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THE DAILY WEATHER REPORT

BRITISH SECTION

1st January to 31st March,

1943

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

INTRODUCTION

The Daily Weather Report has been issued in three sections since April 1st, 1919, the British and International Sections consisting of four pages and the Upper Air Section of two pages. On 1st January, 1942, all three sections were modified. The International Section was reduced to two pages of charts supplemented at eight-day intervals by a four page tabular statement of foreign observations. The Upper Air Section was increased to four pages giving two pages of charts and diagrams and two pages of observations in tabular form. The British Section of which this forms the Introduction was modified by increasing the scale of the chart on page 2 so that it occupies the whole page, and in consequence the weather forecasts have been transferred to the front page and the table of auxiliary reports to the back page. The various codes which were formerly given on pages 1 and 4 are now incorporated in this Introduction. The increased scale of the chart on page 2 makes it possible to show the observations from a selection of stations in full, the data being set out in accordance with the "station model" adopted by the International Meteorological Conference at Warsaw in September, 1935.

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. 1 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 below, where the column numbers are shown in connexion with each of the separate classes of observation. Observations in abridged form for a further selection of stations are printed on the lower part of page 4, and can be interpreted by reference at the head of the columns and to the explanation below.

Form of Low Cloud (C_L) — Columns 10, 25, and abridged reports (page 4).

- 0 No low cloud.
- 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.

Form of Medium Cloud (C_M) — Columns 11, 26, and abridged reports (page 4).

- 0 No medium cloud.
- 1 Typical As thin).
- 2 Typical As (thick) (sun or moon invisible), (or 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.

Form of High Cloud (C_H) — Columns 11, 27

- 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 ci.

(Cc may occur with any of the types 1 to 8).

Cloud Form Abbreviations

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

Cloud Amount — Columns 13, 14, 28, 29

Columns 13, 28. The figures in these columns indicate the amount of cloud at the height given in Columns 15, 30.
Columns 14, 29. 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 tenths; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies sky covered but with a few small openings.

Barometric Tendency—(Columns 2 and 17)

The Barometric tendency is expressed in tenths of a millibar.

Code for wind direction (DD)

Abridged observations (page 4).

Code Number	Direction	Code Number	Direction
00	Calm	16	S
		17	S by W
01	N by E	18	SSW
02	NNE	19	SW by S
03	NE by N	20	SW
04	NE	21	SW by W
05	NE by E	22	WSW
06	ENE	23	W by S
07	E by N	24	W
08	E	25	W by N
09	E by S	26	WNW
10	ESE	27	NW by W
11	SE by E	28	NW
12	SE	29	NW by N
13	SE by S	30	NNW
14	SSE	31	N by W
15	S by E	32	N

Note 33 is added to DD to denote unusual gustiness, and 67 is added if a definite squall or line squall has occurred during the preceding hour.

Code for Height above ground of base of cloud (h) Abridged reports (page 4).

0 ...	0— 150 feet
1 ...	150— 300 ,,
2 ...	300— 600 ,,
3 ...	600—1,000 ,,
4 ...	1,000—2,000 ,,
5 ...	2,000—3,000 ,,
6 ...	3,000—5,000 ,,
7 ...	5,000—6,500 ,,
8 ...	6,500—8,000 ,,
9 ...	above 8,000 feet or no low cloud

Code for cloud amount (N_h and N).

Abridged reports (page 4).

0 ...	0.	7 ...	More than 9 but with openings.
1 ...	Trace.	8 ...	10 tenths.
2 ...	1 tenth.	9 ...	Sky obscured by fog, dust storm or other phenomenon.
3 ...	2, 3 tenths.		
4 ...	4, 5, 6 tenths.		
5 ...	7, 8 tenths.		
6 ...	9 tenths.		

Code for Horizontal Visibility (V)—Columns 9, 24, and abridged reports (page 4).

	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.

Code for State of Sea (S)—Column 32

0 Calm—glassy.	5 Rough.
1 Calm—rippled.	6 Very rough.
2 Smooth.	7 High.
3 Slight.	8 Very high.
4 Moderate.	9 Phenomenal.

Rainfall—Columns 36, 37

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

Beaufort Notation and Symbols for Weather—Columns 5, 20, 39, 40, 41, 42.

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.

Explanations of the symbols used for cloud forms in the chart on p. 2, will be found in Form 2459, "Instructions for the Preparation of Weather Maps." H.M. Stationery Office. Price 1/- net.

Code for state of ground (E)—Column 31.

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

THE BEAUFORT SCALE OF WIND FORCE [F] Columns 4, 19

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 30 to 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.

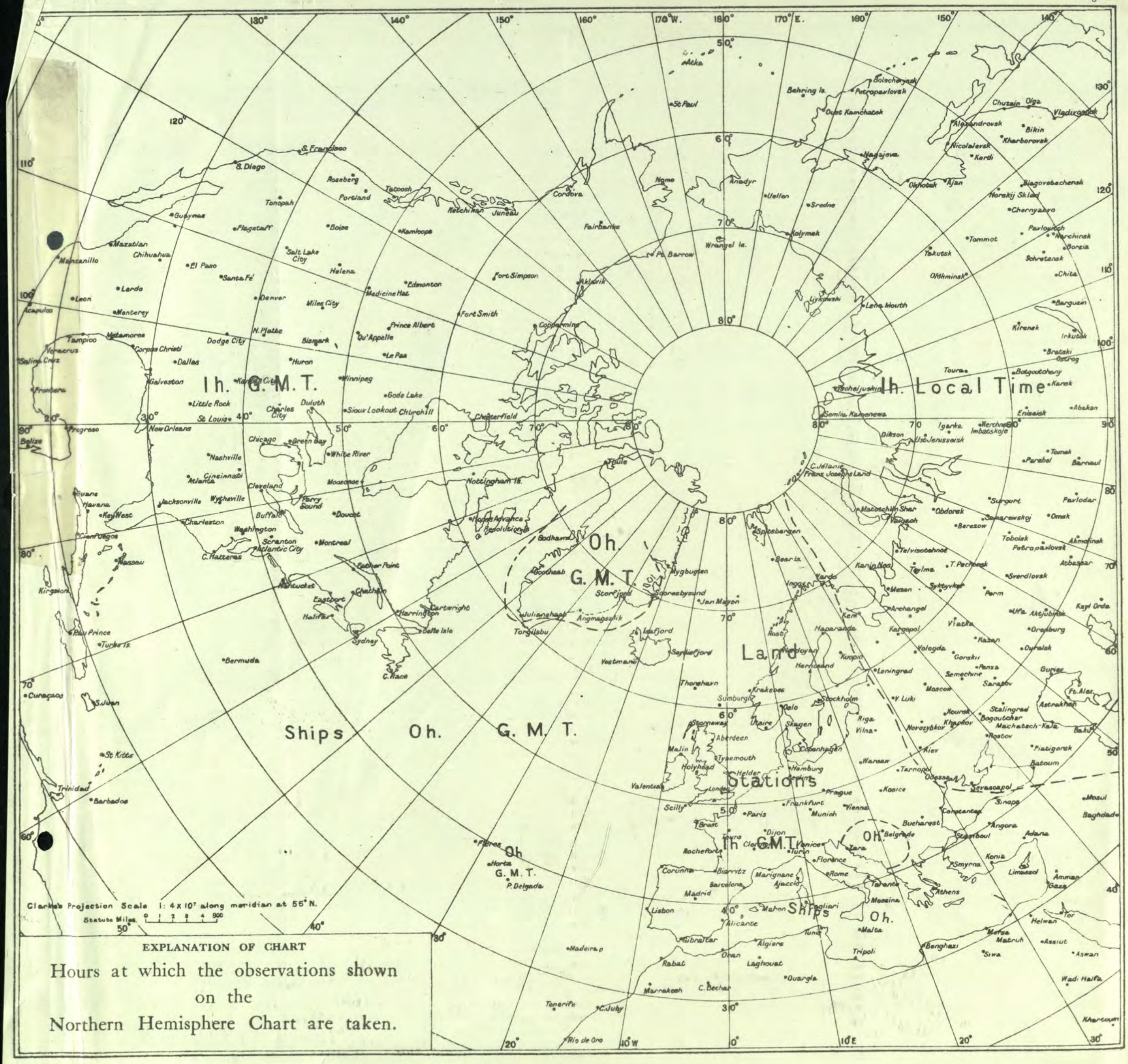
For gales commencing from East or West the South Cone will be hoisted if the gale is expected to change to a Southerly direction.

The districts to which warnings are sent are shown in the Report by the following symbols written on page 1 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 1 of the Report.

*Note—The public issue of Gale Warnings is suspended for the duration of war.



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

Stations printed on pp. 1 and 4 are shown in capitals—
LERWICK.
Stations whose abridged observations are given on p. 4 are shown thus:— 115 Cape Wrath.

FORECAST DISTRICTS and the Counties comprised within them

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

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.

11. *Scotland, S.E. (cont.)*
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.

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 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.

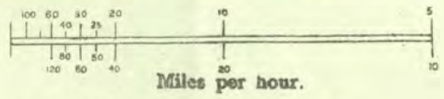
The wind at a height of 1,500–2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the upper wind is about 24 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 48 m.p.h.

The scales 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 SCALES

Upper Scale—8 mb isobars on $1 : 4 \times 10^7$ Charts.
Lower Scale—2 mb ,, ,, $1 : 5 \times 10^6$,,



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 :—

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

$x = f - .444\,(t - t')$ for wet bulb readings above 32° F.
$x = f - .400\,(t - t')$ 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 22 are limited to 10, 25, 35, etc., to 85, 92 and 97. Entry 10 indicates that relative humidity is from 0 to 19; 25, between 20 and 29; ..... .and so on; 92, from 90 to 94; 97 between 95 and 100.

The values of Dew Point given in columns (8) and (23) are derived from the original readings of dry—and wet—bulb temperature and are correct to one degree Fahr. Values below 32° F. give the "Hoar Frost Point," that is to say the temperature for which the actual vapour pressure is equal to the saturation pressure over ice.

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 3 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)

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," (3rd Edition, 1939), to be purchased from H.M. Stationery Office, York House, Kingsway, W.C.2, price 3s. 2d. post free.

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

H.M.S.O. Press, M.O., Dunstable.

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THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON

MONTHLY SUPPLEMENT,
January 1943 No. 313.

Wintry at first, then mild and very wet.

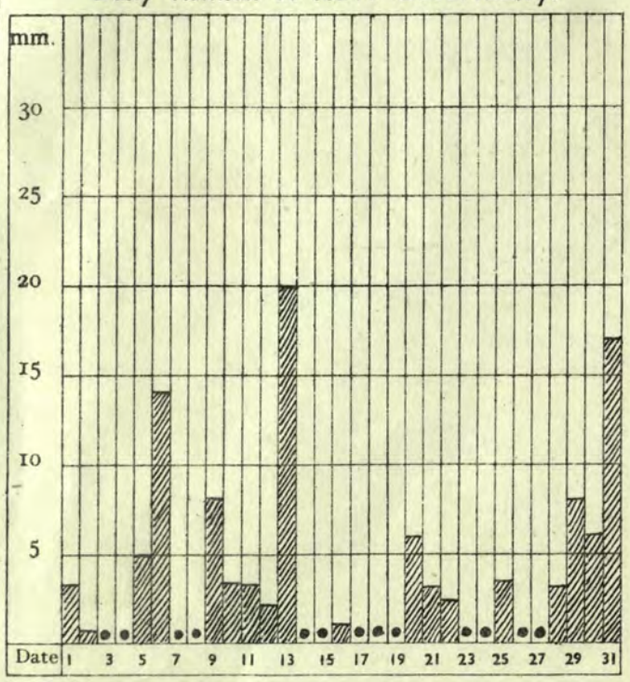
A depression over the northern half of the country on the 1st, receded eastwards and the following few days produced a cold northerly air stream with frequent wintry showers. A wedge of high pressure developed on the 4th, which soon gave way before an advancing Atlantic low, but the weather continued rather cold with sleet and snow. During this period, day maxima were well below 40°F at a number of stations, notably 28°F at Eskdalemuir and Dalwhinnie on the 4th, and 32°F at Cranwell and Catterick on the 9th. Night minima too were often below 30°F, particularly low readings being 18°F at Aberdeen and Wick on the 5th, and at Eskdalemuir on the 9th. Ground frosts were frequent. On the night of the 9th and the following morning a severe glazed frost occurred in many areas, but much milder air spread in during the 10th. From then onwards until the end of the month a succession of depressions or associated fronts continued to affect the country with more or less mild unsettled conditions. Temperature took on an appreciable rise and day maxima above 50°F were common. 56°F was recorded at Scilly on the 23rd, at Sealand on the 28th and 31st, and a number of places had a reading of 55°F. Night minima often remained within the 45-48°F range. Except for some stations in Scotland, temperature for the month was generally above average.

Gales were fairly frequent, particularly during the last few days of the month, being accompanied by thunderstorms at a number of places. Gusts of 74mph were reported at S. Farnborough, 73mph in Central London on the 30th and 80mph at The Lizard on the 30th.

Precipitation was about three times the normal in certain districts in the South and records were broken at Croydon, Cranwell and Ross. Computations have been maintained at the latter station since 1859, the previous highest being 156 mm in 1869. Some heavy falls were 37mm on the night of the 13th at Manston, and 32mm at Birmingham and Ross during the 31st.

Sunshine was about normal for the month except in South Scotland, where the amounts were below the average.

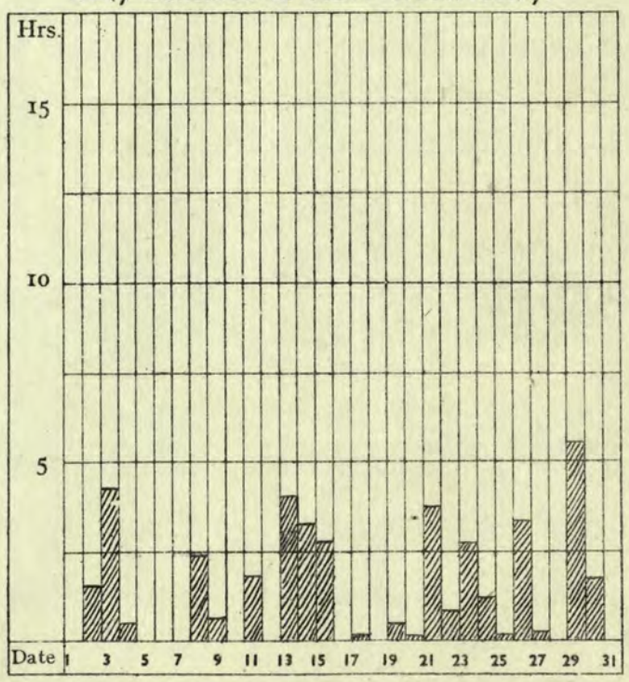
Daily Rainfall at KEW Observatory.



● = less than 0·5 mm.

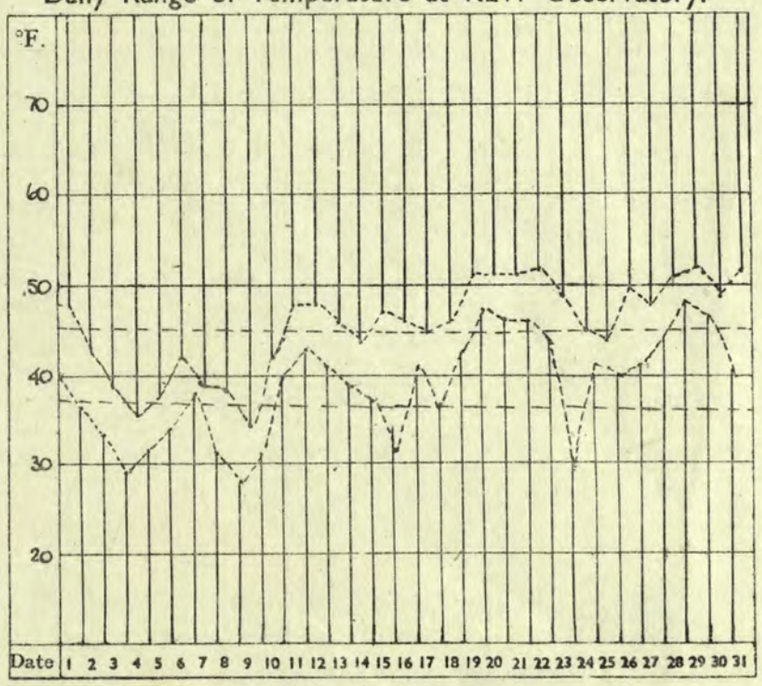
RAINFALL. Total for Month. 120 mm.

Daily Sunshine at KEW Observatory.



SUNSHINE. Total for Month. 42 hrs.

Daily Range of Temperature at KEW Observatory.



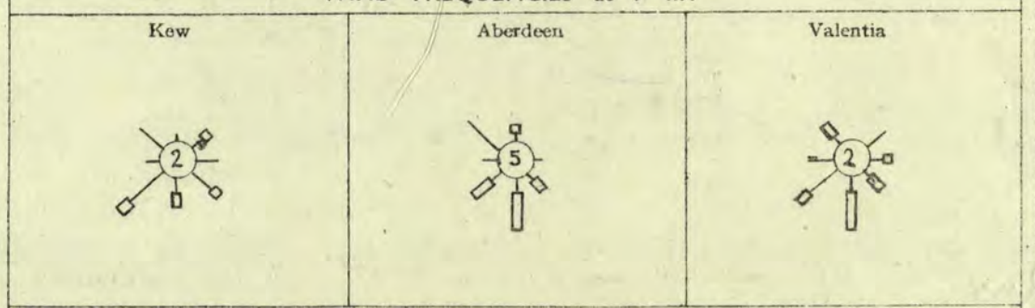
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.*

Stations.	Pressure: Mean	Pressure: Difference from average	Temperature: Mean	Temperature: Difference from average
	mb	mb.	°F.	°F.
Kew	1007·2	−10·4	42·1	+0·8
Aberdeen	1001·8	−9·6	38·9	−0·6
Valentia	1000·9	−14·1	46·8	+1·1

* 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; ⊢10 mm.⊣ to 10 observations.
The figure in the centre of the circle gives the number of calms.

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

	miles.
Kew ...	7152
Aberdeen ...	6572
Lerwick ...	14707
Valentia ...	

SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

District.	Stations.	† TEMPERATURE. Number of daily readings within fixed limits. Maximum. 32° or below	33°–41°	42°–50	51°–59°	60°–68°	Average Maximum. °F.	Minimum. 23° or below	24°–32°	33°–41°	42°–50°	51°–59°	Average Minimum. °F.	Extremes—Warmest and Coldest. Days. Highest Max. °F.	Date.	Lowest Max. °F.	Date.	Nights. Highest Min. °F.	Date.	Lowest Min. °F.	Date.	Number of Ground Frosts.	LOW CLOUD. Number of observations within fixed limits. 7 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	13 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	18 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	FOG, MIST and GOOD VISIBILITY. Number of observations within fixed limits. 7 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.	13 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.
1	London ... (Kew Obsy).	0	6	18	7	0	45·2	0	7	15	9	0	37·5	52	22, 29, 31	34	9	48	29	28	9	12	5	24	0	3	23	0	0	25	0	0	1	3	2	4	0	0	4	2	3
	Croydon ...	0	6	18	7	0	44·9	0	8	13	10	0	37·1	55	22	33	8, 9	47	21, 29	26	9	8	9	16	1	7	19	2	8	13	2	0	0	6	5	1	0	1	1	3	4
	Thorney Island	0	5	19	7	0	45·3	0	7	11	13	0	38·3	53	31	36	4	47	29	29	24	8	1	23	1	3	24	0	1	16	1	0	0	0	0	12	0	1	0	0	19
	Lympne ...	0	7	19	5	0	43·4	0	8	14	8	0	35·9	53	22	33	4	46	21, 22, 29, 30	24	4	§9	9	13	0	13	11	0	7	16	0	0	0	3	1	9	0	0	1	2	17
2	Shoeburyness...	0	7	18	6	0	45·2	0	7	18	6	0	35·4	54	29	35	4, 9	47	29	27	4, 9	13	1	20	0	0	22	0	1	18	0	0	0	2	2	1	0	0	0	2	9
	Gorleston ...	0	9	15	7	0	44·3	0	3	22	6	0	36·8	53	28, 29, 31	34	4	47	29	27	5	6	11	17	0	6	21	0	9	14	0	0	0	1	0	12	0	0	1	2	12
	Cranwell ...	1	9	18	3	0	43·3	1	9	16	5	0	34·7	55	28	32	9	46	29	23	9	11	8	16	0	7	13	0	8	8	0	0	2	7	3	3	0	1	2	4	5
3	Birmingham ... (Edgbaston)	1	8	20	2	0	43·2	0	9	15	7	0	36·0	53	28	32	5	45	20, 21, 28	27	4, 8	9	10	12	0	8	19	0	7	15	0	0	1	5	5	8	0	2	1	5	12
4	Ross-on-Wye...	0	6	16	9	0	45·5	0	5	12	14	0	37·2	53	28	34	4, 5	48	20, 28	29	4, 8, 24	8	5	21	0	7	19	0	7	21	0	0	0	0	4	16	0	0	3	1	18
5	The Lizard ...	0	0	9	22	0	*	*0	0	5	23	2	*	54	20, 23	46	3	51	20, 28	35	3	*	0	31	0	2	29	0	1	30	0	0	0	0	0	22	0	0	0	0	27
7	Holyhead ... (Valley)	0	3	20	8	0	46·4	0	5	9	17	0	41·6	53	19, 20	38	4	48	20, 28	28	8	7	2	28	0	3	26	0	4	25	0	0	0	0	0	21	0	0	0	0	25
8	Chester ... (Sealand)	0	7	15	9	0	46·0	0	7	9	15	0	36·9	56	28, 31	33	5	48	20	25	4	9	3	26	0	3	24	0	3	23	0	0	1	4	2	8	0	1	2	5	11
10	Tynemouth ...	0	11	17	3	0	44·1	0	8	14	9	0	37·3	55	31	33	4	49	22	26	4	10	0	23	0	2	24	0	2	25	0	0	0	1	3	7	0	0	5	5	4
11	Leuchars ...	0	12	18	1	0	43·4	0	8	19	4	0	34·4	52	28	35	5	46	25	23	5	18	1	24	1	5	21	3	1	12	2	0	0	1	2	9	0	0	0	4	9
12	Renfrew ...	1	12	16	2	0	43·6	1	9	14	7	0	35·3	51	21, 28	30	4	49	28	22	4	‡8	2	28	0	5	25	0	3	26	0	0	0	3	8	2	0	3	4	3	12
	Eskdalemuir ...	3	12	16	0	0	40·7	4	10	14	3	0	32·4	48	20	28	4	43	28	18	9	14	14	16	0	11	16	0	11	18	0	0	0	0	0	11	0	1	1	0	9
13B	Stornoway ...	0	7	24	0	0	44·6	0	7	17	7	0	37·8	50	22	35	3, 4	46	28	25	5	*	0	27	0	2	28	0	1	30	0	0	0	0	0	27	0	0	0	0	29
15	Aberdeen ...	2	11	18	0	0	43·1	1	8	16	6	0	35·8	50	26, 28	31	5, 8	44	25, 28, 29	18	5	16	2	24	0	5	22	1	4	22	1	0	1	6	2	7	0	0	4	7	6
18	Aldergrove ...	0	8	20	3	0	43·3	0	4	21	6	0	35·4	52	20	36	3, 4	47	28	26	4	11	4	27	0	5	25	0	4	25	0	0	0	0	0	21	0	0	1	1	23
19	Birr Castle ...	0	2	20	9	0	46·4	0	5	14	12	0	37·4	55	27	37	4	47	28	28	18	6	7	19	0	3	27	0	5	22	0	0	0	1	0	30	0	0	0	0	31
20	Valentia ... (Cahirciveen)	0	0	14	17	0	49·0	0	0	10	20	1	42·3	58	26	44	30	51	28	33	18	2	4	27	0	4	25	1	1	30	0	0	0	0	0	26	0	0	0	0	27

UPPER AIR TEMPERATURE.

