985.0	–6	E	7	c/r	43	85	7	5	2	–	7-8	10	800	1	4
Lerwick	992.4	+2	SSE	7	rr	38	92	7	6	2	–	4-6	10	800	1	*
Blacksod Point	992.2	+20	NW	4	bc	41	65	9	3	–	–	4-6	4-6	4000	1	3
Malin Head	986.4	+30	NNW	5	c	43	85	7	9	6	–	4-6	7-8	1500	1	4
Aldergrove	986.4	+26	NW'W	5	ir₀	39	85	8	5	2	–	9+	10	1500	1	*
Birr Castle	991.3	+18	WNW	2	bc	40	75	8	–	4	–	0	2-3	—	1	*
Valentia Obsy. †	995.0	+18	NW'N	4	cjp	43	65	8	9	–	–	7-8	7-8	2500	1	4
Roches Point	994.5	+14	NW'W	4	bc	39	85	9	3	–	3	2-3	4-6	1500	1	3

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 23rd (37)	13h.—18h. 23rd (38)	18h 23rd to 1h. 24th (39)	1h.—7h. 24th (40)
London (Kew)	bcbbcy	bcybcz	bcbm	bcm
Croydon	bbcvy	bcyvcm₀	bm₀w	bwx
S. Farnborough	bbcy	cbccybc	bcbbx	bxbcx
Boscombe Down	bbcy	bcyprbc	bcb	bbcx
Calshot (Sthmtn.)	bbcy	bccbc	bbx	bxbxm₀
Lympne	cprqbc	cjpbc	bcc	cbcz₀cm₀
Manston	bccprq	c	cbccm₀	cbccm₀
Shoeburyness	bcbbcy	bcyc	cbcb	bbcc
Felixstowe	bcvbv	bvbc	bcb	b,cm₀
Gorleston	bcq	bcq	bcbz₀bc	bccz₀
Mildenhall	bcc	cbc	bcb	bcm₀bm₀bc
Cranwell	cir₀c	c.	bcb	bx
Birmingham	r₀c	c	cb	bx.
Upper Heyford	cq	cbcb	b	bbx
Ross-on-Wye	cq	cbc	bcbb	bbx
Hartland Point	cprh₀	cph₀bcv	bcv	bcv
Bristol	cphrr₀c	bcb	bxm₀	bxm₀
Portland Bill	c	c	b	bbc
Plymouth	bccpr₀	cpr₀bcjp	bcbm₀	bm₀bm₀x
The Lizard	bc	bc	bc	bcx
Scilly (St. Mary's)	bccp₀	cp₀bc	bccp₀	cbcb
Guernsey	cPHR	cbc	bc	bc
Pembroke	cir₀qbc	bcq	bcq	bbc
Holyhead	r₀rr₀c	cpr₀c	cprb	b [symbol]
Chester (Sealand)	cr₀dr₀m₀	cr₀m₀	cr₀m₀bc	c,bcx
Manchester	cm₀r₀rm	crrprrq	prm₀r₀r₀pr₀	ccm₀
Spurn Head	ir₀qc	cq	cbw	bbcw
Catterick	rrr₀bc	bcc	pr₀bcb	bbc
Tynemouth	cpoit	coirc	bcc	bcc
St. Abbs Head	cir	rrc	ir₀bc	bcc
Leuchars	rrr₀cir₀	prirr₀r₀c	cir₀c	cbcc
Renfrew (Abbots I.)	cm₀rrid	cr₀r₀	cm₀r₀r₀	cbcm₀
Eskdalemuir	rsrrr₀c	c	cir₀	bcco
Point of Ayre	c	crsrs	risrc	c
Tiree	cidc	c	cdr	cbc
Stornoway	cpr₀	cpr₀	cbcpr₀	bcc
Dalwhinnie	cissoso	cisir	*	cir
Aberdeen	pr₀r₀c	cz₀ir₀c	circiR	cr₀cm₀
Wick	ir₀ [symbol]	cir₀ [symbol]	PRpr	pr₀c
Lerwick	cirsir	cirsir	crr [symbol]	crrir [symbol]
Blacksod Point	prh₀	phr₀	bc	pr₀
Malin Head	cprc	cpr₀c	cprcprc	cpr₀bc
Aldergrove	cr₀r₀mc	r₀r₀rsrs	cir₀c	c
Birr Castle	bcc	cphbc	bcb	bx
Valentia Obsy. †	bcvypr₀bc	phr₀bcyc	cpr₀bc	bcxc
Roches Point	prsbcv	prs₀bcv	bcvbx	bxb

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.

Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.

An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.

"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

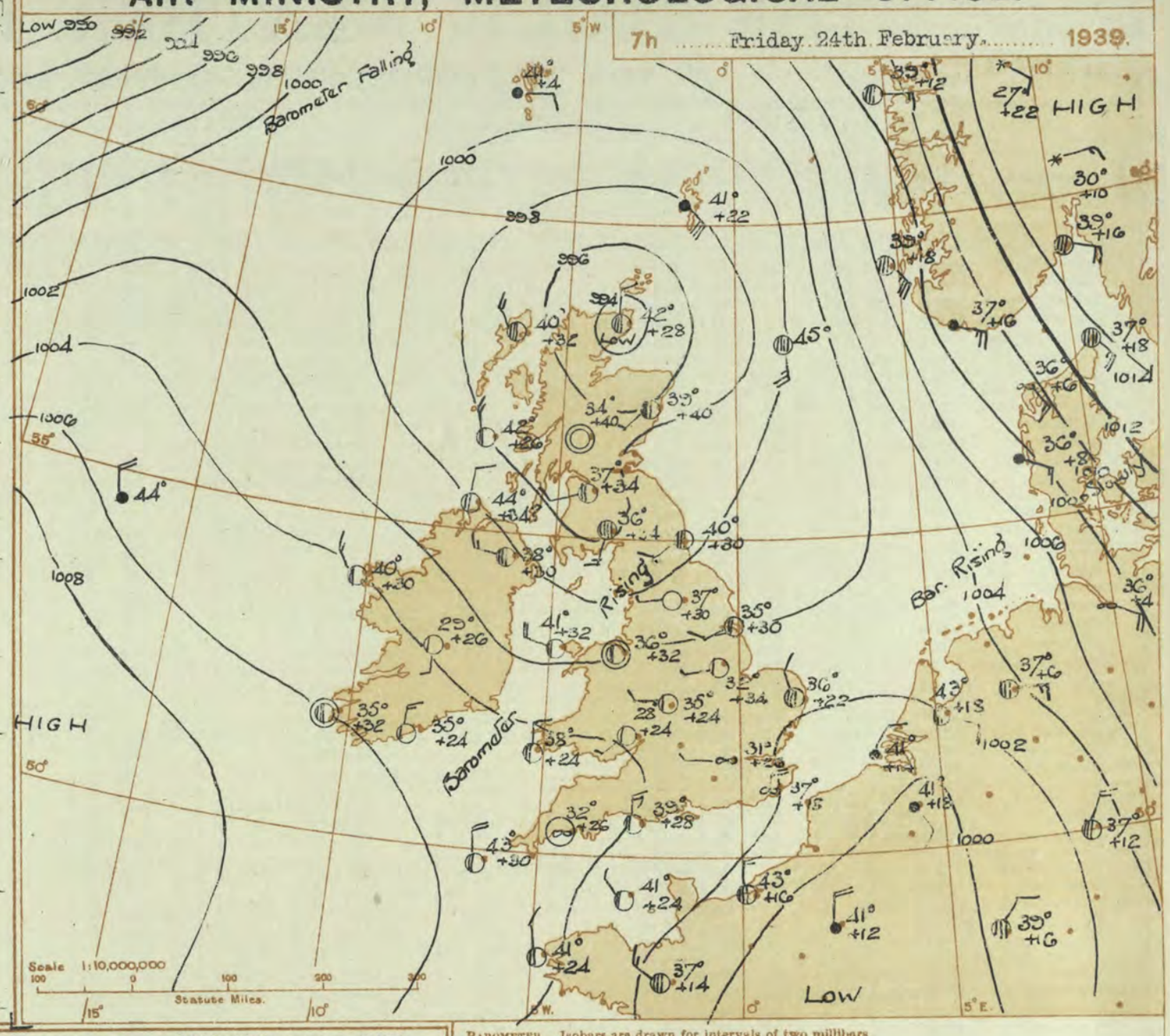
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 23rd February 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature (°F.) Min. 9h. 22nd to 9h. 23rd	Temperature (°F.) Max. 9h.—17h. 23rd	Rainfall (mm.) Night. 17h. 22nd to 9h. 23rd	Rainfall (mm.) Day. 9h.—17h. 23rd	Sunshine (Hrs.) Sunrise to 17h. 23rd	Sunshine (Hrs.) Sunrise to Sunset. 22nd
1	Tunbridge W.	b	bbcb	37	49	4	–	8.4	0.0
	Bournemouth	b	b	40	49	4	–	8.6	4.8
	Ventnor ...	rbcb	bbc	41	47	3	–	6.0	4.4
	Southsea ...	b	b	41	49	7	–	7.9	2.3
	Bognor Regis	bc	bc	41	47	3	–	6.8	0.5
	Littlehampton	bc	bc	41	48	2	–	7.1	0.4
	Worthing ...	bcsb	b	40	49	2	0.3	6.4	0.6
	Brighton ...	b	bbc	40	47	1	–	6.1	0.0
	Eastbourne† ...	bchpbc	bcc	41	48	4	0.1	3.8	0.0
	Hastings† ...	cppbc	bcc	40	47	3	0.5	2.6	0.0
	Folkestone ...	orcbc	bcc	38	48	2	2	3.0	0.0
	Dover ...	bcrbc	bc	39	48	4	0.5	3.0	0.0
	Deal	bcpb	bo	39	48	3	0.3	4.6	0.0
	Ramsgate ...	cpbc	bc	38	47	2	Trace	4.5	0.0
	Margate ...	bc	pbc	38	49	2	Trace	5.0	0.0
2	Southend ...	b	b	39	51	2	–	8.8	0.0
	Clacton-on-Sea	bcb	bbcv	39	48	1	–	8.4	0.0
	Dovercourt ...	rocbc	b	39	49	Trace	–	8.4	0.0
	Lowestoft ...	b	b	38	49	3	–	8.6	0.0
	Skegness ...	ocbco	oco	37	46	–	–	1.4	0.0
	Mablethorpe...	o	cbcc	37	45	3	–	0.5	0.0
	Cleethorpes ...	circ	cbc	37	44	3	Trace	1.2	0.0
3	Leamington S.	oc	cbc	39	46	4	–	2.0	0.8
4	Cheltenham†	c	cbc	38	47	9	–	3.1	2.4
5	Bath	pcbc	bcb	38	46	12	1	5.9	2.3
	Weymouth ...	b	b	42	50	5	–	9.4	5.6
	Jersey ...	pqcbc	c	42	46	2	Trace	2.1	5.8
	Torquay ...	b	bchpby	39	47	4	0.2	9.2	3.5
	Falmouth	bcvbc	b	38	48	3	Trace	6.5	3.1
	Penzance ...	bbchp	b	39	48	2	0.3	7.8	2.0
	St. Ives ...								
	Bude... ...	bcpbc	bc	39	45	3	0.2	8.0	2.8
	Ilfracombe ...	rrbc	pcbc	39	46	16	0.2	7.8	0.0
6	Aberystwyth	rrpr	prbc	39	44	9	4	0.0	2.5
7	Llandudno ...	cr	irc	39	42	4	3	0.0	1.5
	Colwyn Bay...	cpopp	rcpbc	39	42	5	5	0.0	2.1
	Rhyl	cprr	cpr	39	43	5	4	0.0	3.1
8	Wallasey ...	rcoir	iR	38	42	12	4	0.1	1.5
	Southport ...	oir	cir	38	42	10	3	0.0	3.5
	Blackpool ...	cor	cporr	37	42	5	4	0.0	2.5
	Morecambe ...	c	cdr	36	47	3	0.3	0.2	2.8
9	Ilkley... ...	oc	rsc	33	40	11	2	0.6	0.0
	Harrogate ...	orrir	ocisr	32	39	10	3	0.0	0.0
10	Berwick-on-T.	bmdr	irmoo	37	42	4	2	0.0	0.0
11	Dunbar ...	cmopr	cmopr	38	42	5	5	0.1	1.5
12	Troon... ...	roc	opoc	35	41	4	Trace	0.3	2.6
	Douglas ...	crrs	cPR	36	41	11	5	0.1	3.3

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



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

Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 24th February, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light north to northwest wind, backing southwest, freshening tomorrow; fine today; cloud increasing; rain commencing late in the period; average temperature; frost at night.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Wind northwest, light to moderate, backing southwest; freshening; fine today; dull, rain tomorrow; average temperature; then milder.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Wind west to northwest, moderate, backing south and freshening tomorrow; fair apart from scattered showers today; dull, rain tomorrow; average temperature then milder.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland.	Wind northwest moderate, backing south increasing to strong on coast; mainly cloudy, local showers at first; then a period of rain; becoming milder.
14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind west, moderate, backing and increasing tomorrow; cloudy; some wintry showers; rain tomorrow; rather cold to average temperature
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind west, light to moderate, backing south becoming strong on coast; fair early; cloud increasing; a period of rain followed by bright periods and showers; becoming milder.

GENERAL INFERENCE.

A depression over Northeast Scotland will fill up and a feeble ridge of relatively high pressure will move east across the country. A new depression developing between Greenland and Iceland will move eastwards. Weather will be fine over most of England today but there will be some wintry showers in the North. Subsequently a belt of rain will move east across the country, reaching west Ireland this evening and eastern England towards midday tomorrow. Conditions will become milder tomorrow.

FURTHER OUTLOOK.

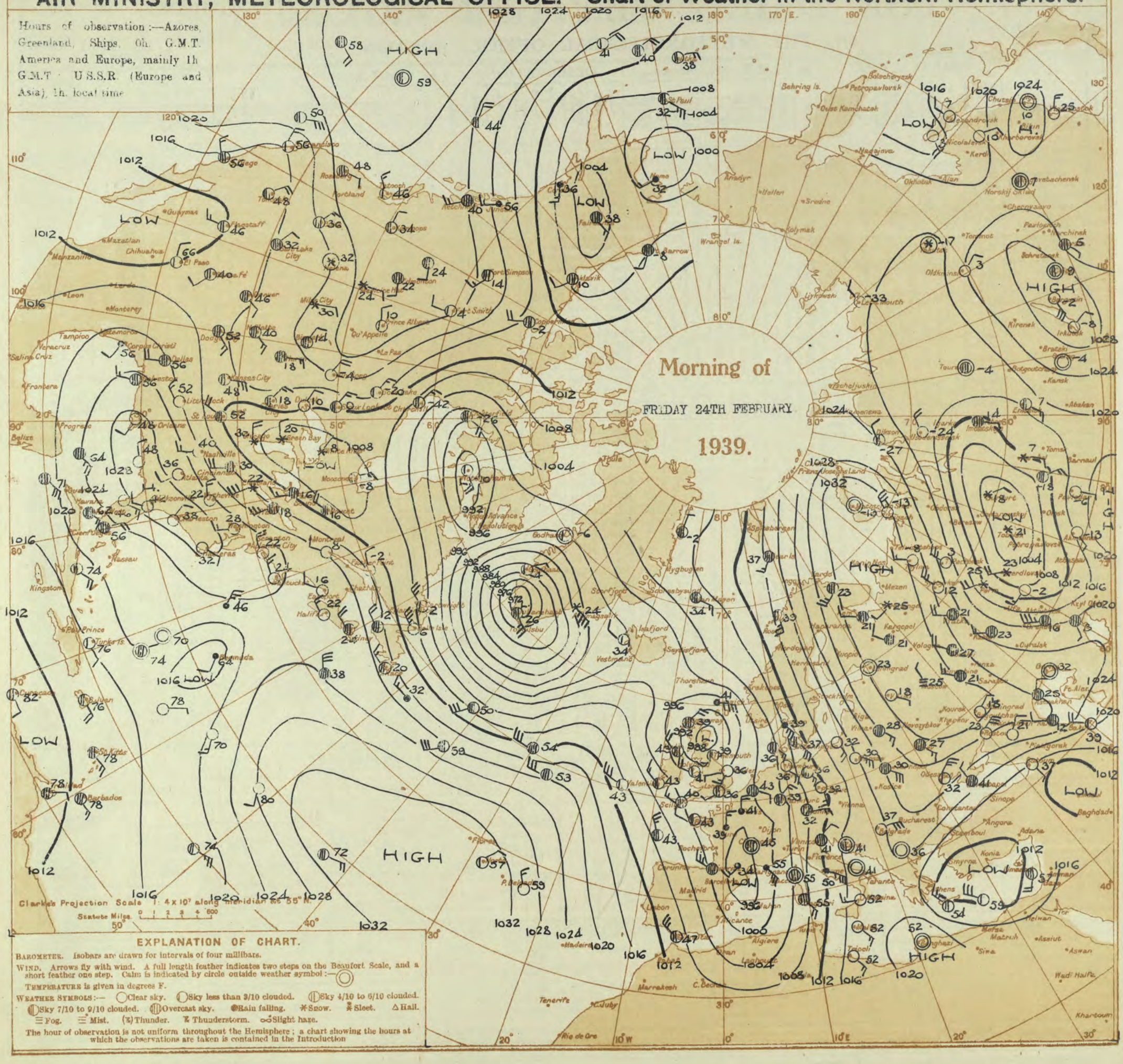
Continuing unsettled.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

H.M. Stationery Office Press, Kingsway, W.C.2. c.137/640. m.8086. D.3768. Gp.348. 32200. 2/39

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 24th February, 1939.
No. 28218

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Hum. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	998·9	+14	WSW	1	bc	36	85	7	-	-	2	0	2-3	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	999·6	+18	N	2	c	39	85	7	-	2	-	0	9	-
	Manston ...	154	998·8	+14	NW	2	c	38	85	6	-	3	-	0	10	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	998·9	+22	W'S	1	bc	36	85	6	-	4	-	0	2-3	-
	Mildenhall ...	19	998·3	+26	SSW	2	z_0	36	85	6	-	-	4	0	4-6	-
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	998·5	+18	NW	3	bc	42	65	9	3	-	-	2-3	2-3	2500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	999·3	+18	NW	3	b	42	85	8	-	-	-	0	0	-
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	999·7	+10	WNW	3	bc	37	85	8	8	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	1000·1	+18	NW'W	3	c/pr	40	92	8	5	-	-	7-8	7-8	2500
	Guernsey ..	175	998·6	+18	NW	1	bc	40	85	9	1	-	-	2-3	2-3	2500
6	Pembroke ...	142	999·0	+20	NNW	3	bc	42	65	8	1	-	-	2-3	2-3	2500
7	Holyhead ...	26	996·1	+34	WNW	4	b	41	75	8	-	4	-	0	Tr	-
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	996·4	+32	SSW	3	b	36	92	6	-	-	-	0	0	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	991·7	+40	SW	2	bc	39	85	7	2	-	-	2-3	2-3	1500
11	St Abbs Head ..	280	989·1	+40	SW	4	bc/pr	38	85	7	8	6	-	2-3	4-6	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	992·8	+48	NW	5	c	41	92	8	8	2	-	4-6	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	992·1	+24	NE	4	c	39	92	7	5	-	-	4-6	10	2500
15	Dalwhinnie ...	1178	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	988·2	+18	E	3	pr	41	85	7	5	1	-	7-8	9+	800
16	Lerwick ...	156	994·8	+8	E	8	rr	41	92	7	6	2	-	10	10	800
17	Blacksod Point	18	999·5	+32	W	3	bc	40	65	8	4	-	-	4-6	4-6	1500
18	Malin Head ...	84	993·2	+32	NW	4	c/p	43	85	6	9	-	-	7-8	7-8	2500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1000·4	+19	NW	3	bc	43	97	8	8	-	-	2-3	2-3	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1002·9	+24	-	0	m	31	55	4	-	-	1	0	2-3	-	3	*
Croydon ...	1003·0	+26	W	1	z_0	31	85	6	-	7	-	0	2-3	-	3	*
S. Farnborough	1003·3	+24	W'N	1	z_0	24	97	6	5	-	4	2-3	4-6	2500	3	*
Boscombe Down	1004·1	+20	N'W	1	bc	29	97	7	5	4	-	2-3	4-6	2500	3	*
Calshot (Sthmtn.)	1003·3	+20	NW	3	z_0	32	97	6	-	7	3	0	4-6	-	1	2
Lympne ...	1002·5	+18	N	4	z_0	37	85	5	5	-	-	9+	9+	7200	1	§1
Manston ...	1001·8	+20	N'W	3	z_0	39	85	6	5	-	-	10	10	5700	1	*
Shoeburyness ...	1002·2	+18	WNW	2	c	36	85	7	5	-	-	10	10	4000	1	*
Felixstowe ...	1001·9	+20	WNW	3	z_0	36	85	6	5	1	-	9+	10	5700	0	3
Gorleston ...	1002·4	+22	NNW	2	c	36	85	6	5	-	-	9+	9+	2500	1	2
Mildenhall ...	1002·7	+30	W	1	z_0	29	97	5	-	3	-	0	2-3	-	1	*
Cranwell ...	1002·6	+34	WSW	1	b	32	97	6	-	4	1	0	1	-	1	*
Birmingham ...	1003·2	+24	W	2	b	35	85	6	-	7	5	0	Tr	-	1	*
Upper Heyford	1003·7	+28	NW	1	b	31	92	7	-	-	1	0	1	-	3	*
Ross-on-Wye	1004·1	+24	SW	1	b	28	92	8	5	-	1	Tr	Tr	2500	3	*
Hartland Point	1004·0	+32	NW	3	bc	40	75	9	3	-	-	4-6	4-6	1500	1	3
Bristol ...	1004·3	+32	NNW	1	z_0	31	97	6	5	-	-	2-3	2-3	2500	3	*
Portland Bill ...	1003·5	+28	N	3	bc	39	92	8	5	-	-	4-6	4-6	2500	1	3
Plymouth ...	1004·6	+26	-	0	z_0	32	92	6	5	-	-	Tr	Tr	1500	1	7
The Lizard ...	1004·3	+28	NW	2	bc	37	85	8	8	6	-	4-6	4-6	2500	3	1
Scilly (St. Mary's)	1005·1	+30	N'W	4	bc	43	85	9	2	6	-	2-3	4-6	2500	1	2
Guernsey ..	1002·4	+24	NW	1	bc	41	75	8	1	3	5	2-3	4-6	2500	1	2
Pembroke ...	1003·6	+24	N	2	bc	38	75	8	7	-	-	2-3	2-3	2500	1	2
Holyhead ...	1001·7	+32	WNW	4	bc	41	75	9	-	4	-	0	2-3	-	1	3
Chester (Sealand)	1002·5	+32	-	0	bc	36	85	7	5	-	-	4-6	4-6	4000	3	*
Manchester ...	1002·1	+34	SW	2	z_0	36	85	6	5	3	-	4-6	7-8	2500	1	*
Spurn Head ...	1001·7	+30	SW'W	2	bc	35	92	6	-	4	-	0	2-3	-	5	1
Catterick ...	1000·3	+30	W'S	1	bc	37	92	8	4	4	-	2-3	2-3	1500	1	*
Tynemouth ...	999·1	+30	SW	2	c	40	85	6	8	-	-	7-8	7-8	1500	1	2
St Abbs Head ..	996·6	+36	SW	4	c	37	85	8	8	6	9	4-6	7-8	1500	0	3
Leuchars ...	996·1	+34	WSW	2	c	38	92	7	8	3	-	7-8	7-8	4000	1	*
Renfrew (Abbots I.)	997·8	+34	WSW	2	bc	37	92	6	5	-	-	2-3	2-3	2500	1	*
Eskdalemuir ...	997·8	+34	SSW	3	o	36	97	6	5	-	-	10	10	220	1	*
Point of Ayre...	999·6	+32	NW'W	5	c	42	85	8	5	-	-	9+	9+	2500	1	3
Tiree	998·1	+26	NW'N	3	bc	42	85	8	5	4	-	2-3	4-6	2500	0	3
Stornoway ...	997·1	+22	NW	3	c	40	85	7	5	7	-	7-8	7-8	2500	1	2
Dalwhinnie ...	997·4	+40	-	0	c	34	97	7	5	1	-	7-8	10	2500	1	*
Aberdeen ...	996·3	+40	SW	1	c	39	92	6	5	-	-	9+	9+	2500	1	3
Wick ...	993·6	+28	N	2	c	42	85	7	5	7	-	4-6	7-8	800	1	2
Lerwick ...	997·8	+22	SE	6	ir	41	92	7	8	2	-	7-8	10	800	1	*
Blacksod Point	1004·2	+30	NW	3	bc	40	65	8	4	-	-	2-3	2-3	4000	1	3
Malin Head ...	1000·3	(+39)	N	2	bc	44	85	8	8	4	-	2-3	4-6	4000	1	3
Aldergrove ...	1000·2	+30	W'N	3	c	38	85	8	8	-	-	7-8	7-8	2500	1	*
Birr Castle ...	1003·9	+26	S	1	b	29	97	8	-	-	-	0	0	-	3	*
Valentia Obsy. †	1006·4	+32	-	0	c	35	92	8	8	-	-	7-8	7-8	2500	1	3
Roches Point	1005·5	+24	N	3	b	35	92	8	-	-	-	0	0	-	1	3

PAST 24 HOURS.