Pressure. mb.	Normal Height. Feet.	Bircham Newton. Normal Temp. °F.	Mean. °F.	No. of Reports.	Aldergrove. Mean. °F.	No. of Reports.	Penzance. Mean. °F.	No. of Reports.
950	1800	38·3	38·1	62	38·6	62	44·7	31
850	4690	31·1	30·7	62	30·0	62	34·5	31
750	7910	22·7	21·0	62	20·4	62	25·9	31
650	11510	10·5	9·1	62	8·0	62	14·7	31
550	15620	-3·7	-5·9	62	-7·2	62	0·1	31

UPPER WINDS.

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

Station.	Lympne. Height. Metres.	*No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Plymouth (Mt. Batten). *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Holyhead (Valley). *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.	5	0	3	2	0	0	16	6	10	0	0	0	20	11	6	2	0	0	4	1	3	0	0	0	500 above ground.
1000 above M.S.L.	3	0	1	2	0	0	8	1	6	1	0	0	17	8	8	1	0	0	2	0	2	0	0	0	1000 above M.S.L.
2000 " "	2	0	2	0	0	0	2	0	2	0	0	0	8	4	3	0	0	0	0	0	0	0	0	0	2000 " "
3000 " "	1	1	0	0	0	0	1	0	0	0	1	0	5	2	3	0	0	0	0	0	0	0	0	0	3000 " "
4000 " "	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	4000 " "

* Reading of 14th Jan. missing. § No grass min. until 4th. ‡ Grass min. thermometer unserviceable between 9–16th January.

† The readings and averages used, are the maximum for the period 7 h.–18 h. and the minimum for the period 18 h.–7 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, D.Sc., A.R.C.S., Director

SUNSHINE, RAINFALL, AND HUMIDITY ..... January ..... 1943.

District.	Stations.	Sunshine: Number of Days with Duration: Nil.	0·1—3h.	3·1—6h.	6·1—9h.	Above 9h.	Maximum Duration: Hours.	Date.	Total for past 12 months. Hours.	Difference from average. Hours.	Total for Month. Hours.	Difference from average. Hours.	Highest and Lowest Totals on record for Month: First year of record.	Highest. Hrs.	Year.	Lowest. Hrs.	Year.
1	London ... (Kew Obsy).	10	15	6	0	0	5·6	29	1437	−32	42	−2	1880	74	1891, 1905	16	1885
	Croydon ...	12	13	6	0	0	5·3	21	1562	+37	45	−3	1922	67	1927	25	1935
	Thorney Island **	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	8	17	5	11	0	6·5	8	1728	−37	47	−11	1921	91	1940	33	1941
2	Shoeburyness ...	10	13	7	1	0	6·4	8	1623	−33	59	+2	1919	77	1923	32	1941
	Gorleston ...	8	14	6	1	0	6·4	21	*	*	56	0	1908	84	1910	27	1915
	Cranwell ...	11	10	7	3	0	7·1	29	1531	−7	61	+6	1921	69	1932	30	1941
3	Birmingham ... (Edgbaston)	14	12	5	0	0	4·8	13	1306	+2	37	−7	1887	73	1905	8	1917
4	Ross-on-Wye ...	12	12	7	0	0	5·9	15	1432	−53	45	−10	1915	91	1933	34	1921
5	Falmouth ... (Observatory)	8	17	5	1	0	6·8	23	1555	−115	37	−23	1881	87	1895	22	1884
7	Holyhead (Valley)	*	*	*	*	*	*	*	*	*	*	*	1914	102	1933	29	1914
8	Chester ... (Sealand)	9	16	6	0	0	5·4	15	1462	+36	47	−6	1923	71	1933	33	1939, 1941
10	Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	1935	*	*	*	*
11	Leuchers ...	14	13	4	0	0	5·2	29	1587	+117	37	−21	1922	84	1931	21	1942
12	Renfrew ...	19	10	2	0	0	3·5	17	1168	−25	21	−13	1921	49	1931	9	1940
	Eskdalemuir ...	19	9	3	0	0	4·0	8	1247	+46	24	−11	1910	57	1940	12	1913
13B	Stornoway ...	11	16	4	0	0	5·4	7, 18	1116	−39	40	+13	1881	60	1939	12	1907
15	Aberdeen ...	18	6	6	1	0	6·5	29	1308	−21	41	−6	1881	85	1881	15	1885
18	Aldergrove ...	14	9	7	1	0	6·5	17	1308	−18	51	+9	1927	64	1928	27	1938
19	Birr Castle ...	8	16	7	0	0	5·4	17	1210	−96	51	+2	1881	91	1897	24	1884
20	Valentia ... (Cahirciveen)	10	17	3	1	0	6·3	17	*	*	37	−7	1880	128	1881	16	1898

District.	Stations.	Rainfall: ‡Number of days with amount: 0, trace or 0·1 mm.	0·2—1 mm.	1·1—5 mm.	5·1—15 mm.	15·1—25 mm.	Above 25 mm.	Maximum fall in 24 hours: mm.	Date.	Total for past 12 months. mm.	Difference from average. mm.	Total for Month.‡ mm.	Difference from average mm.	Highest and Lowest Totals on record for Month: First year of record.	Highest. mm.	Year.	Lowest. mm.	Year.	Days with Thunder.	Days with Snow or Sleet.
1	London ... (Kew Obsy).	10	5	9	5	2	0	20	13	636	+30	120	+75	1856	124	1877	11	1892	0	1
	Croydon ...	9	5	8	5	2	2	28	31	786	+107	154	+102	1921	137	1937	29	1935, 1929	0	2
	Thorney Island **	11	3	6	10	0	1	27	13	711	+18	133	+75	1881	181	1906	10	1880	1	2
	Lympne ...	7	7	7	8	1	1	32	13	719	−5	120	+64	1920	124	1939	30	1929	0	2
2	Shoeburyness ...	8	6	12	4	1	0	20	13	594	+91	92	+58	1920	93	1937	23	1932	0	2
	Gorleston ...	11	3	10	5	1	0	16	1	656	+34	95	+51	1871	142	1939	3	1880	0	7
	Cranwell ...	9	5	10	6	1	0	17	31	600	+10	98	+54	1917	95	1939	18	1932	0	6
3	Birmingham ... (Edgbaston)	5	7	10	8	0	1	32	31	731	+57	139	+88	1893	148	1939	21	1908	0	5
4	Ross-on-Wye ...	10	5	2	12	1	1	32	31	709	−8	161	+99	1859	156	1865	7	1898	0	2
5	Falmouth ... (Observatory)	1	3	16	8	3	0	22	31	946	−161	133	+26	1871	246	1875	25	1880	2	0
7	Holyhead (Valley)	9	4	8	9	1	0	17	30	863	−24	134	+60	1871	130	1877	19	1880	0	2
8	Chester ... (Sealand)	6	7	9	9	0	0	17	5	617	21	106	+59	1922	135	1936	31	1929	1	2
10	Tynemouth ...	11	8	8	4	0	0	9	31	502	−119	61	+20	1915	107	1939	15	1932	0	3
11	Leuchers ...	12	5	7	7	0	0	15	31	554	−39	81	+35	1922	124	1928	22	1929	0	6
12	Renfrew ...	7	8	6	10	0	0	15	24	998	+59	118	+33	1921	241	1928	22	1941	0	7
	Eskdalemuir ...	4	6	5	12	4	0	24	28	1505	+76	201	+64	1910	394	1928	43	1941	1	10
13B	Stornoway ...	7	6	10	7	1	0	16	9	1138	−63	109	−15	1870	373	1872	33	1881	*	*
15	Aberdeen ...	8	7	11	5	0	0	11	21	642	−106	75	+20	1871	125	1937	16	1905	0	4
18	Aldergrove ...	5	6	14	5	1	0	16	11	929	+91	101	+31	1926	143	1942	31	1935	0	5
19	Birr Castle ...	8	6	8	9	0	0	13	16	956	+129	129	+57	1862	148	1890	17	1881	*	*
20	Valentia ... (Cahirciveen)	4	4	8	11	4	0	25	16	*	*	211	+72	1866	296	1937	27	1935	*	*

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	2	10	7	11	1	0	0	0	0
Ross-on-Wye ...	1	2	7	10	11	0	0	0	0	0
Falmouth (Obsy.)	5	7	11	7	1	0	0	0	0	0
Renfrew ...	0	7	9	11	4	0	0	0	0	0
Eskdalemuir ...	1	5	12	6	6	1	0	0	0	0
Aberdeen ...	1	1	6	11	9	3	0	0	0	0
Valentia ...	0	3	6	11	8	3	0	0	0	0

STATE OF GROUND AT 18 h.

No. of Days each Type was recorded

Stations.	0	1	2	3	4	5	6	7	8	9
London (Kew) ...	0	30	0	1	0	0	0	0	0	0
Ross-on-Wye ...	0	30	0	0	0	0	1	0	0	0
Renfrew ...	0	13	13	4	0	0	1	0	0	0
Eskdalemuir ...	0	20	0	0	6	0	1	0	4	0
Aberdeen ...	0	24	0	1	3	0	0	1	2	0
Valentia ...	0	31	0	0	0	0	0	0	0	0

CODE for State of Ground.

0 Dry.
1 Wet.
2 Flooded.
3 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 in., but ground not frozen.
8 Covered with snow, less than 6 in., and ground frozen.
9 Covered with snow, greater than 6 ins. deep.

** The extremes and average of rainfall are supplemented by records from neighbouring stations.

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

PRESSURE: ICELAND TO GULF OF LIONS ..... January ..... 1943.

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 show 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.S.O. Press, M.O., Dunstable.

Ps 394/4414 Wt.8142 D.2558 Gp 348/6 400 2/43.

SECRET

Page 1 BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Friday 1st January 1943.

No. 29625

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

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)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	11·5	+14	NW	3	Z₀	44	65	34	6	-	-	-	0	0	-
	Croydon	12·1	+6	NW'W	4	Z₀	44	85	39	5	-	-	-	0	0	-
	S. Farnborough	12·1	+6	WNW	4	b	45	75	36	8	1	4	-	Tr	Tr	2000
	Boscombe Down	14·1	+10	NW	5	b-bc	46	65	34	8	5	-	1	2-3	2-3	4000
	Thorney Island	12·7	+10	NW'W	5	b	46	75	36	8	1	-	4	Tr	Tr	2500
	Lympne	10·1	+10	NW'N	5	Z₀	43	75	36	6	-	3	-	0	Tr	-
	Manston	09·2	+14	NNW	5	Z₀	43	75	35	6	-	-	-	0	0	-
2	Shoeburyness	10·8	+8	NNW	4	Z₀	43	75	34	6	-	-	-	0	0	-
	Felixstowe	08·6	+16	NW	4	Z₀	42	75	33	6	-	-	-	0	0	-
	Gorleston	08·2	+18	NW'N	3	b-bc	42	75	34	7	-	4	-	0	2-3	-
	Mildenhall	09·2	+10	WNW	4	Z₀	40	75	34	6	-	-	-	0	0	-
	Cranwell	09·9	+6	WNW	4	Z₀	44	65	34	6	5	-	-	Tr	Tr	3500
3	Birmingham	12·7	+6	WNW	3	c/pr	41	85	37	6	8	3	-	2-3	9	1500
	Upper Heyford	12·0	+8	NW'W	3	b-bc	43	85	37	7	-	3	-	0	2-3	-
4	Ross-on-Wye	14·0	+6	NW	2	bc	46	65	34	8	5	-	9	4-6	4-6	3500
5	Hartland Point	16·6	-2	N	4	c	47	55	34	8	5	6	-	4-6	9	2000
	Bristol	15·3	+10	NW	3	cjp	48	65	38	7	4	-	-	9	9	2500
	Portland Bill	15·2	+12	W	4	c-bc	48	75	41	8	2	4	-	4-6	7·8	4000
	Plymouth	16·8	+14	NW'N	5	bc	49	75	40	8	5	-	2	2-3	4-6	4000
	The Lizard	18·0	+2	NW	5	bc	48	75	39	8	8	6	-	4-6	4-6	2000
	Scilly (St. Mary's)	19·8	+4	NW'N	4	c	50	65	39	8	8	6	-	9	9+	1200
	Guernsey															
6	Pembroke	17·4	+2	NNW	4	c-bc	48	75	41	8	8	4	-	4-6	7·8	3000
7	Holyhead (Valley)	15·0	+2	NW'W	5	c	46	75	38	8	8	4	-	7·8	9	3000
	Chester (Sealand)	12·8	+10	NW	3	c/pr	45	75	39	8	8	-	-	9+	9+	2500
8	Manchester	11·9	+4	WNW	4	bc	43	85	37	7	4	6	-	4-6	4-6	4000
10	Spurn Head	08·1	+6	NW'N	6	bc	43	75	35	7	5	3	-	0	4-6	2500
	Catterick	09·6	+8	W	3	b-bc	45	65	34	8	5	3	-	1	2-3	3500
	Tynemouth	08·1	+4	W	4	b-bc	43	75	37	6	-	4	-	0	2-3	-
11	St. Abbs Head	05·4	0	WNW	4	bc	43	55	29	7	4	4	-	4-6	4-6	4000
	Leuchars	05·4	+8	WNW	4	c-bc	44	55	29	8	8	3	-	7·8	7·8	2500
12	Renfrew (Abbots I.)	08·1	+2	W	4	c-bc	44	65	31	9	8	3	-	7·8	7·8	2000
	Eskdalemuir	08·[illegible]	+4	WSW	3	bc	40	75	32	8	7	4	1	4-6	4-6	3500
	Point of Ayre	12·0	+4	NNW	5	c/pr	44	97	43	8	6	6	-	7·8	9+	2000
13A	Tiree	10·2	-6	NW'W	6	c-bc	45	65	34	8	8	3	9	4-6	7·8	2000
13B	Stornoway	08·2	+18	NW	4	c	41	65	29	8	5	-	-	10	10	2500
15	Dalwhinnie	08·0	+6	NW	3	c	37	75	28	8	5	-	-	9+	9+	2500
	Aberdeen	03·4	+14	NW'N	6	bc	39	65	31	8	8	-	-	4-6	4-6	3500
	Wick	02·4	+16	NW	7	prs	36	85	32	7	9	-	-	9+	9+	1500
16	Sumburgh	17·3	+50	NW	8	ps	37	65	26	7	9	-	3	7·8	7·8	1500
17	Blacksod Point	17·7	-10	W	3	c	48	97	47	8	8	-	-	9+	9+	2500
18	Malin Head	12·0	-10	NW'N	5	pr	46	75	39	8	8	2	-	7·8	10	1500
	Aldergrove	13·4	+2	W'S	4	c	44	75	36	7	5	7	-	7·8	9	2500
19	Birr Castle	17·8	-6	WSW	2	c	46	75	39	8	5	1	-	7·8	9+	2500
20	Valentia Obsy.	20·6	-8	WNW	3	d/pr	50	85	46	8	5	-	-	10	10	1500
	Roches Point	19·1	-4	NW	5	c-bc	48	75	41	8	5	3	-	4-6	7·8	2500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Weather 7h.–13h. 31st (39)	Weather 13h.–18h. 31st (40)	Weather 18h. 31st to 1h. 1st (41)	Weather 1h.–7h. 1st (42)
London (Kew)	13·7	+14	W'S	2	Z₀	42	75	36	5	5	2	-	7·8	9+	2500	1	*	bm₀bz₀	bz₀cz₀	cm₀	r₀tir₀m
Croydon	13·8	+10	NW'W	4	m	43	92	41	4	5	-	-	9	9	3000	1	*	cmbm₀	bcm₀bcmcm	cmidcm	cm₀r₀r₀
S. Farnborough	13·9	+8	WSW	3	Z₀	41	85	36	6	5	-	-	10	10	3400	1	*	b cb	bccm₀	cm₀ccm₀	cir₀r₀m
Boscombe Down	16·6	+18	WSW	3	Z₀	42	75	34	6	4	3	-	4-6	9	3000		*	bc	bccm₀	cbccm₀	cm₀cr₀m
Thorney Island	14·6	+6	WNW	3	Z₀	44	75	37	6	5	3	-	4-6	9+	4100	1	*	b	bccm₀	cbccm	cr₀r₀d₀m₀
Lympne	13·1	+18	W	2	m	38	85	33	4	-	-	7	0	10	-	1	3	cbm₀	bm₀bcm	omcm	omid₀r₀
Manston	11·9	+18	NW'W	3	Z₀	40	85	37	5	-	-	6	0	4-6	-	1	*	cm₀	bz bcm	om₀	cz₀r₀r₀m₀
Shoeburyness	12·4	+6	W'N	4	Z₀	41	85	35	5	5	-	-	4-6	10	4000	6	*	cm₀bm₀	bm₀bcm₀	bcm₀r₀r₀	cm₀r₀r₀
Felixstowe	11·0	+12	W	3	Z₀	38	85	33	6	-	-	6	0	4-6	-	1	3	bcm₀bm₀bz₀	bz₀bcm₀bc	bcm₀cm	cir₀orm
Gorleston	10·1	+18	W'N	2	Z₀	38	75	31	5	5	-	-	1	1	1500	1	2	bc	bcbz₀	bbcz₀x	bczxwr₀
Mildenhall	10·9	+14	W	4	Z₀	38	85	34	6	-	4	-	0	2-3	-	6	*	omm₀cb	bz₀bcm₀	bcm₀cm₀	cm₀cr₀m₀
Cranwell	10·4	+2	WNW	3	Z₀	39	85	36	5	-	4	-	0	1	-	1	*	bm₀	bcm₀bm₀	bcm₀cm₀	cd₀r₀r₀rm₀
Birmingham	13·0	-2	WNW	3	Z₀	42	75	35	6	-	7	-	0	9	-	1	*	bccpr₀	c		orr
Upper Heyford	13·4	+6	WSW	1	Z₀	38	92	35	6	5	7	-	7·8	9	3100	1	*	bcbm₀b	bp₀r₀cm₀	cm₀bm₀c	m₀r₀r₀id₀
Ross-on-Wye	14·3	0	W	3	c	43	75	84	8	5	7	-	1	10	3000	1	*	bbcc	bcc	ccr	rcc
Hartland Point	16·8	+4	NW	4	c	47	65	36	8	5	6	-	7·8	9+	2500	1	4	bccy	c	cbcdf	rritc
Bristol	15·6	+2	WNW	2	c	44	75	36	6	5	7	-	7·8	10	3500	1	*	bc	bccz₀	cm₀cir₀	cr₀rm
Portland Bill	16·9	+8	W	4	c	47	75	40	7	5	-	-	10	10	4000	1	5	c	c	corr	orrd
Plymouth	17·4	+4	NNW	5	Z₀	46	85	41	6	5	7	-	4-6	9	4000	1	3	bcc	bcc	cm₀	r₀r₀d₀d₀m₀
The Lizard	18·2	+6	NNW	5	c	48	75	39	8	8	2	-	7·8	9+	1500	1	4	bccbc	bcc	bcpr₀	cprrr
Scilly (St. Mary's)	19·7	0	NW	3	c	48	65	38	8	5	7	-	4-6	9+	1500	1	4	cqc	c	cid₀c	cid₀
Guernsey																					
Pembroke	16·5	-2	NNW	6	c-bc	47	75	39	8	8	-	-	7·8	7·8	4000	1	3	cbc	c	cirrrq	cq
Holyhead (Valley)	14·8	+2	WNW	4	c	45	85	39	7	8	3	-	7·8	9+	3000	1	3	cbcc	cpr₀c	cor₀r₀	rrd₀d₀c
Chester (Sealand)	12·9	+2	NW	3	c	45	75	37	7	5	7	-	9	10	2500	1	*	c,bcpr	c	cm₀r₀r₀	cr₀r₀m₀
Manchester	12·1	+2	WNW	4	bc/pr	41	85	38	6	4	6	-	4-6	4-6	2000	1	*	bcm₀m	bccprm₀	bcpr₀cm₀	rrr₀r₀
Spurn Head	09·0	+4	WNW	5	b-bc	41	85	36	7	-	4	-	0	2-3	-	0	4	bc	bc	o	orr
Catterick	09·7	+4	WNW	3	bc	42	75	33	8	-	3	-	0	4-6	-	1	*	bbc	bccbc	bccm₀	crrr₀r₀
Tynemouth	08·4	+2	W	4	b-bc	41	85	37	6	-	4	-	0	2-3	-	1	3	bc	bccbc	bcco	orr
St. Abbs Head	07·5	+8	WNW	2	bc	42	65	32	7	5	-	-	4-6	4-6	2500	0	3	bbccbbc	cbc	bccbc	brrfrrr
Leuchars	07·7	+14	WNW	3	c	41	65	31	8	5	-	-	9+	9+	2000	1	*	bcbbcc	cyc	cid₀m₀c	cr₀r₀m₀rrm
Renfrew (Abbots I.)	08·5	+2	W'S	3	pr	42	75	34	7	8	7	-	4-6	4-6	2000	1	*	bcpr₀bcc	cbcpr₀	cm₀r₀r₀	cm₀d₀d₀
Eskdalemuir	09·3	0	WNW	3	bc	38	85	33	8	5	-	-	4-6	4-6	3500	4	*	bcc	cpr₀c	bcc	cos₀s₀
Point of Ayre	11·3	-4	NW'N	6	bc	45	85	40	7	8	4	-	2-3	4-6	2000	1	5	cprc	prRc	pcrr₀	rrr₀r₀
Tiree	08·6	-12	WNW	4	c-bc/pr	43	75	36	8	2	3	-	4-6	7·8	2000	1	4	cpr₀c	cpr₀c	pr r₀r₀r	rr₀d₀rr
Stornoway	06·4	-18	W	2	c-bc	39	85	35	8	5	7	-	4-6	7·8	2500	1	*	zbccpr₀c	ccor₀c	cir₀id₀d₀id₀	cir₀r₀rm₀
Dalwhinnie	07·4	-2	NNW	2	c-bc	36	75	29	7	5	-	-	7·8	7·8	2500	4	*	bcrsc	cprs	*	cp₀s₀
Aberdeen	06·0	+16	NW	3	c	38	75	29	7	5	-	-	10	10	2500	4	2	bccqprbc	bcc	c	cz₀f
Wick	03·4	+2	NW	5	c/pr	37	85	32	8	8	-	-	9+	9+	2500	1	*	cphscprs	ccpr₀s₀c	cir₀	cid₀c
Sumburgh	99·8	+8	NW'W	6	c/ps	36	65	26	7	8	6	-	7·8	9	2500	4	5	cpr₀ps₀	cps₀	cps₀c	cid₀c
Blacksod Point	13·1	-30	W	1	rr	47	97	46	7	-	2	-	10	10	1500	1	2	c	r	d	r
Malin Head	10·1	-14	W'N	3	c-bc	45	75	37	8	8	2	-	4-6	7·8	1500	2	4	pr	pr	r	r
Aldergrove	12·7	-4	W'S	3	c-bc	42	92	39	7	5	-	-	7·8	7·8	2500	1	*	cbcc	cpr₀c	crrm₀	crr cid₀r₀
Birr Castle	15·2	-14	W	1	id₀	45	85	41	7	5	-	-	10	10	1500	1	*	c	d	*	r
Valentia Obsy.	18·3	-14	W'N	4	pr	50	92	48	7	8	-	-	9	9	2500	1	3	pr	pr	s	r
Roches Point	17·8	-6	W	2	c/d	47	92	45	8	5	-	-	9+	9+	800	1	4	c	d	r	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 1st January 1942.

Districts	Forecast
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 westerly winds, strong to gale in exposed places, veering north and moderating. Cloudy, with periods of rain, becoming fair with appreciable clear areas later, but a few showers Irish Sea area, and sleet showers eastern coastal districts of England. Mild, becoming cold.
11 S.E. Scotland; 12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Moderate or fresh northeasterly winds, backing north; rain at first; snow showers later in exposed places and appreciable clearances to lee of high ground, cold to very cold, with local ground frost tonight.
16 Orkneys and Shetlands	Moderate northwest to north winds, snow showers; very cold.
17 N.W. Ireland; 18 N.E. Ireland; 19 S.E. Ireland; 20 S.W. Ireland	Fresh or strong northwesterly winds, gale on coasts, veering north and moderating; cloudy, with some rain, soon becoming fair with a few showers; mild becoming cold.

(Gale warning arrows ↑ are marked against districts 1, 2, 5, 6, 7, 12, 17, 18, 19 and 20.)

GENERAL INFERENCE

Deepening depression just North of Ireland moving quickly east southeast. Cloudy with rain at times in all parts, followed by fair weather apart from scattered showers in the west, snow showers in exposed places in Scotland, and sleet showers eastern coastal areas of England. Mild at first in Ireland, Wales and England, becoming cold or very cold generally. Westerly gales coastal areas Ireland, Wales and England at first.

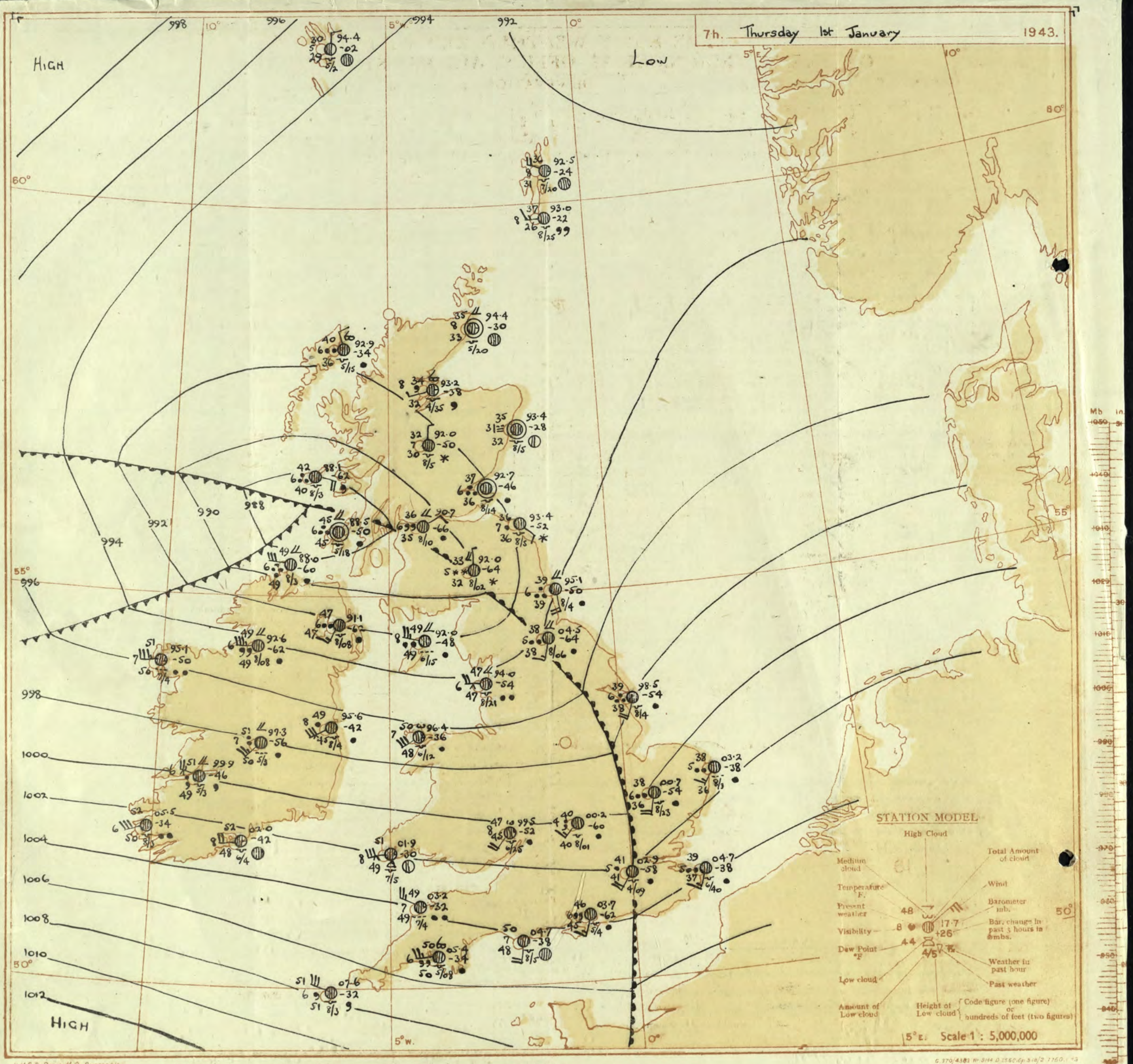
FURTHER OUTLOOK

Temporary fair period; rain spreading from west later, with chance of snow in Scotland.

Warning of west northwesterly gale in operation in districts 1 and 2 time of issue 1100 1st January 1942 and districts 5, 6, 7, 12, 17, 18, 19, 20 Time of issue 2100 31st December 1942.

Forecasts issued at 1030

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

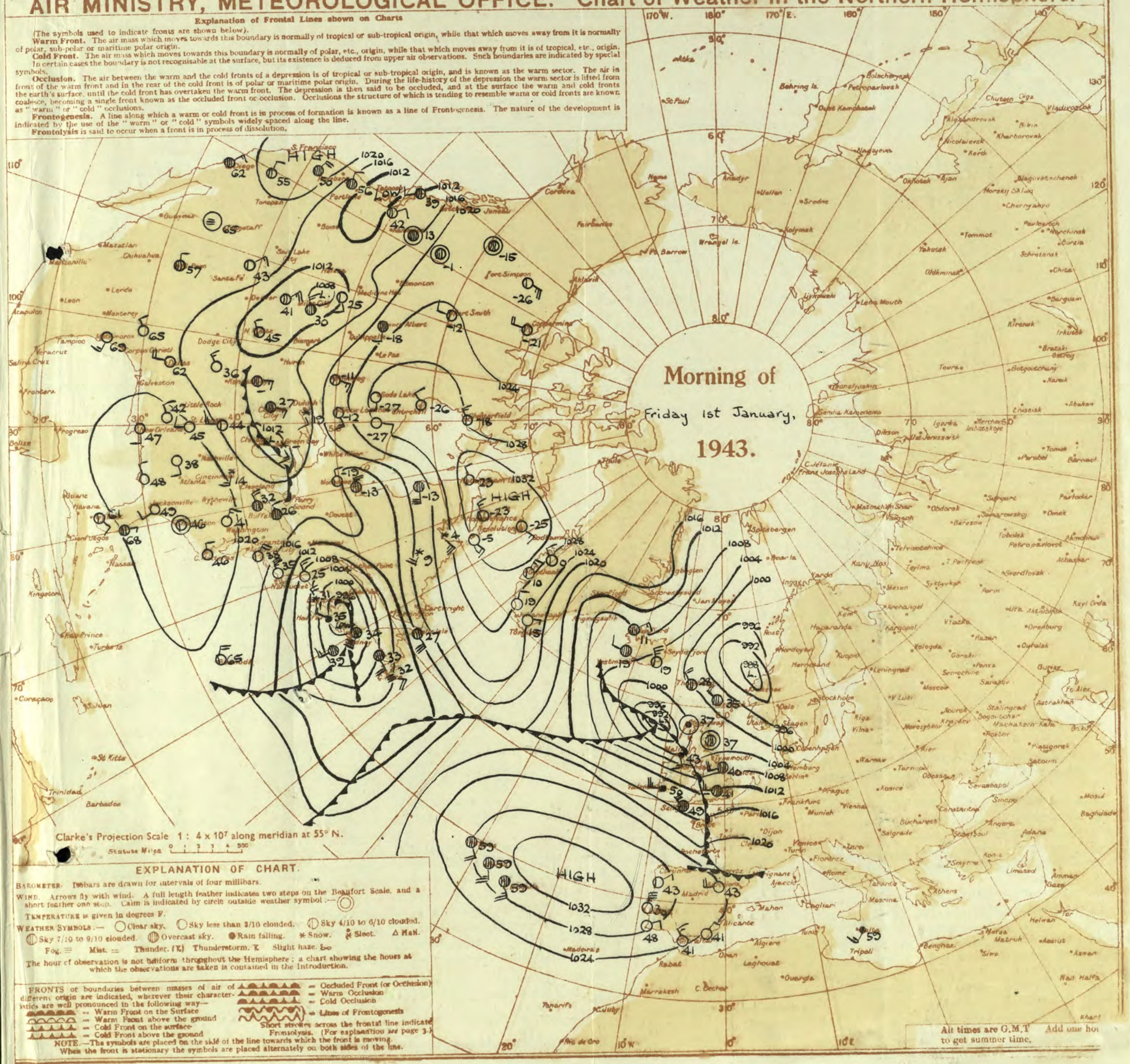
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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.

FRONTS of boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Friday 1st January 1943

No. 29625

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	40	*	*	*	*	*	*	*	*	*
	Croydon	290	12·1	-10	W	3	z_0	41	85	38	5	5	-	-	10	10	2200
	S. Farnborough	226	11·6	-2	SW'W	3	z_0	40	85	37	6	5	7	-	7-8	10	2800
	Boscombe Down	417	13·2	-18	SW'W	3	z_0	40	92	37	6	3	-	-	10	10	4500
	Thorney Island	10	12·9	-14	W	1	z_0	41	92	39	6	5	-	-	9	9	6100
	Lympne	283	11·6	-14	NW	2	m	39	85	35	4	-	7	7	0	10	-
	Manston	154	10·8	-14	WNW	2	z_0	41	75	35	5	6	-	-	10	10	5700
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	09·6	-14	W'S	4	m	39	85	35	4	-	2	-	0	10	-
	Gorleston	5	09·3	-6	W'S	2	z_0	34	85	30	6	-	4	-	0	2-3	-
	Mildenhall	15	09·2	-14	SW'W	3	z_0	37	85	34	6	5	-	-	10	10	4800
	Cranwell	203	08·0	-24	WSW	2	id_0	39	97	38	5	5	2	-	9	10	2500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	10·0	-30	WSW	1	z_0	39	92	36	6	5	-	-	10	10	3300
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	09·7	-50	W	5	+f	48	97	48	3	-	-	-	10	10	<150
	Bristol	209	11·7	-30	W	1	t_0t_0	42	92	40	5	-	2	-	10	10	2800
	Portland Bill	32	13·3	-24	WSW	4	++	48	85	44	7	5	-	-	10	10	2500
	Plymouth	82	13·3	-30	WSW	4	it_0	48	85	45	6	5	-	-	10	10	1000
	The Lizard	240	13·5	-34	WNW	6	c/p+	49	97	49	8	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	14·2	-34	WNW	6	c/d	49	97	47	6	5	-	-	10	10	1000
	Guernsey	175															
6	Pembroke	142	09·0	-46	W'N	6	++	49	97	49	8	8	-	-	10	10	2500
7	Holyhead (Valley)	32	05·4	-58	S'W	5	++	45	97	44	6	6	2	-	4-6	10	600
	Chester (Sealand)	16	07·1	-38	SW	3	t_0t_0	43	75	37	6	5	-	-	10	10	1200
8	Manchester	235	07·5	-32	S'W	3	z_0	40	85	36	6	5	-	-	7-8	10	1800
10	Spurn Head	29	06·9	-22	W'S	4	z_0	40	85	36	6	5	-	-	10	10	1500
	Catterick	175	05·6	-28	W	1	z_0	38	85	35	6	5	-	-	10	10	3000
	Tynemouth	108	05·2	-28	W	2	o	40	92	38	6	5	-	-	10	10	1500
11	St. Abbs Head	280	02·4	-32	W	3	bc	37	85	35	7	5	-	-	4-6	4-6	2500
	Leuchars	36	01·8	-34	WNW	2	c	37	85	34	7	5	2	-	4-6	10	3000
12	Renfrew (Abbots I.)	19	02·6	-38	-	0	t_0t_0	39	97	38	5	-	2	-	10	10	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	04·0	-46	SW'W	2	++	41	97	40	7	*	2	*	10	10	2500
13A	Tiree	44	99·9	-50	S'E	1	++	41	92	39	6	6	2	-	9	10	800
13B	Stornoway	15	00·4	-34	-	0	id_0	37	97	36	7	5	-	-	10	10	1400
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	01·1	-34	-	0	c	37	75	31	7	5	-	-	9+	9+	6000
	Wick	114	00·6	-28	SW	3	id_0	35	97	34	7	5	-	-	7-8	7-8	2000
16	Sumburgh	19	97·9	-14	W'N	5	c/ph	37	65	26	7	5	-	-	9+	9+	2000
17	Blacksod Point	18	03·8	-32	W'N	4	c-bc/d	51	97	50	7	6	-	-	7-8	7-8	1500
18	Malin Head	84	97·8	-78	S'E	3	t_0t_0	43	92	41	7	-	2	-	10	10	800
	Aldergrove	268	02·2	-66	SE'S	1	++	41	97	40	6	5	-	-	10	10	700
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	11·8	-30	W	5	t_0t_0	50	97	49	6	6	-	-	10	10	800
	Roches Point	22	09·8	-48	WSW	4	c-bc	48	92	46	8	6	-	-	7-8	7-8	1500

OBSERVATIONS at 7 hr. G.M.T. 1st January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Temperature Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 31st Hrs. (38)
London (Kew)	01·8	-62	SW'S	3	it_0	41	97	40	6	5	-	-	10	10	800	1	*	45	40	37	-	1	5·4
Croydon	02·9	-58	SW	4	it_0	41	97	41	5	5	-	-	4-6	10	900	1	*	44	39	38	-	1	4·5
S. Farnborough	02·4	-54	S'W	4	d_0d_0	41	97	41	5	5	-	-	10	10	500	1	*	45	39	34	-	2	5·9
Boscombe Down	02·6	-52	SW'S	4	d_0d_0	44	97	43	5	6	2	-	4-6	10	200	1	*	46	38	33	-	3	2·9
Thorney Island	03·7	-62	SSW	3	d_0d_0	46	97	45	6	5	-	-	7-8	10	1500	1	*	47	39	31	Tr	2	0·0
Lympne	04·9	-38	WSW	2	t_0t_0	39	97	38	5	5	2	-	7-8	10	2800	1	§3	43	37	·	-	1	5·4
Manston	04·7	-38	SSW	3	t_0t_0	39	92	37	5	5	-	-	9	10	4000	1	*	43	38	30	-	1	5·0
Shoeburyness	04·4	-32	WNW	4	t_0t_0	40	92	38	5	5	-	-	10	10	1500	1	*	43	39	31	0·6	1	5·7
Felixstowe	03·4	-44	SW'S	4	t_0t_0	39	92	38	4	-	2	-	10	10	2600	1	3	43	36	31	0·6	0·3	[illegible]
Gorleston	03·2	-38	SW'S	3	t_0t_0	38	92	36	5	6	-	-	10	10	800	1	3	42	34	31	-	1	5·4
Mildenhall	00·7	-54	S'W	4	t_0t_0	38	97	36	6	5	-	-	10	10	2300	6	*	41	35	30	1	1	4·6
Cranwell	97·9	-64	S	3	t_0t_0	39	97	38	6	-	2	-	10	10	2000	1	*	44	34	30	-	3	5·2
Birmingham	98·5	-52	SSW	3	t_0t_0	42	97	42	4	6	-	-	10	10	800	1	*	43	38	35	0·4	5	0·1
Upper Heyford	00·2	-60	SW'W	3	dt	40	97	40	4	5	-	-	10	10	100	1	*	43	37	32	0·1	2	*
Ross-on-Wye	99·5	-52	SW	4	c	47	92	45	8	5	3	-	9	9+	2500	1	*	48	41	39	-	2	3·3
Hartland Point	03·2	-32	WNW	5	c/+	49	97	49	7	6	-	-	9+	9+	1500	1	4	48	46	44	-	3	0·0
Bristol	02·3	-42	WNW	5	d_0d_0	48	97	48	5	-	2	-	10	10	700	1	*	48	41	39	-	5	4·4
Portland Bill	04·7	-38	S	4	o	50	92	48	7	5	-	-	10	10	2500	1	4	48	43	*	-	1	*
Plymouth	05·4	-34	W	5	d_0d_0	50	97	50	6	5	7	-	7-8	10	800	1	3	49	45	43	-	1	3·4
The Lizard	00·6	-38	WNW	7	t_0t_0	50	97	50	6	5	-	-	10	10	1000	1	5	49	46	*	-	2	2·5
Scilly (St. Mary's)	07·6	-32	WNW	6	id_0	51	97	51	6	5	-	-	10	10	800	1	5	50	47	*	-	1	0·1
Guernsey																							
Pembroke	01·9	-30	W	6	cq	51	97	49	8	8	-	-	9+	9+	2500	1	3	48	47	*		3	1·2
Holyhead (Valley)	96·4	-36	W'S	6	c	50	92	48	7	5	3	-	9	9+	1200	1	4	47	44	34	0·6	6	*
Chester (Sealand)	95·7	-48	WNW	4	it_0	50	85	46	7	5	1	-	9	10	1600	1	*	46	41	38	1	4	0·5
Manchester	95·6	-62	SSW	4	++	42	97	42	5	6	2	-	7-8	10	450	1	*	45	39	36	1	5	*
Spurn Head	98·5	-54	S'W	4	++	39	97	38	6	5	-	-	10	10	1500	1	3	43	38	*	-	2	5·4
Catterick	04·5	-64	SSW	3	t_0t_0	38	97	38	5	-	2	-	10	10	600	1	*	45	32	27	-	2	4·1
Tynemouth	95·1	-50	S	4	++	39	97	39	6	-	2	-	10	10	1500	1	4	43	39	34	-	4	*
St. Abbs Head	93·4	-52	SE	2	it_0	36	97	36	7	5	-	-	10	10	2500	1	3	43	38	*	-	3	*
Leuchars	92·7	-46	-	0	++	37	97	36	6	5	-	-	10	10	1400	1	*	44	36	33	-	1	3·0
Renfrew (Abbots I.)	90·7	-66	ENE	2	d_0d_0	36	97	35	6	-	2	-	10	10	1000	2	*	44	36	35	Tr	8	2·6
Eskdalemuir	92·0	-64	N	1	S_0S_0	33	97	32	5	-	2	-	10	10	200	7		41	33	31	0·1	7	3·6
Point of Ayre	92·0	-48	W'N	5	t_0t_0	49	97	49	8	6	2	-	9	10	1500	1	4	47	41	*	5	6	0·2
Tiree	88·1	-62	ESE	4	++	42	92	40	6	5	-	-	10	10	800	1	3	46	40	38	0·3	4	0·2
Stornoway	92·9	-34	NNW	2	t_0t_0	40	85	36	6	5	7	-	7-8	10	1500	1	2	44	35	33	1	1	0·0
Dalwhinnie	92·0	-50	N	1	o	32	92	30	7	5	-	*	10	10	2500	7	*	38	32	30	1	1	0·6
Aberdeen †	93·4	-28	-	0	cf+	35	85	32	3	5	-	-	10	10	2500	4	2	40	34	30	0·4	-	1·0
Wick	94·4	-30	-	0	c	35	92	33	8	5	2	-	7-8	9	2000	1	*	42	34	32	2	0·5	*
Sumburgh	93·0	-22	W	3	c/d	37	65	26	8	5	-	-	10	10	2500	1	4	43	34	31	1	Tr	0·3
Blacksod Point	95·1	-50	W	7	c/+	51	97	50	7	6	-	-	9+	9+	1500	2	5	48	46	*	2	9	*
Malin Head	88·0	-60	W'N	6	RR	49	97	49	6	-	2	-	10	10	800	2	5	48	40	-	6	13	0·6
Aldergrove	91·1	-62	SW'S	3	r_0r_0	47	92	47	6	5	-	-	10	10	800	1	*	45	40	38	0·1	8	1·1
Birr Castle	97·3	-56	WSW	5	ir	51	97	50	7	6	2	-	7-8	10	[illegible]	1	*	47	43	42	Tr	6	0·0
Valentia Obsy.	05·5	-34	W'S	6	c/+	52	92	50	6	5	-	-	10	10	[illegible]00	1	4	50	49	47	0·3	2	0·0
Roches Point	02·0	-42	W	4	c	52	85	48	8	5	-	-	9	9	1500	1	4	49	46	*	0·2	3	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 31st December $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 1st January $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	9-	27656	61585	3-	81667	28587	8-	81668	26288	5-	51648	00028
115	52	14844	95787	87	88844	28587	87	81735	28488			
203												
206	86	02866	26287	86	02865	28187	57	02854	26358	57	51864	22156
210	6-	02856	59627	5-	02865	57427	5-	02858	20228	01	02890	14228
220	80	25756	27486	80	01645	26385				62	64635	12368
230	93	25756	57587	9-	01854	26484	5-	64848	00068	5-	61848	14168
245	80	02954	63515	83	02856	00027	5-	02778	24228	5-	62638	00068
260	54	01773	23314				5-	05568	20218	02	62648	08278
278	83	02866	61625	87	25846	24387	5-	62748	19368	57	61737	22467
279	34	10855	26315	55	02864	22325	5-	64648	22368	62	62635	22268
285				23	01643	28414						
288	03	01890	25313	54	05662	18324	5-	05668	18318	02	64648	13468
575	5-	02758	30228	5-	02848	30288	02	52638	18468	02	52638	57768
301	86	81756	26587	5-	25655	28485	62	62546	24268	52	22658	57468
321	07	05690	26414	04	05590	26323	52	61456	20268	52	62536	18468
[illegible]	44	01763	24313	54	01763	26214				5-	62648	22368
292	9-	02866	25326	54	01862	23224				62	48368	94538
310				--	51428	24458						
614	5-	05554	26304	54	05654	24366				5-	64448	20468

III	13h. G.M.T. 31st December $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 1st January $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	86	01864	59514	57	25755	26487	52	62635	19268	5-	05666	24426
334	--	01652	20114							--	64447	20268
340	8-	25744	28285	83	81764	28385	5-	61558	22228	5-	02758	20268
136	00	05690	62420	00	05690	25310	5-	05666	21316	5-	64515	22368
336	23	01754	28415	57	02654	24428				20	25656	28586
350	00	05690	27300	8-	05657	25227	5-	05565	22325	52	62646	51368
368	80	01855	28215	64	02755	26216	52	62745	24368	52	61646	53568
379	5-	02757	28487	53	00764	28314	5-	05667	24327	--	57109	26469
390	00	05690	28400	53	47365	28315	53	08468	24348	52	67347	21368
382	57	01763	27413	57	05653	24324	03	08690	21328	62	52534	20398
438	44	01758	28313	40	01654	28314	50	01653	28313	52	62746	28468
430	10	01852	20303	5-	05657	24228	57	05662	00015	52	62553	22368
409	5-	02857	30627	57	02854	30525	52	01637	23568	5-	52528	23668

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ See disturbance reported from Dungeness. † 01h observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 1st January 1943. Day 7h—18h Kew and Croydon, 9h—18h Kensington, 9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew	bm_0bz_0	bz_0cz_0	$cm_0r_0m_0$	Kew 24 hours ended 7h.
Croydon	$cmbm_0$	bcm_0bcm	$cmd_0d_0d_0$	0·4 [illegible] on 31st
Greenwich	bm_0	bcm_0m	$crrid_0m_0$	Max. Time
Camden Square	b	b	*	<0·1 3-6h on 1st
Kensington	bc	bco	*	
Hampstead	bc	bc	bcor	

Stations	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 % Yesterday	Humidity 9h % To-day
Kew	45	40	37	-	1	5·4	*	*
Croydon	44	39	38	-	1	4·5	*	*
Greenwich	44	39	33	-	1	2·8	72	96
Westminster	46	39	32	1			75	97
Regents Park	44	40	36	-	1		75	92
Camden Square	44	42	32	-	2	*	*	93
Kensington	46	40	35	Tr	1		94	96
Hampstead	43	37	32	-	1		*	98

SECRET

Page 1 BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday 2nd January 1943.