Stations	Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 23rd Hrs. (36)
London (Kew)	48	30	16	—	Tr	7·5
Croydon ...	50	31	24	-	-	7·2
S. Farnborough	49	23	20	-	-	8·3
Boscombe Down	47	27	21	Tr	-	8·5
Calshot (Sthmtn.)	48	31	28	—	-	8·2
Lympne ...	46	36	31	Tr	-	4·3
Manston ...	49	36	32	0.3	-	5·3
Shoeburyness ...	51	33	26	—	-	9·1
Felixstowe ...	48	33	28	—	-	*
Gorleston ...	50	35	34	—	-	8·3
Mildenhall ...	49	29	22	—	-	7·1
Cranwell ...	44	30	23	Tr	-	0·5
Birmingham ...	42	32	27	0.4	-	1·8
Upper Heyford	47	28	16	—	-	*
Ross-on-Wye	45	28	21	—	-	1·5
Hartland Point	44	39	37	0.1	-	6·8
Bristol ...	44	30	20	3	-	6·1
Portland Bill ...	46	38	*	—	-	*
Plymouth ...	46	31	26	Tr	-	7·0
The Lizard ...	45	35	*	0.5	-	8·6
Scilly (St. Mary's)	47	38	*	0.1	0·2	8·0
Guernsey ..	48	40	32	3	-	2·6
Pembroke ...	45	37	*	Tr	-	5·7
Holyhead ...	43	40	37	4	0·6	0·0
Chester (Sealand)	44	32	22	1	Tr	0·9
Manchester ...	41	34	29	9	4	0·0
Spurn Head ...	44	34	*	Tr	Tr	0·2
Catterick ...	44	36	30	3	Tr	1·5
Tynemouth ...	43	38	34	3	-	0·0
St Abbs Head ..	42	35	*	3	1	*
Leuchars ...	42	37	33	7	0·6	0·0
Renfrew (Abbots I.)	42	36	31	2	1	0·0
Eskdalemuir ...	41	33	32	3	1	0·0
Point of Ayre...	42	38	*	3	1	0·1
Tiree	43	39	37	0.2	1	0·0
Stornoway ...	42	37	*	0.2	Tr	0·0
Dalwhinnie ...	36	32	30	1	1	0·3
Aberdeen ...	42	38	35	6	7	0·0
Wick ...	43	40	*	1	1	*
Lerwick ...	41	36	*	3	2	0·2
Blacksod Point	45	37	*	0.4	Tr	*
Malin Head ...	43	39	*	2	1	0·1
Aldergrove ...	40	37	33	3	0·4	0·0
Birr Castle ...	45	29	17	Tr	-	5·9
Valentia Obsy. †	46	35	29	Tr	0·3	6·3
Roches Point	45	33	*	0.5	-	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew...	18	bcbbcy	bcybcz₀	bcbm	48	30	16	-	Tr	7·5	•	•	3
Croydon	217	bbcvy	bcyvcm₀	bm₀wx	50	31	24	-	-	7·2	•	•	3
Greenwich (Royal Observatory)...	149	bcy	bdcy	cbcbcxm	50	29	22	-	Tr	8·6	43	74	4
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	7·4	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	50	31	23	Tr		8·1	57	77	•
Regents Pk. (Botanic Gardens)‡...	168	•	•	•	50	31	21	—	-	7·7	51	73	•
Camden Square	110	b	bc	•	50	32	23	-	-	•	•	71	•
Kensington	80	bcm	bc	•	50	30	21	-	-	7·7	At 18h. 61	87	•
Hampstead Observatory	450	bc	bc	bc	48	31	22	—	-	8·4	•	87	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.	Kew Observatory. Max.	Time.	Min.	Time.
0·6	20h. 23rd	<0·3	12-13h. 23rd.	0·6	20hr 24th	<0·1	10h 23rd

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 23rd February: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 24th February: 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	995·1	-	0	ir₀	43	997·5	N	4	r₀r₀	41	50	41	5	5
Brussels	996·2	SSE	2	o	46	1000·2	SE	2	r₀r₀	41	52	*	-	*
Berlin	1007·7	ESE	4	bc	39	1010·8	E	3	c	36	*	34	*	-
Zurich	1002·7	NE	1	c	45	1002·3	NW	2	c	41	54	39	-	-
Rome	1012·7	SE	4	o	55	1013·4	ESE	7	o	52	*	*	-	5

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 25th February, 1939
No. 28219

OBSERVATIONS at 13h. G.M.T. 24th February

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1006.3	+6	N'E	3	zo	46	55	6	–	–	6	0	9	–
	Croydon	1006.2	+10	N'E	3	zo	45	65	5	–	–	7	0	10	–
	S. Farnborough	1006.4	+6	N'W	2	c	48	55	7	1	–	6	Tr	7-8	4000
	Boscombe Down	1007.1	+10	N	3	zo	45	65	7	1	–	8	1	2-3	2500
	Calshot (Sthmtn.)	1006.3	+6	N	4	bc	46	55	8	–	–	6	0	4-6	–
	Lympne	1005.6	+10	N'E	5	c	41	75	7	–	7	–	0	10	–
	Manston	1005.2	+10	N'E	4	c	42	85	6	5	7	–	4-6	9+	5700
2	Shoeburyness	1005.6	+8	N	3	c	45	65	8	–	7	–	0	9	–
	Felixstowe	1005.9	+10	N	3	c	45	75	7	5	7	–	2-3	9+	5700
	Gorleston	1006.1	+14	NNE	3	c	43	75	6	5	3	–	4-6	9+	2500
	Mildenhall	1006.3	+8	N'W	1	c	46	65	7	–	7	6	0	7-8	–
	Cranwell	1006.5	+10	WNW	1	zo	48	65	6	1	–	1	1	2-3	2500
3	Birmingham	1007.3	+14	NNW	3	b	44	65	6	1	–	–	1	1	2500
	Upper Heyford	1007.1	+8	NW	2	bc	45	65	6	–	–	6	0	4-6	–
4	Ross-on-Wye	1007.4	+10	N'W	2	b	46	65	9	1	–	–	1	1	4000
5	Hartland Point	1008.5	+20	NNW	3	bc	42	75	9	1	–	–	4-6	4-6	1500
	Bristol	1007.5	+10	NNW	3	zo	45	65	7	1	–	–	1	1	2500
	Portland Bill	1006.5	+6	ENE	5	bc	46	92	8	5	–	–	4-6	4-6	2500
	Plymouth	1007.9	+6	NNE	2	bc	45	55	8	7	–	–	4-6	4-6	2500
	The Lizard	1008.8	+12	NW	4	bc	47	55	8	8	–	–	2-3	2-3	2500
	Scilly (St. Mary's)	1009.5	+18	N'W	4	bc	49	75	8	2	–	5	2-3	2-3	2500
	Guernsey	1005.8	+22	N'W	4	bcjp	46	65	8	–	3	–	0	4-6	–
6	Pembroke	1009.2	+10	NNW	2	bc	45	65	8	1	3	–	2-3	2-3	4000
7	Holyhead	1006.9	+18	NW'W	4	b	47	65	8	2	–	5	Tr	Tr	4000
	Chester (Sealand)	1007.0	+16	WNW	4	bc	47	65	8	1	–	–	2-3	2-3	2500
8	Manchester	1006.6	+14	W'N	4	bc	46	75	7	2	–	–	4-6	4-6	4000
10	Spurn Head	1006.1	+20	WNW	2	bc	49	75	6	–	–	8	0	2-3	–
	Catterick	1005.0	+16	W'N	3	bc	47	75	8	5	–	–	4-6	4-6	2500
	Tynemouth	1004.4	+18	SW	2	c	46	65	6	8	–	–	7-8	7-8	1500
11	St. Abbs Head	1002.9	+24	W	3	bc	45	65	8	8	4	–	4-6	4-6	2500
	Leuchars	1001.8	+18	W	3	c	48	75	8	3	3	–	2-3	7-8	4000
12	Renfrew (Abbots I.)	1003.6	+26	W'N	2	c	47	75	8	2	6	–	4-6	7-8	2500
	Eskdalemuir	1003.8	+14	SW	3	c	44	75	8	5	–	–	9	9	1500
	Point of Ayre	1005.3	+24	WNW	4	bc	48	65	8	2	–	–	2-3	2-3	1500
13A	Tiree	1002.4	+6	WSW	3	bc	48	75	8	2	3	–	2-3	2-3	2500
13B	Stornoway	999.8	+8	W	3	c	47	75	8	5	7	–	4-6	7-8	2500
15	Dalwhinnie	1002.6	+20	SW	3	c	41	75	7	4	6	–	7-8	9+	2500
	Aberdeen	1001.3	+16	SW'S	2	bc	47	75	6	2	3	–	2-3	4-6	2500
	Wick	998.6	+20	SW	3	c	43	92	7	9	6	–	4-6	10	800
16	Lerwick	1000.0	+2	SSE	6	c	42	92	8	8	2	–	7-8	10	800
17	Blacksod Point	1007.2	+10	S'W	1	bc	48	55	8	–	–	9	0	4-6	–
18	Malin Head	1004.3	+12	WN	3	c	48	85	7	2	9	–	2-3	7-8	4000
	Aldergrove	1005.5	+18	W'S	3	c	46	75	8	2	–	–	9	9	2500
19	Birr Castle	1008.3	+16	SW	2	bc	46	92	7	1	–	8	1	4-6	2500
20	Valentia Obsy. †	1010.6	+14	W	4	pr	47	65	9	5	–	–	9	9	2500
	Roches Point	1010.1	+14	NW	3	bc	48	75	8	1	–	5	1	4-6	4000

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1008.5	+18	N'E	3	zo	46	65	6	–	7	–	0	9	–	1	*
	Croydon	1007.7	+14	N	3	m	45	65	4	–	7	–	0	10	–	1	*
	S. Farnborough	1008.2	+20	NNE	2	zo	45	65	5	–	2	–	0	10	–	1	*
	Boscombe Down	1009.2	+22	NNW	3	c	44	75	7	1	4	8	4-6	9	4000	1	*
	Calshot (Sthmtn.)	1008.5	+14	N'W	3	zo	45	75	8	–	7	6	0	7-8	–	1	1
	Lympne	1007.2	+6	N'E	5	zo	41	85	6	5	7	–	7-8	9+	4000	1	§ 3
	Manston	1006.4	+2	NE'E	5	c/r	42	92	6	5	2	–	7-8	10	2500	1	*
2	Shoeburyness	1008.0	+14	NE	2	c	43	85	6	5	7	–	4-6	10	5700	1	*
	Felixstowe	1008.7	+20	NE	3	iro	43	85	6	5	–	–	9+	9+	2500	1	2
	Gorleston	1008.8	+18	N	2	c	42	85	5	–	2	–	0	10	–	1	1
	Mildenhall	1008.9	+14	NE'E	2	c	43	75	7	5	7	8	4-6	9	4000	1	*
	Cranwell	1009.1	+22	–	0	zo	38	92	5	–	–	6	0	4-6	–	1	*
3	Birmingham	1009.9	+18	NNW	2	bf+	43	75	3	–	–	–	0	0	–	1	*
	Upper Heyford	1009.2	+14	N'W	2	zo	43	75	6	5	4	2	2-3	7-8	4000	1	*
4	Ross-on-Wye	1009.7	+16	WNW	2	b	43	75	9	4	–	1	Tr	Tr	4000	1	*
5	Hartland Point	1010.8	+20	NW	3	bc	43	65	9	1	4	–	Tr	2-3	1500	1	3
	Bristol	1010.2	+24	NNW	2	zo	39	75	6	4	4	8	Tr	2-3	4000	1	*
	Portland Bill	1008.7	+6	NNE	3	c	45	85	7	5	4	–	7-8	7-8	2500	1	3
	Plymouth	1010.9	+22	N'W	3	b	45	55	9	1	–	5	Tr	Tr	4000	1	1
	The Lizard	1012.2	+26	NW	2	bc	41	75	8	8	4	–	2-3	2-3	2500	1	2
	Scilly (St. Mary's)	1011.9	+18	NW'N	2	bc	45	85	8	1	6	3	2-3	4-6	2500	1	2
	Guernsey	1009.0	+20	N	3	c	45	65	7	–	3	–	0	7-8	–	1	3
6	Pembroke	1011.1	+12	NNW	1	bc	44	65	8	5	4	–	2-3	2-3	2500	1	1
7	Holyhead	1008.7	+12	W'S	3	b	44	75	8	1	–	5	Tr	1	4000	1	1
	Chester (Sealand)	1009.5	+18	NW'N	1	b	41	85	8	7	–	–	Tr	Tr	2500	1	*
8	Manchester	1009.2	+16	W'S	3	zo	41	85	6	2	–	–	1	1	2500	1	*
10	Spurn Head	1009.7	+16	W'S	2	c	43	85	6	–	2	8	0	7-8	–	0	1
	Catterick	1007.8	+18	WSW	2	b	40	85	8	5	–	–	Tr	Tr	2500	1	*
	Tynemouth	1005.8	+14	SW	2	m	45	65	4	5	–	–	2-3	2-3	1500	1	2
11	St. Abbs Head	1004.4	+8	WSW	3	bc	42	75	7	7	1	1	1	2-3	2500	0	2
	Leuchars	1003.6	+10	SSW	2	bc	41	85	8	2	4	–	1	2-3	4000	1	*
12	Renfrew (Abbots I.)	1004.9	+8	SW	2	bc	44	75	8	4	–	–	4-6	4-6	4000	1	*
	Eskdalemuir	1005.7	+10	SW'W	3	bc	40	85	8	7	–	–	2-3	2-3	4000	1	*
	Point of Ayre	1007.0	+10	WSW	3	bc	41	92	8	4	–	–	2-3	2-3	2500	1	1
13A	Tiree	1001.1	−4	SSW	3	c	44	85	7	5	7	–	4-6	7-8	2500	0	2
13B	Stornoway	999.2	−6	S	4	c	43	85	8	5	5	–	4-6	7-8	2500	1	2
15	Dalwhinnie	1003.0	+2	S	4	c	38	75	7	4	6	–	4-6	9	2500	0	*
	Aberdeen	1002.9	+8	SW'W	1	b	43	75	5	–	3	–	0	Tr	–	1	2
	Wick	1000.1	+4	SW	3	c	42	85	7	5	8	–	7-8	9+	1500	1	2
16	Lerwick	997.0	−14	SSE	6	c/pr	43	92	7	8	7	–	7-8	10	800	1	*
17	Blacksod Point	1003.9	−18	SW	5	c	41	85	8	5	–	–	10	10	800	0	4
18	Malin Head	1003.6	−4	SWW	3	c	43	75	8	4	–	–	7-8	7-8	5700	1	3
	Aldergrove	1006.1	+6	SW	2	c	43	75	9	5	7	–	7-8	9	2500	1	*
19	Birr Castle	1008.0	0	SW	2	c	44	85	8	5	7	–	4-6	9	1500	1	*
20	Valentia Obsy. †	1010.1	−6	SW'W	4	c	46	65	8	5	–	–	10	10	4000	1	4
	Roches Point	1011.0	+6	SW	3	c	45	85	8	5	7	5	2-3	7-8	2500	1	3

PAST 24 HOURS. Weather.

District	Stations	7h.—13h. 24th. (37)	13h.—18h. 24th. (38)	18h. 24th to 1h. 25th (39)	1h.—7h. 25th. (40)
1	London (Kew)	bcxfcmo	czoyczo	cpro bczo	bcczo
	Croydon	bcxfz⊕	czo	czoiroczo	crdrorror
	S. Farnborough	bcmobbcy	bcyczo	cproc	c
	Boscombe Down	bcxmobm	bmobcc	ccmocmo	bmobcc
	Calshot (Sthmtn.)	bccmobm	bcycmo	cmocirocmo	cmoc
	Lympne	cmo	ororqc	pdororomo	odoidomo
	Manston	cmo	crrmo	cidoomo	oidomo
2	Shoeburyness	cbcc	cmoc	cro	cmo
	Felixstowe	cmoc	coiromo	ciro oiro mo	oiroomo
	Gorleston	cmzozo	czo	zo	bcczo
	Mildenhall	bmobcmoc	cmoc	cmobbcmo	crrmocmo
	Cranwell	bbc	bczoczo	bcmoc	c
3	Birmingham	b	bbm	bf	fb,c
	Upper Heyford	bc	bcczo	bcmo	bcc
4	Ross-on-Wye	b	bvbcv	bbc	bcc
5	Hartland Point	bcphv	bcv	bccv	corr
	Bristol	bxmo	bcbmo	bmo	bxbcc
	Portland Bill	bcb	bcc	bbc	bcc
	Plymouth	bmobcy	bcybc	byzobc	bccroro
	The Lizard	bcy	bc	bc	bccpr
	Scilly (St. Mary's)	bc	bcpobc	bcc	cido
	Guernsey	bccbc	bcc	cbc	bc
6	Pembroke	bc	bbcv	bccq	crssrdd
7	Holyhead	b	b	b,	crrRc
	Chester (Sealand)	cbcbx	bcb	bmowx	bmoxc
8	Manchester	cmobzbc	bcbmo	bmom	bmcrr
10	Spurn Head	bbc	bcc	bczcm	cwmo
	Catterick	bcbbc	bcb	bbcc	ceiro
	Tynemouth	cbcmc	cbcm	bcm	bcpooc
11	St. Abbs Head	bc	bbc	bcc	rrqc
	Leuchars	c,mobc	bcbbc	bcc	cxcroroc
12	Renfrew (Abbots I.)	bcmoc	cbcpro	bcciro	RRbbc
	Eskdalemuir	bcproc	cbcb	bbcomo	cRRro
	Point of Ayre	cbc	cbbc	bcc	rrc
13A	Tiree	bc	bcc	ORtlc	cPHR
13B	Stornoway	cbcc	c	crr	crrPHR
15	Dalwhinnie	c	c	*	ciris
	Aberdeen	cmobczo	bczobzo	bzobc	bccroc
	Wick	c	cproc	c	crrc
16	Lerwick	irphirpr	rphrpr	cpr	crrmo
17	Blacksod Point	bc	iroq	prcq	procq
18	Malin Head	cbcc	cbcc	ccircRrc	crrphrc
	Aldergrove	cbbcc	cprobcc	cb,croromo	rorrproc
19	Birr Castle	bbc	bcc	cpr	cprc
20	Valentia Obsy. †	cbxbccpr	cproc	cdrororc	ciro
	Roches Point	bbc	bcc	c	circ

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail".
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. lunar halo. Aurora.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

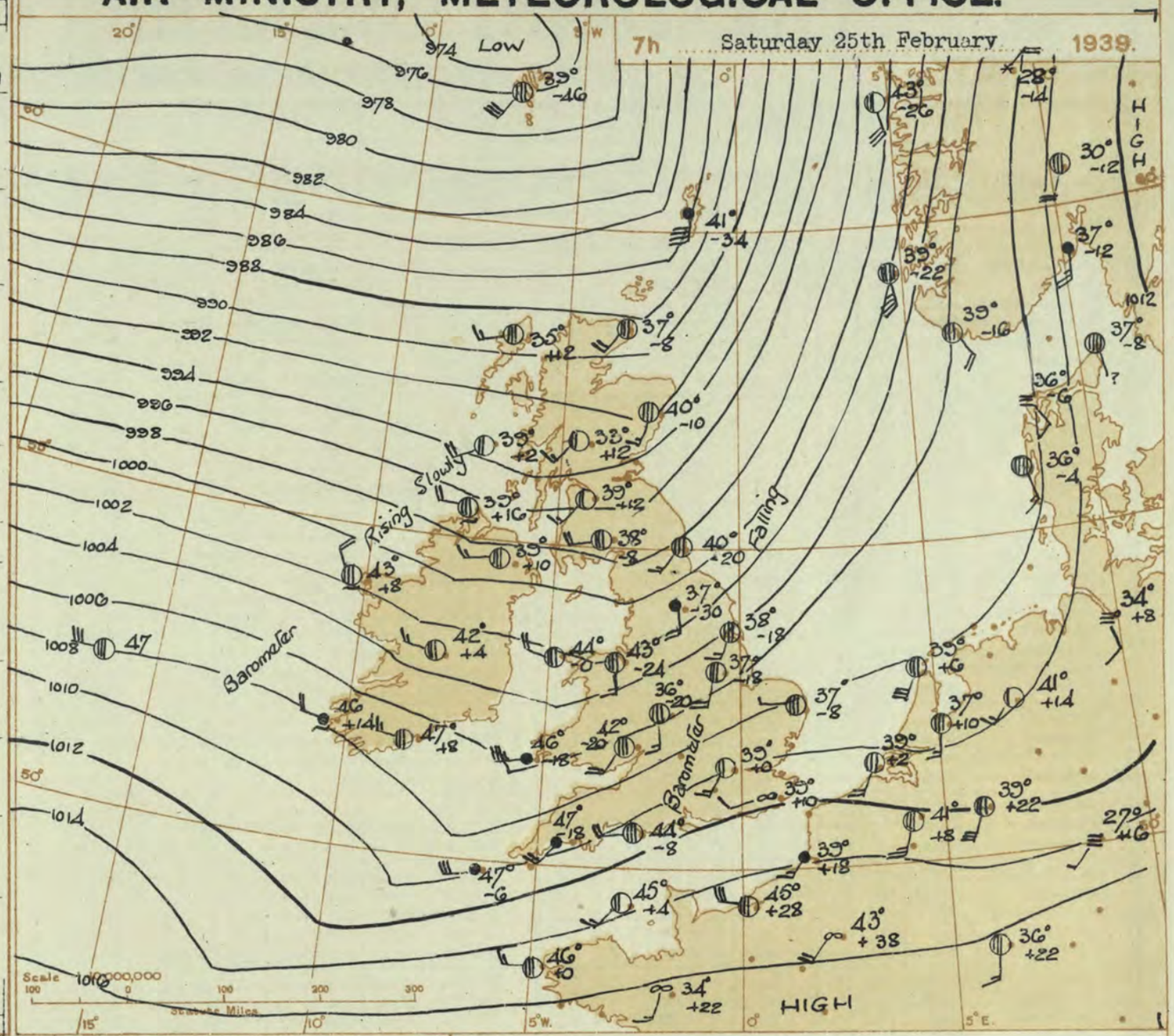
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 24th February 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 23rd to 9h. 24th.	Temperature. (°F.) Max. 9h.—17h. 24th.	Rainfall (mm.) Night. 17h. 23rd to 9h. 24th.	Rainfall (mm.) Day. 9h.—17h. 24th.	Sunshine. (Hrs.) Sunrise to 17h. 24th.	Sunshine. (Hrs.) Sunrise to Sunset. 23rd.
1	Tunbridge W.	bbc	ω	27	45	–	–	2.9	8.4
	Bournemouth	b	b	30	52	–	–	7.8	8.8
	Ventnor ...	xob	boc	34	47	–	–	3.7	6.0
	Southsea ...	bc	bcc	34	46	–	–	3.5	7.9
	Bognor Regis	bbc	ccr	33	47	–	Trace	3.2	6.8
	Littlehampton	bcc	co	30	46	–	–	3.2	7.1
	Worthing ...	bbcc	o	34	47	–	–	2.3	6.4
	Brighton ...	bc	ccd	35	47	–	Trace	2.4	6.1
	Eastbourne† ...	cbcco	o	37	46	–	–	1.7	3.8
	Hastings† ...	co	oco	37	45	–	–	1.1	2.6
	Folkestone ...	mωc	oro	38	44	–	0.5	0.3	3.0
	Dover ...	oc	coroc	39	45	–	1	0.0	3.0
	Deal	oco	opro	37	45	–	1	0.1	4.6
	Ramsgate ...	co	orc	34	44	–	1	0.3	4.5
	Margate ...	c	cr.	40	43	–	1	0.2	5.0
2	Southend ...	cmb	bbco	36	46	–	–	2.2	8.8
	Clacton-on-Sea	cbcc	coc	35	46	–	–	0.3	8.4
	Dovercourt ...	bcc	oc	34	45	–	–	0.0	8.4
	Lowestoft ...	cbcc	c	34	44	–	–	0.0	8.6
	Skegness ...	b	bbcm	30	47	–	–	6.7	1.4
	Mablethorpe...	bxb	bbc	30	45	–	–	6.8	0.5
	Cleethorpes ...	bc	bc	31	50	–	–	7.4	1.2
3	Leamington S.	bc	bc	28	48	–	–	7.9	2.0
4	Cheltenham†	bxcb	bbc	27	49	–	–	7.9	3.1
5	Bath	b	b	28	49	–	–	8.4	6.1
	Weymouth ...	b	b	32	49	–	–	8.3	9.6
	Jersey ...	cbc	cbc	40	47	–	–	3.3	2.1
	Torquay ...	bωb	b	30	48	–	–	9.6	9.2
	Falmouth	b	b	35	48	1	–	9.2	8.7
	Penzance ...	b	b	35	50	Trace	–	8.5	7.9
	St. Ives ...								
	Bude... ...	bc	bc	33	46	0.5	–	9.0	8.0
	Ilfracombe ...	rcbc	bcbbc	38	47	2	–	8.0	8.3
6	Aberystwyth	cbc	bc	33	47	0.5	–	8.7	0.0
7	Llandudno ...	b	b	39	47	0.4	–	9.1	0.0
	Colwyn Bay...	b	b	39	48	1	–	9.0	0.0
	Rhyl	b	b	37	47	1	–	9.2	0.0
8	Wallasey ...	b	b	39	48	2	–	9.1	0.1
	Southport ...	bcb	b	38	49	2	–	8.5	0.0
	Blackpool ...	bcm.	bbm.	38	47	–	–	7.9	0.0
	Morecambe ...	bc	b	38	47	0.3	–	7.0	0.2
9	Ilkley... ...	bc	bc	35	49	4	–	6.4	0.6
	Harrogate ...	bbc	bcb	36	49	1	–	5.0	0.0
10	Berwick-on-T.	b	bcb	36	48	1	–	7.6	0.0
11	Dunbar ...	bcm.	bcm.	37	47	1	–	7.7	0.1
12	Troon... ...	cbcb	bcb	38	45	–	–	6.7	0.3
	Douglas ...	cr	b	36	47	1	Trace	8.0	0.1

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



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 25th February, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ...	Wind veering west fresh to moderate, backing southwest and increasing later; cloudy; rain early, then fairer temporarily; average to rather low temperature to-day, becoming milder tomorrow.
3 E. Midlands ... 4 W. Midlands ...	Wind west, moderate or fresh, backing and increasing later; bright periods, local showers at first; becoming cloudy with rain tomorrow; rather cold to-day, then becoming milder.
5 S.W. England 6 South Wales ...	Wind northwest to west fresh, backing towards south, increasing probably to gale later; cloudy; occasional rain, but brighter periods locally at first; average temperature becoming milder temporarily.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland ↓	Wind west fresh at times, backing and increasing later; gale possible on west coast; bright periods; wintry showers with snow or sleet on hills; dull, rain tomorrow; rather cold becoming milder tomorrow.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland ↓ 16 Orkney and Shetland ↓ 17 N. W. Ireland 18 N. E. Ireland	Wind mainly southwest to west, fresh to strong, gale locally on northeast coast; winds decreasing tomorrow; variable sky; wintry showers with snow and sleet on the hills; thunder possible locally; cold.
19 S. E. Ireland 20 S. W. Ireland	As 5 - 6.

H.M. Stationery Office Press, Kingsway, W.C.2. 6137/0940 m 8066 D 3769 Gp 948 32200 2/39

GENERAL INFERENCE.

A trough of low pressure from the Faeroes to Shetland and thence to St. George's Channel is moving east. A new depression is expected to develop in mid-Atlantic and move quickly northeast across England. Weather will be rather cold with bright periods and wintry showers in northwestern districts. In south and southeast districts a short fair interval will succeed a period of rain but subsequently disturbed conditions are expected to spread from the West.

FURTHER OUTLOOK.

Unsettled; becoming colder again in the South.

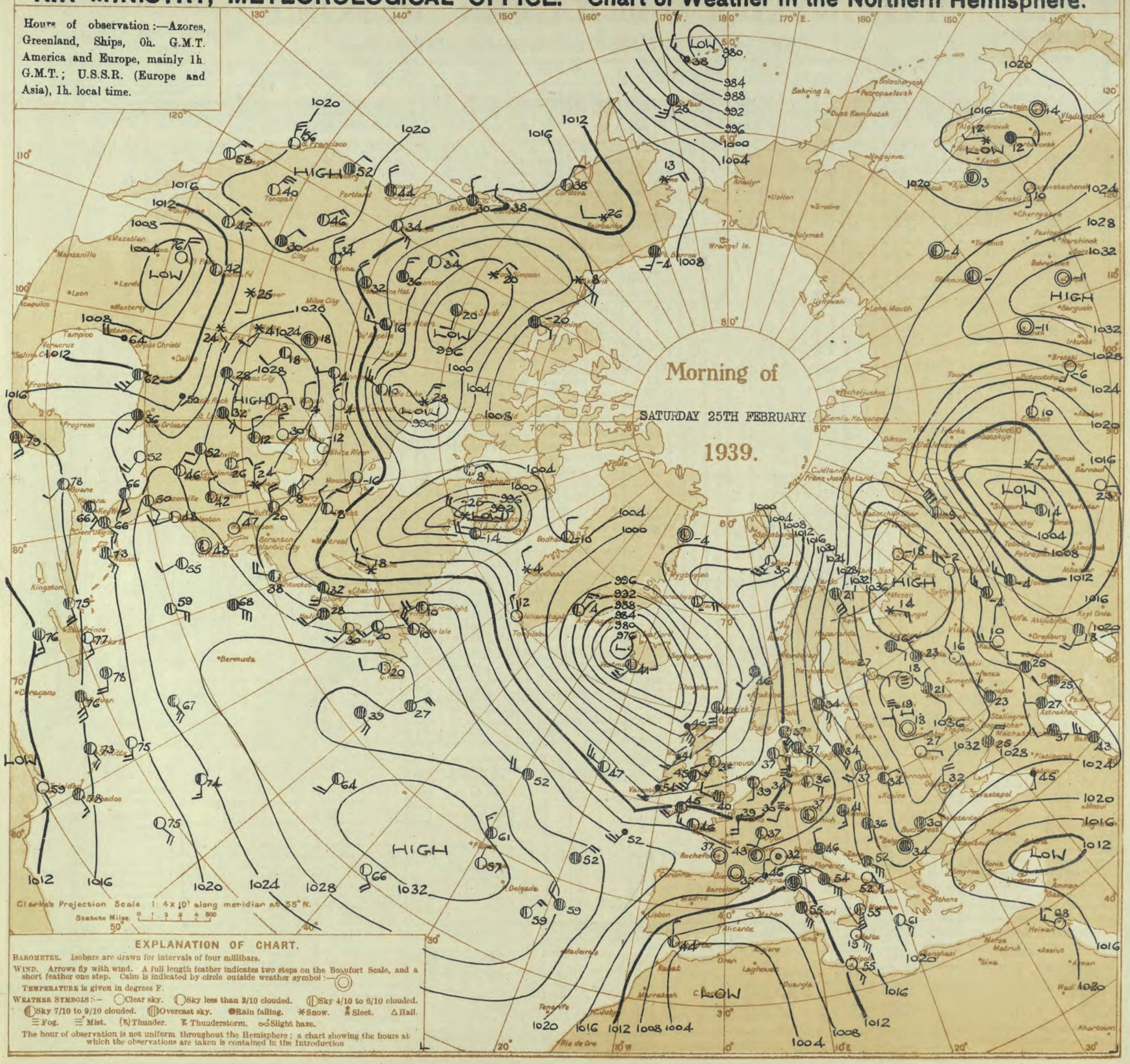
Times of Issue of Gale Warnings.

↓ South Cone hoisted at 1935 on 24th in district 16 and at 0135 on 25th in districts 11 and 15.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 25th February, 1939
No. 28219

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1010.5	+2	NWW	2	zo	40	75	6	5	2	—	4-6	10	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1010.0	+6	NNE	3	zo	40	97	5	5	—	—	10	10	450
	Manston	154	1008.9	-2	NE	3	zo	41	97	5	5	—	—	10	10	450
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5														
	Mildenhall	19	1010.1	+2	WNW	2	c	34	97	7	5	—	—	9+	9+	4000
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1012.2	0	NW	2	c	43	75	9	5	—	—	9+	9+	2500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1011.7	+14	NW	3	bc	42	85	8	5	—	—	4-6	4-6	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1014.2	+10	W	4	bc	44	75	8	8	—	—	4-6	4-6	2500
	Scilly (St. Mary's)	163	1014.2	+4	WS	4	c	45	85	8	5	2	—	4-6	10	2500
	Guernsey	175	1013.2	+20	WNW	2	bc	43	75	9	—	3	—	0	4-6	—
6	Pembroke	142	1010.1	-6	WSW	4	cq	45	75	7	5	2	—	7-8	9+	2500
7	Holyhead	26	1006.2	-26	SWW	5	c	45	75	8	5	2	—	2-3	10	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1008.9	-2	SWW	3	m	39	92	4	—	2	—	0	10	—
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1004.9	-20	SW	3	bc	38	85	6	8	—	—	4-6	4-6	2500
11	St Abbs Head	280	1003.1	-24	SSE	5	c	39	92	8	8	6	—	4-6	9+	2500
	Leuchars	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1004.1	-30	SW	5	c	43	75	8	5	1	—	4-6	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	988.0	-50	SSE	7	rr	40	97	6	5	2	—	7-8	10	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	993.9	-44	SSW	6	c	43	75	7	5	1	—	7-8	9+	1500
16	Lerwick	156	994.6	-14	S	6	c/pr	44	85	8	8	2	—	7-8	10	800
17	Blacksod Point	18	1000.5	-8	W	5	cq	46	85	8	9	—	—	9	9	800
18	Malin Head	84	997.3	-36	SW	3	RR	41	97	5	9	2	—	4-6	10	800
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1006.4	-6	SW	3	Dr	54	97	4	5	—	—	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 25th February — PAST 24 HOURS

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 24th Hrs. (36)
1	London (Kew)	1009.6	-2	SSW	2	zo	39	75	6	5	7	2	1	9+	2500	1	*	47	39	29	—	Tr	3.6
	Croydon	1010.1	0	SWS	3	bc	39	75	6	5	7	—	Tr	2-3	4000	1	*	46	38	30	—	3	1.9
	S. Farnborough	1010.4	-2	SW	3	c	37	85	8	—	7	—	0	9+	—	1	*	48	36	33	—	Tr	4.0
	Boscombe Down	1010.6	-12	SWS	3	c	38	85	8	5	7	—	9	10	2500	1	*	47	34	30	—	—	7.9
	Calshot (Sthmtn.)	1011.9	+10	WSW	4	c	39	85	8	5	2	—	7-8	7-8	4000	1	2	47	37	34	—	Tr	3.8
	Lympne	1011.6	+10	WSW	2	zo	39	92	6	5	—	—	10	10	800	1	§ 2	43	38	38	Tr	0.6	0.8
	Manston	1010.1	+8	WSW	3	ido	39	92	5	5	—	—	10	10	800	1	*	43	39	38	1	0.2	0.2
2	Shoeburyness	1009.5	+4	WSW	2	c	41	85	6	7	1	—	4-6	10	2500	1	*	47	37	33	—	Tr	1.7
	Felixstowe	1008.9	-2	W	3	zo	40	85	6	5	—	—	10	10	800	1	1	46	37	33	0.1	0.2	*
	Gorleston	1008.3	-8	W	1	c	37	92	6	5	—	—	10	10	2500	1	1	44	42	35	—	Tr	0.0
	Mildenhall	1008.0	-6	SSW	3	zo	38	92	5	—	7	4	0	4-6	—	1	*	48	34	27	—	—	4.5
	Cranwell	1006.3	-18	SSW	4	c	37	75	8	5	—	—	10	10	5700	1	*	49	33	26	—	—	7.3
3	Birmingham	1006.5	-20	S	3	c	36	85	5	5	7	—	7-8	9+	800	1	*	46	35	23	—	—	8.1
	Upper Heyford	1008.8	-20	WSW	3	c	36	85	7	5	7	—	7-8	10	2500	1	*	47	34	27	—	Tr	*
4	Ross-on-Wye	1007.1	-20	SW	4	c	42	85	7	5	1	2	4-6	9+	2500	1	*	48	32	22	—	—	9.2
5	Hartland Point	1007.2	-20	WSW	5	rr	44	97	8	—	2	—	10	10	800	1	4	44	41	35	Tr	0.6	8.5
	Bristol	1009.0	-18	S	4	c	39	75	8	5	2	—	4-6	10	1500	1	*	48	34	25	—	—	8.6
	Portland Bill	1010.6	-8	WSW	4	c	44	85	8	5	4	—	4-6	7-8	2500	1	3	46	38	*	—	—	*
	Plymouth	1011.2	-18	SW	4	rdro	47	85	7	6	2	—	9+	10	800	1	3	47	35	*	—	Tr	8.9
	The Lizard	1012.4	-8	WS	5	pr	47	85	7	5	—	—	10	10	1500	1	2	48	37	*	—	Tr	9.1
	Scilly (St. Mary's)	1010.3	-6	WSW	6	ido	47	97	6	5	2	—	7-8	10	1500	1	3	49	40	*	Tr	Tr	9.6
	Guernsey	1013.8	+4	SWS	3	bc	45	75	9	1	7	—	2-3	4-6	2500	1	2	47	41	36	—	—	8.1
6	Pembroke	1005.6	-18	WS	7	dodo	46	92	5	5	2	—	7-8	10	800	1	3	46	42	*	—	1	10.0
7	Holyhead	1002.1	0	WNW	4	c/f	44	97	8	6	7	—	4-6	10	1500	1	3	48	41	36	—	4	9.3
	Chester (Sealand)	1003.3	-24	S	3	c	43	75	8	6	2	—	9	10	1500	1	*	47	33	24	—	—	8.8
8	Manchester	1003.1	-28	SW	4	ir	39	85	6	6	2	—	9	10	1500	1	*	49	33	26	—	0.4	5.2
10	Spurn Head	1004.9	-18	SSW	3	c	38	92	5	5	—	—	10	10	1500	0	2	50	37	*	—	Tr	8.4
	Catterick	1000.0	-30	SE	4	iro	37	92	7	6	7	—	9	10	800	1	*	49	34	29	—	0.2	8.8
	Tynemouth	998.9	-20	SW	3	c	40	75	6	5	—	—	9	9	1500	1	1	47	37	33	—	Tr	3.1
11	St Abbs Head	994.7	-12	W	5	c/r	39	92	8	3	6	—	4-6	7-8	1500	1	4	47	36	*	—	1	*
	Leuchars	993.4	-20	SW	5	c	40	85	8	8	—	—	7-8	7-8	4000	1	*	48	37	28	—	2	7.3
12	Renfrew (Abbots I.)	996.1	+12	SWS	3	bc	39	85	8	8	6	—	2-3	2-3	2500	1	*	50	37	33	Tr	8	6.0
	Eskdalemuir	996.9	-8	WSW	4	c	38	85	8	5	—	—	10	10	800	2	*	46	36	31	0.1	12	3.8
	Point of Ayre	999.6	+6	WNW	5	c	42	97	8	8	7	—	4-6	10	2500	1	3	49	38	*	—	4	7.6
13A	Tiree	993.6	+2	SWW	4	bc	39	85	7	8	6	—	4-6	4-6	1500	1	3	49	37	35	—	13	8.4
13B	Stornoway	989.3	+12	WSW	3	c/phr	35	97	7	8	—	—	7-8	7-8	1500	1	2	49	35	*	—	7	6.0
15	Dalwhinnie	993.8	+12	SW	3	bc	33	97	7	4	6	—	2-3	2-3	2500	4	*	44	32	30	—	6	2.2
	Aberdeen	991.7	-10	SSW	3	c/r	40	92	8	7	2	—	Tr	9+	1500	1	1	48	38	33	—	0.1	3.5
	Wick	988.3	-8	SW	4	c	37	85	7	5	1	—	4-6	7-8	1500	1	2	44	36	*	Tr	1	*
16	Lerwick	985.8	-34	S	8	rr	41	85	6	6	2	—	4-6	10	800	1	*	44	39	*	7	2	1.2
17	Blacksod Point	1001.3	+8	NW	4	c	43	75	8	5	—	—	9	9	1500	1	4	48	37	*	Tr	3	*
18	Malin Head	997.6	+16	W	4	c/phr	39	92	7	9	6	—	4-6	7-8	2500	*	4	48	36	*	—	8	6.2
	Aldergrove	999.5	+10	WS	3	c	39	85	8	8	—	—	9	9	2500	1	*	49	38	32	Tr	1	5.7
19	Birr Castle	1003.6	+4	WNW	3	c	42	85	8	5	7	—	4-6	9	1500	1	*	49	39	31	—	2	7.0
20	Valentia Obsy. †	1008.0	+14	WNW	4	iro	46	75	7	5	—	—	10	10	1500	1	4	49	45	42	Tr	2	4.7
	Roches Point	1006.6	+8	WN	3	c	47	85	8	5	7	—	2-3	10	1500	1	3	49	43	*	—	2	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	bcxfcm.	cz.ycz.	cpr.bccz	47	39	29	—	Tr	3.6	*	*	6
Croydon	217	bcxfz⊕	cz.	cz.ir.cr	46	38	30	—	3	1.9	*	*	6
Greenwich (Royal Observatory)	149	bcc	c ⊕c	cr.bccrc	46	38	30	—	4	3.6	58	72	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	3.6	*	*	*
Westminster (St James' Park)	27	*	*	*	48	40	33	1		4.0	65	75	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	47	38	33	—	1	4.2	62	73	*
Camden Square	110	bc	c	*	48	39	29	—	1	*	*	75	*
Kensington	80	bc	c	*	48	39	34	—	0.6	4.2	At 18h. 62	73	*
Hampstead Observatory	450	bc	bc	or	45	36	29	—	0.4	3.9	*	83	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 25th

South Kensington Max.	Time.	Min.	Time.
<0.3 whole period.			

Kew Observatory Max.	Time.	Min.	Time.
0.8	9h 24th	0.1	13h 24th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 24th February Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 25th February Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1002.2	SSE	4	bc	48	1015.6	SW	4	zo	43	54	39	6	0.2
Brussels	1007.3	ESE	1	c	43	1012.1	SSW	5	o	41	46	37	2	—
Berlin	1012.5	E'H	2	zo	43						46		—	
Zürich	1008.2	SE	1	c	55	1020.7	NW	1	zo	39	66	36	—	—
Rome	1015.1	SE	6	o	55	1018.4	ESE	3	c	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.

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

COLUMN 30.—Code for State of Sea.