No. 29626

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1 SE	London (Kew)	89·6	-64	SW'W	4	c/r	47	97	46	6	5	-	-	10	10	800
SE	Croydon	91·4	-72	SSW	5	roro	49	92	47	6	6	2	-	9+	10	800
SE	S. Farnborough	91·1	-62	SW'W	5	c/pr	49	92	47	7	8	-	-	9+	10	500
SE	Boscombe Down	91·7	-54	SW	6	dodo	49	97	49	6	5	-	-	10	10	400
SE	Thorney Island	93·8	-62	WSW	5	iro	50	92	48	6	5	-	-	7·8	10	800
SE	Lympne	95·4	-44	SSW	2	roro	48	97	47	8	5	2	-	9+	10	600
	Manston	92·0	-64	WSW	4	c/r	49	92	46	7	6	2	-	9	10	600
2	Shoeburyness	91·4	-66	SW	4	c	48	97	46	7	6	2	-	9	10	1500
SE	Felixstowe	89·6	-74	SW	4	iro	45	97	44	5	5	-	-	10	10	1200
SE	Gorleston	88·2	-80	SW'W	6	roro	44	92	41	6	6	-	-	10	10	800
SE	Mildenhall	87·4	-72	SSW	4	rr	47	92	45	6	5	2	-	7·8	10	800
N	Cranwell	85·4	-68	SW'W	5	rs	47	97	47	6	5	2	-	9	10	600
3	Birmingham	86·3	-64	WSW	4	c/r	48	92	46	7	6	-	-	9+	9+	800
SE	Upper Heyford	87·7	-66	SW	5	roro	49	97	47	8	6	-	-	9+	10	600
4 SW	Ross-on-Wye	89·0	-60	W'N	4	ir	51	85	47	7	6	-	-	9+	9+	1500
5 SW	Hartland Point	94·2	-50	NW	6	ir	51	97	50	7	5	6	-	7·8	9	800
SW	Bristol	91·7	-64	W	6	dd	50	97	49	6	6	-	-	9+	9+	800
SW	Portland Bill	95·0	-62	SW	5	rr	51	92	49	7	5	-	-	10	10	2500
SW	Plymouth	97·1	-50	WNW	7	iro	52	92	51	7	5	-	-	10	10	800
SW	The Lizard	99·1	-52	WNW	7	roro	51	97	51	6	5	-	-	10	10	1000
SW	Scilly (St. Mary's)	00·1	-32	WNW	8	c	52	92	49	6	5	-	-	10	10	800
	Guernsey															
6 SW	Pembroke	93·2	-34	NW	6	ir	51	85	45	7	8	-	-	9	9	2500
7 N	Holyhead (Valley)	88·3	-28	WNW	7	c	49	85	46	8	8	-	-	9	9	2000
N	Chester (Sealand)	86·3	-46	WNW	4	pr	49	75	42	8	8	-	-	9	9	2500
8 N	Manchester	85·2	-64	W	6	roro	47	85	44	6	9	-	-	9+	9+	2500
10 N	Spurn Head	84·7	-68	SSW	4	roro	44	97	43	5	5	-	-	10	10	450
N	Catterick	81·4	-62	WSW	3	c/f	47	75	40	6	5	2	-	7·8	10	1500
N	Tynemouth	82·0	-50	SSE	3	rf	40	97	40	3	-	2	-	10	10	1700
11 S	St. Abbs Head	84·7	-44	NNE	3	rr	39	97	38	7	6	2	-	7·8	10	2000
S	Leuchars	86·5	-14	NNE	4	rr	37	92	35	6	6	2	-	7·8	10	800
12 S	Renfrew (Abbots I.)	86·4	+2	NE	3	roro	37	85	34	7	5	2	-	7·8	9+	2000
S	Eskdalemuir	82·5	-32	N'E	2	rs	34	97	33	6	-	2	-	10	10	800
I	Point of Ayre	82·9	-34	NW'W	7	cjp	48	85	44	8	6	2	-	7·8	10	1800
13A S	Tiree	90·8	-36	NE'N	4	b	43	75	34	9	2	4	3	1	1	2000
13B S	Stornoway	95·3	+26	N	4	c	39	65	28	8	5	-	-	9+	9+	3000
15 S	Dalwhinnie	90·0	+2	NE	2	ScSc	32	92	30	6	5	-	-	2-3	10	2500
S	Aberdeen	89·4	-12	N	2	roro	36	97	35	8	5	2	-	7·8	10	2500
S	Wick	92·4	0	NNE	2	c	37	75	29	9	8	2	-	7·8	9+	2500
16	Sumburgh	91·3	-10	NW'W	4	prs	36	97	36	9	8	6	2	7·8	9	1500
17 I	Blacksod Point	94·4	+2	WNW	6	c-bc/pr	50	92	48	8	9	-	-	7·8	7·8	1500
18 I	Malin Head	89·3	+40	N	5	c/r	43	85	39	8	8	2	-	4-6	9+	1500
I	Aldergrove	86·7	-8	WNW	4	rr	44	85	40	7	6	2	-	4-6	10	600
19 I	Birr Castle	94·1	-6	W	4	ir	47	85	43	8	6	2	-	7·8	10	800
20 I	Valentia Obsy.	02·8	-10	NW'W	7	c/pr	50	75	43	7	8	-	-	9+	9+	2500
I	Roches Point	96·4	-22	NW	8	bc/pr	51	75	43	8	3	-	-	4-6	4·6	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	85·5	-8	W	4	iro	46	75	39	6	5	-	-	9+	9+	1500	1	*
Croydon	86·8	+2	WNW	5	ir	47	85	42	5	5	-	-	10	10	2000	1	*
S. Farnborough	86·5	-4	W	5	c	45	75	39	7	5	7	-	7·8	9	1000	0	*
Boscombe Down	89·5	0	W'N	6	b-bc	45	85	39	7	5	-	-	2-3	2-3	2000	1	*
Thorney Island	88·5	-6	W'N	5	b	47	75	40	7	5	-	-	2-3	2-3	1500	1	*
Lympne	84·9	-14	WNW	5	b	44	85	40	8	4	-	-	1	1	3000	1	§6
Manston	84·0	-68	NW'W	4	zo	43	85	41	5	5	4	-	2-3	2-3	800	1	*
Shoeburyness	84·8	-18	SW	4	bc	46	75	39	7	5	-	-	4-6	4-6	2500	1	*
Felixstowe	82·4	-2	W'S	5	bc/r	45	85	39	7	5	-	-	4-6	4-6	1200	2	3
Gorleston	80·1	-10	WNW	4	roro	46	92	43	6	6	-	-	10	10	800	1	3
Mildenhall	82·4	-10	W	5	c	45	85	40	7	5	-	-	10	10	2400	1	*
Cranwell	81·3	-10	W'N	5	iro	45	92	42	6	6	2	-	9	10	1800	1	*
Birmingham	85·3	-4	WNW	6	c	44	75	36	7	6	-	-	9+	9+	1500	1	*
Upper Heyford	85·2	-10	W'N	6	pr	45	85	40	6	8	-	-	7·8	7·8	2400	1	*
Ross-on-Wye	88·3	0	W	5	bcq	48	75	48	8	8	-	-	4-6	4-6	2000	1	*
Hartland Point	94·9	+10	NNW	6	pr	49	92	46	7	3	6	-	9	9+	1500	1	5
Bristol	90·6	-6	WNW	5	c-bc/pr	45	85	43	7	8	-	-	7·8	7·8	2500	1	*
Portland Bill	93·2	0	W	6	c-bc	48	85	44	7	5	-	-	7·8	7·8	2500	1	6
Plymouth	95·9	-2	WNW	7	b-bc	49	85	45	8	3	-	3	2-3	2-3	1500	1	3
The Lizard	98·5	+4	NW	8	c+bcq	50	85	45	7	6	-	-	7·8	7·8	1500	0	6
Scilly (St. Mary's)	00·4	+10	NW'W	8	cjp	50	75	42	6	8	6	-	2-3	9+	1200	1	6
Guernsey																	
Pembroke	94·7	+4	NW	7	pr	50	85	45	8	8	-	-	9+	9+	1500	1	5
Holyhead (Valley)	93·9	+64	NW	8	c-bc	44	75	36	8	8	-	-	7·8	7·8	1800	1	
Chester (Sealand)	89·2	+34	NW	7	cq	43	75	37	6	5	-	-	10	10	2600	1	*
Manchester	86·7	+26	NW'N	6	zo	42	85	39	6	6	-	-	9+	10	1500	1	*
Spurn Head	79·8	0	WNW	6	roro	44	92	42	6	5	-	-	10	10	800	1	4
Catterick	86·8	+32	NNW	6	roro	41	92	38	6	6	2	-	9	10	1100	1	*
Tynemouth	86·8	+46	NNE	8	c/r	42	92	39	6	6	-	-	10	10	1500	1	4
St. Abbs Head	91·4	+36	NNW	5	iro	39	92	36	5	6	-	-	10	10	2500	1	4
Leuchars	94·5	+60	N	3	c-bc	38	75	31	8	5	7	-	4-6	7·8	5900	1	*
Renfrew (Abbots I.)	97·2	+70	N	3	c-bc	38	75	30	8	8	-	-	7·8	7·8	2500	2	*
Eskdalemuir	92·1	+64	N	6	c-bc	35	85	32	7	5	-	-	7·8	7·8	1100	4	*
Point of Ayre	93·8	+66	N'E	7	b-bc	42	85	37	8	4	-	-	2-3	2-3	2000	1	3
Tiree	00·7	+50	NNW	5	bc	40	65	31	8	2	-	-	4-6	4-6	2500	2	5
Stornoway	00·3	+24	NNW	3	ps	34	97	33	7	3	-	3	4-6	7·8	1500	4	2
Dalwhinnie	07·0	+44	NNE	3	b-bc	30	92	28	7	5	-	-	2-3	2-3	2500	7	*
Aberdeen	94·3	+42	N'W	3	c	36	75	30	8	5	-	-	9	9+	4000	1	2
Wick	95·5	+10	NW	3	ps	35	85	31	8	5	7	-	4-6	7·8	2000	1	*
Sumburgh	91·9	+4	NNW	4	bc	37	92	36	8	2	6	-	4-6	4-6	2500	1	4
Blacksod Point	06·5	+94	N	6	c-bc/pr	45	65	34	7	9	-	-	7·8	7·8	2500	1	5
Malin Head	00·7	+64	N	7	pr	42	85	38	8	9	2	-	4-6	7·8	2500	2	5
Aldergrove	97·9	+64	NNW	4	bc	41	75	34	8	5	-	-	4-6	4-6	2000	1	*
Birr Castle	02·1	+92	NW	4	b-bc	43	85	39	8	3	-	-	2-3	2-3	1500	1	*
Valentia Obsy.	09·3	+43	N	6	b-bc/pr	47	75	39	8	3	-	-	2-3	2-3	2500	1	6
Roches Point	99·3	+34	NNW	8	bc	48	85	44	8	3	-	-	4-6	4-6	1500	1	5

PAST 24 HOURS.

Stations	Weather 7h.—13h. 1st (39)	13h.—18h. 1st (40)	18h. 1st to 1h. 2nd (41)	1h.–7h. 2nd (42)
London (Kew)	idorromo	kqrciro	ciroz o	robybc
Croydon	cmoro	cmoir	cmoirczo	c3ob3o
S. Farnborough	cdomoroprs	ccrroPRjpb	cirozc id czo	obczo b
Boscombe Down	cdodomo	bcmob	bccbc	bc
Thorney Island	crorodoodoc	ciro rrbc	bcmoproc	cbcb
Lympne	ofdd	cromopr	cmoroqido	cbcb
Manston	crcr	ciroRmo	bcmorovrocm	bcmoprbcm
Shoeburyness	cmororoc	crrcbc		bqr.r.mo
Felixstowe	crorromiromo	crrmo	ciromobcmo	ciromobmo
Gorleston	ororo	orro	ororoqcbc	cpro
Mildenhall	cmorr	cmororoc	cmororocmo	cmo bzo
Cranwell	crosomo	cciromo	icbc	bcmoo
Birmingham	oroc	cpRhprq	c	cb
Upper Heyford	dodocrr	roroprpro	czo	czoocx
Ross-on-Wye	ccir	irqcq		
Hartland Point	didoirc	cbcircbc	cbcp	bc
Bristol	cdodomocddro	cprobcprobc	bzo	bzo b
Portland Bill	orr	oR	bcbc	bc
Plymouth	cdodomo	cirorrc	cprmo bcp	bbc
The Lizard	rr	cbccq	cprbc	cprbc
Scilly (St. Mary's)	dodc	cpc	pocbc	bcp
Guernsey				
Pembroke	cprcirq	cirprq	bcq	bccq
Holyhead (Valley)	crroidoc	cpromo	cpro bcm	bbcc
Chester (Sealand)	cmorrc	proqc	bc	cpriro
Manchester	z+mmo	rrcmo	cmobczmo	bmzox
Spurn Head	ororo	ororo	cqiro	b
Catterick	crfcmo	cmocrrmo	cirobcmo	bc
Tynemouth	orrff	trrq	oirqbc	bc
St. Abbs Head	ocrr	crориro	crobcb	bc
Leuchars	crоromocrrmo	rrmoc	cbcbbc	bxbcc
Renfrew (Abbots I.)	csosororo	roroc	bcb	bcmorоsо
Eskdalemuir	oroRs	crosobc	bcprbc	bccx
Point of Ayre	rriroc	cprob	bcarb	bprcrr
Tiree	oRbcv	bcvcpr	bcprbp	rrrsprs
Stornoway	crоromociro	ccbccbcps	cpsbcps	cpsbcpscps
Dalwhinnie	osoSo	oposbc	*	bcpsoo
Aberdeen	croroproro	ciroc	cbcbsb	b
Wick	c	cpso	cpsobc	bcpsobcpso
Sumburgh	cphprso	bcpo bc	cproso	
Blacksod Point	pr	pr	bc	c
Malin Head	r	pr	pr	pr
Aldergrove	cirorr	crrc	bcbbc	bcprbc
Birr Castle	r	pr	*	pr
Valentia Obsy.	pr	pr	pr	pr
Roches Point	pr	bc	pr	pr

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday, 2nd January 1943.

DISTRICTS.	
1 S.E. England 2 E. England 3 E. Midlands 4 W. Midlands 5 S.W. England 6 South Wales 7 North Wales	Moderate northwest to north winds; cloudy with local rain at first; wintry showers later in coastal areas especially in east and considerable clear areas inland; cold with rather general ground frost tonight, and air frost in sheltered inland areas.
8 N.W. England 9 N. Midlands 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man 13A W. Scotland 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Light or moderate northerly winds; showers of sleet and snow in exposed areas, appreciable clearances to lee of high ground; cold, with rather general frost tonight.
16 Orkneys and Shetlands	As 8-15
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Moderate or fresh northwesterly winds, veering north and moderating; scattered showers, cold with ground frost tonight.

GENERAL INFERENCE

Pressure is high to west and southwest of the British Isles, and low to the east; cold northwest to north winds will persist over the British Isles with wintry showers chiefly in exposed areas; rather general ground frost tonight, with air frost in sheltered inland areas.

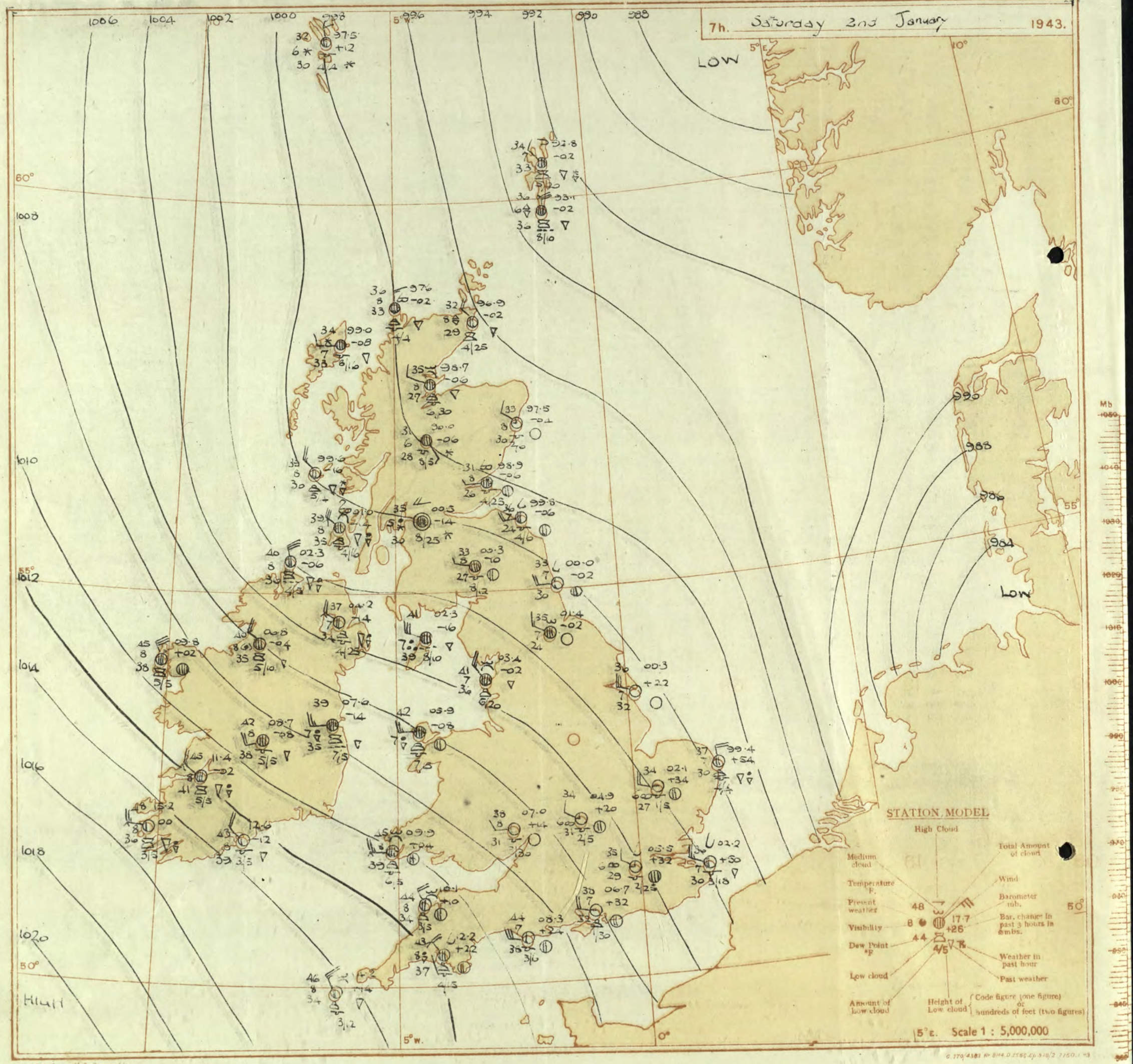
FURTHER OUTLOOK

Cold northerlies probably continuing.