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

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.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 26th February, 1939.
No. 28220

OBSERVATIONS at 13h. G.M.T. 25th February

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1007.5	-14	SW'S	4	zo	47	85	6	5	–	–	10	10	800
	Croydon ...	1008.5	-22	SW'W	5	roro	45	92	6	6	2	–	9+	10	800
	S. Farnborough	1008.2	-14	SW	5	dodo	46	92	6	6	2	–	9	10	800
	Boscombe Down	1008.4	-6	SWW	5	dodo	46	97	6	6	2	–	7-8	10	800
	Calshot (Sthmtn.)	1010.2	-18	SW	6	dodo	47	97	5	6	–	–	10	10	800
	Lympne ...	1011.4	-14	SSW	5	c/d	44	85	7	6	2	–	4-6	10	800
	Manston ...	1010.0	-14	SW	6	c	45	85	7	5	2	–	7-8	10	1500
2	Shoeburyness ...	1008.8	-14	SW	5	iro	45	85	7	5	–	–	10	10	1500
	Felixstowe ...	1008.6	-10	SW	5	roro	46	85	6	5	–	–	10	10	800
	Gorleston ...	1006.5	-14	SW'W	5	roro	42	92	6	6	–	–	10	10	1500
	Mildenhall ...	1005.5	-14	SSW	4	dd	44	97	6	6	2	–	7-8	10	1500
	Cranwell ...	1003.5	-8	SW	4	c	45	85	7	5	2	–	9	10	1500
3	Birmingham ...	1005.4	+8	WSW	4	c	45	75	6	6	1	–	2-3	10	1500
	Upper Heyford	1006.7	-6	W'S	4	c/d	46	92	8	8	2	–	7-8	10	800
4	Ross-on-Wye	1006.3	+6	WSW	4	c	47	75	8	6	2	–	2-3	10	1500
5	Hartland Point	1008.5	+2	W	5	o	46	92	7	5	–	–	10	10	600
	Bristol ...	1008.2	+2	WSW	4	iro	46	85	6	5	2	–	2-3	10	1500
	Portland Bill ...	1009.1	-10	WSW	6	rr	46	92	7	5	–	–	10	10	1500
	Plymouth ...	1010.2	-2	W'S	4	zo	49	85	6	5	7	–	Tr	10	800
	The Lizard ...	1011.1	-4	WSW	5	c	48	97	6	8	2	–	7-8	10	1500
	Scilly (St. Mary's)	1011.3	+2	W'S	5	c	49	97	7	5	2	–	7-8	10	1500
	Guernsey ...	1012.8	-12	SW'S	5	o	49	85	7	5	–	–	10	10	2500
6	Pembroke ...	1007.1	+2	W'N	5	c/r	47	85	7	6	2	–	4-6	10	800
7	Holyhead ...	1003.2	+2	W'S	5	c	45	75	8	7	7	–	4-6	9+	2500
	Chester (Sealand)	1003.8	+8	W'S	4	c	48	65	8	8	7	–	2-3	9	2500
8	Manchester ...	1002.5	+2	W'S	5	zo	46	65	6	7	7	–	2-3	10	4000
10	Spurn Head ...	1002.0	0	SW	4	c	43	92	6	5	2	–	4-6	9+	2500
	Catterick ...	1002.1	+8	W'S	4	c	45	65	8	5	3	8	1	7-8	1500
	Tynemouth ...	998.3	+4	W	5	bc	46	55	7	2	6	–	2-3	4-6	2500
11	St. Abbs Head ...	996.6	+8	W	5	bcq	43	55	9	7	6	9	2-3	4-6	2500
	Leuchars ...	995.0	+6	W	5	bc	44	65	8	8	6	–	4-6	4-6	2500
12	Renfrew (Abbots I.)	997.0	+6	SW'W	4	cjp	43	65	8	3	6	3	7-8	9	2500
	Eskdalemuir ...	997.8	0	WSW	6	c	39	75	8	8	–	–	9	9	1500
	Point of Ayre ...	1000.6	+14	W	5	c	44	85	8	5	7	–	2-3	10	2500
13A	Tiree ...	994.1	-2	SW'W	4	c	41	85	7	8	6	–	7-8	7-8	1500
13B	Stornoway ...	989.0	0	SSW	5	c/phr	39	85	7	3	–	–	7-8	7-8	2500
15	Dalwhinnie ...	994.7	-2	SW	2	bc	34	85	7	4	4	–	2-3	2-3	2500
	Aberdeen ...	992.9	+4	SW'W	3	bc	46	55	8	1	6	3	2-3	4-6	1500
	Wick ...	989.8	+4	SW	6	bc	41	75	9	6	6	–	2-3	4-6	1500
16	Lerwick ...	985.6	-4	SW	6	c	41	85	6	8	7	–	4-6	7-8	800
17	Blacksod Point	1000.8	-8	W	6	cq	44	75	8	9	–	–	7-8	7-8	1500
18	Malin Head ...	997.0	-6	SW'W	4	c/pr	41	85	7	6	–	3	4-6	9	1500
	Aldergrove ...	999.8	-2	W	4	c/pr	42	85	8	8	7	–	4-6	10	1500
19	Birr Castle ...	1003.8	-4	WSW	3	c/r	41	92	7	6	2	–	4-6	10	800
20	Valentia Obey. †	1007.1	-6	W	5	c/r	45	75	8	5	2	–	4-6	10	2500
	Roches Point	1006.6	-4	W'S	3	c/r	46	85	8	6	7	–	4-6	9	1500

OBSERVATIONS at 18h. G.M.T. 25th February — **PAST 24 HOURS. Weather.**

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	7h.–13h. 25th (37)	13h.–18h. 25th (38)	18h 25th to 1h. 26th (39)	1h.–7h. 26th (40)
London (Kew)	1007.6	-2	SW'S	3	c/r	45	92	6	5	2	–	7-8	10	1500	1	*	cmo	cmroroc m	ciromo	cbcbx
Croydon	1008.3	0	WSW	3	roro	44	92	5	6	2	–	7-8	10	1500	1	*	cmororo	crorormo	roroiromo	bmo, bv
S. Farnborough	1008.0	+2	WSW	4	roro	44	85	7	6	2	–	7-8	10	800	1	*	cidrodoc	dororrc	crocrbc	cbcmx
Boscombe Down	1008.1	+2	SW'W	3	c/r	42	92	7	6	2	–	7-8	10	800	1	*	ccidodod	cdodrorc	crororprc	bcb
Calshot (Sthmtn.)	1009.7	-2	SW	3	iro	46	92	6	5	7	–	7-8	10	800	1	2	cdorodo	cdoroiro	crbcw	bcwbiv
Lympne	1010.3	+2	SW'S	5	rr	43	97	6	6	2	–	7-8	10	<150	1	§ 3	cmocdo	Omrrfro	rrrocmo	cmorbw
Manston	1008.6	-20	SW	5	rr	45	92	6	6	2	–	9	10	450	1	*	oidomo	crrmo	crrciro	cirobcmo
Shoeburyness	1008.4	+4	WSW	3	rr	44	85	6	6	–	–	10	10	800	1	*	ciroc	cirocrr	crrciro	cbcb
Felixstowe	1007.6	+4	WSW	4	roro	44	92	6	5	–	–	10	10	800	1	3	omooido	ododoro ro	ororomoc	roro c, b
Gorleston	1005.9	+4	SW'W	4	c	45	85	6	5	–	–	10	10	2500	1	3	czororo	ozororo	coiroc	cprbc
Mildenhall	1005.5	+2	SSW	2	roro	44	92	6	6	2	–	7-8	10	800	1	*	cmjrororod	ddroro	ororoc	cbcbx
Cranwell	1003.9	+2	SW'W	4	o	42	85	7	–	2	–	10	10	4000	1	*	ciromoc	cPHRc	cbccbc	bcbx
Birmingham	1005.1	-2	SSW	3	roro	41	92	7	6	–	–	10	10	600	1	*	coirc	cororo	rob	b
Upper Heyford	1006.6	-2	W'S	4	rororo	42	92	7	5	–	–	7-8	10	1500	1	*	ccdo	ccroro	crorobc	bcb
Ross-on-Wye	1005.7	0	SW'W	3	iro	43	85	8	6	2	–	2-3	10	1500	1	*	cqodoroc	copero	rocdrocb	b
Hartland Point	1006.2	-10	W	5	rr	46	92	7	6	2	–	7-8	9+	800	1	4	crrpoo	ororocrr	rrroropobc	bc
Bristol	1007.7	+2	W	4	roro	42	92	6	6	2	–	7-8	10	800	1	*	cdodoc	crorodo	croirbc	bcbx
Portland Bill	1008.4	-6	WSW	5	c/r	47	92	7	5	2	–	7-8	10	1500	1	4	orr	orr	oPR	bcbc
Plymouth	1009.0	-10	W'S	4	c/r	47	85	6	5	7	–	7-8	9+	800	1	3	crorododo	cmoiro	cmopro c	cbc
The Lizard	1010.0	-4	SW'W	6	c	47	92	6	8	2	–	7-8	9+	1500	1	3	c	rrprc	prbcq	bcprq
Scilly (St. Mary's)	1009.8	-6	W'S	5	iro	48	97	6	8	2	–	7-8	10	1500	1	3	oidoc	crqiro	cpqbc	bcpoq
Guernsey	1011.2	-2	WSW	3	ir	48	97	6	5	–	–	10	10	1500	1	4	bcco	o.r	ir orr	orcbc
Pembroke	1005.2	-12	NW'W	5	rr	46	92	7	8	2	–	7-8	9+	800	1	3	domrc	cprirq	bcq	bcprq
Holyhead	1002.0	+6	WNW	4	roro	42	85	8	9	7	–	7-8	10	1500	1	2	iroproc	prororoc	cbbc	bcc
Chester (Sealand)	1002.8	-6	SW	3	roro	43	75	8	–	2	–	10	10	4000	1	*	crormoc	prororoc	crorobiw	bx
Manchester	1002.6	-2	WSW	4	iro	42	85	6	8	2	–	7-8	10	2500	1	*	rrcmozo	zoccrozo	cirmoc	cbcb
Spurn Head	1002.2	0	SW'W	2	o	43	85	6	5	–	–	10	10	1500	0	1	rrcpr	co	probc	bcbw
Catterick	999.3	-6	WSW	4	c	41	85	8	5	3	3	1	9	2500	1	*	ciroc	cbcc	probcb	bbx
Tynemouth	998.3	0	SW	3	bc	42	65	8	2	–	2	4-6	4-6	1500	1	1	cpbc	bc	bc	bc
St. Abbs Head	996.0	0	WSW	3	bc	39	75	9	8	6	9	2-3	4-6	2500	0	2	bccqy	probcc	bqbcb	b
Leuchars	994.7	-2	WSW	4	bc	38	85	8	8	3	–	2-3	4-6	1500	1	*	cbcbbc	cprocbc	bcx	bcx
Renfrew (Abbots I.)	996.3	-2	WSW	4	zo	37	85	6	8	6	–	2-3	4-6	2500	1	*	PRH prso	PRHmobc	moPRpr	moprPRS
Eskdalemuir	997.3	-2	SW'W	5	roro	36	92	7	6	2	–	4-6	10	800	1	*	procphpsc	bccprs	robcpsoc	cbcc
Point of Ayre	999.3	-4	W	5	c	42	85	8	8	7	–	4-6	9+	2500	1	2	c	c	cprbc	bcc
Tiree	993.6	+2	W'S	4	c/pr	39	85	7	9	–	–	7-8	7-8	1500	1	4	cpr	cpr	cPHR	cPHRq
Stornoway	989.9	0	SSW	5	c/pr	37	85	8	8	–	–	7-8	7-8	2500	1	3	cPHRq	cPHRq	cprphr	crrpr
Dalwhinnie	*	+2	SW	3	is	33	92	7	8	6	–	4-6	9+	2500	4	*	cis	cis	*	cis
Aberdeen	993.2	+2	SW	3	bc	40	65	6	4	6	3	1	2-3	2500	1	1	cbcby	bcybzo	bzobcb	bbccx
Wick	990.2	+4	SW	4	bc	37	85	8	5	7	1	2-3	4-6	1500	1	2	cbc	bc	bc	bcc
Lerwick	986.0	+4	W	6	c/phr	39	85	8	8	7	–	4-6	7-8	1500	1	*	crrphrpr	cphr	cphr irs	cphr
Blacksod Point	1001.3	+12	NW	5	c	41	65	8	9	–	–	7-8	7-8	800	1	4	phrcq	PHRq	PHR q	PHRq
Malin Head	997.3	+4	W'S	4	cjp	36	92	6	3	–	–	9+	9+	800	1	5	cprbcc	cphrc	cpl irbc PHC	clphr c
Aldergrove	999.7	+10	WSW	3	bc/pr	35	97	8	8	3	–	4-6	4-6	1500	1	*	cb, cpro	propsprq	bcproc	rorororso
Birr Castle	1003.3	+6	W'N	2	c/pr	39	92	8	9	8	–	4-6	7-8	800	1	*	cir	cirpr	cprb	bxcpr
Valentia Obey. †	1007.7	+14	WNW	5	bc/pr	43	75	8	8	–	–	4-6	4-6	1500	1	5	ciroirqc	bccprqbc	bcphrqbc	bcproqbc
Roches Point	1006.2	+2	WNW	4	c	46	85	8	3	–	–	7-8	7-8	1500	1	3	circ	ciroc	cprbc	bcw

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.

Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.

An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.

"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

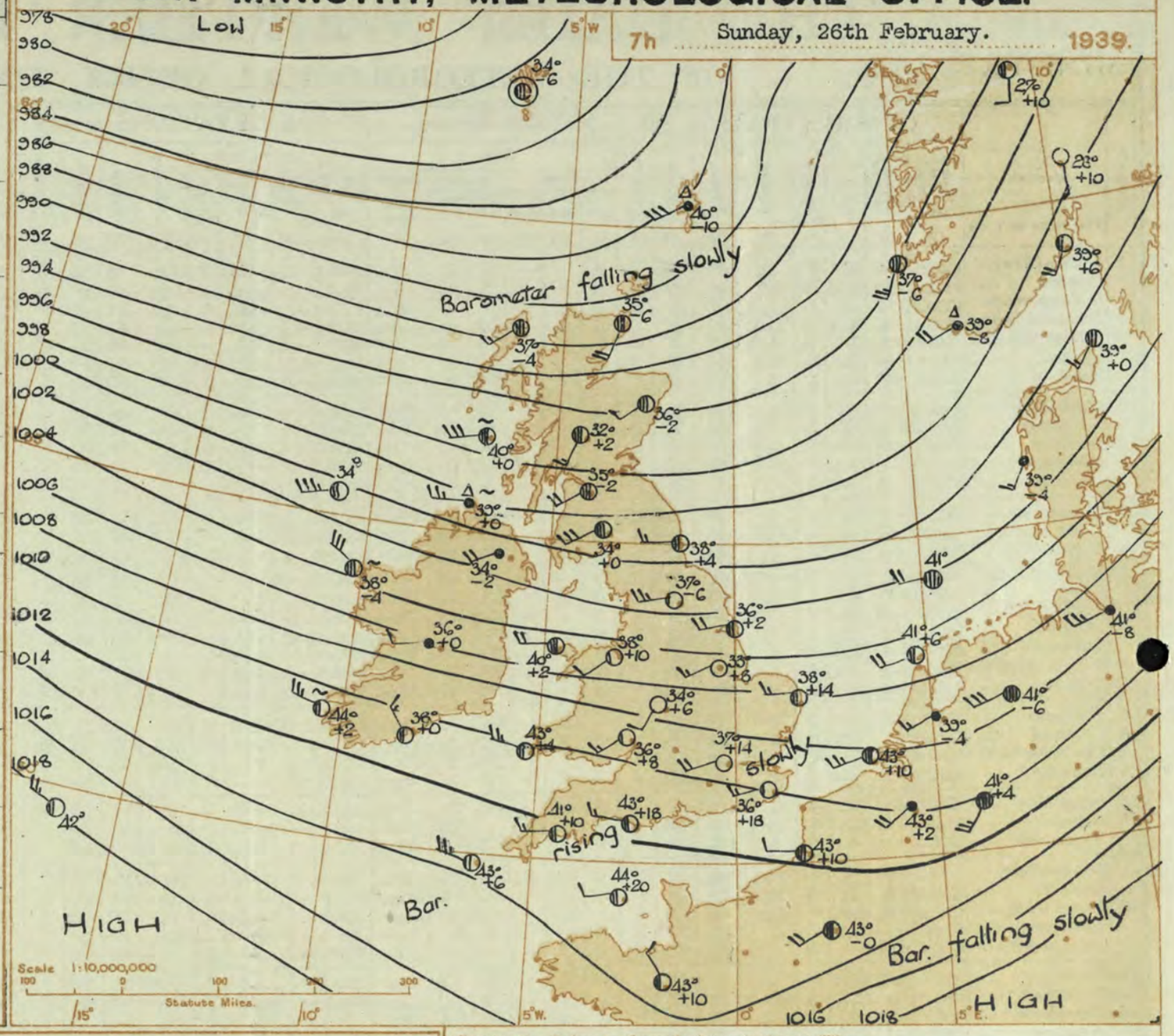
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 25th February 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 24th to 9h. 25th.	Temperature. (°F.) Max. 9h.—17h. 25th.	Rainfall. (mm.) Night. 17h. 24th to 9h. 25th.	Rainfall. (mm.) Day. 9h.—17h. 25th.	Sunshine. (Hrs.) Sunrise to 17h. 25th.	Sunshine. (Hrs.) Sunrise to Sunset. 24th.
1	Tunbridge W.	ors o	ors	37	46	2	3	0.0	2.9
	Bournemouth	orr	rr	37	48	—	3	0.0	8.0
	Ventnor ...	pod	oru	40	47	Trace	6	0.0	3.7
	Southsea ...	borr	orr	36	48	—	3	0.0	3.5
	Bognor Regis	corr	rr	36	47	—	3	0.0	3.2
	Littlehampton	cor	or	35	47	3	4	0.0	3.2
	Worthing ...	c	orr	38	46	4	3	0.0	2.3
	Brighton ...	cr	rr	38	47	1	5	0.0	2.4
	Eastbourne† ...	orsrs	rsrr	41	47	2	7	0.0	1.7
	Hastings† ...	o	odrr	39	46	2	6	0.0	1.1
	Folkestone ...	mo	orom	39	46	Trace	3	0.0	0.3
	Dover ...	o	orr	40	46	Trace	4	0.0	0.0
	Deal	o	rsrr	40	46	0.3	3	0.0	0.1
	Ramsgate ...	co	r	39	46	0.3	2	0.0	0.3
	Margate ...	c	cr	40	46	Trace	2	0.0	0.2
2	Southend ...	o	orr	37	45	1	3	0.0	2.2
	Clacton-on-Sea	co	orirr	36	45	Trace	4	0.0	0.3
	Dovercourt ...	bcc	rsc	38	46	3	*	0.0	0.0
	Lowestoft ...	ccrs	cirs	35	45	Trace	1	0.0	0.0
	Skegness ...	orro	orro	34	47	1	5	0.0	6.7
	Mablethorpe...	oro	opo	34	46	0.3	0.3	0.0	6.8
	Cleethorpes ...	crs	crs	35	45	1	Trace	0.0	7.4
3	Leamington S.	cro	ord	31	47	—	3	0.0	7.3
4	Cheltenham†	ops	oorr	31	46	—	1	0.0	7.9
5	Bath	rsc	rsrc	33	48	Trace	2	0.0	8.5
	Weymouth ...	cids	psc	38	48	—	1	0.0	8.3
	Jersey ...	co	opcp	42	50	—	Trace	0.0	3.4
	Torquay ...	odmor	oidpbc	35	49	0.2	1	0.0	9.7
	Falmouth	modrq	gormo	36	49	1	1	0.0	9.5
	Penzance ...	rrdc	ccpc	36	50	2	0.3	0.0	9.0
	St. Ives ...								
	Bude... ...	ors	ors	31	49	1	2	0.0	9.0
	Ilfracombe ...	roco	orr	39	48	3	2	0.0	8.5
6	Aberystwyth	pndr	irs	36	46	2	3	0.0	9.2
7	Llandudno ...	c	rscr	38	45	4	1	0.0	9.3
	Colwyn Bay...	co	oopo	38	46	3	0.3	0.0	9.2
	Rhyl	c	cpr	36	47	1	1	0.0	9.2
8	Wallasey ...	Roc	cors	38	46	2	Trace	0.0	9.3
	Southport ...	rc	comr	37	47	2	2	0.2	8.5
	Blackpool ...	cms	cmsor	40	45	5	2	0.0	7.9
	Morecambe ...	drbc	cdr	36	44	8	Trace	0.1	7.0
9	Ilkley... ...	cpc	pc	35	45	2	1	0.3	6.4
	Harrogate ...	cirs	cbers	36	46	0.5	0.3	0.6	5.0
10	Berwick-on-T.	bcpr	rsbc	38	45	Trace	Trace	6.9	7.6
11	Dunbar ...	bc	bc	37	45	—	—	6.8	7.7
12	Troon... ...	ocbcc	bcorr	39	44	6	0.5	1.8	6.7
	Douglas ...	bcir	cir	39	43	6	2	0.1	8.2

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



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

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 26th February, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Moderate westerly wind, fair early, scattered showers with considerable bright periods later; mild in the day; ground frost at night.
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	Moderate or fresh squally westerly wind; showers, bright intervals; average temperature.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Moderate or fresh southwest wind, veering to west or northwest; thundery showers; snow on hills; average temperature.
15 N. E. Scotland	As 5 - 11.
16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland	As 12 - 14.
19 S. E. Ireland 20 S. W. Ireland	As 5 - 11.

GENERAL INFERENCE.

A depression is almost stationary over Iceland and an anticyclone is centred over the Azores. There will be considerable bright periods in most districts with occasional wintry showers mainly in the West and North.

FURTHER OUTLOOK.

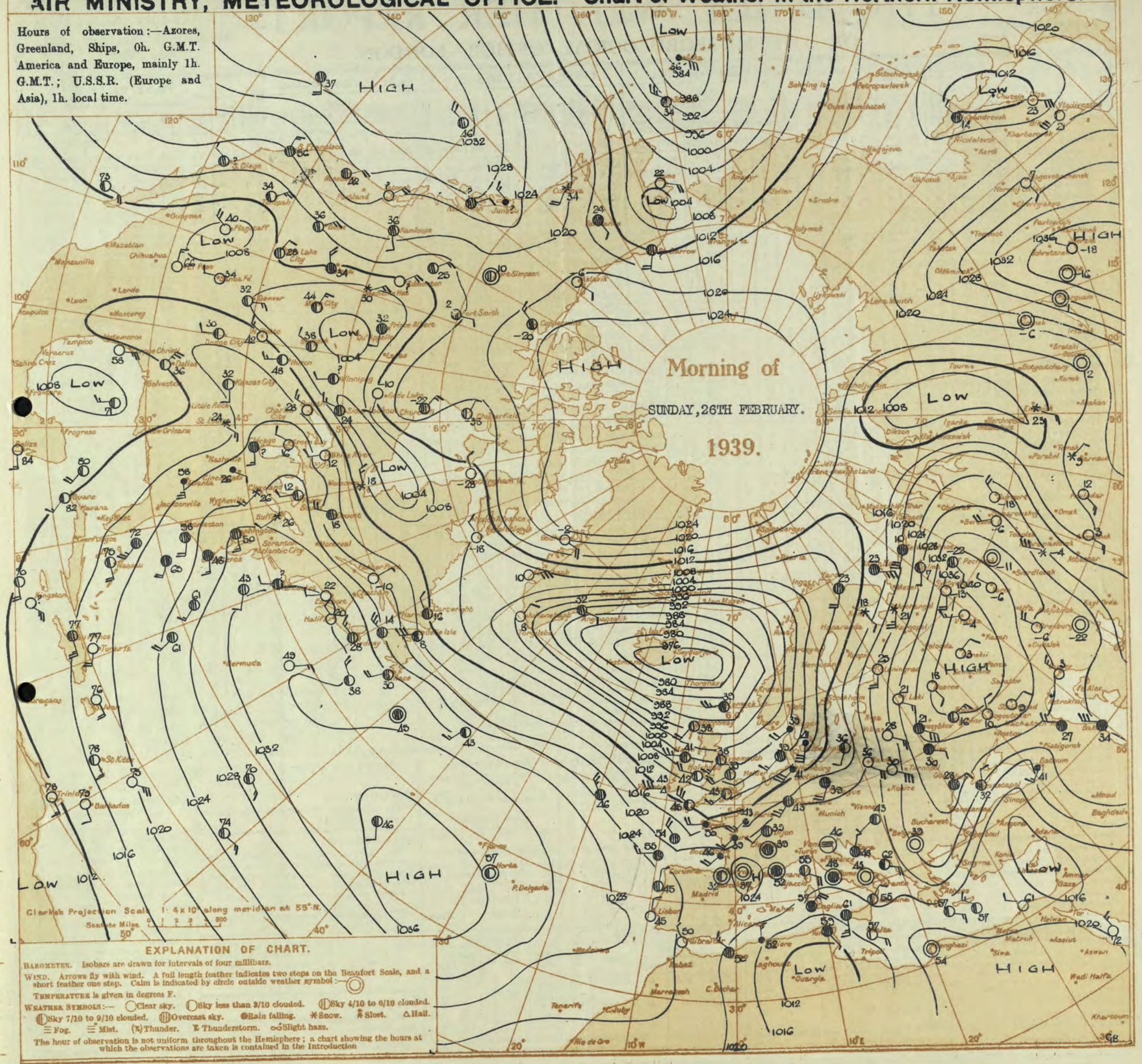
Bright intervals; local wintry showers.

Forecasts issued at 1100 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2. 13/1750 m 5036 D 3763 Gp 548 32200 2/39

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 26th February, 1939.

No. 28220

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1007.4	-6	SWW	3	bc/r	43	85	6	5	-	-	4-6	4-6	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1008.9	-8	WSW	3	c	43	92	6	5	-	-	7-8	7-8	4000
	Manston	154	1007.6	-4	WSW	3	c	44	92	6	5	-	-	9+	9+	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1005.1	-2	WS	3	c	41	85	6	5	-	-	9+	9+	2500
	Mildenhall	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1009.1	+18	NW	3	bc	43	75	8	5	-	-	2-3	2-3	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1008.3	+6	WNW	4	bc	45	92	8	5	-	-	4-6	4-6	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1011.3	+20	NWW	5	bc	43	85	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1012.1	+16	NW	6	bc	45	92	8	2	-	-	2-3	2-3	2500
	Guernsey	175	1010.9	-2	WS	3	ir	47	97	6	5	-	-	10	10	1500
6	Pembroke	142	1007.9	+8	WNW	5	bcq	43	85	8	5	-	-	2-3	2-3	1500
7	Holyhead	26	1004.6	+14	WN	4	bc	42	75	8	1	4	-	1	2-3	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1002.2	+2	WSW	4	bc	39	92	6	-	2	-	0	2-3	-
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	999.1	+6	SW	3	bc	38	75	7	2	-	-	2-3	2-3	2500
11	St Abbs Head	280	996.4	+10	SW	5	bc	36	75	8	2	3	-	1	2-3	4000
	Leuchars	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1001.4	+8	WN	6	bc	39	85	8	4	-	-	2-3	2-3	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	990.2	+14	SW	4	bc	38	92	7	8	-	-	4-6	4-6	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	990.3	0	SW	4	bc	34	85	8	5	7	-	2-3	4-6	1500
16	Lerwick	156	987.5	+2	WSW	5	c/ps	39	85	8	8	7	-	4-6	9	800
17	Blacksod Point	18	1002.9	+8	NW	6	cq	41	75	8	9	-	-	7-8	7-8	1500
18	Malin Head	84	997.8	0	W	5	cjp	41	85	7	9	-	-	7-8	7-8	1500
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1009.8	+6	W	6	PIIR	43	97	8	9	-	-	4-6	4-6	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1009.8	+16	SSW	2	b	36	92	8	-	-	-	0	0	-	1	*
Croydon	1009.6	+14	WSW	4	b	37	92	8	-	-	-	0	0	-	1	*
S. Farnborough	1010.2	+12	WSW	2	b	34	92	7	-	-	-	0	0	-	1	*
Boscombe Down	1010.7	+16	WS	3	b	35	97	7	1	-	-	Tr	Tr	2500	5	*
Calshot (Sthmtn.)	1011.2	+14	WSW	3	b	35	97	8	-	-	-	0	0	-	1	1
Lympne	1011.0	+18	WS	3	b	36	97	8	5	-	-	Tr	Tr	2500	1	§2
Manston	1009.6	+22	WSW	3	b	36	92	6	-	-	-	0	0	-	1	*
Shoeburyness	1009.3	+16	SW	2	b	39	85	8	-	-	-	0	0	-	1	*
Felixstowe	1008.4	+20	W	4	b	38	92	7	8	-	-	Tr	Tr	2500	1	3
Gorleston	1007.1	+14	W	3	bc	38	92	7	4	-	-	2-3	2-3	2500	1	2
Mildenhall	1007.2	+16	SW	3	b	35	92	7	-	-	-	0	0	-	1	*
Cranwell	1005.5	+8	SWW	3	b	33	92	7	-	-	-	0	0	-	1	*
Birmingham	1007.7	+6	SSW	2	b	34	92	8	-	-	-	0	0	-	1	*
Upper Heyford	1008.9	+12	SWW	3	b	32	97	7	-	-	-	0	0	-	1	*
Ross-on-Wye	1009.1	+8	SW	3	b	36	85	8	1	-	-	Tr	Tr	2500	1	*
Hartland Point	1010.2	+6	NW	3	bc	43	75	8	3	-	-	4-6	4-6	1500	1	3
Bristol	1010.3	+10	WSW	3	bc	37	85	8	8	-	-	2-3	2-3	2500	1	*
Portland Bill	1011.5	+18	WNW	3	bc	43	85	8	5	-	-	2-3	2-3	2500	1	3
Plymouth	1011.9	+10	W	3	bc	41	85	8	8	-	-	2-3	2-3	2500	1	2
The Lizard	1013.0	+6	WN	4	bc	43	85	8	8	-	-	4-6	4-6	2500	1	3
Scilly (St. Mary's)	1013.1	+6	WNW	5	bcjp	43	92	8	8	4	-	4-6	4-6	1500	1	3
Guernsey	1012.7	+20	WS	2	bc	44	75	7	7	-	-	4-6	4-6	2500	1	3
Pembroke	1009.5	+4	NWW	5	bcq	43	75	8	2	4	-	4-6	4-6	1500	1	3
Holyhead	1005.3	+2	W	4	c	40	85	8	2	3	-	7-8	7-8	2500	1	3
Chester (Sealand)	1005.7	+10	SW	2	b	38	75	9	2	-	-	1	1	2500	1	*
Manchester	1005.3	+6	SWS	3	b	34	85	7	7	5	-	1	1	2500	1	*
Spurn Head	1003.4	+2	WS	4	bc	36	85	7	-	-	8	0	4-6	-	1	2
Catterick	1000.2	-6	WS	5	b	37	85	9	5	6	3	Tr	1	2500	1	*
Tynemouth	999.4	+4	W	3	bc	38	75	7	2	-	-	4-6	4-6	2500	1	1
St Abbs Head	996.1	-6	WSW	4	bc	35	85	9	4	4	-	1	2-3	2500	0	2
Leuchars	994.6	-6	W	5	bc	35	92	8	8	4	-	2-3	2-3	1500	3	*
Renfrew (Abbots I.)	997.7	-2	SW	4	c/rs	35	92	6	6	2	-	7-8	9+	1500	1	*
Eskdalemuir	998.8	0	SWW	6	c	34	85	8	5	-	-	9	9	800	*	*
Point of Ayre	1001.5	-2	WN	6	c	38	85	8	8	-	-	7-8	7-8	2500	1	3
Tiree	992.3	0	WS	6	c	40	75	7	8	-	-	7-8	7-8	1500	1	5
Stornoway	989.9	-4	SW	3	c/pr	37	92	7	8	2	-	7-8	10	2500	1	2
Dalwhinnie	994.2	+2	SSW	3	c	32	97	7	4	7	-	2-3	7-8	2500	4	*
Aberdeen	993.6	-2	SW	2	c	36	75	7	7	-	-	7-8	7-8	1500	3	1
Wick	988.9	-6	SSW	4	c	35	85	8	5	7	4	4-6	7-8	1500	1	2
Lerwick	986.1	-10	SW	6	phr	40	85	8	8	7	-	4-6	7-8	1500	*	*
Blacksod Point	1003.2	-4	NW	6	cq	38	92	8	9	-	-	10	10	800	1	4
Malin Head	998.0	0	W	5	PHR	39	85	6	9	-	-	7-8	7-8	1500	1	5
Aldergrove	1001.3	-2	WSW	4	rs	34	97	6	6	-	-	10	10	800	1	*
Birr Castle	1005.9	0	W	2	pr	36	97	8	6	-	-	4-6	4-6	800	1	*
Valentia Obsy. †	1010.4	+2	WNW	5	bc/pr	44	65	8	9	-	-	4-6	4-6	1500	1	5
Roches Point	1010.3	0	NNW	3	bc	38	92	8	5	4	-	2-3	4-6	2500	1	3

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 25th Hrs. (36)
London (Kew)	48	36	29	4	0.4	0.0
Croydon	47	37	31	6	1	0.0
S. Farnborough	47	33	30	5	1	0.0
Boscombe Down	46	33	27	3	1	0.0
Calshot (Sthmtn.)	48	35	33	4	11	0.0
Lympne	44	36	31	5	1	0.0
Manston	46	36	32	3	5	0.0
Shoeburyness	47	38	32	4	2	0.0
Felixstowe	46	38	34	3	2	*
Gorleston	46	37	35	2	3	0.0
Mildenhall	47	35	30	2	2	0.0
Cranwell	46	33	30	1	-	0.0
Birmingham	46	33	30	2	0.1	0.0
Upper Heyford	48	32	25	1	0.5	*
Ross-on-Wye	47	35	31	2	0.2	0.0
Hartland Point	47	42	39	5	1	0.0
Bristol	46	35	30	1	3	0.0
Portland Bill	48	41	*	3	5	*
Plymouth	49	40	33	2	0.6	0.0
The Lizard	48	41	*	0.5	1	*
Scilly (St. Mary's)	49	41	*	1	0.3	0.0
Guernsey	49	44	38	1	1	0.0
Pembroke	47	42	*	4	0.3	0.0
Holyhead	46	40	37	1	-	0.0
Chester (Sealand)	49	37	29	0.5	0.1	0.3
Manchester	46	34	30	2	3	0.0
Spurn Head	45	36	*	1	Tr	0.0
Catterick	46	37	31	0.1	0.1	1.9
Tynemouth	47	37	31	Tr	-	6.0
St Abbs Head	44	34	*	Tr	-	*
Leuchars	45	33	30	Tr	-	6.9
Renfrew (Abbots I.)	43	33	31	4	9	2.6
Eskdalemuir	41	33	32	5	1	1.5
Point of Ayre	45	37	*	-	0.1	0.1
Tiree	43	35	32	2	4	4.4
Stornoway	43	35	*	1	3	4.0
Dalwhinnie	36	30	25	4	1	3.1
Aberdeen	46	32	23	-	-	7.7
Wick	42	33	*	-	-	*
Lerwick	44	36	*	2	.5	2.1
Blacksod Point	48	36	*	2	5	*
Malin Head	41	35	*	3	5	1.5
Aldergrove	43	33	31	3	2	1.4
Birr Castle	44	33	28	4	1	0.4
Valentia Obsy. †	47	40	34	2	1	1.1
Roches Point	47	37	*	1	0.4	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
		24 hrs. ended 9h.											
Kew	18	cmo	cm.r.r.cm	cir.m.bx	48	36	29	4	0.4	0.0	.	.	6
Croydon	217	cmo.r.r.	cr r.r.o.m	r.r.m.bv	47	37	31	6	1	0.0	.	.	4
Greenwich (Royal Observatory)	149	cr	crd	cid.b	47	36	30	6	0.5	0.0	92	82	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St James' Park)	27	*	*	*	48	37	29	6		0.0	91	85	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	48	36	32	1	3	0.0	85	73	*
Camden Square	110	c	c	*	47	37	32	4	1	*	*	82	*
Kensington	80	cr	cr	*	48	37	29	5	1	0.0	At 18h. 84	78	*
Hampstead Observatory	450	o	or	orb	46	35	29	2	1	0.0	*	86	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 25th

South Kensington Max.	Time.	Min.	Time.
< 0.3 whole period.			

Kew Observatory Max.	Time.	Min.	Time.
0.2	17h 25th	<0.1	0-7h 26th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 25th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 26th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1017.3	SW	4	c	46	1013.3	SW	4	c/r	43	48	43	-	6
Brussels	1013.5	SW	4	ir	45	1009.6	SW	4	rr	43	46	41	-	8
Berlin						1013.0	S	4	c	41	*	39		-
Zürich	1021.8	SE	1	z.	45						54		-	
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	1½ miles.
5 Poor visibility	2½ „
6 Moderate „	6¼ „
7 Good „	12½ „
8 Very good „	31 „
9 Excellent „	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 27th February, 1939.
No. 28221

OBSERVATIONS at 13h. G.M.T. 26th February

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1010·3	0	WSW	3	zo	46	55	6	8	-	[illegible]	7-8	7-8	2500
	Croydon	1011·2	+2	WSW	5	zo	45	65	6	2	-	-	7-8	7-8	4000
	S. Farnborough	1011·4	+2	W'S	4	c	47	55	8	4	-	-	7-8	7-8	2500
	Boscombe Down	1011·6	-2	W'S	4	bc	45	65	8	8	4	-	2-3	4-6	2500
	Calshot (Sthmtn.)	1012·6	+2	WSW	4	bc	50	55	8	2	3	-	4-6	4-6	2500
	Lympne	1012·4	+2	WSW	4	bc	48	55	8	1	-	-	2-3	2-3	1500
	Manston	1011·2	+2	SW'W	4	bc	48	55	7	2	-	-	4-6	4-6	2500
2	Shoeburyness	1010·7	+2	W'S	3	b	48	55	6	2	-	-	1	1	4000
	Felixstowe	1010·4	+2	WNW	4	bc	47	65	8	2	-	-	4-6	4-6	2500
	Gorleston	1009·0	0	W'N	4	bc	46	65	7	2	-	-	4-6	4-6	2500
	Mildenhall	1008·7	+2	WSW	5	c	47	65	8	8	-	-	7-8	7-8	4000
	Cranwell	1006·9	+6	SW'W	5	bc	46	65	7	2	-	-	4-6	4-6	2500
3	Birmingham	1008·3	0	WSW	3	bc	43	65	8	8	6	-	4-6	4-6	2500
	Upper Heyford	1009·0	-2	W'S	4	c	44	65	8	8	-	-	7-8	7-8	2500
4	Ross-on-Wye	1009·7	0	WSW	4	bcjp	43	75	8	2	-	-	2-3	4-6	4000
5	Hartland Point	1011·5	0	WNW	4	bc	44	85	8	8	6	-	4-6	4-6	1500
	Bristol	1011·5	-2	WSW	4	bc	46	65	8	8	6	-	4-6	4-6	1500
	Portland Bill	1012·6	+2	WSW	4	c	46	92	8	2	4	-	4-6	7-8	2500
	Plymouth	1013·8	+4	WNW	4	c/pr	46	75	8	9	-	-	9	9	1500
	The Lizard	1014·5	+6	W'S	5	bc	48	75	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	1014·6	+2	W	5	bc/pr	48	85	8	8	4	-	4-6	4-6	1500
	Guernsey	1014·8	+6	W'N	4	bc/pr	47	75	7	2	3	-	2-3	4-6	800
6	Pembroke	1010·7	+4	WNW	6	bcq	46	65	8	2	4	-	2-3	4-6	1500
7	Holyhead	1006·4	+2	W'S	5	c	42	75	8	2	3	4	4-6	7-8	2500
	Chester (Sealand)	1006·5	0	WSW	4	bc/pr	45	65	8	8	-	-	4-6	4-6	2500
8	Manchester	1005·7	-4	WSW	5	c	45	65	7	8	5	-	4-6	9	2500
10	Spurn Head	1004·8	0	W'S	5	bc	45	65	6	8	-	-	4-6	4-6	2500
	Catterick	1002·2	+10	W'S	6	bc/pr	44	65	8	2	-	3	4-6	4-6	2500
	Tynemouth	1000·4	0	W	6	bcq	42	65	7	2	-	-	4-6	4-6	1500
11	St. Abbs Head	996·5	-4	WSW	7	pr	41	65	9	8	6	1	2-3	4-6	2600
	Leuchars	997·1	+12	WSW	5	bc	41	85	8	8	7	6	4-6	4-6	1500
12	Renfrew (Abbots I.)	998·4	+4	SW	4	cjp	41	75	7	9	6	-	4-6	7-8	1500
	Eskdalemuir	1000·2	+4	WSW	6	c	38	65	8	8	-	-	9+	9+	1500
	Point of Ayre	1003·4	+6	W'N	6	c	43	75	8	8	-	-	9+	9+	2500
13A	Tiree	996·7	+10	W	6	c/ph	38	85	7	9	-	-	7-8	7-8	1500
13B	Stornoway	990·3	+2	SW	5	PHR	37	85	7	9	-	-	9+	9+	1500
15	Dalwhinnie	995·8	+6	SW	4	c	33	97	7	8	2	1	7-8	10	2600
	Aberdeen	994·0	+2	W'S	4	b	44	65	8	1	6	3	4-6	7-8	1600
	Wick	990·6	+8	SW	5	bc	43	65	8	6	7	1	2-3	4-6	1600
16	Lerwick	986·0	0	SSW	6	c	42	75	8	8	7	-	4-6	7-8	1600
17	Blacksod Point	1006·1	+4	W	7	cq	44	65	7	9	-	-	10	10	800
18	Malin Head	998·9	+4	W	4	c/phr	41	75	7	2	-	3	4-6	7-8	2500
	Aldergrove	1002·6	+4	WSW	5	c	37	92	9	5	-	-	9+	9+	1500
19	Birr Castle	1007·8	*	SW	3	rs	39	92	7	6	2	-	4-6	10	800
20	Valentia Obsy. †	1012·0	+10	NW	5	bc/pr	42	75	8	8	-	-	2-3	2-3	1600
	Roches Point	1011·3	+6	NW	4	c	44	85	8	3	4	3	2-3	7-8	1600

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1011·3	+4	WSW	3	zo	44	65	6	5	-	-	4-6	4-6	2500	1	*
	Croydon	1011·4	+6	SW	3	zo	44	65	6	4	4	-	1	2-3	4000	1	*
	S. Farnborough	1011·6	+4	SW'S	3	c	42	75	8	4	3	-	2-3	7-8	2500	1	*
	Boscombe Down	1012·0	+6	WSW	4	bc	41	75	7	5	4	3	2-3	4-6	2500	0	*
	Calshot (Sthmtn.)	1013·1	+10	WSW	3	bc	44	85	8	5	4	-	2-3	4-6	2500	1	2
	Lympne	1013·0	+6	SW'W	4	bc	40	85	8	3	6	-	2-3	4-6	2500	1	§ 3
	Manston	1011·5	+6	SW'W	3	bc	41	85	7	3	6	3	2-3	4-6	4000	1	*
2	Shoeburyness	1011·4	+14	W	2	iro	41	85	7	5	-	-	9+	9+	2500	1	*
	Felixstowe	1010·5	+4	W	4	pr	44	65	6	8	-	-	4-6	4-6	1500	0	3
	Gorleston	1008·6	+6	SW'W	3	pr	44	65	6	8	-	-	9	9	2500	1	2
	Mildenhall	1009·0	+10	SW'S	3	b/pr	39	85	8	5	-	1	Tr	1	4000	1	*
	Cranwell	1007·1	+4	SW'W	4	b	39	85	7	5	4	3	Tr	Tr	4000	1	*
3	Birmingham	1009·1	+4	SW	3	bc	41	65	8	4	7	-	4-6	4-6	2500	1	*
	Upper Heyford	1010·8	+10	WSW	3	bc	39	85	7	5	-	3	2-3	4-6	4000	1	*
4	Ross-on-Wye	1010·6	+4	SW'W	2	bc	40	75	8	8	6	-	4-6	4-6	2500	1	*
5	Hartland Point	1012·0	+4	NW	4	cjp	43	85	8	3	6	-	7-8	7-8	1500	1	3
	Bristol	1012·4	+6	WSW	4	pr	41	85	7	5	7	-	7-8	7-8	1500	1	*
	Portland Bill	1012·0	+10	WSW	4	c	45	92	8	5	-	-	4-6	10	2500	1	3
	Plymouth	1014·1	+8	W'S	4	bc	44	75	7	8	7	-	2-3	4-6	1500	1	2
	The Lizard	1015·1	+6	W	4	pr	44	85	7	8	2	-	7-8	9+	1500	1	2
	Scilly (St. Mary's)	1014·8	+2	WNW	5	c/pr	44	92	8	8	6	3	4-6	7-8	1500	1	3
	Guernsey	1015·4	+6	W'S	3	pr	44	85	6	5	3	-	4-6	7-8	1500	1	3
6	Pembroke	1010·5	+2	WNW	6	bcq	44	65	8	9	-	-	4-6	4-6	1500	1	3
7	Holyhead	1006·5	+4	W	5	bc	42	65	8	2	-	3	2-3	4-6	2500	1	3
	Chester (Sealand)	1007·1	+6	SW'W	3	bc	42	65	8	8	4	-	4-6	4-6	2500	0	*
8	Manchester	1006·8	+6	WSW	4	zo	41	75	6	7	3	-	4-6	9+	2500	1	*
10	Spurn Head	1006·1	+8	WSW	3	bc	39	75	6	-	4	8	0	4-6	-	0	3
	Catterick	1003·5	+8	WSW	5	bc/pr	38	75	8	3	-	3	4-6	4-6	1500	1	*
	Tynemouth	1001·9	+6	W	5	bc/pr	40	65	7	2	-	-	4-6	4-6	1500	1	2
11	St. Abbs Head	998·6	+6	WSW	6	cq	36	75	8	9	2	9	4-6	9	1500	0	4
	Leuchars	997·8	+10	WSW	4	bc	36	92	8	8	7	3	2-3	4-6	1500	1	*
12	Renfrew (Abbots I.)	1000·2	+10	SW'S	3	c/pr	37	85	6	9	7	6	4-6	9	1500	2	*
	Eskdalemuir	1002·0	+10	W'N	4	c/ps	33	92	8	8	-	-	7-8	7-8	800	*	*
	Point of Ayre	1003·8	+8	WNW	6	c	41	75	8	8	-	7	4-6	10	2500	0	3
13A	Tiree	996·2	+4	W'S	6	c	40	75	7	8	6	-	7-8	7-8	1500	0	5
13B	Stornoway	991·8	+14	SW	6	rs	37	85	6	5	2	-	9	10	1500	1	3
15	Dalwhinnie	996·8	+6	SW	4	c	31	97	7	8	7	-	4-6	10	2600	7	*
	Aberdeen	995·7	+12	WSW	2	bc	39	65	7	7	6	3	2-3	4-6	2500	1	1
	Wick	991·0	+6	SW	4	c	37	75	8	5	7	9	4-6	7-8	1500	1	2
16	Lerwick	987·6	+6	SSW	6	c	40	76	8	8	7	-	4-6	7-8	800	*	*
17	Blacksod Point	1006·1	+12	W	6	PHR	38	85	6	6	-	-	10	10	<150	2	4
18	Malin Head	1000·6	+6	W	5	cjp	41	75	6	3	-	-	9+	9+	800	1	5
	Aldergrove	1004·1	+10	W	3	c/ps	34	97	8	8	-	-	9	9	1500	*	*
19	Birr Castle	1008·7	+10	WSW	2	c/ps	36	97	8	8	8	-	4-6	7-8	1500	1	*
20	Valentia Obsy. †	1013·1	+10	NW'W	5	c/phr	43	75	8	9	-	-	9	9	2500	1	5
	Roches Point	1012·3	+8	NW	4	bc	43	75	8	3	4	-	2-3	4-6	1500	1	3

PAST 24 HOURS. Weather.