Forecasts issued at 1030

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

Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

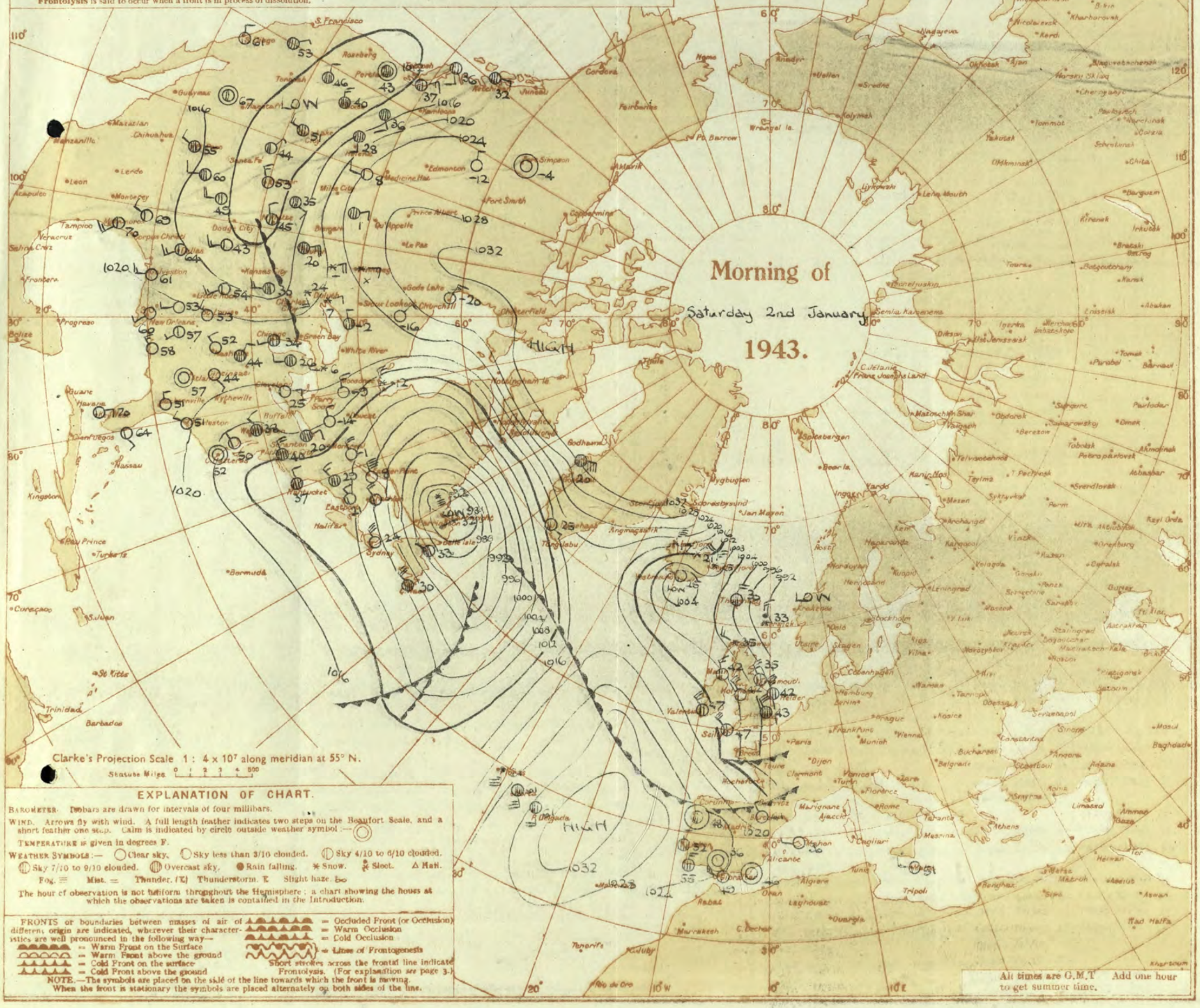
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday 2nd January 1943

No. 29626

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	43	*	*	*	*	*	*	*	*	*
	Croydon	290	97.5	+64	NNW	6	z0	43	75	33	5	5	-	-	10	10	2200
	S. Farnborough	226	98.5	+62	NW	5	z0	42	65	32	5	5	-	-	9+	9+	2800
	Boscombe Down	417	00.8	+52	NW	6	b-bc	41	75	33	7	5	-	-	2-3	2-3	4000
	Thorney Island	10	98.5	+56	NNW	6	c	44	65	34	7	5	-	-	9	9	3300
	Lympne	283	91.3	+54	WNW	7	c	42	75	36	7	5	-	-	9	9	3500
	Manston	154	91.4	+66	NNW	6	pr	42	85	37	6	4	-	-	10	10	1600
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	90.3	+68	NW	7	oq/r	40	97	39	6	5	-	-	4-6	4-6	2100
	Gorleston	5	88.5	+76	N'W	7	pr	43	75	36	6	6	-	-	4-6	4-6	800
	Mildenhall	15	93.9	+70	NW	6	c-bc/r	39	85	35	6	5	-	-	7-8	7-8	2200
	Cranwell	203	98.3	+56	NW'W	5	b-bc/r	37	85	33	6	5	-	-	2-3	2-3	2200
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	99.0	+62	NW	6	z0	39	75	32	6	5	-	-	9+	9+	2300
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	06.2	+42	NW	7	bc	45	65	34	7	4	-	-	4-6	4-6	2500
	Bristol	209	03.5	+50	NW	4	b	40	75	33	7	5	-	-	Tr	Tr	4000
	Portland Bill	32	03.2	+54	W	6	bc	45	85	41	7	5	-	-	4-6	4-6	2500
	Plymouth	82	06.8	+54	NW'N	6	b	45	75	38	7	-	-	-	0	0	-
	The Lizard	240	08.2	+40	NNW	8	bc	45	75	36	8	8	-	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	10.1	+50	NW'N	6	bc	47	75	38	7	8	-	-	4-6	4-6	1500
	Guernsey	175															
6	Pembroke	142	07.6	+40	NNW	6	bcq	43	75	36	8	2	-	-	4-6	4-6	2500
7	Holyhead (Valley)	32	04.6	+20	NW'N	6	b	42	65	32	8	2	6	-	Tr	Tr	2000
	Chester (Sealand)	16	02.4	+36	NNW	8	c-bc	40	75	35	8	8	6	-	4-6	7-8	3000
8	Manchester	235	01.6	+50	NW	3	z0	33	85	29	6	5	-	-	1	1	4000
10	Spurn Head	29	95.1	+68	NNW	7	c-bcq	42	75	33	6	5	-	-	7-8	7-8	800
	Catterick	175	00.4	+38	WNW	3	b	35	75	27	7	-	-	-	0	0	-
	Tynemouth	108	98.4	+40	NNW	5	b-bc	35	85	29	7	-	4	-	0	2-3	-
11	St. Abbs Head	280	98.0	+20	N	5	b-bc	38	65	26	7	4	-	-	2-3	2-3	4000
	Leuchars	36	99.9	+6	NW	2	b-bc	35	65	27	8	5	-	-	2-3	2-3	3500
12	Renfrew (Abbots I.)	19	02.4	+10	SW	1	b	36	65	27	8	5	-	-	Tr	Tr	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	03.2	+20	N'W	5	[illegible]	41	86	36	8	4	*	*	*	*	3000
13A	Tiree	44	03.6	+2	NW	3	bc/pr	36	85	32	8	2	-	-	4-6	4-6	2500
13B	Stornoway	15	01.9	-6	WNW	3	ps0	35	85	31	7	3	-	-	9+	9+	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	98.0	+10	WNW	5	b-bc	34	85	29	7	8	-	-	2-3	2-3	2500
	Wick	114	97.1	+4	NNW	3	b-bc	35	75	28	8	2	-	-	2-3	2-3	2500
16	Sumburgh	19	93.8	+4	N	3	prs	33	97	33	6	9	-	-	9	9	900
17	Blacksod Point	18	11.0	+6	NW	4	b-bc	44	65	33	8	9	-	-	2-3	2-3	2500
18	Malin Head	84	04.8	+2	NNW	3	bc/pr	42	85	38	8	9	-	-	4-6	4-6	2500
	Aldergrove	268	05.9	+12	W'N	2	bc	37	85	33	8	5	-	-	4-6	4-6	2000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	15.3	+18	NW'N	5	b-bc	47	65	36	8	2	-	-	2-3	2-3	2500
	Roches Point	22	12.8	+34	N'N	5	b-bc	44	85	40	8	3	-	-	2-3	2-3	2500

OBSERVATIONS at 7 hr. G.M.T. 2nd January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 1st Hrs. (38)
London (Kew)	05.0	+34	NWN	2	bc	36	65	24	7	5	-	-	4-6	4-6	4000	1	*	48	36	28	3	0.1	0.0
Croydon	05.5	+32	NWN	3	z0	35	75	29	6	5	4	-	1	1	2500	1	*	50	35	31	3	0.2	0.0
S. Farnborough	05.7	+26	W'N	3	b	36	85	31	7	-	4	-	0	Tr	-	1	*	51	35	30	3	Tr	0.0
Boscombe Down	07.7	+24	WNW	4	b	35	85	31	8	-	-	-	0	0	-	0	*	50	35	29	3	-	0.2
Thorney Island	06.7	+32	WNW	4	b	38	75	32	7	2	-	-	Tr	Tr	4000	1	*	51	37	33	3	Tr	*
Lympne	02.3	+46	NW	5	b	34	75	29	7	-	3	-	Tr	Tr	3500	1	§5	49	34	*	4	Tr	0.0
Manston	02.2	+50	NWW	5	bc	36	75	30	7	5	4	-	2-3	4-6	1800	1	*	49	36	34	4	0.6	0.0
Shoeburyness	03.9	+32	NW	4	z0	35	75	27	6	5	-	-	7-8	7-8	2500	1	*	50	34	29	3	0.3	0.0
Felixstowe	00.9	+42	NW'W	5	z0	36	75	27	6	-	3	-	0	Tr	-	1	5	47	35	32	7	1	[illegible]
Gorleston	99.4	+54	N'W	4	bc or	37	75	30	7	8	-	-	4-6	4-6	1500	1	5	47	38	34	12	4	0.6
Mildenhall	02.1	+34	WNW	4	z0	34	75	27	6	5	-	-	Tr	Tr	2500	1	*	49	33	25	7	1	0.0
Cranwell	02.6	+16	W	3	b	33	75	27	7	5	-	-	Tr	Tr	3000	1	*	49	32	28	5	1	*
Birmingham	05.5	+8	WNW	3	b	35	92	33	7	5	-	-	1	1	1500	1	*	49	34	29	5	-	0.2
Upper Heyford	04.9	+20	WNW	4	z0	34	85	31	6	5	-	-	1	1	2500	1	*	49	34	29	1	Tr	*
Ross-on-Wye	07.0	+14	W	2	b-bc	38	75	31	8	5	-	-	2-3	2-3	3000	1	*	52	36	27	2	-	0.4
Hartland Point	10.1	+10	NNW	5	bc	44	65	34	8	2	6	-	2-3	4-6	2500	1	5	51	43	41	1	0.3	0.6
Bristol	05.5	+18	NNW	4	b	37	85	33	6	5	-	-	Tr	Tr	2500	1	*	45	37	32	1	-	0.2
Portland Bill	08.3	+24	N	6	b-bc	44	75	38	7	5	-	-	2-3	2-3	4000	1	6	51	40	*	5	-	*
Plymouth	12.2	+22	NW	4	pr	43	85	37	8	8	4	-	4-6	7-8	1500	1	3	53	41	34	Tr	0.1	0.2
The Lizard	13.0	+16	NNW	4	bc	44	75	37	8	8	-	-	4-6	4-6	2000	0	4	52	42	*	1	1	1.2
Scilly (St. Mary's)	14.2	+14	NW'N	5	bc	46	65	34	8	8	6	-	2-3	4-6	1200	1	5	42	44	*	1	2	0.2
Guernsey																							
Pembroke	09.9	+4	N	5	cq	45	85	39	8	8	6	-	9	9	2500	1	4	52	*	*	1	0.3	0.8
Holyhead (Valley)	05.9	-8	N	5	pr	42	75	36	7	8	-	-	9+	9+	1500	1	4	51	40	37	1	1	*
Chester (Sealand)	04.6	+6	W'N	3	br	39	85	35	8	8	-	-	9+	9+	2300	1	*	53	37	33	6	1	1.4
Manchester	04.0	+6	N	4	z0	35	92	33	6	5	3	-	4-6	7-8	2000	1	*	49	32	22	12	-	*
Spurn Head	00.3	+22	NNW	6	b	36	85	32	7	-	-	-	0	0	-	0	5	47	32	*	8	1	0.0
Catterick	01.4	-2	WNW	3	c-bc	35	65	24	7	-	3	-	0	7-8	-	1	*	49	33	26	4	1	0.0
Tynemouth	00.0	-2	W	4	b-bc	33	92	30	7	-	4	-	0	2-3	-	3	4	43	32	30	4	1	*
St. Abbs Head	99.8	-6	N	4	bc	36	65	24	7	5	4	-	4-6	4-6	4000	0	4	42	35	*	6	0.4	*
Leuchars	95.9	-6	W	1	c	31	85	26	8	5	7	-	4-6	9	2500	3	*	40	30	18	7	-	0.0
Renfrew (Abbots I.)	00.5	-14	-	0	fs0	35	85	30	5	-	2	-	10	10	2500	2	*	39	32	29	7	Tr	0.3
Eskdalemuir	00.3	-10	NNW	1	c	33	85	27	8	5	-	-	10	10	1200	4	*	36	29	25	12	-	0.0
Point of Ayre	02.3	-16	WNW	6	rr	41	92	39	7	4	-	-	10	10	1000	1		49	39	*	5	0.5	0.5
Tiree	99.6	-16	NW	5	oc/ph	39	75	30	8	2	-	-	4-6	4-6	2600	1	4	39	34	31	7	0.6	1.8
Stornoway	99.0	-8	W	2	is0	34	97	33	7	5	-	-	10	10	1600	4		41	32	27	1	1.3	0.0
Dalwhinnie	90.0	-6	SE	1	o	31	85	29	6	5	-	-	10	10	2500	7	*	34	27	23	3	0.1	0.0
Aberdeen †	97.5	-4	NW	2	o	33	92	30	8	5	-	-	1	1	4000	4	2	36	32	27	3	0.1	0.0
Wick	96.9	-2	NW	4	PHR	32	85	29	8	3	-	-	4-6	4-6	2500	8	*	37	30	27	Tr	2	*
Sumburgh	93.1	-2	WSW	6	PHR	36	97	36	6	9	-	-	10	10	1000	4		39	33	32	1	10	0.9
Blacksod Point	09.8	+2	NNW	6	c-bc	45	75	38	8	9	-	-	7-8	7-8	2500	1	5	52	41	*	3	3	*
Malin Head	02.3	-16	N'W	6	bc/pr	40	85	36	8	9	-	-	4-6	4-6	2500	2	5	49	47	2	9	2	0.0
Aldergrove	04.2	-14	S	4	bc/pr	37	85	34	7	8	-	-	4-6	4-6	2500	1	*	48	33	27	3	0.5	0.6
Birr Castle	08.7	-8	WSW	4	c-bc	42	85	38	8	5	-	-	7-8	7-8	2500	1	*	52	36	33	4	0.3	0.4
Valentia Obsy.	15.2	0	S	5	b-bc/r	43	65	36	8	3	-	-	2-3	2-3	2500	1	5	52	44	40	3	1	0.2
Roches Point	12.6	-12	NW	4	b-bc	43	85	39	8	5	-	-	2-3	2-3	2500	1	4	54	42	*	0.1	2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 1st January ... 18h. G.M.T. — 01h. G.M.T. 2nd January ... 07h. G.M.T.

III	13h $C_L C_M$	13h wwVhN$_h$	13h DDFWN	18h $C_L C_M$	18h wwVhN$_h$	18h DDFWN	01h $C_L C_M$	01h wwVhN$_h$	01h DDFWN	07h $C_L C_M$	07h wwVhN$_h$	07h DDFWN
109	57	02864	32455	3-	26753	28583	3-	24753	28683	57	01653	61584
115	52	10944	32268	8-	10844	32386				87	02844	32386
203												
206	83	02944	32376	43	01864	28224	8-	26857	26287	86	02866	26287
210	53	02744	28367	5-	02853	28423	5-	02866	24416	03	01890	21313
220	80	01855	30585	30	27754	30384				80	02746	28716
230	76	22955	32365	50	02854	00024	4-	01854	28424	02	68648	00078
245				57	02768	31467	50	01864	24314	5-	02865	24115
260	62	64437	02278				50	05651	30211	57	05655	30215
278	52	22837	63568	84	01843	63623	50	01742	30612	8-	68548	24488
279	62	62524	18168	20	02744	01564	00	00790	28300	57	02754	22316
285										5-	02746	30526
288	62	62758	16468	62	64445	64468	40	17653	27583	03	02790	22316
575	80	01843	63583	80	25842	63582	3-	88847	65487	36	10845	61485
301	87	25645	28487	8-	05685	32785	00	00790	32600	26	02756	28587
321	52	64544	18468	62	22645	64588	00	05690	62410	04	05690	25401
[illegible]				5-	52748	65658				50	01753	28303
292				62	22643	31666	00	00890	61510	03	01790	26303
310	--	27628	20588	--	51428	24658				--	01635	20415
614	5-	62525	22368	52	61544	59428	50	05652	63612	50	05684	22304

13h. G.M.T. 1st January ... 18h. G.M.T. — 01h. G.M.T. 2nd January ... 07h. G.M.T.

III	13h $C_L C_M$	13h wwVhN$_h$	13h DDFWN	18h $C_L C_M$	18h wwVhN$_h$	18h DDFWN	01h $C_L C_M$	01h wwVhN$_h$	01h DDFWN	07h $C_L C_M$	07h wwVhN$_h$	07h DDFWN
333	86	14854	58665	8-	02658	35668	8-	05654	64684	87	81755	58487
334	--	63547	22568									
340	97	4845	61467	6-	22748	30568	50	01654	02414	37	83754	24286
136	02	64408	20468	57	22646	23468	50	22765	31765	50	01763	61663
336	62	64526	28668	57	25654	28586						
350	62	62636	22368	52	25656	57688	5-	05657	61627	50	05652	25302
368	5-	63616	57667	80	01655	57665	50	00761	28411	26	00753	24483
379	5-	51525	22547	5-	22844	24664	5-	02756	30726	50	00751	65411
390	52	67337	22458	5-	61666	24466	50	06653	61813	00	00790	28500
382	62	61736	55568	56	01854	59514	57	02866	63627	04	01890	28412
438	82	52638	24658	50	05634	24684	52	05636	24628	00	00790	28500
430	62	62538	20468	50	01744	61414	5-	03645	63628	5-	01742	28512
409	5-	32628	58758	8-	22845	60765	50	01864	64814	20	29854	61684

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 2nd January.
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	id0 rr0 m0	kq r cir0	cir0 by bc
Croydon	cm0 r0	cm0 ir	cm0 ircz
Greenwich	cd0	d0 irc	cqbm
Camden Square	o	c	*
Kensington	cpbbc	oc	*
Hampstead	orbc	bc	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. [illegible] 0.3 7-8h on 1st; Min. Time <0.1 0-5h on 2nd

Stations	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 % (Yesterday)	Humidity 9h % (To-day)
Kew	48	36	28	3	0.1	0.0	*	*
Croydon	50	35	31	3	0.2	0.0	*	*
Greenwich	50	35	28	4	-	0.0	90	79
Westminster	50	34	28	4			93	90
Regents Park	50	35	31	4	Tr		89	75
Camden Square	49	35	29	-	4	*	*	78
Kensington	51	35	28	5	0.1		86	79
Hampstead	48	32	26	4	-		*	83

SECRET

Page 1

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Sunday 3rd January 1943.

No. 29627

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	03·2	-16	WSW	4	z₀	42	75	34	6	5	-	-	9+	9+	2500
	Croydon	04·3	-18	WNW	4	ir₀	42	85	37	6	5	-	-	7·8	9+	1200
	S. Farnborough	03·9	-28	W'S	4	c/r	42	85	36	8	5	3	-	9	10	2100
	Boscombe Down	05·1	-34	WNW	6	c-bc	45	75	36	8	8	-	-	7·8	7·8	2000
	Thorney Island	06·5	-16	W	5	c/pr	43	85	38	7	5	-	-	4·6	10	1500
	Lympne	03·6	-16	WNW	3	c	39	75	33	7	7	-	-	9+	9+	4000
	Manston	03·0	-12	W	3	z₀	40	75	33	6	5	-	-	9+	9+	3500
2	Shoeburyness	04·2	-12	W	4	ir	41	75	33	5	5	-	-	10	10	1500
	Felixstowe	01·1	-14	W'N	4	z₀	39	75	33	6	5	7	-	4·6	7·8	4000
	Gorleston	99·9	-10	W'N	3	z₀	37	75	30	6	5	-	-	10	10	2000
	Mildenhall	01·3	-14	WSW	4	rs	36	85	33	6	6	2	-	10	10	1200
	Cranwell	00·6	-18	W	2	rs	35	97	35	5	-	2	-	10	10	700
3	Birmingham	02·8	-14	W	3	cjp	40	85	36	7	8	-	-	9	9	1500
	Upper Heyford	03·1	-14	W'N	4	c/pr	41	85	36	8	5	-	-	7·8	9+	1500
4	Ross-on-Wye	04·0	-20	W'N	5	b-bc	44	65	34	8	8	-	3	1	2·3	3000
5	Hartland Point	09·0	-6	NW	5	cbc/pr	46	75	38	8	3	6	-	4·6	7·8	1100
	Bristol	06·4	-26	WNW	5	pr	45	75	37	7	9	-	-	9+	9+	2500
	Portland Bill	07·4	-14	W	6	c-bc	46	92	44	8	5	-	-	7·8	7·8	4000
	Plymouth	10·1	-20	NW'W	5	bc	48	85	43	7	8	4	3	4·6	4·6	2000
	The Lizard	12·7	-6	NW	6	c-bc	49	65	38	8	2	6	-	7·8	7·8	1500
	Scilly (St. Mary's)	12·9	-16	NW'N	6	c	50	65	40	8	8	6	-	7·8	9+	1500
	Guernsey															
6	Pembroke	08·8	-8	WNW	4	cq	46	85	42	8	8	-	-	9+	9+	2500
7	Holyhead (Valley)	04·9	-2	NNW	6	cbc/ph(r)	43	75	34	8	8	-	-	7·8	7·8	1500
	Chester (Sealand)	02·2	-6	W	5	c-bc	43	65	32	6	8	-	-	7·8	7·8	3000
8	Manchester	01·6	-10	N	4	cbc/ph(r)	37	92	35	6	2	6	-	7·8	7·8	1500
10	Spurn Head	99·1	-18	N'N	3	o	36	92	33	6	5	-	-	10	10	1500
	Catterick	99·0	-14	E	2	c	39	75	33	7	3	6	3	7·8	9	2500
	Tynemouth	99·7	-2	N	3	z₀	36	92	34	6	8	-	-	9	9	3000
11	St. Abbs Head	99·5	-6	W	3	o	35	97	34	7	5	4	-	7·8	9	3000
	Leuchars	99·3	+10	-	0	c	32	75	26	8	5	7	-	2·3	9	4000
12	Renfrew (Abbots I.)	00·3	+10	NNW	2	bc	36	85	32	9	8	7	-	4·6	4·6	2000
	Eskdalemuir	98·8	0	NNW	4	ps	35	85	29	8	8	-	-	7·8	7·8	1200
	Point of Ayre	01·6	0	NNW	7	bc/ph(r)	39	92	38	7	9	-	-	4·6	4·6	800
13A	Tiree	01·9	+12	NNW	4	c/ps	38	92	35	9	9	7	3	4·6	9	1800
13B	Stornoway	03·2	+26	NNW	3	c-bcjp	36	85	31	8	3	6	-	4·6	7·8	1600
15	Dalwhinnie	00·0	+14	N	2	c	31	85	28	8	9	-	-	9+	9+	2500
	Aberdeen	98·4	+6	NW	3	b-bc/ps	34	85	29	8	9	6	3	2·3	2·3	2500
	Wick	98·6	+14	NNW	4	c-bc/ps	37	75	29	9	9	-	-	7·8	7·8	1500
16	Sumburgh	95·2	+4	NNW	2	bc	36	92	33	7	3	6	3	4·6	4·6	1500
17	Blacksod Point	11·8	+12	NW'N	6	c-bc	45	65	34	8	9	-	-	7·8	7·8	2500
18	Malin Head	03·2	+6	NW'N	6	cbc/ph(r)	43	55	28	8	2	2	-	4·6	7·8	1500
	Aldergrove	04·7	+6	N'N	4	c	39	75	31	8	8	-	-	9+	9+	1600
19	Birr Castle	09·7	+6	WNW	4	c-bc	43	75	35	8	5	-	-	7·8	7·8	2500
20	Valentia Obsy.	15·6	+2	NW'N	7	c/pr	47	75	39	8	8	6	-	9	9+	2500
	Roches Point	11·7	+4	NNW	6	bc/pr	46	85	42	8	3	-	-	4·6	4·6	1500