District	Stations	7h.—13h. 26th (37)	13h.—18h. 26th (38)	18h. 26th – 1h. 27th (39)	1h.—7h. 27th (40)
1	London (Kew)	bxbczy	bcybczo	bczobbc	bcbmox
	Croydon	b,bcmoy	bczoyprob	bczobw	bw
	S. Farnborough	bbcy	bcproyc	c,bw	bx
	Boscombe Down	bbc	bc	bc	bcx
	Calshot (Sthmtn.)	bbcy	bc	bccbcbw	bw
	Lympne	bbcy	bcybbc	bc	bcbwx
	Manston	bbcy	bcybc	bcc,b	bwx
2	Shoeburyness	bmo	bmobcpr	cirobc	bcbx
	Felixstowe	bbc	bcybcpr	bcb	bxb
	Gorleston	bcbbc	bccpro	cprobc	bcbx
	Mildenhall	bbmo bbc	bcycprcb	bbc	bcbw
	Cranwell	bbccbc	bccprob	b	bx
3	Birmingham	bcc	bc	bcb	bx
	Upper Heyford	bbc	proqbc	bcb	bbmox
4	Ross-on-Wye	bbc	pbcc	bcb	b
5	Hartland Point	bccpbc	bccpbc		cbc
	Bristol	bbciprh	bccpr	cprbcb	bxbc
	Portland Bill	bcc	c	cbc	bc
	Plymouth	bcphrc	cprobc	bcb	bbc
	The Lizard	prbc	bcpr	bc	prcbc
	Scilly (St. Mary's)	bcpq	bccpq	cpqbc	bccp.q
	Guernsey	bccpr	bccpr	cprbc	bcc
6	Pembroke	bcq	bcprox	bcq	bc
7	Holyhead	bcc	cprobc	bbc	bc
	Chester (Sealand)	bxybcpro	probcy	bcb	bx
8	Manchester	bbzo,c	cbcyc	czomo	cmopro,bmo
10	Spurn Head	bcc	cproc	b	bw
	Catterick	bpropr	bcproq	bcprb	b
	Tynemouth	bcq	bcp	bc	bc
11	St. Abbs Head	bcq	cq	bbc	bc
	Leuchars	bccbc	proscbc	bcbx	bx
12	Renfrew (Abbots I.)	phqPRSp	cPRSqlpr	cmobcpro	cpropsobc
	Eskdalemuir	cpshc	prsopshc	cpso	cpso
	Point of Ayre	c	c	cbc	bcb
13A	Tiree	cphq	cphrq	cphtl	coir
13B	Stornoway	cPHRq	crsrs	crsrsphrq	cbcPHqpro
15	Dalwhinnie	cSSiS	ciS	*	ciS
	Aberdeen	cbcy	bcybc	bcczo	cbcbx
	Wick	cbc	bcc	probc	bcl
16	Lerwick	cphr	cphr	cphpr	propr
17	Blacksod Point	PHtc	PHq	PHRq	PHRq
18	Malin Head	cphrc	cPHC	cTLHclphrc	clphroc
	Aldergrove	rosoisc	psprops	cbcbx	b,cprobc
19	Birr Castle	cprs	cprs	prsbc	bccx
20	Valentia Obsy. †	phrproqbc	prphroqc	cphro,qbc	bcproqc
	Roches Point	phPHRc	probc	bc	bcc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

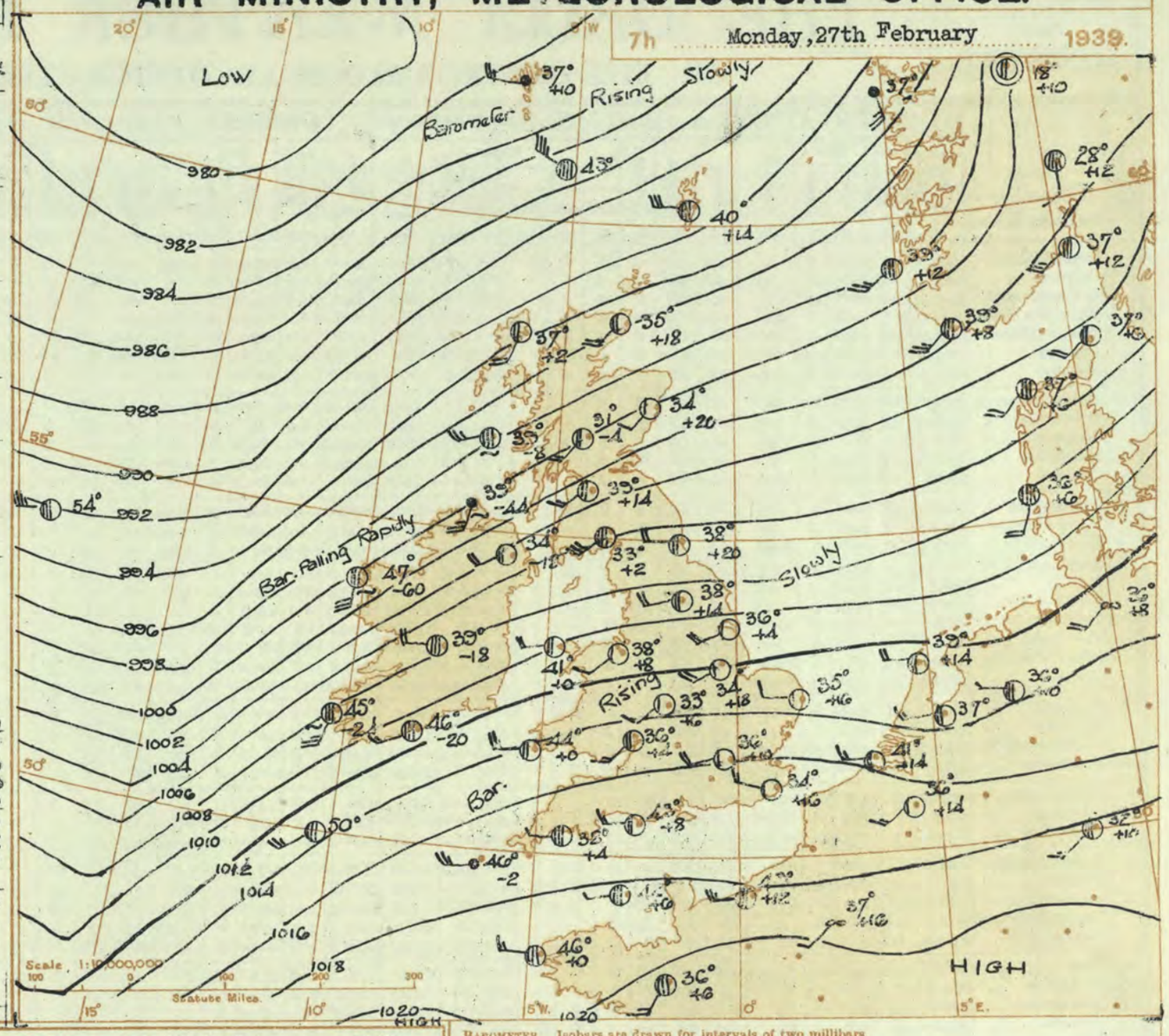
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 26th February 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 26th to 9h. 27th	Temperature. (°F.) Max. 9h.—17h. 26th	Rainfall. (mm.) Night 17h. 25th to 9h. 26th	Rainfall. (mm.) Day. 9h.—17h. 26th	Sunshine. (Hrs.) Sunrise to 17h. 26th	Sunshine. (Hrs.) Sunrise to Sunset. 25th
1	Tunbridge W.	bbc	bc	33	48	2	-	7.1	0.0
	Bournemouth	b	bpbc	36	49	3	0.3	7.5	0.0
	Ventnor ...	b	bbc	38	48	3	-	8.5	0.0
	Southsea ...	b	bbcb	38	51	4	-	9.4	0.0
	Bognor Regis	b	bbcb	37	49	4	-	8.5	0.0
	Littlehampton	b	bbc	36	49	4	-	8.8	0.0
	Worthing ...	b	b	35	50	5	-	8.3	0.0
	Brighton ...	b	b	39	48	4	-	9.2	0.0
	Eastbourne† ...	b	b	38	49	6	-	9.4	0.0
	Hastings† ...	bbc	bbc	37	50	7	-	9.1	0.0
	Folkestone ...	b	bbc	34	49	4	-	8.5	0.0
	Dover ...	bbc	bc	39	50	6	-	9.4	0.0
	Deal	b	bcb	38	50	2	-	9.3	0.0
	Ramsgate ...	b	bc	37	50	5	-	9.3	0.0
	Margate ...	bbc	bc	38	50	12	-	9.3	0.0
2	Southend ...	bbc	bbc	36	49	3	-	8.4	0.0
	Clacton-on-Sea	b	bbc	37	49	3	-	9.1	0.0
	Dovercourt ...	bcp	bc	36	49	3	-	9.1	0.0
	Lowestoft ...	b	bbc	35	48	3	-	9.1	0.0
	Skegness ...	bbc	cbb	33	47	0.3	-	8.7	0.0
	Mablethorpe...	b	bcp	33	48	-	Trace	8.4	0.0
	Cleethorpes ...	bbc	bc	34	49	Trace	-	7.6	0.0
3	Leamington S.	bcc	bcc	34	48	0.6	-	7.8	0.0
4	Cheltenham†	bbcc	cbc	35	47	Trace	0.2	8.0	0.0
5	Bath	bbcp	pcb	36	49	2	0.3	7.3	0.0
	Weymouth ...	b	b	38	49	3	-	7.2	0.2
	Jersey ...	cbbc	bc	42	50	8	-	9.2	0.0
	Torquay ...	bbcp	bbcb	36	50	1	0.3	7.1	0.0
	Falmouth	bcpgo	bcpgo	39	50	0.6	2	5.5	0.0
	Penzance ...	bcip	bcipc	39	51	1	2	5.6	0.0
	St. Ives ...								
	Bude... ...	bcp	bcp	43	47	5	1	5.2	0.0
	Ilfracombe ...	rcbc	bcpbc	43	47	2	0.4	6.5	0.0
6	Aberystwyth	cbcc	bcc	41	45	1	-	4.1	0.0
7	Llandudno ...	cbc	bcbc	40	44	2	-	4.4	0.0
	Colwyn Bay...	bcbcb	bcbcc	38	46	0.3	-	4.8	0.0
	Rhyl	bbc	cbc	38	46	1	-	6.7	0.0
8	Wallasey ...	bbcb	bc	38	46	3	-	7.7	0.0
	Southport ..	cbcc	c	35	45	2	-	5.6	0.2
	Blackpool ..	cipch	ipbch	40	44	1	1	4.0	0.0
	Morecambe ...	bc	bcph	37	44	1	Trace	4.5	0.1
9	Ilkley... ..	pchp	c	34	42	8	3	4.2	0.3
	Harrogate ...	cbprs	cbprs	34	43	3	2	5.6	0.6
10	Berwick-on-T.	b	bchc	35	44	-	Trace	6.8	6.5
11	Dunbar ...	bc	cprs	34	43	-	2	5.6	6.8
12	Troon... ...	cco	corso	36	42	5	3	1.6	1.8
	Douglas ...	cpr	bcp	39	44	Trace	-	6.1	0.1

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



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 27th February, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Wind between south and west fresh at times; mainly bright but a short period of rain today; rather cold; frost at night.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Wind between south and west strong at times; mainly bright but a short period of rain, or sleet on high ground, today; rather cold; frost at night.
12 S.W. Scotland & Isle of Man ▼ 13 A. W. Scotland ▼ B.N.W.Scotland. ▼ 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland ▼ 18 N. E. Ireland ▼	Wind between south and west strong to gale; some bright periods but occasional rain or showers of hail or sleet; rather cold; frost at night.
19 S. E. Ireland 20 S. W. Ireland ▼	Wind west fresh or strong or gale at times; showers of hail or rain but bright intervals; rather cold; frost at night.

GENERAL INFERENCE.

A trough of low pressure off the west of Ireland will move across the country before midnight. It will be accompanied by a belt of precipitation, rain in the South or sleet in places in Scotland. Apart from this short period of rain, there will be mainly bright rather cold weather with frost at night.

FURTHER OUTLOOK.

Rather cold westerly winds with unsettled weather but bright periods.

Time of Issue of Gale Warning.

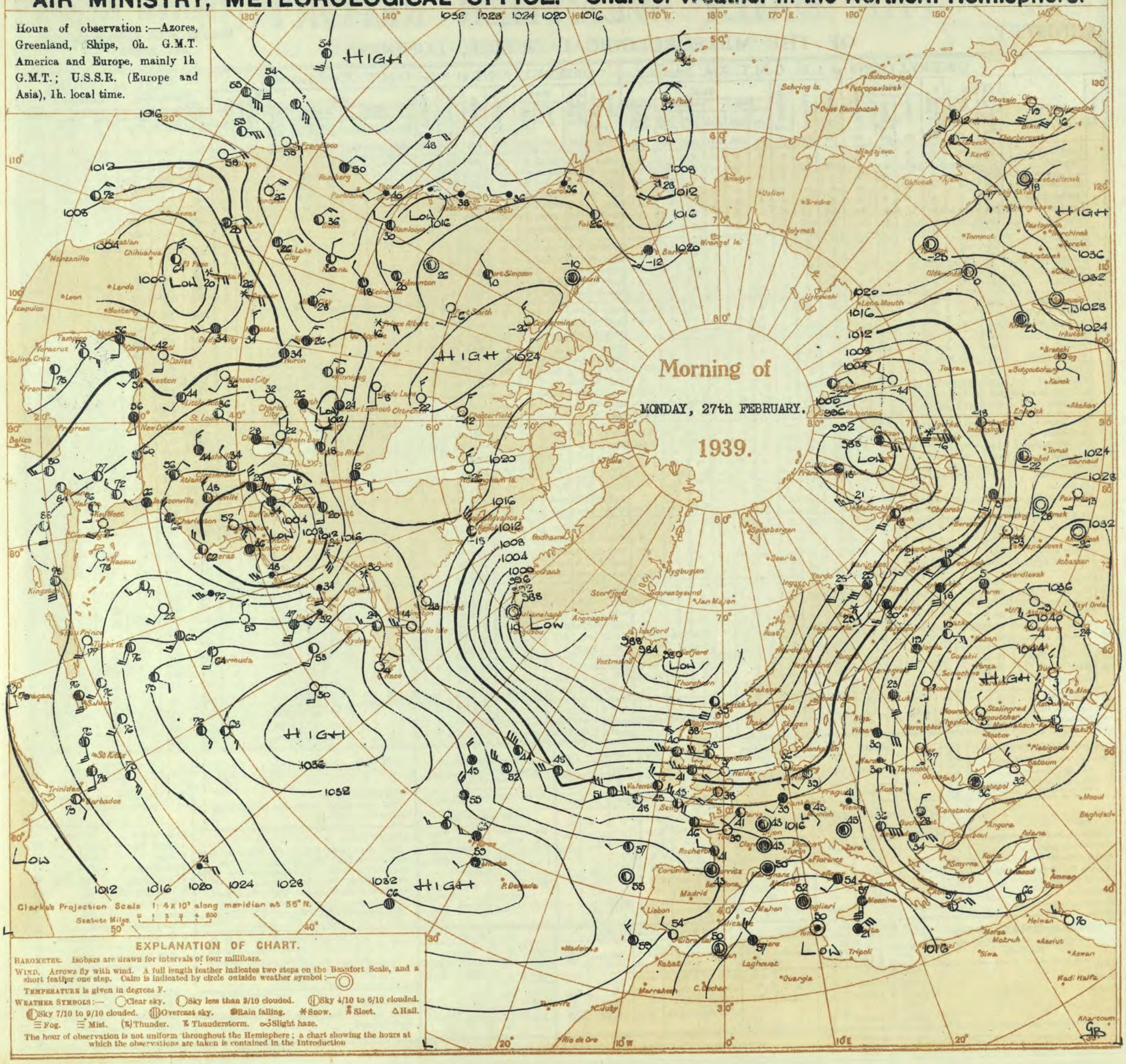
▼ South Cone hoisted at 0145 on 27th in districts 12, 13A, 13B, 17, 18 and part of 20.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Monday 27th February, 1939.
No. 28221

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1013·8	+10	SW'W	4	b	38	85	8	-	3	-	0	Tr	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1014·6	+10	W	4	bc	38	75	8	-	3	-	0	4-6	-
	Manston ...	154	1013·5	+10	W'S	3	b	37	85	7	-	-	1	0	1	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1011·0	+8	W	3	bc	37	85	7	5	-	-	2-3	2-3	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299														
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1015·7	+10	WNW	3	bc	43	85	8	1	-	-	2-3	2-3	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1017·3	+10	W	4	bc	43	85	8	8	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	1018·0	+10	NW'W	5	bc	43	92	8	8	4	-	2-3	2-3	1500
	Guernsey ..	175	1017·1	+6	W'S	3	bc	44	85	9	1	7	-	2-3	4-6	2500
6	Pembroke ...	142	1015·0	+10	NW	5	bcq	43	75	7	2	6	-	2-3	4-6	1500
7	Holyhead ...	26	1010·4	+18	W	5	c	41	75	8	2	-	-	7-8	7-8	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1007·4	+4	WSW	4	b	37	85	6	-	-	-	0	0	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1003·9	+4	W	4	bc	38	75	7	2	-	-	4-6	4-6	2500
11	St Abbs Head ..	280	1000·8	+6	WSW	5	bc	35	85	8	7	6	-	2-3	2-3	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1006·7	+16	W'N	6	bc	39	75	8	8	-	-	4-6	4-6	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	993·7	+10	SW	4	phr	38	92	6	8	-	-	9	9	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	993·2	+10	SW	4	bc	35	85	8	5	4	-	2-3	4-6	1500
16	Lerwick ...	156	988·7	+2	SSW	6	c	39	85	8	8	7	-	4-6	9	800
17	Blacksod Point	18	1007·3	-12	W	7	cq	43	85	7	9	-	-	10	10	800
18	Malin Head ...	84	1003·7	+16	W	5	chp	40	85	6	9	-	-	9	9	2500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1014·0	0	NW'W	4	bc	45	97	8	8	9	-	4-6	4-6	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1016·1	+14	SW'S	2	zo	34	92	6	-	-	4	0	1	-	1	*
Croydon ...	1015·8	+10	WSW	4	b	36	85	7	-	4	-	0	Tr	-	1	*
S. Farnborough	1016·4	+10	W'S	2	b	32	92	8	-	4	1	0	Tr	-	3	*
Boscombe Down	1016·9	+10	SW	2	bc	34	85	7	-	-	6	0	4-6	-	3	*
Calshot (Sthmtn.)	1016·7	+4	WSW	3	b	37	85	7	1	-	-	Tr	Tr	2500	1	1
Lympne ...	1017·3	+16	W'N	3	b	34	92	8	-	-	-	0	0	-	1	§1
Manston ...	1016·3	+20	WSW	3	b	33	92	6	-	-	-	0	0	-	1	*
Shoeburyness ...	1015·4	+14	SW	2	b	37	85	7	-	-	-	0	0	-	1	*
Felixstowe ...	1015·4	+22	SW'W	4	b	35	85	7	-	-	-	0	0	-	1	3
Gorleston ...	1013·6	+16	W	2	b	35	85	7	-	4	-	0	Tr	-	1	2
Mildenhall ...	1014·0	+16	SW'S	3	b	33	92	7	-	-	-	0	0	-	1	*
Cranwell ...	1011·5	+18	SW'W	4	b	34	85	7	-	-	-	0	0	-	1	*
Birmingham ...	1013·8	+6	SW	2	b	33	92	8	-	-	5	0	1	-	1	*
Upper Heyford	1015·5	+12	SW'S	3	zo	31	97	6	-	-	5	0	1	-	3	*
Ross-on-Wye	1014·3	+4	SW	3	bc	36	85	7	4	-	5	Tr	2-3	2500	1	*
Hartland Point	1015·0	0	W	5	bc	43	75	8	1	-	8	1	4-6	2500	1	3
Bristol ...	1015·8	+2	SW'W	3	bc	37	85	8	8	-	6	2-3	4-6	2500	1	*
Portland Bill ...	1017·1	+8	W	3	bc	43	85	8	5	-	-	4-6	4-6	2500	1	3
Plymouth ...	1017·4	+4	W	1	c	38	92	8	5	7	-	2-3	7-8	2500	1	1
The Lizard ...	1017·3	+4	SW	4	bc	44	85	8	8	6	-	4-6	4-6	2500	1	2
Scilly (St. Mary's)	1017·4	-2	WSW	5	pr	46	85	8	8	6	-	4-6	9	1500	1	3
Guernsey ..	1018·1	+6	WSW	1	c	42	85	8	2	1	-	4-6	7-8	2500	1	2
Pembroke ...	1014·5	0	W	5	bc	44	65	8	2	4	-	2-3	4-6	1500	1	2
Holyhead ...	1010·5	0	WSW	4	bc	41	85	8	2	8	1	Tr	4-6	2500	1	2
Chester (Sealand)	1011·6	+8	SW	2	b	38	75	8	5	-	-	Tr	Tr	2500	0	*
Manchester ...	1011·3	+14	S'W	3	zo	35	85	6	-	4	-	0	Tr	-	1	*
Spurn Head ...	1010·1	+4	SW'W	4	b	36	85	7	-	-	-	0	0	-	1	3
Catterick ...	1008·0	+14	WSW	4	bc	38	75	8	5	-	-	2-3	2-3	1500	3	*
Tynemouth ...	1006·0	+20	W	4	bc	38	75	7	2	-	-	4-6	4-6	1500	1	1
St Abbs Head ..	1003·2	+10	SW	4	bc	35	85	8	8	3	-	2-3	4-6	1500	0	3
Leuchars ...	1002·0	+20	WSW	5	b	35	92	8	8	3	-	1	1	2500	3	*
Renfrew (Abbots I.)	1005·8	+14	SW	3	bc	39	85	7	8	3	-	2-3	4-6	2500	2	*
Eskdalemuir ...	1005·9	+2	SW'W	6	c	33	85	7	5	-	-	10	10	800	7	*
Point of Ayre...	1006·6	-4	W'N	6	b	39	85	8	4	-	-	1	1	4000	0	3
Tiree ...	996·4	-8	W'S	5	9/s	39	97	6	-	2	-	10	10	1500	1	5
Stornoway ...	994·7	+2	SSW	4	bc	37	92	8	5	7	-	4-6	4-6	2500	1	2
Dalwhinnie ...	1000·7	-4	SW	3	bc	31	97	7	4	4	-	2-3	4-6	2500	9	*
Aberdeen ...	1000·4	+20	SW'S	2	b	34	85	7	-	6	-	0	Tr	-	3	1
Wick ...	995·2	+18	SW	4	bc	35	85	8	5	7	4	2-3	4-6	1500	1	2
Lerwick ...	990·1	+14	W	6	c/pr	40	85	8	8	7	-	4-6	9	800	1	*
Blacksod Point	1000·2	-60	S	6	cq	47	85	7	9	-	-	10	10	800	1	4
Malin Head ...	999·3	-49	S'W	5	ro	39	92	6	3	-	-	9+	9+	800	1	5
Aldergrove ...	1005·1	-18	SW'W	4	bc	34	92	7	8	3	-	2-3	4-6	1500	1	*
Birr Castle ...	1007·4	-18	W	4	c	39	85	8	5	-	-	10	10	2500	1	*
Valentia Obsy. †	1008·3	-24	SSW	5	c	45	85	8	8	-	-	10	10	1500	1	4
Roches Point	1011·2	-20	WSW	3	c	46	85	8	5	2	-	4-6	10	1500	1	3

PAST 24 HOURS.

Stations	Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 26th Hrs. (36)
London (Kew)	48	34	26	-	Tr	6·8
Croydon ...	49	30	30	Tr	-	8·0
S. Farnborough	50	29	27	Tr	Tr	8·8
Boscombe Down	47	33	27	-	Tr	8·0
Calshot (Sthmtn.)	51	35	32	Tr	-	8·0
Lympne ...	48	34	28	-	Tr	8·7
Manston ...	49	31	28	-	-	9·6
Shoeburyness ...	49	37	30	Tr	0·1	*
Felixstowe ...	48	35	31	Tr	-	*
Gorleston ...	48	33	31	Tr	0·1	9·0
Mildenhall ...	49	32	27	0·5	Tr	8·6
Cranwell ...	47	33	29	Tr	-	7·3
Birmingham ...	45	32	28	-	-	6·8
Upper Heyford	48	29	16	0·1	-	*
Ross-on-Wye	47	35	30	0·1	-	7·3
Hartland Point	45	40	38	1	0·1	4·1
Bristol ...	47	35	29	2	0·1	6·5
Portland Bill ...	47	40	*	-	-	*
Plymouth ...	46	35	30	1	Tr	5·4
The Lizard ...	49	41	*	0·5	1	5·9
Scilly (St. Mary's)	49	40	*	2	1	5·8
Guernsey ..	50	41	36	0·4	1	9·4
Pembroke ...	46	40	*	0·6	Tr	5·7
Holyhead ...	44	39	36	Tr	-	1·9
Chester (Sealand)	47	36	28	Tr	0	7·6
Manchester ...	46	34	28	-	0·2	4·7
Spurn Head ...	47	34	*	Tr	Tr	8·2
Catterick ...	45	36	32	0·1	0·3	8·8
Tynemouth ...	44	37	32	Tr	-	6·7
St Abbs Head ..	43	33	*	0·1	-	*
Leuchars ...	42	34	30	0·2	-	5·8
Renfrew (Abbots I.)	41	34	32	7	2	1·5
Eskdalemuir ...	39	32	28	6·4	3	0·5
Point of Ayre...	46	37	*	-	-	3·3
Tiree ...	42	37	34	4	2	1·9
Stornoway ...	43	36	*	2	3	2·9
Dalwhinnie ...	45	36	32	0·1	0·3	8·8
Aberdeen ...	44	37	32	Tr	-	6·7
Wick ...	44	33	26	-	-	3·4
Lerwick ...	44	34	*	-	Tr	*
Blacksod Point	44	35	*	3	1	0·9
Malin Head ...	50	36	*	4	5	*
Aldergrove ...	43	35	*	4	1	2·4
Birr Castle ...	40	33	30	3	0·1	1·6
Valentia Obsy. †	41	33	26	3	0·2	2·5
Roches Point	45	40	34	2	1	3·6
	45	36	*	2	-	*

LONDON OBSERVATIONS

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

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. Yesterday	Humidity 15h. G.M.T. % Yesterday	Humidity 9h. G.M.T. % To-day	Visibility 9h. To-day
Kew ...	18	bx bczoy	bcybczo	bczobcnx	48	34	26	-	Tr	6·8	*	*	6
Croydon ...	217	b bcnoy	bczypro b	bczobw	49	30	30	Tr	-	8·0	*	*	6
Greenwich (Royal Observatory) ...	149	bbc	bcrby	cbf	50	35	29	Tr	-	7·0	55	76	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	6·8	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	49	35	28	Tr		6·3	69	83	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	46	34	31	0·2	-	6·4	55	73	*
Camden Square ...	110	b	bc	*	50	35	30	Tr	*	*	*	82	*
Kensington ...	80	b	br	*	50	35	29	0·1	-	6·3	At 18h. 67	79	*
Hampstead Observatory ...	450	bcpl	bc	bc	48	33	29	0·3	-	7·1	*	87	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.	Kew Observatory Max.	Time.	Min.	Time.
0·3	18h. 26th	<0·3	1-4h. on 27th	0·2	18-19h. 26th	<0·1	0-3h. on 27th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 26th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 27th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	1015·8	WNW	2	b	46	1019·9	SW	1	zo	37	54	37	1	-
Brussels ...	1013·6	WSW	3	b	41	1016·6	SW	3	b	36	50	36	-	2
Berlin ...	1013·9	SSW	3	ro ro	45	1015·0	WSW	2	zo	41	48	*	Tr	*
Zurich ...	1018·7	E	1	c	45	1021·8	WSW	1	c/pr	39	50	37	0·3	5
Rome ...	1017·9	WNW	1	o	55						*	*	-	

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 28th February, 1939.
No. 28222

OBSERVATIONS at 13h. G.M.T. 27th February

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1014·9	-14	SSW	4	z.	48	55	6	1	7	6	1	9+	4000
	Croydon	1015·7	-12	SWW	4	c	49	45	8	1	4	6	1	9+	4000
	S. Farnborough	1015·2	-16	SW	3	c	47	65	8	1	3	8	2-3	10	4000
	Boscombe Down	1015·4	-16	SSW	4	c	46	75	7	1	1	6	2-3	9+	2500
	Calshot (Sthmtn.)	1017·0	-6	SSW	3	c	49	65	8	1	-	7	1	10	2500
	Lympne	1017·4	-6	WSW	4	e	47	55	8	7	-	6	4-6	7-8	2500
	Manston	1016·1	-10	SWW	4	c	47	65	8	7	-	6	4-6	7-8	2500
2	Shoeburyness	1015·7	-10	SW	3	bc	48	55	6	1	-	4	2-3	4-6	2500
	Felixstowe	1015·5	-6	WS	4	bc	47	55	7	1	-	6	Tr	4-6	4000
	Gorleston	1014·1	-6	WSW	3	bc	47	45	7	1	-	1	2-3	2-3	2500
	Mildenhall	1013·7	-12	SWW	4	c	47	65	8	1	-	6	Tr	7-8	4000
	Cranwell	1011·6	-10	SWS	4	c	44	75	7	-	5	6	0	9+	-
3	Birmingham	1011·9	-8	S	4	c	43	65	6	5	3	-	2-3	9+	1500
	Upper Heyford	1014·7	-12	SSW	3	e	46	65	7	1	3	8	2-3	9	1500
4	Ross-on-Wye	1011·9	-20	SSW	5	cq	45	65	7	7	1	7	1	9+	2500
5	Hartland Point	1011·5	-26	SW	5	e	47	85	8	5	8	-	4-6	9	1500
	Bristol	1014·4	-14	SWW	4	c	48	65	8	5	7	-	4-6	7-8	2500
	Portland Bill	1015·0	-12	WSW	4	c	47	85	8	5	2	-	4-6	10	2500
	Plymouth	1014·2	-22	SSW	4	c	48	85	8	5	7	2	1	10	2500
	The Lizard	1013·4	-24	SSW	5	e	49	85	8	8	2	-	7-8	9+	2500
	Scilly (St. Mary's)	1012·6	-28	SWS	5	c	50	85	8	8	6	-	4-6	9+	1500
	Guernsey	1017·5	-12	SW	2	c	47	85	7	5	-	-	9+	9+	2500
6	Pembroke	1009·7	-16	SW	6	cq	47	85	7	5	2	-	7-8	9+	1500
7	Holyhead	1005·8	-30	SSW	6	e	47	85	7	9	1	-	4-6	9+	1500
	Chester (Sealand)	1008·6	-24	SSW	4	c	49	55	8	5	7	-	7-8	9+	4000
8	Manchester	1008·9	-14	SW	4	c	45	55	7	5	7	-	4-6	9+	4000
10	Spurn Head	1010·2	-4	SW	4	c	48	55	6	4	6	1	4-6	7-8	4000
	Catterick	1006·7	-16	SWS	4	zo	45	65	6	8	9	-	7-8	9+	1500
	Tynemouth	1004·5	-20	WSW	6	bcq	47	55	7	2	-	-	4-6	4-6	2500
11	St. Abbs Head	999·1	-24	SW	7	cq	44	75	8	8	2	-	7-8	9+	1500
	Leuchars	997·8	-34	SSW	5	roro	42	85	7	5	1	-	9	9+	800
12	Renfrew (Abbots I.)	997·2	-32	SSW	6	rr	43	85	6	-	2	-	10	10	800
	Eskdalemuir	1001·9	-20	SSW	7	rr	39	92	6	6	-	-	10	10	800
	Point of Ayre	1002·1	-30	SWW	7	c	49	75	7	8	1	-	4-6	7-8	2500
13A	Tiree	992·2	+4	SWS	4	ir	42	92	7	6	7	-	7-8	9	1500
13B	Stornoway	990·1	-4	SSW	5	rs	43	85	7	5	2	-	2-3	10	1500
15	Dalwhinnie	994·5	-40	SW	3	ss	34	97	5	6	-	-	10	10	800
	Aberdeen	996·7	-34	SSW	4	roro	39	85	6	6	2	-	9	10	450
	Wick	992·0	-20	S	6	RR	39	92	6	5	2	-	9	10	800
16	Lerwick	993·0	+6	WSW	6	c	41	85	8	8	2	-	4-6	9	800
17	Blacksod Point	998·0	-4	SW	4	cq	48	65	8	9	-	-	9	9	450
18	Malin Head	995·4	+4	SW	4	roro	41	97	7	6	2	-	7-8	10	2500
	Aldergrove	998·0	-34	SW	6	iro	46	75	7	6	-	-	10	10	1500
19	Birr Castle	1001·7	-32	WSW	4	c/pr	49	75	8	6	7	-	4-6	9	800
20	Valentia Obsy. †	1003·6	-18	SWW	5	bc	47	85	8	8	-	-	4-6	4-6	1500
	Roches Point	1005·4	-24	WSW	5	bc	49	85	8	3	4	3	2-3	4-6	1500

OBSERVATIONS at 18h. G.M.T. 27th February

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1012·0	-14	SSW	4	zo	45	75	6	5	2	-	4-6	9+	2500	1	*
Croydon	1012·6	-24	SSW	4	zo	45	75	6	5	7	2	2-3	9+	2500	1	*
S. Farnborough	1012·0	-22	SSW	4	c	45	75	8	5	7	-	7-8	9+	4000	1	*
Boscombe Down	1011·0	-26	SW	4	iro	45	85	7	5	2	-	7-8	10	800	1	*
Calshot (Sthmtn.)	1013·7	-20	SW	5	bc	45	85	7	6	7	7	1	4-6	1500	1	3
Lympne	1015·5	-8	SSW	4	c	41	85	7	5	7	6	4-6	7-8	1500	1	§ 3
Manston	1014·2	-2	SSW	4	c	43	85	7	8	7	6	1	9+	2500	1	*
Shoeburyness	1013·2	-12	SW	4	c	44	85	7	5	-	7	2-3	9+	2500	1	*
Felixstowe	1012·8	-12	SW	4	c	43	75	8	-	7	1	0	9	-	0	2
Gorleston	1011·9	-6	SW	4	bc	43	65	6	-	7	-	0	4-6	-	1	2
Mildenhall	1010·8	-12	S	4	zo	44	75	6	1	3	7	Tr	10	4000	1	*
Cranwell	1007·9	-22	SSW	4	c	43	75	7	5	7	8	1	9+	2500	1	*
Birmingham	1007·9	-14	S	3	iro	44	85	6	5	7	-	9+	10	1500	1	*
Upper Heyford	1010·4	-22	SE	4	c/r	44	85	7	5	3	-	9	9+	1500	1	*
Ross-on-Wye	1007·9	-22	SW	4	c/pr	45	85	7	9	1	-	9	10	2500	1	*
Hartland Point	1005·9	-28	WSW	6	c/pr	46	85	8	9	2	-	7-8	9	1500	1	3
Bristol	1009·8	-26	SW	4	c/r	45	85	7	5	7	-	7-8	9+	1500	1	*
Portland Bill	1010·4	-22	WSW	4	c	47	92	8	5	7	-	7-8	10	2500	1	3
Plymouth	1009·5	-30	SW	5	pr	48	85	7	9	7	-	7-8	9+	1500	1	3
The Lizard	1009·1	-30	SSW	6	c/pr	47	85	8	8	7	-	4-6	7-8	2500	1	3
Scilly (St. Mary's)	1007·8	-28	SWS	6	c/pr	48	92	8	8	6	-	4-6	9+	1500	1	4
Guernsey	1013·0	-28	SSE	2	c	47	85	8	5	3	-	4-6	10	4000	1	3
Pembroke	1005·2	-16	WSW	6	cq	47	85	7	8	6	-	7-8	9	1500	1	3
Holyhead	1001·1	-28	SW	6	iro	47	85	7	6	2	-	9	10	1500	1	4
Chester (Sealand)	1003·9	-30	SSE	3	ir	47	75	8	6	-	-	9+	9+	1500	0	*
Manchester	1004·5	-24	SW	4	c/r	45	75	6	5	7	-	9	10	1500	1	*
Spurn Head	1006·4	-18	SSW	4	c	43	75	6	5	1	-	4-6	10	2500	0	3
Catterick	1001·8	-28	SSW	5	zo	43	75	6	6	2	-	7-8	10	800	1	*
Tynemouth	999·5	-28	SSW	6	cq	44	75	6	8	-	-	7-8	7-8	2500	1	2
St. Abbs Head	994·7	-20	WSW	6	rr	44	85	7	3	2	-	4-6	10	1500	1	5
Leuchars	994·8	-6	SW	3	c	41	92	7	5	7	1	7-8	9	800	1	*
Renfrew (Abbots I.)	995·5	+6	SWS	3	c	41	85	7	4	7	-	2-3	4-6	1500	2	*
Eskdalemuir	997·4	-8	WSW	4	RR	35	92	7	6	-	-	10	10	800	2	*
Point of Ayre	1000·7	-10	WN	5	c	43	97	8	8	7	-	7-8	9+	1500	1	3
Tiree	991·2	-4	SSW	4	cjp	42	92	7	9	-	-	7-8	7-8	1500	1	5
Stornoway	990·1	0	SSW	4	c	41	85	7	8	-	7	4-6	10	2500	1	3
Dalwhinnie	993·5	+2	SW	4	c	35	85	7	8	6	1	4-6	7-8	2500	7	*
Aberdeen	993·3	-2	SWW	4	c	42	85	7	6	7	9	4-6	7-8	450	1	2
Wick	989·4	+2	SSW	4	c	39	92	8	5	7	1	4-6	7-8	1500	1	3
Lerwick	986·8	-26	SSW	7	c/r	41	92	7	8	2	-	7-8	9+	800	1	*
Blacksod Point	997·4	-4	W	6	bcq	40	92	7	9	-	-	4-6	4-6	800	2	4
Malin Head	994·6	-12	SW	3	cjp	39	97	7	9	-	4	4-6	7-8	4000	1	4
Aldergrove	997·1	-8	SW	3	bc	39	97	8	5	3	1	2-3	4-6	2500	1	*
Birr Castle	1000·4	-4	WSW	3	c/pr	41	92	8	8	7	8	4-6	7-8	800	1	*
Valentia Obsy. †	1002·1	-6	WSW	4	c	45	65	8	5	1	6	4-6	9+	2500	1	4
Roches Point	1002·5	-10	W	3	c/pr	44	85	8	3	-	9	4-6	7-8	1500	1	3

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 27th (37)	13h.—18h. 27th (38)	18h 27th to 1h. 28th (39)	1h.—7h. 28th (40)
London (Kew)	bcmxczoy	cyczo	czoc	crocmoro
Croydon	bwzobccy⊕	c⊕yzo	czoc	ciro
S. Farnborough	bbcc⊕	c⊕c	c	c,iror
Boscombe Down	bcxc	cciro	cirororoc	crorocrr
Calshot (Sthmtn.)	bcc⊕	cbc	bcc	cirrrmo
Lympne	bbcy	bcyc	cb,c	cbcc
Manston	bxmob,c	cbcc	cbcc	c
Shoeburyness	bbcmo	cyc	cbc	bcc
Felixstowe	bbcy	bcybcc	cbcc	c
Gorleston	bbcy	bcyq	bccq	cq
Mildenhall	bxbmobc	bcc	c,bbcc	cbcc
Cranwell	bxbcc	c	cmo	ccrcido
Birmingham	b,c pro	cbciro	ciro	oror
Upper Heyford	bmocmoc	ccro	crorooiroc	ciromo
Ross-on-Wye	bcczoc	ccroc	rRirq	roqdq
Hartland Point	bcc	cbccp	circo	oirepbcc
Bristol	bbcc	cdorobc	ciroc	cdodoid
Portland Bill	bcc	c	cprc	orr
Plymouth	bccmoc	cprq	cproirq	cprc
The Lizard	bcc	eproc	bcprq	crrq
Scilly (St. Mary's)	cpoqc	cpqc	cpqiro	cirlpq
Guernsey	c	c	cir	crr
Pembroke	bccq	cprq	crqddRRo	bccirq
Holyhead	bcproc⊕	ciroc	R proc	idoc⊕
Chester (Sealand)	bxbccy	cyrororr	crRR	dRRmo
Manchester	bzoc	crororzo	cirorrmo	cRRm
Spurn Head	bbcc	[illegible]	cqc	crrqo
Catterick	bbccmo	procmo	rororrc	comorr
Tynemouth	bcq	bcsq	cqoiro	oc
St. Abbs Head	cq	cqphr (gale)	cq	c
Leuchars	ciro irroro	roir roroc	cbccx	cx
Renfrew (Abbots I.)	rsRRro	moRRbc	bcc	cbcxm
Eskdalemuir	cirsrr (gale)	rRRH	crrc	cx
Point of Ayre	bcroc	cRsr	prbcb	bcc
Tiree	orr Rc	iroprc	cphlbc	bcc
Stornoway	crs	cphrpr	cl PRbc	bccPRSq
Dalwhinnie	cSss	cssc	*	ciris
Aberdeen	bccroro	ciro	cbcbx	bxbczo
Wick	bcRr	rrroc	cbc	bc
Lerwick	cir	cir srr	cbc	bccpr
Blacksod Point	PRcq	PHcq	procq	procq
Malin Head	crrc (gale)	cphrbcc	cphrbcb	bbcc
Aldergrove	bcciro	Rriro	cpro,b	b,c
Birr Castle	cpr	cpr	cprbc	bcxcpr
Valentia Obsy. †	prPRbc	bc proc	cbc	phrqphrq
Roches Point	irprbc	cprc	c (lunar halo)	crrbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