OBSERVATIONS at 18h. G.M.T. 2nd January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Weather 7h.–13h. 2nd (39)	Weather 13h.–18h. 2nd (40)	Weather 18h. 2nd to 1h. 3rd (41)	Weather 1h.–7h. 3rd (42)
London (Kew)	02·2	+2	WNW	4	z₀	40	65	31	6	5	-	-	4·6	4·6	2500	1	*	bbccz₀	cdorocbc	bccz₀	cbcbz₀x
Croydon	03·0	+2	W	3	m	40	85	36	4	5	-	-	4·6	4·6	2400	1	*	bcm₀cm₀ir₀	cm₀irophm	cm₀bm₀x	bm₀x
S. Farnborough	03·4	+2	W'N	4	c/r	39	85	35	6	5	7	-	9	9+	2000	1	*	c,biroc	cbccproiroc	cm₀ir₀cbm₀	bm₀bbz₀bx
Boscombe Down	05·7	+4	NW	5	phr	38	92	35	6	9	-	-	9+	9+	1000	1	*	bcprc	bccph	cphbcpr₀b	bbx
Thorney Island	04·5	-4	WNW	3	pr	41	92	40	7	8	-	-	10	10	2700	1	*	bbcc	cprobccr₀	cpr₀bbc	b
Lympne	00·7	-14	WNW	5	b-bc	38	85	33	8	4	4	-	1	2·3	3000	1	§4	bm₀z₀c	cprphrmbc	b,c,b	b
Manston	99·8	-22	NW'W	4	c/pr	41	85	36	9	8	6	-	7·8	9	1800	1	*	bcbm₀cz₀	cm₀pro	cbcm₀	bcm₀bz₀
Shoeburyness	01·6	-4	W'N	5	z₀	40	75	32	5	5	-	-	4·6	4·6	4000	1	*	bm₀cirm₀	cirbcm₀	cm₀bcm₀	bm₀
Felixstowe	99·4	+2	WNW	5	z₀	39	85	33	6	5	-	-	2·3	2·3	4000	1	3	bbcbcm₀cm₀	cirm₀bcm₀	bcm₀bm₀	bm₀bm₀x
Gorleston	98·3	0	NNW	3	roro	36	92	34	5	6	-	-	10	10	800	1	3	bbccz₀	ororo	bcbrshebshe	cpscbc
Mildenhall	99·8	0	WNW	4	z₀	37	85	32	6	5	-	-	10	10	3000	1	*	bccm₀rs	crsm₀cm	cm₀bz₀	bm₀bc
Cranwell	01·2	+14	NW'W	4	psh	37	85	32	5	3	-	-	10	10	1500	1	*	cm₀cisrosom₀	cm₀cpshm₀	cpshm₀bm₀	bm₀x
Birmingham	04·2	+10	NW	3	ps	34	97	34	5	8	-	-	9+	9+	1500	4	*	cprosm	cps	cpsb	b
Upper Heyford	02·9	+2	NW	3	b-bc/pr	34	97	33	8	5	-	-	2·3	2·3	2500	1	*	bm₀cid₀pro	cjpprob	cpr₀+sb	bbx
Ross-on-Wye	05·3	+6	W	3	b	37	85	32	8	8	-	-	1	1	2500	1	*	bccpobc	pobcqpb		bbx
Hartland Point	09·0	+6	NNW	5	c	45	75	37	8	3	6	-	4·6	9	1500	1	5	bcciropr	cpr	cbcq	bc bm bx
Bristol	06·7	+8	NW	4	bc/pr	38	92	36	7	8	-	-	4·6	4·6	2500	1	*	bm₀cprom₀	ccm₀probc	bcbm₀	bb
Portland Bill	06·9	-6	W	5	c-bc	46	85	42	8	5	-	-	7·8	7·8	4000	1	3	cpr	c	bcb	bb
Plymouth	09·3	-2	NW'W	6	b/pr	42	92	40	6	9	4	3	1	1	2000	1	3	bcpr	bcprom₀	bm₀	bbm₀
The Lizard	11·0	0	NW'N	7	cbc/pr	46	75	39	8	8	-	-	7·8	7·8	1500	1	5	bcroc	bcprc	cprbc	pr₀bc
Scilly (St. Mary's)	13·2	+10	NW'N	5	c/pr	49	75	42	8	8	6	-	7·8	9+	1500	1	5	bccpcm	cp	cpqc	cpbc
Guernsey																					
Pembroke	09·3	+6	NW	6	bcq	44	75	36	8	2	-	-	4·6	4·6	2500	1	4	PRprcq	cphrbcq	cbcq	bc
Holyhead (Valley)	06·5	+14	NW	7	c	42	65	31	8	8	-	-	7·8	9	2800	1	5	cpm₀	bc	cpr₀bpr₀	b
Chester (Sealand)	04·1	+22	NW	5	c-bc	39	85	34	7	3	-	-	7·8	7·8	2400	1	*	cpropr	prphqc	c, b	b
Manchester	03·2	+10	W	3	z₀	35	85	32	6	4	-	-	2·3	2·3	2000	1	*	prsprh	cprsbcm₀	bm₀x	bz₀
Spurn Head	99·7	+4	NN'W	4	bc	35	92	33	7	4	-	-	4·6	4·6	1500	1	4	rsom₀	bc	bcl	bc
Catterick	03·4	+24	WNW	2	b	33	85	28	7	-	3	-	0	Tr	-	4	*	cpsoc	cp₀sfb	by	byb
Tynemouth	01·5	+22	WNW	3	m	33	85	30	4	2	-	-	2·3	2·3	2500	3	3	bcc	cbc	bc	bc
St. Abbs Head	02·5	+22	NNW	4	bc	37	75	29	7	1	4	-	2·3	4·6	2500	0	3	bcc	cbc	bcb	cbc
Leuchars	04·0	+34	N	4	b	35	65	24	9	5	-	-	Tr	Tr	4000	3		cbc	cb	b	b
Renfrew (Abbots I.)	06·6	+30	SSW	2	b	33	75	26	7	5	-	-	1	1	3000	2	*	croSoprobc	bc	bz₀	bz₀bcm₀x
Eskdalemuir	04·9	+30	N	2	bc	29	75	21	7	5	7	-	2·3	4·6	2500	4	*	cssps	cs₀cbc	bc	bcbx
Point of Ayre	05·2	+26	NNE	4	b	40	85	35	8	8	-	-	1	1	1800	1	5	cPH	PHRcbc	b	b
Tiree	09·1	+36	NW	5	b	40	55	25	9	3	6	-	1	1	3000	1	4	cprshps	bcproby	bccpsbc	cphbcjp
Stornoway	09·4	+44	NW'N	3	c/s	34	97	33	7	3	-	-	10	10	1500	7	1	cssbc	bccps₀c	cpsmbbcps₀	bcps₀
Dalwhinnie	06·0	+28	N	1	c	31	85	28	8	5	-	-	9+	9+	2500	7		ops₀c	c		cpr₀bc
Aberdeen	02·4	+26	NNW	4	b	33	92	30	8	8	-	-	1	1	2500	4	2	bbcztsob	bbccps₀b	bbcps₀	bcps₀b
Wick	02·6	+22	NW	4	bc	37	75	29	8	3	-	-	4·6	4·6	1500	8	*	bcps₀bc	cbc	cpr₀s₀cbc	cpr₀bcprs₀bc
Sumburgh	98·8	+28	NNW	7	ps	35	97	35	7	9	-	-	9+	9+	1000	6	3	cps₀	cps₀hps₀	bccph₀c	cps₀c
Blacksod Point	15·0	+26	NW'N	5	bc/pr	41	75	34	8	9	-	-	4·6	4·6	2500	0		pr	pr	b	b
Malin Head	08·7	+50	N'N	6	b-bc	43	65	32	8	2	-	-	2·3	2·3	1500	2	5	pr	pr	pr	pr
Aldergrove	08·2	+30	N'N	3	b-bc	37	85	30	8	8	-	-	2·3	2·3	2000	1	*	cproc	cprobc	bcpr₀spr₀	bbcpshb
Birr Castle	12·1	+14	NNW	3	pr	40	85	36	7	8	2	-	7·8	10	800	1	*	pr	pr	*	b
Valentia Obsy.	17·2	+12	NW'N	6	b-bc/pr	46	85	42	8	2	-	-	2·3	2·3	2500	1	5	pr	pr	pr	b
Roches Point	14·4	+18	NW'N	4	bc	45	85	41	8	3	-	5	2·3	4·6	1500	1	4	pr	pr	pr	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 3rd January

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Moderate northwest winds falling light, backing southeast later; fine but some scattered showers in extreme east; cloudy to-morrow; good visibility: cold with hard frost at night.
4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales	Moderate northwest winds, backing southeast and freshening; fair at first, rain in extreme southwest, becoming snow inland spreading from southwest later to-night; good visibility, poor in precipitation: hard frost inland to-night.
8 N.W. England; 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland; 12 S.W. Scotland & Isle of Man; 13A W. Scotland	As 1-3
13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Moderate northwesterly wind falling light; scattered snow showers at first, fair later; good visibility: cold with hard frost to-night.
16 Orkneys and Shetlands	As 13B - 15
17 N.W. Ireland; 18 N.E. Ireland; 19 S.E. Ireland; 20 S.W. Ireland	Variable wind backing southeast and freshening; cloudy with rain in southwest to-night, spreading northeast as sleet or snow; good visibility, poor in precipitation: cold.

GENERAL INFERENCE

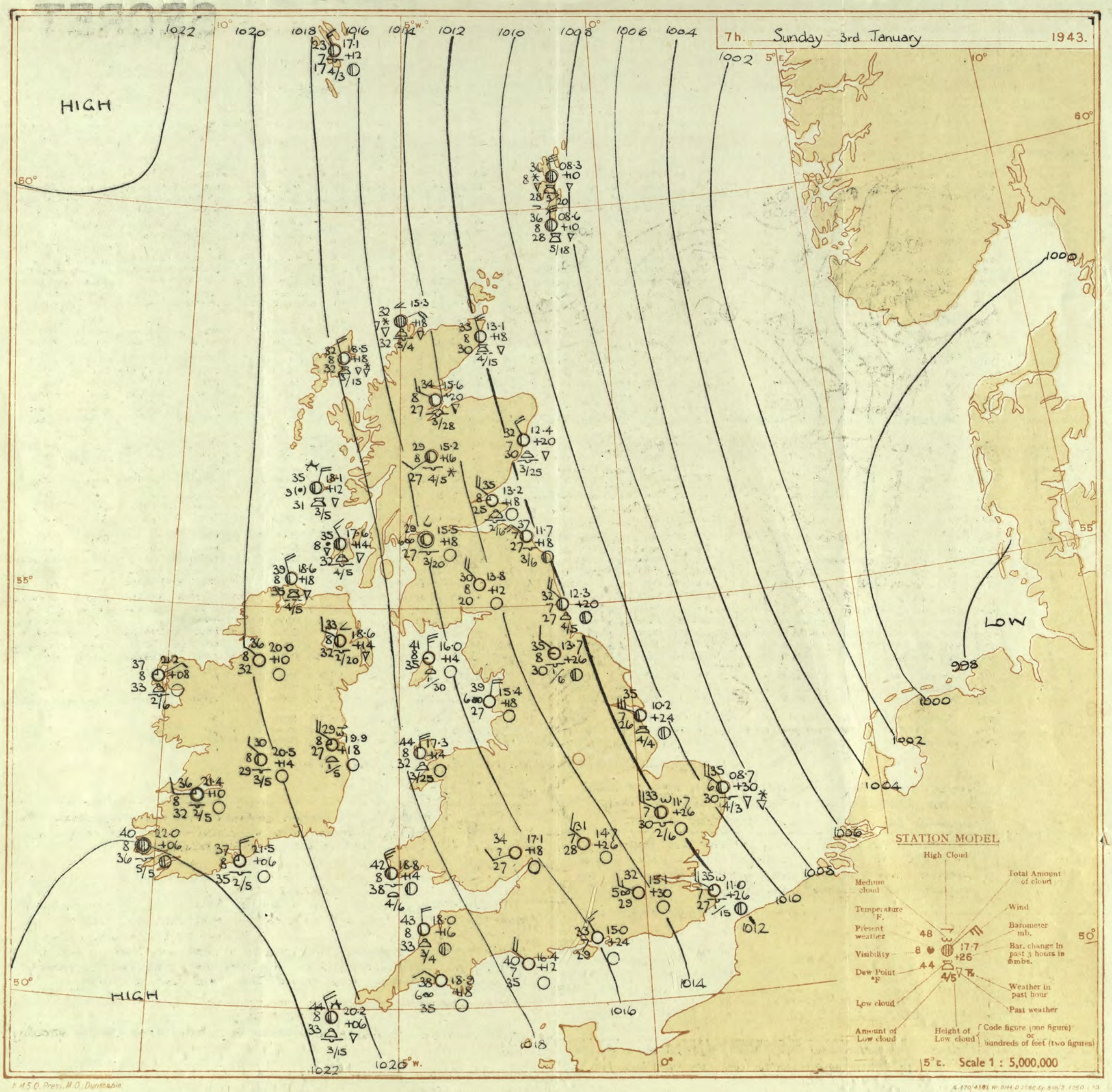
A cold northerly stream of air covers the British Isles. A ridge to the southwest is moving east and a depression about 700 miles west of Scotland is moving southeast. It will be fine over the British Isles to-day except for some scattered wintry showers in East and North. Cloud will increase in western districts later with some wintry precipitation spreading in from the Southwest. It will be cold with hard frost at night.

FURTHER OUTLOOK

Wintry conditions continuing, with snow in western areas possibly spreading east.

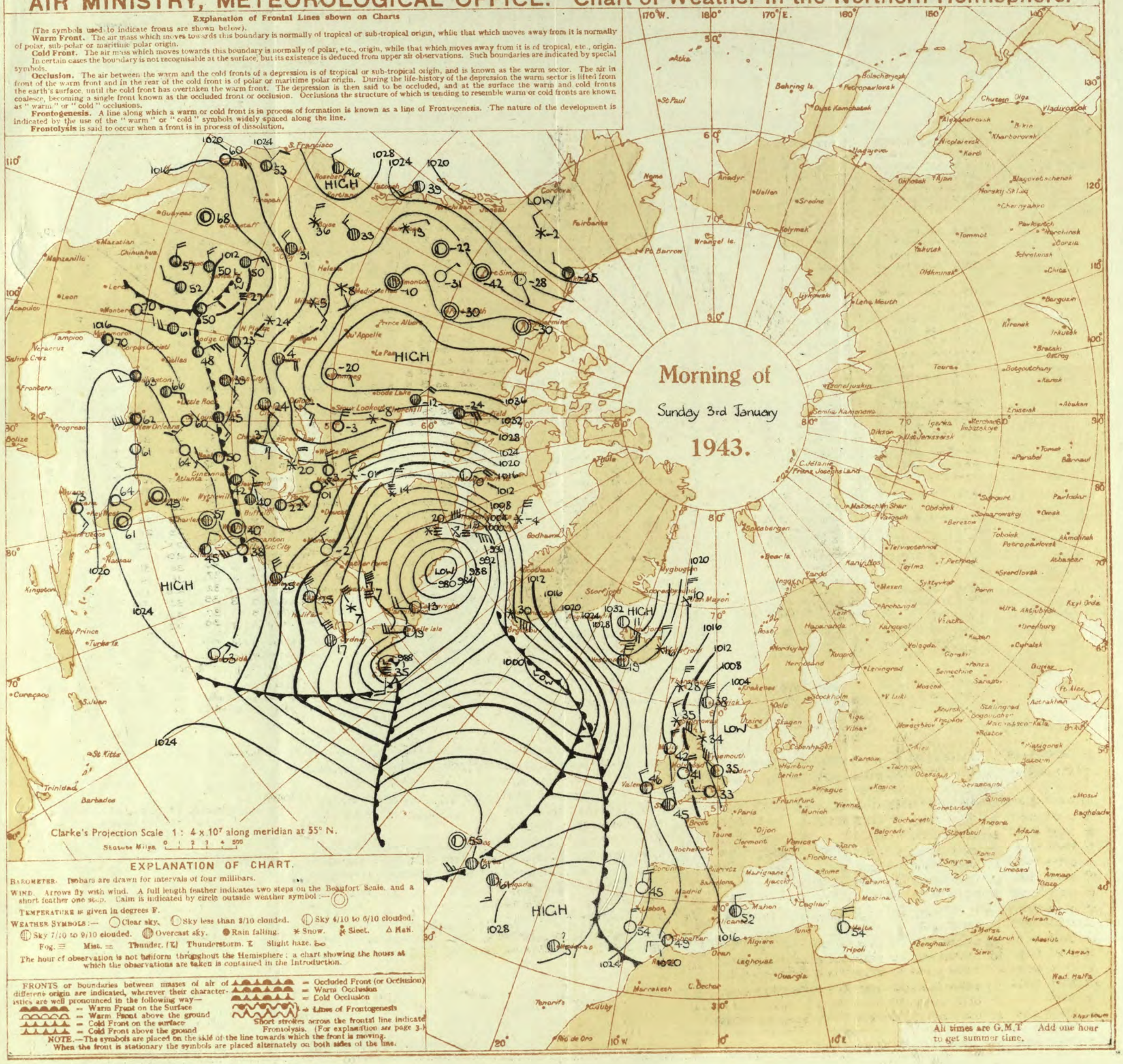
Forecasts issued at 1030.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O. Dunstable

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



Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

Page 4.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Sunday 3rd January 1943