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

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

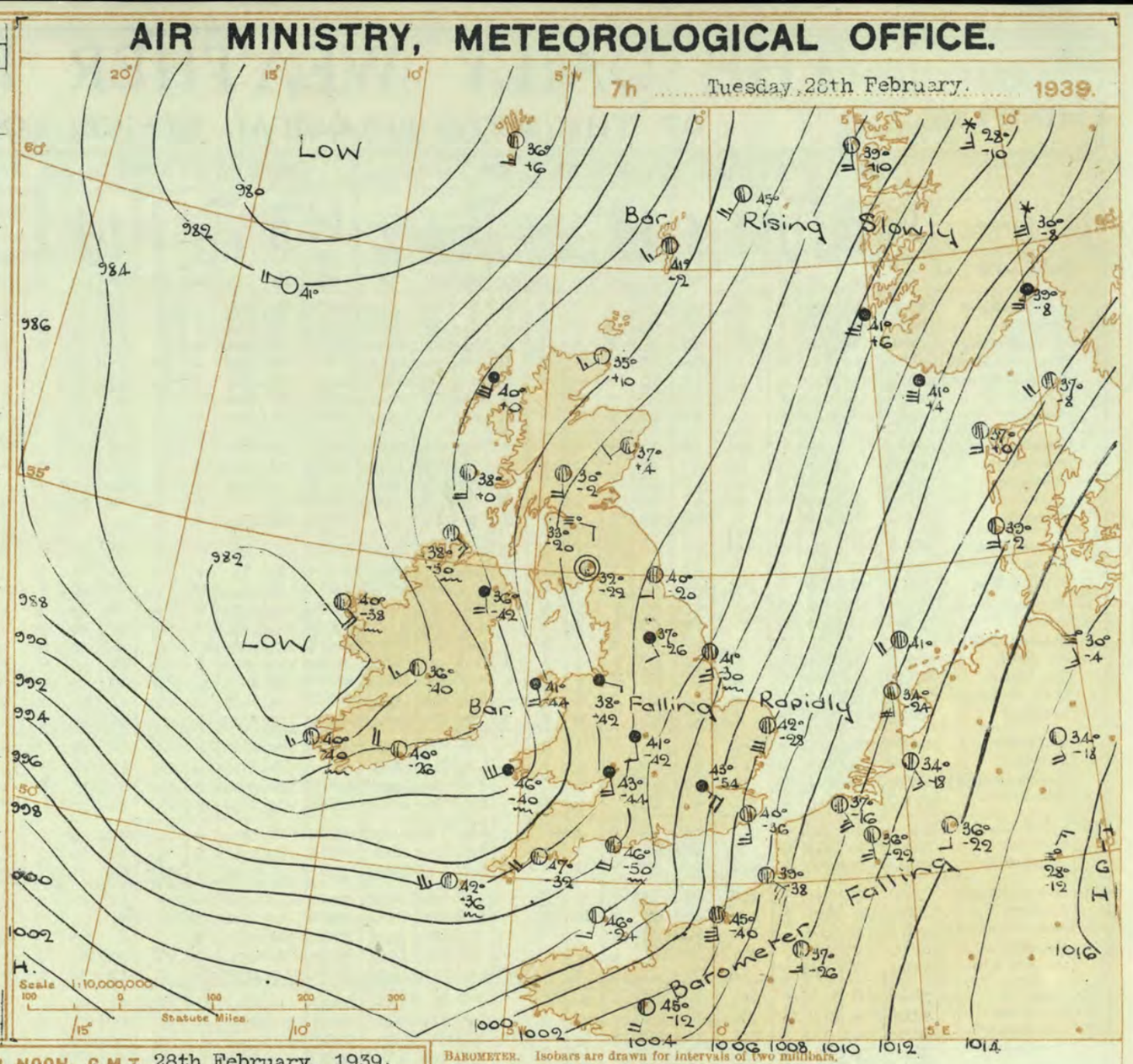
[1] Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 27th February 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 26th to 9h. 27th	Temperature. (°F.) Max. 9h.—17h. 27th	Rainfall. (mm.) Night. 17h. 26th to 9h. 27th	Rainfall. (mm.) Day. 9h.—17h. 27th	Sunshine. (Hrs.) Sunrise to 17h. 27th	Sunshine. (Hrs.) Sunrise to Sunset. 26th
1	Tunbridge W.	b	bbcc	31	49	–	–	6·6	7·1
	Bournemouth	bcc	c	35	49	Trace	–	1·6	7·6
	Ventnor ...	bbc	obc	39	49	–	–	4·6	8·5
	Southsea ...	b	bcb	38	50	–	–	4·7	9·4
	Bognor Regis	bbc	bcbc	34	48	–	–	4·9	8·9
	Littlehampton	bbc	bbc	32	50	–	–	5·6	8·8
	Worthing ...	bbcb	bbcc	33	49	–	–	5·6	8·3
	Brighton ...	b	bcc	36	48	–	–	5·8	9·2
	Eastbourne† ...	bbc	bcc	37	49	–	–	7·0	9·4
	Hastings† ...	bbc	bcc	35	50	–	–	7·3	9·1
	Folkestone ...	mob	bbcc	33	49	–	–	7·4	8·5
	Dover ...	bbc	bc	35	49	–	–	7·9	9·4
	Deal	b	bcco	35	49	–	–	7·8	9·5
	Ramsgate ...	bc	bc	34	49	–	–	7·9	9·3
	Margate ...	bbc	bcc	35	50	Trace	–	8·2	9·3
2	Southend ...	b	bbcc	35	51	1	–	7·4	8·4
	Clacton-on-Sea	bbc	bc	34	47	–	–	6·3	9·1
	Dovercourt ...	bcv	bc	33	49	–	–	6·7	9·1
	Lowestoft ...	b	bbcz	32	49	0·5	–	8·6	9·1
	Skegness ...	bbc	bbc	30	47	–	–	7·3	8·7
	Mablethorpe...	bxb	bc	30	48	–	–	7·2	8·4
	Cleethorpes ...	bc	bc	33	49	–	–	6·8	7·6
3	Leamington S.	bc	c	33	49	0·3	–	5·1	7·8
4	Cheltenham†	wc	coc	33	48	–	–	3·0	8·0
5	Bath	bcc	bccp.	35	49	0·3	0·3	2·3	7·3
	Weymouth ...	bcc	c	38	49	Trace	–	1·0	7·3
	Jersey ...	rc	c	41	49	3	–	0·4	9·2
	Torquay ...	co	crp	34	50	–	1	0·5	7·1
	Falmouth	ocgpo	ocgpo	37	51	Trace	0·4	0·5	5·9
	Penzance ...	cp	bccp	37	51	2	1	1·8	5·6
	St. Ives ...								
	Bude... ...	bccp	cpbc	41	51	1	1	2·2	5·2
	Ilfracombe ...	cpocp	cbcpo	41	50	0·5	0·1	1·2	6·5
6	Aberystwyth	c	c	41	48	–	–	0·1	4·1
7	Llandudno ...	bcc	bccpc	39	52	–	Trace	5·0	4·4
	Colwyn Bay...	bcc	cpcbp	38	49	–	0·5	3·7	4·8
	Rhyl	bbc	bccpr	36	50	Trace	0·2	3·3	6·7
8	Wallasey ...	bcc	cp.	37	49	–	Trace	3·3	7·8
	Southport ...	bpcc	cobp.	37	48	Trace	Trace	2·7	5·6
	Blackpool ...	bbcc	c	38	47	0·3	–	2·0	4·0
	Morecambe ...	bbc	cdr	39	46	–	.1	2·0	4·5
9	Ilkley... ...	bbc	rc	35	47	1	0·5	4·6	4·2
	Harrogate ...	cb	bccr.	35	46	0·4	Trace	4·1	5·6
10	Berwick-on-T.	bcc	co	35	46	–	–	2·8	6·8
11	Dunbar ...	bcx	cpr	33	46	–	2	2·1	5·6
12	Troon... ...	opo	opo	35	46	3	3	0·1	1·6
	Douglas	cq	cpH	37	46	–	3	0·0	6·1

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



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

Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 28th February, 1939.
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 ...	Wind southwesterly fresh or strong; occasional rain or showers but some bright intervals; average day temperature; ground frost in places at night.
10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B. N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind southerly moderate or fresh or strong at times; occasional rain; snow on hills; rather cold; frost at night.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind variable between southwest and northwest moderate or fresh increasing to gale tomorrow; showers but some bright intervals today, more general rain tomorrow; average temperature.

H.M. Stationery Office Press, Kingsway, W.C.2. K 137/3640. m 8086. D 3768. Gp 348. 32200. 2/39

GENERAL INFERENCE.

A very complex low pressure system cover the Atlantic with centres west of the Faeroes, west of the Shannon and also far out on the Atlantic. The weather will be unsettled with occasional rain in all districts and snow on the hills in Scotland.

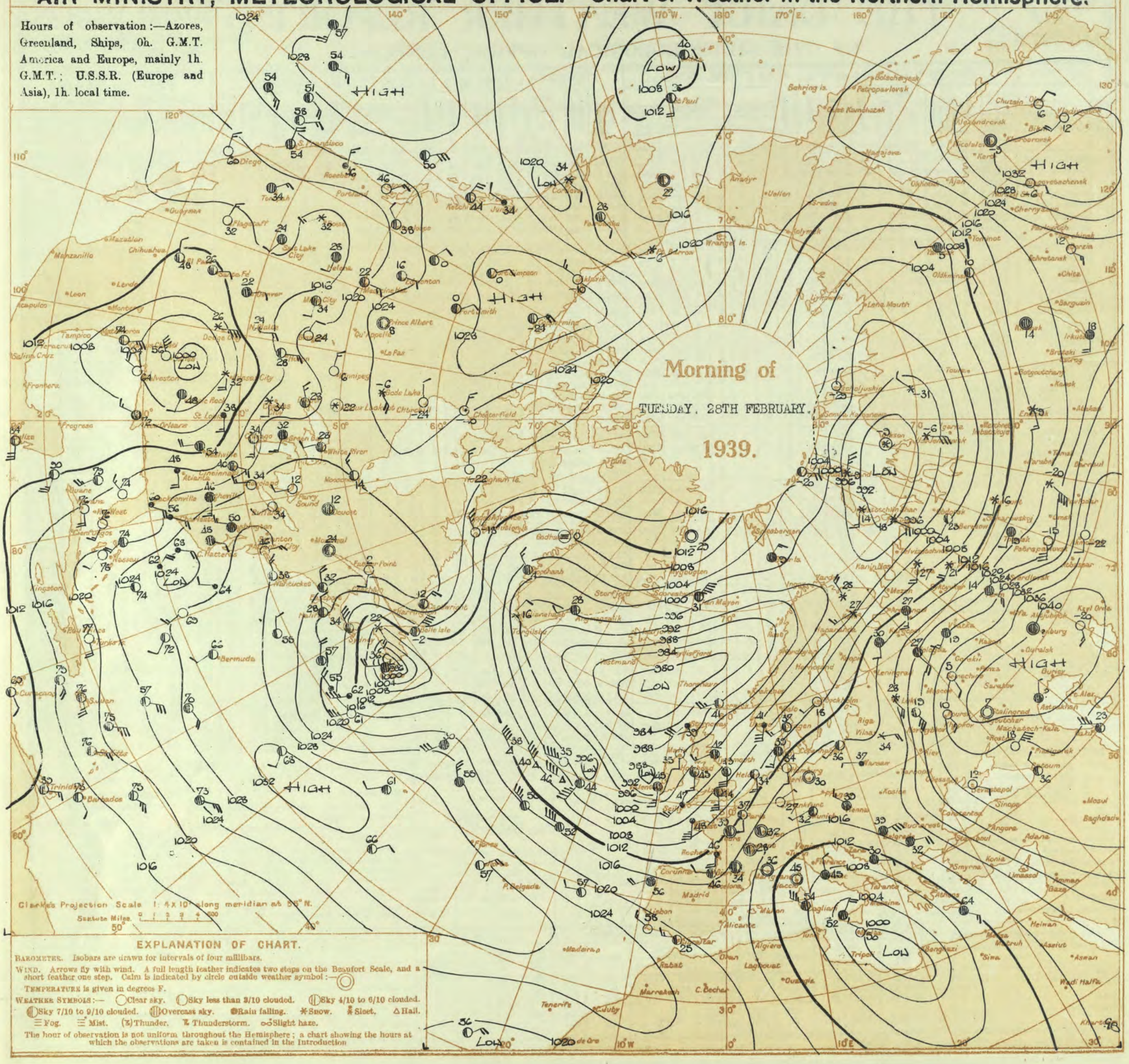
FURTHER OUTLOOK.

Unsettled with an average temperature.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 28th February, 1939.
No. 28222

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1007·6	-34	S	5	c	44	75	7	5	-	-	10	10	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1010·6	-30	S'W	4	c	42	85	8	-	3	-	0	9+	-
	Manston ...	154	1009·3	-28	S	3	c	43	85	7	-	7	-	0	9+	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1007·7	-22	SW'S	5	c	42	85	7	5	-	-	10	10	2500
	Mildenhall ...	19	1005·6	-10	S'E	5	c	43	85	7	5	7	-	4-6	7-8	4000
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	989·5	-38	SW	6	ir	44	97	7	-	2	-	10	10	800
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1005·0	-40	SSW	4	c	46	92	8	5	-	-	10	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1001·1	-34	S'W	4	bc/pr	46	97	8	8	-	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	989·6	-42	SW'S	5	ir₀	47	92	7	8	6	-	7-8	9+	1500
	Guernsey ..	175	1004·9	-46	SE	5	c/r	45	92	7	8	1	-	7-8	10	1600
6	Pembroke ...	142	989·2	-20	SSW	3	RR	42	92	6	5	-	-	10	10	1500
7	Holyhead ...	26	987·3	-28	S	3	c	43	92	7	5	1	-	2-3	10	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1001·6	-20	S	6	c	43	85	7	5	1	-	4-6	7-8	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	998·0	-4	SW	3	o	42	85	7	5	-	-	10	10	800
11	St Abbs Head ..	280	994·4	-10	SW	6	cq	37	85	8	5	6	1	4-6	7-8	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	997·1	-10	SW'W	2	b	38	92	8	1	-	-	Tr	Tr	4000
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	987·2	-10	SW	6	pr	39	85	7	8	-	-	7-8	7-8	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	988·7	-8	SSW	5	bc	39	85	8	5	4	1	2-3	4-6	1500
16	Lerwick ...	156	988·5	+4	WSW	5	bc	41	85	8	5	1	-	2-3	4-6	1500
17	Blacksod Point	18	992·1	-40	S	4	c	42	85	8	5	-	-	10	10	1500
18	Malin Head ...	84	992·8	-12	S	2	b	35	92	8	-	-	-	0	0	-
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	991·7	-32	S	5	c	45	97	7	8	-	-	10	10	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 28th February — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 27th Hrs. (36)
London (Kew)	997·8	-44	SSE	5	r₀r₀	43	85	6	5	-	-	10	10	1500	1	*	48	43	40	-	0·1	6·3
Croydon	999·0	-54	SE'S	5	ir₀	43	75	6	6	2	-	7-8	10	800	1	*	50	42	38	-	Tr	6·6
S. Farnborough	997·1	-46	SSE	4	r₀r₀	42	92	6	6	2	-	9	10	800	1	*	48	41	39	-	1	5·4
Boscombe Down	995·0	-46	SSE	5	rr	41	97	5	6	2	-	9	10	450	1	*	47	40	39	Tr	5	2·4
Calshot (Sthmtn.)	997·1	-54	SE'S	6	dr	43	97	5	6	-	-	10	10	800	1	4	49	42	41	-	1	2·4
Lympne	1002·8	-36	SSE	5	c	40	85	7	5	7	-	1	9+	1500	1	§4	48	40	37	-	-	6·9
Manston	1001·9	-34	S'E	5	c	41	85	8	5	7	-	2-3	7-8	2500	1	*	49	40	38	-	-	8·2
Shoeburyness	1001·0	-40	SE'S	5	c	43	85	8	5	7	-	4-6	9+	2500	1	*	50	42	39	-	-	7·3
Felixstowe	1001·9	-30	S'E	5	c	42	85	8	5	3	-	4-6	9	4000	0	4	48	41	39	-	-	*
Gorleston	1002·0	-28	SSW	6	c	42	85	7	5	-	-	9+	9+	2500	1	3	49	41	39	-	-	8·7
Mildenhall	998·7	-38	SSE	4	c	43	85	7	5	2	-	7-8	9+	4000	1	*	49	42	37	-	-	6·6
Cranwell	996·5	-38	SE'E	5	cld	41	92	7	5	7	-	9+	9+	880	1	*	48	39	38	-	0·6	6·1
Birmingham	993·9	-42	SSE	2	r₀r₀	41	92	6	6	-	-	10	10	450	1	*	46	40	39	0·1	2	4·7
Upper Heyford	996·0	-44	SSE	4	ir₀	41	97	6	5	-	-	10	10	800	1	*	48	40	38	0·2	2	*
Ross-on-Wye	992·7	-44	SSE	4	dd	43	92	6	6	-	-	10	10	1600	1	*	47	42	40	1	6	1·2
Hartland Point	989·8	-46	WSW	6	c	45	92	8	8	-	-	7-8	7-8	1500	1	4	49	44	43	0·3	4	2·0
Bristol	983·3	-50	SSE	4	dd	43	92	6	5	-	-	10	10	450	1	*	48	43	40	0·2	1	2·5
Portland Bill	998·2	-50	SSW	4	c/r	46	92	7	5	7	-	7-8	10	2500	1	4	48	43	*	-	3	*
Plymouth	992·7	-32	SW'S	4	c	47	85	8	3	6	-	4-6	9	1500	1	3	48	45	42	Tr	2	0·0
The Lizard	992·2	-30	WSW	7	rr	45	85	7	5	-	-	10	10	1500	1	4	49	44	*	0·1	5	0·4
Scilly (St. Mary's)	991·8	-36	W'S	5	c/pr	42	97	8	8	7	-	4-6	10	1500	1	4	51	41	*	1	4	1·8
Guernsey	996·5	-24	SSW	3	bc	46	97	7	8	3	-	2-3	4-6	1500	1	3	50	43	42	-	3	1·1
Pembroke	987·8	-40	WSW	6	ir	46	92	7	8	-	-	9+	9+	800	1	4	48	41	*	Tr	20	0·3
Holyhead	988·4	-44	SSE	4	id₀	41	92	8	5	2	-	7-8	10	800	1	2	49	39	38	0·3	1	0·1
Chester (Sealand)	991·9	-42	E'S	1	RR	38	92	6	-	2	-	10	10	1500	1	*	49	38	37	0·1	24	2·2
Manchester	993·0	-40	NE	2	rr	37	97	4	6	2	-	9+	10	800	2	*	47	37	36	0·2	33	3·2
Spurn Head	996·0	-30	S'E	5	o	41	92	6	5	-	-	10	10	1500	1	4	48	41	*	-	1	6·7
Catterick	994·2	-26	SE'S	2	rr	37	97	5	6	-	-	10	10	800	1	*	46	37	35	Tr	5	4·5
Tynemouth	994·2	-20	S	3	c	40	85	6	5	-	-	9	9	1500	1	1	48	39	36	-	1	5·1
St Abbs Head	993·5	-10	S	4	c	34	92	8	5	2	-	7-8	10	2500	0	3	45	32	*	0·5	4	*
Leuchars	992·5	-10	WSW	2	c	32	92	8	-	7	-	0	9	-	3	*	44	32	26	3	-	0·8
Renfrew (Abbots I.)	992·3	-20	E'S	2	m	33	85	4	5	-	6	2-3	4-6	4000	1	*	44	32	27	11	-	0·0
Eskdalemuir	992·8	-22	-	0	c	32	92	7	5	-	-	10	10	800	3	*	41	29	27	18	4	0·0
Point of Ayre	989·5	-36	SSE	3	c	41	92	8	8	2	-	9+	10	800	1	2	50	(38)	*	5	0·1	0·2
Tiree	988·7	0	SSE	4	c	38	85	8	5	-	-	9	9	2500	0	3	42	35	33	7	3	0·0
Stornoway	987·0	0	SSW	6	pr	40	85	7	5	2	-	9+	9+	1500	1	2	45	34		9	1	1·4
Dalwhinnie	992·0	-2	S	4	c	30	92	7	4	6	7	2-3	9+	2500	8	*	35	28	25	13	3	0·0
Aberdeen	992·9	+4	SW	3	c	37	85	6	-	-	6	0	7-8	-	1	2	44	35	27	Tr	-	0·3
Wick	989·4	+10	SW	3	bc	35	85	8	5	1	-	2-3	2-3	1500	1	2	40	34	*	2	-	*
Lerwick	988·1	-2	SW	5	c	41	85	8	8	7	-	4-6	7-8	800	1	*	43	38	*	4	0·6	0·7
Blacksod Point	982·3	-38	SE	4	c	40	85	7	9	-	-	7-8	7-8	1500	1	4	50	37	*	6	2	*
Malin Head	986·4	-50	SE	3	c	38	85	8	5	-	4	4-6	7-8	4000	1	4	43	33	*	6	2	1·3
Aldergrove	987·7	-42	SSE	4	ir₀	36	92	6	6	-	-	10	10	800	2	*	46	31	30	4	1	0·2
Birr Castle	984·0	-40	SW	3	c/pr	36	97	7	6	-	-	7-8	7-8	800	1	*	50	35	27	4	4	1·4
Valentia Obsy. †	982·9	-40	SW	4	c/pr	40	75	7	9	-	-	10	10	1500	1	4	50	37	32	5	5	2·7
Roches Point	986·5	-26	W'N	4	bc	40	92	8	3	-	3	4-6	4-6	1500	1	3	50	37	*	2	6	*

LONDON OBSERVATIONS

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. Yesterday	Humidity 15h. G.M.T. % Yesterday	Humidity 9h. G.M.T. % To-day	Visibility 9h.
(24 hrs. ended 9h.)													
Kew ...	18	bcm₀xcz₀	cycz₀c	crcm₀r₀	48	43	40	-	0·1	6·3	*	*	6
Croydon ...	217	bwz₀bccy	c⊕yz₀	cir₀	50	42	38	-	Tr	6·6	*	*	6
Greenwich (Royal Observatory) ...	149	bc	bcy⊕c	bbcrr₀	50	41	37	-	0·2	6·8	55	92	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	5·2	*	*	*
Westminster (St James' Park) ...	27	*	*	*	50	39	39		0·4	6·4	65	93	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	50	39	39	-	0·2	5·4	64	92	*
Camden Square ...	110	b	c	*	49	39	34	-	0·2	*	*	91	*
Kensington ...	80	bc	bc	*	50	42	39	*	0·3	7·4	At 12h 70	88	*
Hampstead Observatory ...	450	bc	bc	od	47	40	36	-	0·1	6·6	*	92	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington.

Max.	Time.	Min.	Time.
<0·3 whole period			

Kew Observatory.

Max.	Time.	Min.	Time.
0·2	8-9hr 27th	<0·1	0-6hr 28th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 27th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 28th February Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	1017·9	SSW	2	z₀	46	1007·4	S	3	c	37	50	37	-	-
Brussels ...	1017·1	SSW	2	c	41	1008·5	SSE	5	c	36	50	*	-	*
Berlin ...	1017·2	NW	2	c	41	1017·8	-	0	F+	30	50	28	2	-
Zürich ...	1021·1	SE	1	bc	39	1014·2	NE	1	c	32	45	28	Tr	-
Rome ...	1008·5	NW	1	o	52	1008·2	NE	1	bc	45	*	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

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