No. 29627

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	35	*	*	*	*	*	*	*	*	*
	Croydon	290	09·4	+34	WNW	3	Zo	33	97	33	5	-	-	·	0	0	-
	S. Farnborough	226	09·5	+30	NW'N	3	Zo	34	92	31	6	-	-	·	0	0	-
	Boscombe Down	417	11·6	+32	NW'N	4	b	33	92	32	7	5	-	-	1	1	2500
	Thorney Island	10	09·5	+30	NNW	4	b-bc	37	75	31	7	5	-	-	2-3	2-3	2500
	Lympne	283	06·6	+34	NW'N	6	b	33	75	26	7	-	-	·	0	0	-
	Manston	154	05·2	+28	NW	4	Zo	35	85	30	6	5	-	·	1	1	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	04·9	+26	NW'W	5	Zo	35	75	28	6	5	-	·	1	1	4000
	Gorleston	5	02·9	+26	NW'N	5	ph	35	92	32	5	6		·	10	10	1500
	Mildenhall	15	06·0	+22	NW'W	5	Zo	33	75	28	6	-	-	-	0	0	·
	Cranwell	203	08·1	+26	NW'W	4	Zo	33	75	26	6	-	·		0	0	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	09·6	+32	NW	4	b	32	75	26	7	-	-	·	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	13·6	+20	NNW	7	bcq	44	75	35	8	2	-	-	4-6	4-6	1500
	Bristol	209	12·7	+34	NNW	3	Zo	35	85	31	6	5	-	-	Tr	Tr	2500
	Portland Bill	32	11·5	+28	NW	5	b	41	85	37	7	-	-	·	0	0	-
	Plymouth	82	14·1	+26	NW	4	b	42	85	37	7	5		-	Tr	Tr	2500
	The Lizard	240	15·0	+16	N'W	5	bc	43	75	34	8	3	-	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	16·5	+14	NNW	6	c-bc	46	86	41	8	8	6	-	Tr	7-8	1500
	Guernsey	175															
6	Pembroke	142	14·9	+20	NNW	4	b-bc	42	85	37	8	2	-	-	2-3	2-3	2500
7	Holyhead (Valley)	32	13·6	+26	N	4	b	41	65	31	8	-	-	-	0	0	-
	Chester (Sealand)	16	11·2	+14	WNW	2	b	37	65	28	8	-	-	-	0	0	-
8	Manchester	235	11·0	+30	WNW	4	Zo	33	75	27	6	·	-	·	0	0	-
10	Spurn Head	29	06·0	+30	NW	6	bc	35	75	29	7	4	-	-	4-6	4-6	1500
	Catterick	175	09·0	+18	NW	4	b	35	55	23	8	-	-	·	0	0	-
	Tynemouth	108	07·4	+14	NW	4	Zo	34	76	27	6	2	-	-	2-3	2-3	2500
11	St. Abbs Head	280	07·5	+18	NNW	4	b-bc	36	65	26	7	5	-	-	2-3	2-3	2500
	Leuchars	36	09·5	+10	W	3	b	35	65	26	8	-	4	-	0	Tr	-
12	Renfrew (Abbots I.)	19	11·6	+18	NW'W	4	Zo	35	75	27	6	-	·	-	0	0	-
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	12·4	+24	N	5	b	41	75	33	8	4	-	-	Tr	Tr	3000
13A	Tiree	44	15·3	+22	N'W	4	b-bc	37	75	31	9	3	-	3	1	2-3	2500
13B	Stornoway	15	15·0	+22	NNW	3	ps	35	85	30	8	3	-	-	2-3	2-3	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	07·6	+20	NW'N	6	ps	34	85	31	6	3	-	-	4-6	4-6	1500
	Wick	114	08·7	+24	NW	2	bc	37	85	32	9	9	-	-	4-6	4-6	1500
16	Sumburgh	19	05·2	+26	N	5	b-bc	36	85	32	8	3	-	3	2-3	2-3	1500
17	Blacksod Point	18	19·4	+18	N'W	2	b-bc	42	75	35	8	8	-	-	2-3	2-3	2500
18	Malin Head	84	15·7	+34	N	4	b-bc	42	65	32	8	2	-	-	2-3	2-3	2500
	Aldergrove	268	15·5	+24	NW	3	b	35	92	33	8	4	-	-	1	1	2000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	20·5	+14	N'W	4	c	46	55	32	8	5	-	-	9	9	2500
	Roches Point	22	19·5	+28	NNW	4	b	42	85	38	8	3	-	-	1	1	2500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 2nd. Hrs. (38)
London (Kew)	13·9	+24	NW	3	Zo	34	65	26	6	-	-	·	0	0	-	1	*	43	33	26	0·5	-	1·5
Croydon	15·1	+30	WNW	3	Zo	32	85	28	5	·	-	-	0	0	-	3	*	43	31	28	0·1	-	2·1
S. Farnborough	15·1	+26	WNW	3	b	33	85	28	8	-	-	·	0	0	-	3	*	43	32	27	0·1	-	1·8
Boscombe Down	16·2	+18	WNW	3	b	33	83	28	7	-	-	-	-	-	·	1	*	46	31	26	1	0·2	3·0
Thorney Island	15·0	+24	NW'N	3	b	33	85	29	7	-	-	-	0	0	-	0	*	46	32	27	Tr	Tr	*
Lympne	12·8	+30	NW'N	5	b	32	75	25	7	5	-	-	Tr	Tr	4000	3	§*	41	32	*	11	-	2·7
Manston	11·0	+26	NW'W	4	b	35	75	27	7	5	3	-	Tr	1	1500	1	*	41	34	31	0·2	·	2·9
Shoeburyness	12·5	+22	NW	4	Zo	34	75	26	6	-	-	-	0	0	-	3	*	47	33	26	0·3	-	2·8
Felixstowe	10·1	+22	NW	5	Zo	34	65	25	6	5	-	-	Tr	Tr	4000	3	4	46	33	25	1	-	2·7
Gorleston	08·7	+30	NW'W	5	bc/ps	35	85	30	6	5	-	·	4-6	4-6	800	6	4	38	33	32	0·6	10	2·7
Mildenhall	11·7	+26	WNW	4	b-bc	33	85	30	7	5	3	·	1	2-3	4000	1	*	39	32	27	1	Tr	1·3
Cranwell	12·7	+20	NW	4	b	33	85	30	7	5	-		Tr	Tr	4000	3	*	37	32	28	2	-	0·1
Birmingham	15·3	+14	WNW	3	Zo	32	92	30	6	-	-	·	0	0	-	4	*	41	31	26	2	0·6	2·4
Upper Heyford	14·7	+26	NW	3	b	31	85	28	7	-	-	·	0	0	-	1	*	41	30	25	0·4	Tr	*
Ross-on-Wye	16·3	+16	NW	2	b	33	75	26	8	5	-	-	Tr	Tr	3000	1	*	44	33	22	0·5	Tr	2·4
Hartland Point	18·0	+16	N	4	b-bc	43	65	33	8	2	-	-	2-3	2-3	1500	1	5	47	42	40	Tr	-	0·8
Bristol	17·1	+18	WSW	2	b	34	75	27	7	-	-	-	0	0	-	3	*	47	34	22	1	-	4·0
Portland Bill	16·4	+12	NW	4	b	40	85	35	7	-	-	·	0	0	·	1	5	48	36	*	0·1	-	*
Plymouth	18·9	+18	NW	2	Zo	38	85	35	6	-	-	-	0	0	·	1	3	48	38	31	1	-	2·7
The Lizard	15·3	+14	NNW	4	b-bc	36	85	34	8	4	-	-	2-3	2-3	2000	0	3	49	35	*	1	0·5	2·3
Scilly (St. Mary's)	20·2	+6	NNW	4	bc	44	63	33	8	8	6	-	2-3	4-6	1500	1	5	51	43	*	2	1	2·2
Guernsey																							
Pembroke	18·8	+14	NNW	5	bc	42	85	38	8	7	-	·	4-6	4-6	4000	1	3	48	*	*	1	-	0·4
Holyhead (Valley)	17·3	+14	N	4	b-bc	41	65	32	8	2	-	·	2-3	2-3	2500	1	4	43	38	34	5	1	*
Chester (Sealand)	16·0	+22	NNW	3	b	38	65	27	7	5	-	·	Tr	Tr	2500	5	*	46	35	30	3	4	2·2
Manchester	15·3	+18	WNW	3	Zo	31	85	27	6	-	-	·	0	0	·	0	*	41	30	20	4	-	*
Spurn Head	10·2	+24	NNW	6	bc	35	75	26	7	3	-	-	4-6	4-6	1500	0	4	37	34	*	2	-	0·5
Catterick	13·7	+26	NW	2	b	35	85	30	8	5	-	-	Tr	Tr	4000	1	*	39	33	27	0·2	-	1·3
Tynemouth	12·3	+20	NW	4	bc	32	85	27	7	2	-	-	4-6	4-6	2500	3	4	38	31	29	-	-	*
St. Abbs Head	11·7	+18	WNW	4	b-bc	37	65	27	7	5	-	-	2-3	2-3	4000	0	3	37	34	*	-	-	*
Leuchars	23·2	+18	NW	4	b	35	65	25	8	8	-	-	1	1	3000	3	*	36	34	26	-	-	1·2
Renfrew (Abbots I.)	15·5	+18	-	0	Zo	29	92	27	6	5	4	-	2-3	2-3	2000	5	*	38	29	21	1	-	2·5
Eskdalemuir	13·8	+12	NW	4	b	30	65	20	8	-	-	-	0	0	-	4	*	35	27	23	1	-	1·3
Point of Ayre	16·0	+14	N	5	b	41	75	35	8	1	-	-	Tr	Tr	3000	0	4	42	39	*	5	-	0·4
Tiree	18·1	+12	N'E	4	bcjp	35	85	31	9	3	6	3	2-3	4-6	2500	4	4	40	35	31	3	1	1·2
Stornoway	18·5	+18	NNW	4	b-bc/ph	32	97	32	8	3	-	-	2-3	2-3	1500	8	3	37	31	29	2	0·3	0·9
Dalwhinnie	15·2	+16	SW	2	bc	29	92	27	8	5	-	-	4-6	4-6	2500	8	*	32	24	16	1	0·1	0·5
Aberdeen †	12·4	+20	NNW	4	b-bc	32	85	30	7	8	-	-	2-3	2-3	2500	7	3	35	33	30	0·1	2	1·7
Wick	13·1	+18	NNW	4	bc	33	92	30	8	9	·	-	4-6	4-6	1500	8	*	37	32	31	1	3	*
Sumburgh	08·6	+10	N	6	c	36	75	28	8	3	-	3	7-8	9	1800	6	3	38	32	31	5	*	0·9
Blacksod Point	21·2	+8	NE	1	b	37	85	33	8	8	-	-	1	1	4000	1	2	45	35	*	3	-	*
Malin Head	18·6	+18	N'W	4	bc	39	85	35	8	9	-	·	4-6	4-6	2500	2	4	44	36		0·9	1	0·7
Aldergrove	15·6	+14	WNW	2	b-bc	33	97	32	8	5	1	-	1	2-3	2000	4	*	39	31	23	1	1	1·8
Birr Castle	20·5	+14	NW	1	b-bc	30	97	29	8	5	-	-	2-3	2-3	2500	1	*	43	29	25	0·3	0·1	0·4
Valentia Obsy.	22·0	+6	-	0	c-bc	40	85	36	8	5	-	-	7-8	7-8	2500	1	0	(47)	40	33	0·3	0·2	1·6
Roches Point	21·5	+6	N	3	b	37	92	35	8	5	-	-	1	1	2500	1	4	48	37	*	0·1	0·1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 2nd January $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 3rd January $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	9-	83845	30585	9-	85748	63688	5-	61645	65665	8-	87645	61685
115	87	83844	28486				87	02844	65586	82	83745	04488
203							8-	83848	00028			
206	23	02953	26215	80	01843	26483	40	01864	28314	40	01853	26383
216	86	01853	25314	8-	01853	24483	9-	62528	28568	9-	88648	29428
226	30	88735	28585	30	01654	29384				50	01754	30484
236	9-	85857	00087	30	01953	32383	40	01852	28282	50	01952	26412
245	36	02962	24215	36	01861	26311	00	00990	28410	5-	01962	28322
260	57	08434	20176	04	08430	00001	00	05690	24300	00	05690	20100
278	96	81846	62587	10	01951	31581	54	01853	29503	10	10842	31402
279	33	01954	28384	40	05552	30312	00	00790	30300	04	01890	25201
285	02	73528	28578	23	01743	32484						
288	02	72658	17178	00	05590	26370	00	17690	20300	54	17653	23304
575	36	25842	61583	30	25842	61482	00	00890	28200	00	00890	28200
301	8-	27646	30586	8-	05644	32484	00	00790	02400	00	05690	01400
321	65	21375	99036	57	61564	28365	00	05690	27410	04	05690	60401
2.	81	02756		8-	02757	26517	50	01753	28513			
292	26	25645	21286	40	05651	02432	00	00890	28400	00	00890	27300
310	--	73428	20588									
614	8-	85646	57886	52	05655	28428	00	05690	61300			
338	36	88855	61487	80	88754	62684	80	25653	37583	8-	88665	02485
334				--	02546	28417						
340	96	25854	26484	9-	26843	20383	00	00590	28200	00	00690	32200
136	5-	81647	22318	5-	72546	26478	8-	83658	62618	50	01763	61683
338	80	81645	28586	20	01754	28515						
358	8-	25757	24387	8-	02754	59484	00	05690	28300	50	05661	26311
368	80	25754	57584	84	81644	61585	00	00790	30180	00	00790	26200
379	8-	02755	34485	53	01754	28484	00	05690	28580	00	05690	28400
390	5-	25645	26387	8-	05567	24427	00	05590	61500	00	05690	61500
382	57	25855	24587	86	25864	27484	00	00790	63500	00	00790	25300
438	8-	02757	22617	87	02754	28515	00	00790	30500	00	00790	30500
430	5-	25747	22487	57	05655	28326	00	05690	28510	00	05680	30400
409	84	81855	61686	8-	82758	63588	50	01864	63604	20	01861	30501

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, Nh = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 3rd January. Day 7h—18h Kew and Croydon 9h—18h Kensington 9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	bbcczo	cdoro cbc	cbc bzx
Croydon	bc moiro	moirophm	bmox
Greenwich	bc	ciro bcp	bcbx
Camden Square	b	c	*
Kensington	bcpcr	bc	*
Hampstead	bcps	bcpx	b

Atmospheric Pollution, Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. Time. Min. Time.

Stations	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 % (Yesterday)	Humidity 9h % To-day
Kew	43	33	26	0·5	-	1·5	*	*
Croydon	43	31	28	0·1	-	2·1	*	*
Greenwich	43	32	24	0·3	-	0·6	78	68
Westminster	44	32	25	0·2			79	79
Regents Park								
Camden Square	43	33	27	0·5	-	*	*	81
Kensington	45	33	27	Tr	Tr		92	71
Hampstead	42	30	23	0·1	Tr		*	82

SECRET

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Monday 4th January 1943

No. 236.28

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp °F. (6)	% Humid. (7)	°F. Dew Point. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Cloud. Height of Base (feet) (15)
1	London (Kew)	16·2	+2	NW'N	4	z_0	39	55	27	6	–	–	5	0	4·6	–
	Croydon	16·8	+2	NW	3	m	39	75	32	4	–	4	2	0	4·6	–
	S. Farnborough	17·3	+6	NN'N	3	bc	40	65	29	7	1	–	4	Tr	4·6	3000
	Boscombe Down	18·4	+2	N'N	3	c	40	75	32	8	–	–	6	0	9	–
	Thorney Island	17·3	+2	NN'W	3	c-bc	40	65	31	8	1	–	8	Tr	7·8	4000
	Lympne	14·3	+8	NW'N	5	z_0	37	65	27	6	–	–	1	0	2·3	–
	Manston	13·7	+10	NNW	5	b-bc	38	75	30	7	–	4	5	0	2·3	–
2	Shoeburyness	22·1	–4	NW	4	z_0	39	75	30	5	–	–	5	0	2·3	–
	Felixstowe	13·1	+14	NNW	5	b	38	65	28	7	8	–	1	Tr	1	4000
	Gorleston	12·1	+16	NW	3	ps	36	85	31	6	8	–	–	7·8	7·8	1200
	Mildenhall	14·4	+6	NN'W	4	bc	37	75	28	7	2	4	4	Tr	4·6	2500
	Cranwell	14·6	+6	NW'N	4	z_0	38	65	26	6	–	–	4	0	7·8	–
3	Birmingham	17·3	+2	WNW	3	z_0	36	75	28	5	5	–	6	2·3	7·8	4000
	Upper Heyford	16·8	+6	WNW	3	z_0	35	85	32	6	–	–	2	0	7·8	–
4	Ross-on-Wye	18·0	0	WNW	2	c-bc	40	65	31	8	1	4	8	Tr	7·8	3000
5	Hartland Point	19·5	0	WSW	3	c-bc	43	65	33	8	3	–	6	4·6	7·8	2000
	Bristol	18·7	+2	W	2	z_0	41	85	36	6	1	3	5	Tr	2·3	4000
	Portland Bill	18·6	+6	NW	4	c	43	85	38	8	2	4	–	4·6	10	4000
	Plymouth	20·6	–2	NN'W	2	c-bc	45	85	40	7	4	7	1	4·6	7·8	3000
	The Lizard	20·7	0	NW	3	bc	46	65	34	8	8	6	–	4·6	4·6	2500
	Scilly (St. Mary's)	21·4	–2	NW	2	c-bc	48	65	37	8	8	7	5	4·6	7·8	1500
	Guernsey															
6	Pembroke	20·3	+2	NNW	2	c	43	65	34	8	2	7	–	4·6	9+	2000
7	Holyhead (Valley)	18·6	+2	NN'W	3	c	42	65	33	8	8	3	6	4·6	9	3000
	Chester (Sealand)	17·1	+6	NNW	2	c	41	65	31	8	5	–	7	Tr	10	2500
8	Manchester	17·0	+6	W	2	z_0	37	85	32	5	–	7	1	0	9+	–
10	Spurn Head	13·8	+18	NW'W	6	bc	37	75	31	7	7	–	1	2·3	4·6	4000
	Catterick	16·2	+4	W'N	3	c-bc	37	55	23	8	–	–	8	0	7·8	–
	Tynemouth	15·1	+6	W	3	bc	40	45	21	6	2	3	1	2·3	4·6	3400
11	St. Abbs Head	17·3	0	NNW	4	bc	36	85	30	7	2	4	–	2·3	4·6	3000
	Leuchars	15·1	+2	NNW	3	bc	35	65	27	8	1	4	8	1	4·6	4000
12	Renfrew (Abbots I.)	17·1	+2	NW	4	c	34	75	28	8	8	7	8	1	9+	2000
	Eskdalemuir	16·5	0	NNW	2	c-bc	33	65	21	8	–	1	8	0	7·8	–
	Point of Ayre	17·1	+4	N	4	c	41	75	33	8	8	2	–	1	9+	3000
13A	Tiree	19·5	+2	N'E	4	c-bc	38	65	36	9	1	3	8	2·3	7·8	3000
13B	Stornoway	19·3	–2	NNW	2	c	35	75	29	8	2	6	6	4·6	9+	2200
15	Dalwhinnie	16·5	+10	N	2	c-bc	29	85	26	8	5	–	1	7·8	7·8	2500
	Aberdeen	14·5	+12	NNW	4	b-bc/ps	31	97	31	8	9	–	3	2·3	2·3	2500
	Wick	14·8	+6	NNW	4	ps	30	97	30	6	9	–	–	7·8	7·8	1500
16	Sumburgh	11·3	+10	NNW	7	ps	32	85	29	7	3	6	3	4·6	4·6	1500
17	Blacksod Point	21·1	–6	SE	1	c-bc	43	85	39	8	5	3	6	4·6	7·8	4000
18	Malin Head	19·1	0	N'E	3	c-p	41	75	34	8	8	2	–	4·6	9	1500
	Aldergrove	19·3	–2	NNW	1	c-p	36	92	34	7	5	2	8	7·8	9+	2500
19	Birr Castle	20·9	–4	S	2	bc	40	85	36	8	–	–	8	0	4·6	–
20	Valentia Obsy.	20·9	–14	S	1	c	44	85	40	9	5	2	–	9	10	4000
	Roches Point	21·5	–8	N	3	c	40	85	36	8	5	–	6	1	9	2500

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

District	Stations.	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	°Temp. (21)	% Humid. (22)	°F. Dew Point. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Cloud. Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	16·9	+4	W	2	m	35	85	30	4	–	2	8	0	1	–	1	*
	Croydon	17·4	+6	W	1	bcf	34	92	32	3	–	–	1	0	4·6	–	1	*
	S. Farnborough	17·4	+2	W'N	2	bc	34	85	31	7	–	7	1	0	4·6	–	1	*
	Boscombe Down	18·4	+2	W'N	3	z_0	35	92	33	6	4	7	6	7·8	10	7200	0	*
	Thorney Island	17·3	–2	WNW	2	z_0	37	85	32	6	–	3	2	0	9+	–	1	*
	Lympne	15·4	+2	WNW	3	z_0	34	85	30	5	–	4	8	0	7·8	–	1	3
	Manston	15·5	+8	NW	3	z_0	37	75	28	6	–	7	–	0	1	–	1	*
2	Shoeburyness	15·9	+8	WNW	4	z_0	35	85	29	5	–	–	–	0	2·3	–	3	*
	Felixstowe	14·0	+4	NW	5	z_0	35	75	27	6	–	7	–	0	4·6	–	0	4
	Gorleston	13·5	+12	NN'W	4	z_0	34	85	30	6	–	–	–	0	0	–	6	3
	Mildenhall	15·3	+4	W'N	3	z_0	32	85	29	5	–	7	2	0	4·6	–	1	*
	Cranwell	15·8	+4	WNW	3	z_0	33	75	26	5	–	–	2	0	2·3	–	1	*
3	Birmingham	16·8	0	WNW	2	m	35	85	31	4	–	2	–	0	10	–	4	*
	Upper Heyford	17·1	+4	NW	3	z_0	34	85	31	6	–	7	7	0	9	–	1	*
4	Ross-on-Wye	17·6	0	SW'W	2	c	37	85	32	8	5	2	–	2·3	10	3000	1	*
5	Hartland Point	18·8	–2	NW	3	c	43	65	31	8	2	4	6	2·3	9	2000	0	4
	Bristol	18·5	0	W	1	m	35	92	35	4	5	7	–	2·3	9+	2500	1	*
	Portland Bill	17·7	–4	NW	4	c	43	85	38	7	5	–	–	10	10	4000	1	4
	Plymouth	20·0	–2	NN'W	2	z_0	41	85	37	5	4	7	2	4·6	7·8	2500	1	2
	The Lizard	19·8	–4	NNW	2	bc	39	85	34	8	8	6	–	4·6	4·6	1500	1	3
	Scilly (St. Mary's)	29·4	–2	NW'N	1	c	43	75	34	8	8	7	–	4·6	10	1500	1	3
	Guernsey																	
6	Pembroke	19·0	0	NNW	3	bc	43	75	36	8	2	–	–	4·6	4·6	2500	1	3
7	Holyhead (Valley)	18·3	+2	NN'W	3	c	41	75	34	8	5	7	–	2·3	10	2000	1	2
	Chester (Sealand)	16·9	+2	N	1	bc	38	75	31	6	5	3	–	4·6	4·6	2500	4	*
8	Manchester	16·7	+2	W'S	2	z_0	33	85	28	4	–	4	2	0	2·3	–	3	*
10	Spurn Head	14·4	+6	NW'W	6	bc	35	75	28	7	7	3	–	4·6	4·6	4000	0	5
	Catterick	15·9	+2	WNW	3	z_0	32	65	23	6	–	4	1	0	1	–	0	*
	Tynemouth	15·4	–2	W	4	bc	31	92	30	6	2	–	–	4·6	4·6	2500	3	4
11	St. Abbs Head	14·5	+2	N	4	bc	35	55	20	7	5	–	–	4·6	4·6	3000	0	4
	Leuchars	16·2	+10	W'N	3	b	32	55	20	8	–	4	–	0	1	–	3	*
12	Renfrew (Abbots I.)	18·3	+10	–	0	b	29	85	26	8	–	4	1	0	Tr	–	3	*
	Eskdalemuir	17·2	+2	NNW	3	b	27	85	23	8	–	4	–	0	Tr	–	4	*
	Point of Ayre	17·6	+6	N'E	5	b-bc	39	75	32	8	2	4	–	1	2·3	3000	0	4
13A	Tiree	19·2	+2	–	0	bc	33	75	27	9	4	4	2	2·3	4·6	4000	0	1
13B	Stornoway	19·2	–2	W	2	s_0s_0	31	97	30	5	–	2	–	10	10	800	8	2
15	Dalwhinnie	17·6	–2	NNE	3	bc	25	85	21	8	5	–	1	2·3	4·6	4000	8	*
	Aberdeen	14·4	0	NNW	4	b	30	75	23	8	9	–	–	Tr	Tr	2500	7	3
	Wick	14·8	–2	NNW	5	ps	32	85	29	8	9	–	–	7·8	7·8	1500	8	*
16	Sumburgh	11·5	+2	NNW	6	psh	31	92	30	8	9	–	–	7·8	7·8	1500	8	4
17	Blacksod Point	19·2	–6	SSE	3	fs	42	75	34	8	5	–	–	10	10	4000	1	1
18	Malin Head	19·4	+2	E	1	c-bc	38	65	27	8	8	–	–	7·8	7·8	2500	2	4
	Aldergrove	19·7	+4	–	0	b-bc	32	92	30	7	5	–	–	2·3	2·3	3000	1	*
19	Birr Castle	19·9	–6	S	1	c-bc	34	92	32	8	5	–	8	2·3	7·8	2500	1	*
20	Valentia Obsy.	18·5	–14	SE	3	r_0r_0	44	85	40	8	5	2	–	7·8	10	2500	1	2
	Roches Point	20·0	–10	NNE	1	b-bc	37	85	33	8	5	–	–	2·3	2·3	2500	1	2

PAST 24 HOURS.

District	Stations.	Weather. 7h.–13h. 3rd (39)	Weather. 13h.–18h. 3rd (40)	Weather. 18h. 3rd to 1h. 4th (41)	Weather. 1h.–7h. 4th (42)
1	London (Kew)	bbcz$_0$y	cz$_0$bm$_x$	b$_0$cm$_x$	cm$_0$z$_0$x
	Croydon	bm$_0$xbm	czcmfbcf	bfbnbm$_x$	cm$_x$bm$_x$cf$_x$
	S. Farnborough	bxbccbc	bccbc	bccm$_0$x	bccm$_0$m$_x$
	Boscombe Down	bcc	cbccm$_0$	cm$_0$cw	cbccm$_0$
	Thorney Island	bbc	bccm$_0$	cbccm$_0$	cbccm$_0$
	Lympne	bbz$_0$	bcz$_0$cz$_0$m$_0$	cm$_0$bf$_x$	bfm$_0$x
	Manston	b	b$_0$cz$_0$	bm$_0$bx$_0$	bmm$_0$x
2	Shoeburyness	bm$_0$	cm$_0$bcm$_0$	bm$_0$	bm$_0$
	Felixstowe	bm$_0$bbcb	bbcbm$_0$bcm	bcm$_0$bm$_0$x	bm$_0$x
	Gorleston	cps$_0$	cz$_0$bcbz$_0$	bz$_0$z$_0$	bt$_0$ps$_0$
	Mildenhall	bc	cz$_0$bcm$_0$	bcm$_0$bm$_0$b	bm$_0$x
	Cranwell	bm$_0$bcm$_0$	bcm$_0$	bmx	bmx
3	Birmingham	bbcz	bccm	cb	bbcz
	Upper Heyford	bxbccm$_0$	cm$_0$ccm$_0$	bcm$_0$bm$_0$	bm$_0$bcmx
4	Ross-on-Wye	bbc	c	cbcc	c
5	Hartland Point	bcc	c	cbc	bccir
	Bristol	bbcm$_0$	bcm$_0$cm$_0$	cbcm$_0$m w	bbcm$_x$
	Portland Bill	bcc	c	c	c
	Plymouth	bm$_0$bcm	bcz$_0$cm$_0$	bcb, cm$_0$	cm$_0$x
	The Lizard	bccbc	bccbc	bccw	orr
	Scilly (St. Mary's)	bcc	c	cir$_0$	cr$_0$r$_0$d$_0$d$_0$
	Guernsey				
6	Pembroke	c	cbc	bc	c
7	Holyhead (Valley)	c	c	cb, c	bcabc
	Chester (Sealand)	bbcc	cz$_0$bc	bcz$_0$zb	bbczy
8	Manchester	bcm$_0$x	cm$_0$m	bffm$_x$	bbcm$_f$x
10	Spurn Head	ps$_0$bc	cbcl	bbcl	bc
	Catterick	bc	ccm$_0$	bz$_0$b	bbm$_0$x
	Tynemouth	bc	bc	bc	bc
11	St. Abbs Head	bc	cbc	bccbbc	bcb
	Leuchars	bbc	bcb	bcbbx	bc
12	Renfrew (Abbots I.)	bcm$_0$xcx	cabcbcx	bm$_0$x	bm$_0$x
	Eskdalemuir	bxbcc	cbcb	b	bbc
	Point of Ayre	bbctg	cbcb	by	bbcc
13A	Tiree	bccprsc	cbc	bc	bccy
13B	Stornoway	bccps$_0$c	cps$_0$s$_0$s$_0$	os$_0$s$_0$m$_0$bcps$_0$	cs$_0$s$_0$m$_0$
15	Dalwhinnie	bcprcc	cbc	*	bcps
	Aberdeen	bbcps$_0$	bccps$_0$b	bbccps$_0$	cbcbz$_0$
	Wick	cpshcps$_0$	bccps$_0$	bc	bcps$_0$cps
16	Sumburgh	cps$_0$bcps$_0$	cps$_0$bc	bc	b
17	Blacksod Point	c	c	r	r
18	Malin Head	pr	pr	c	c
	Aldergrove	cpsc	cir$_0$cbc	bcm$_0$x	bcbxcx
19	Birr Castle	bc	c	*	s
20	Valentia Obsy.	bc	r	r	r
	Roches Point	c	c	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 4th January, 1943.

Districts.	Forecasts
1 S.E. England 2 E. England 3 E. Midlands 4 W. Midlands	Light or moderate westerly winds, backing southeast; cloudy; snow later; local fog tonight, very cold, with hard frost tonight.
5 S.W. England 6 South Wales 7 North Wales	Moderate southeast winds, veering west later in southwest; rain in southwest at first; snow elsewhere; rather cold in southwest; very cold elsewhere.
8 N.W. England	As 10–13A.
9 N. Midlands	As 1–4.
10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man 13A W. Scotland	Light variable or southeasterly winds; half cloudy; very cold, with hard night frost.
13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Light northwesterly winds, becoming variable light; snow showers today; half cloudy tomorrow; very cold, with hard night frost.
16 Orkneys and Shetlands	
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland	Moderate easterly winds; cloudy, with rain, sleet, and snow; very cold.
20 S.W. Ireland	Moderate southwesterly winds; occasional rain, rather cold.

GENERAL INFERENCE

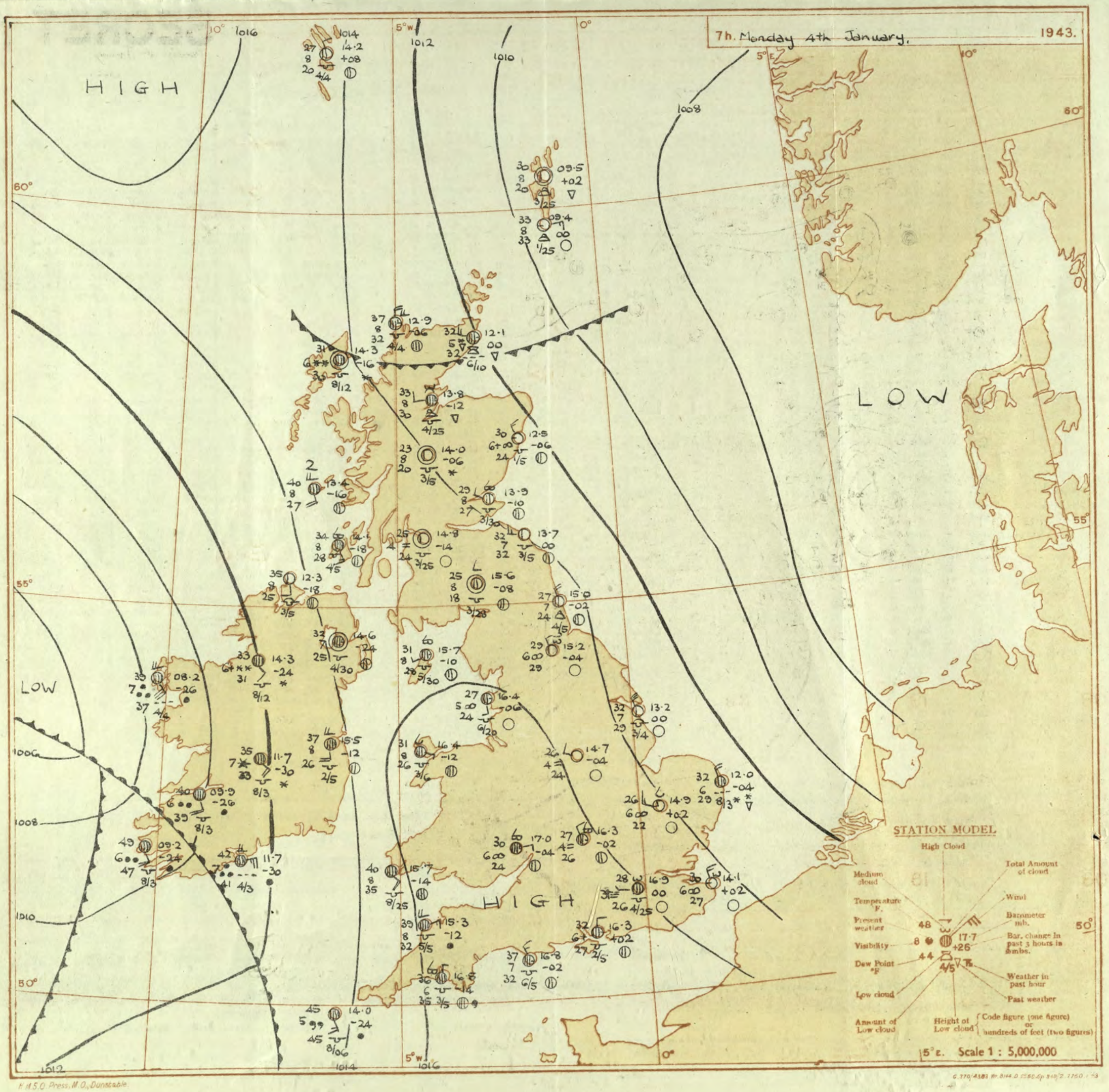
Ridge of high pressure over British Isles moving east; small depression West of Ireland moving southeast towards Southwest England. Snow will spread across North and East Ireland, Wales, and England, South of Mersey Wash, with rain in West and South Ireland, Southwest England ~~and later in Southwest Wales. A few snow showers in North Scotland at first.~~

FURTHER OUTLOOK

Wintry conditions persisting in North and East, probably milder in Southwest.

Forecasts issued at 10.30

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

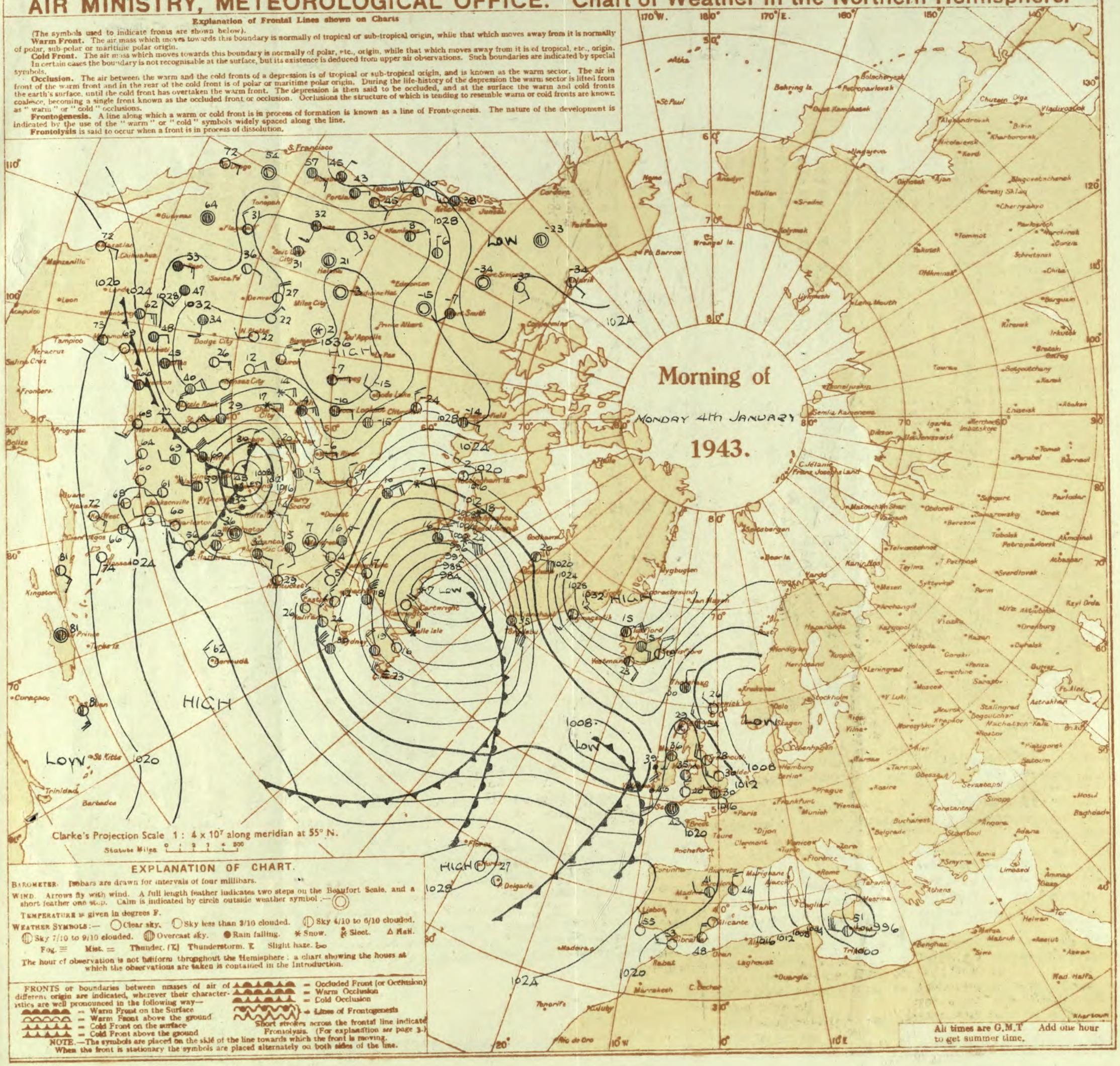
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add one hour to get summer time.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Monday 4th January 1943

No. 29628

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	33	*	*	*	*	*	*	*	*	*
	Croydon	290	16·8	-4	W'N	1	m	32	97	32	4	-	7	-	0	7·8	-
	S. Farnborough	226	16·0	-6	W'S	2	z0	33	92	31	6	5	7	-	2-3	9+	3000
	Boscombe Down	417	17·3	-4	W'N	2	c	33	97	33	7	-	7	2	0	9	-
	Thorney Island	10	16·3	-6	NW'W	2	c-bc	35	85	32	6	5	-	-	7·8	7·8	4000
	Lympne	283	15·0	-6	WNW	3	b-bcf	28	97	27	3	-	-	5	0	2-3	-
	Manston	154	14·5	-2	NW	3	m	33	85	28	4	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	13·9	+4	NW'W	4	z0	32	75	26	6	-	-	-	0	0	-
	Gorleston	5	13·2	0	WNW	3	z0	30	85	27	6	-	-	-	0	0	-
	Mildenhall	15	14·6	-2	WNW	3	z0	28	85	24	5	-	-	-	0	0	-
	Cranwell	203	15·0	-2	WNW	3	m	28	75	22	4	-	-	-	0	0	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	15·9	-4	WNW	2	z0	32	97	31	6	5	-	-	4·6	4·6	3300
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	17·4	-10	NW	3	b-bc	42	75	35	8	2	-	-	2-3	2-3	2500
	Bristol	209	17·3	-4	W	1	z0	33	97	31	6	5	-	-	Tr	Tr	4000
	Portland Bill	32	17·4	-2	NW	4	c-bc	41	85	36	7	5	-	-	7·8	7·8	4000
	Plymouth	82	18·8	-8	-	0	z0	33	97	32	6	-	7	-	0	9+	-
	The Lizard	240	18·1	-6	-	0	c-bc	42	75	34	8	8	-	-	7·8	7·8	1500
	Scilly (St. Mary's)	163	18·0	-16	-	0	c-bc/r	43	92	41	7	5	-	-	7·8	7·8	1000
	Guernsey	175															
6	Pembroke	142	18·3	-4	N'W	2	b-bc	40	75	34	8	2	-	-	2-3	2-3	3000
7	Holyhead (Valley)	32	18·0	-4	ENE	1	bc	35	75	26	8	5	-	-	4-6	4·6	5100
	Chester (Sealand)	16	17·5	+16	NNW	1	b	30	55	18	6	-	-	-	0	0	-
8	Manchester	235	17·4	+6	WNW	1	m	27	85	22	4	-	-	-	0	0	-
10	Spurn Head	29	13·8	0	NW	6	b-bc	32	85	29	7	7	-	-	2-3	2-3	2500
	Catterick	175	16·1	+2	WNW	3	b	29	85	25	7	-	-	-	0	0	-
	Tynemouth	108	15·3	0	NW	4	b-bc	28	92	27	7	-	4	-	0	2-3	-
11	St. Abbs Head	280	14·4	+4	W	4	b-bc	32	97	31	7	5	-	-	2-3	2-3	4000
	Leuchars	36	13·3	-8	WSW	3	b-bc	30	65	21	8	5	4	8	Tr	2-3	4000
12	Renfrew (Abbots I.)	19	17·0	-10	-	0	z0	24	97	22	5	-	-	-	0	0	-
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	17·5	-8	-*	0*	b	34	55	22*	8*	-*	-*	-*	0*	0*	-*
13A	Tiree	44	16·6	-16	SW'S	1	bc	34	65	25	8	5	4	8	Tr	4-6	4000
13B	Stornoway	15	16·8	-14	-	0	ps	29	97	29	7	8	-	-	2-3	2-3	1200
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	13·9	-6	WNW	4	c	31	92	29	7	-	2	-	0	10	-
	Wick	114	13·5	-6	NW	3	bc	34	92	32	8	9	-	-	4·6	4·6	1500
16	Sumburgh	19	09·5	-10	N	3	b-bc	29	97	28	8	2	-	-	2-3	2-3	2000
17	Blacksod Point	18	13·8	-26	SE'S	4	rr	39	85	35	7	6	2	-	4-6	10	1500
18	Malin Head	84	16·3	-20	S'W	2	c	36	65	26	8	8	-	-	9	9	2500
	Aldergrove	268	18·0	-10	-	0	bc	30	92	28	7	5	-	-	4-6	4-6	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	13·9	-22	SSE	4	r0r0	46	85	42	7	5	-	-	10	10	1500
	Roches Point	22	16·8	-20	E	3	ir0	42	92	40	8	6	2	-	4-6	9+	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	15·7	0	NW	2	z0	30	75	23	5	5	3	-	9	9+	4000	3	*
Croydon	16·9	0	W	1	c-bcf+	28	92	26	3	5	3	-	4-6	7·8	2500	3	*
S. Farnborough	16·3	+2	WNW	2	m	29	85	26	4	5	7	-	4-6	9	3000	3	*
Boscombe Down	17·4	0	NW'N	2	z0	30	85	24	6	5	7	-	2-3	9	2500	3	*
Thorney Island	16·3	+2	N'W	2	c	32	85	27	6	5	1	-	1	9	2500	0	*
Lympne	15·1	+2	NW'W	3	z0	25	92	22	5	-	7	-	0	1	-	3	§ *
Manston	14·1	+2	NNW	3	z0	30	85	27	6	-	3	-	0	Tr	-	1	*
Shoeburyness	15·3	-4	NW	3	z0	28	75	22	5	-	-	-	0	0	-	3	*
Felixstowe	13·6	-2	NW'W	4	z0	29	75	22	6	-	7	-	0	1	-	3	4
Gorleston	12·0	-4	NW'N	4	c/ps	32	92	29	6	6	-	-	10	10	800	3	3
Mildenhall	14·9	+2	WNW	3	z0	26	85	22	6	-	4	-	0	1	-	3	*
Cranwell	14·7	-4	WNW	2	m	26	85	24	4	-	-	-	0	0	-	3	*
Birmingham	16·6	-2	NW	2	z0	29	85	26	5	-	-	6	0	7·8	-	4	*
Upper Heyford	16·3	-2	NW	2	m	27	92	26	4	-	7	-	0	9	-	3	*
Ross-on-Wye	17·0	-4	E	1	z0	30	75	24	6	-	7	-	0	9+	-	3	*
Hartland Point	15·3	-12	ENE	3	c	39	75	31	8	5	2	-	7·8	10	2500	1	4
Bristol	17·5	-2	SE	1	m	31	85	26	4	-	7	5	0	2-3	-	3	*
Portland Bill	16·8	-2	NW	3	c	37	85	32	7	5	-	-	9	9	2500	1	3
Plymouth	16·5	-14	N'E	1	c/d	36	97	35	6	5	7	-	2-3	10	2500	1	1
The Lizard	14·9	-16	E	3	rr	43	92	41	6	5	-	-	10	10	1000	1	3
Scilly (St. Mary's)	14·0	-24	SSE	3	d0d0	45	97	45	5	5	-	-	10	10	600	1	3
Guernsey																	
Pembroke	15·7	-14	SE'E	4	c	40	85	35	8	5	-	-	10	10	2500	0	3
Holyhead (Valley)	16·4	-12	ESE	1	c-bc	31	85	26	8	5	4	-	2-3	7·8	4000	1	2
Chester (Sealand)	16·5	-6	-	0	c	30	55	16	5	5	1	-	2-3	9	2500	4	*
Manchester	16·8	-4	SSE	2	cf	26	85	23	3	5	7	-	4·6	9+	2500	0	*
Spurn Head	13·2	0	NW	6	b-bc	32	85	29	7	4	-	-	2-3	2-3	1500	3	4
Catterick	15·2	-4	NW	2	z0	29	97	29	6	-	3	1	0	2-3	-	3	*
Tynemouth	15·0	-2	NW	4	bc	27	85	24	7	2	-	-	4-6	4-6	2500	3	3
St. Abbs Head	13·7	0	W	3	b-bc	32	97	32	7	5	-	-	2-3	2-3	2500	0	4
Leuchars	13·9	-10	WNW	2	bc	29	92	27	8	5	7	-	2-3	4-6	3000	3	*
Renfrew (Abbots I.)	14·8	-14	-	0	m	25	92	24	4	5	-	-	2-3	2-3	2500	3	*
Eskdalemuir	15·6	-8	-	0	bc	25	75	18	8	5	1	-	2-3	4-6	2800	4	*
Point of Ayre	15·7	-10	SW'W	1	c	31	85	28	8	5	7	-	7·8	9	3000	3	1
Tiree	13·4	-16	SSE	4	c	40	55	27	8	-	2	6	0	10	-	3	3
Stornoway	14·3	-16	-	0	S0S0	31	97	30	6	5	-	-	10	10	1200	8	1
Dalwhinnie	14·0	-6	-	0	b-bc	23	85	20	8	5	-	-	2-3	2-3	2500	7	*
Aberdeen †	12·5	-6	NW	3	z0	30	85	24	6	5	-	-	Tr	Tr	2500	7	2
Wick	12·1	0	WNW	3	ps	32	92	32	5	9	-	-	9	9	1000	8	*
Sumburgh	09·4	0	ENE	3	b	33	97	33	8	2	-	-	Tr	Tr	2500	8	2
Blacksod Point	08·2	-26	SE	6	rr	39	92	37	7	6	2	-	4-6	10	1500	2	5
Malin Head	12·3	-18	S	2	b-bc	35	65	24	8	4	-	-	2-3	2-3	2500	3	3
Aldergrove	14·6	-24	-	0	c	32	75	25	7	5	7	-	4-6	9+	3000	3	*
Birr Castle	11·7	-30	SE	4	rs	35	92	33	7	5	-	-	10	10	800	1	*
Valentia Obsy.	09·2	-24	SSE	4	r0r0	49	92	47	6	5	-	-	10	10	800	1	3
Roches Point	11·7	-30	E	5	rr	42	97	41	7	6	2	-	4-6	10	800	1	4*

PAST 24 HOURS

Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 3rd. Hrs. (38)
London (Kew)	39	29	18	-	Tr	4·2
Croydon	39	27	23	-	-	4·3
S. Farnborough	40	29	20	-	-	4·9
Boscombe Down	40	30	27	-	-	4·4
Thorney Island	41	31	22	Tr	-	*
Lympne	38	24	19	-	-	6·6
Manston	38	30	28	-	-	5·2
Shoeburyness	39	27	23	-	-	4·7
Felixstowe	38	28	26	-	0·2	5·4
Gorleston	37	29	27	5	1	2·2
Mildenhall	37	25	19	-	-	3·4
Cranwell	38	25	22	0·1	-	4·3
Birmingham	37	27	21	-	-	1·9
Upper Heyford	36	25	*	-	-	*
Ross-on-Wye	41	29	24	-	-	3·2
Hartland Point	44	39	38	-	0·1	1·0
Bristol	43	31	25	-	-	4·3
Portland Bill	46	34	*	-	-	*
Plymouth	46	32	24	-	-	4·0
The Lizard	46	38	*	Tr	1	2·7
Scilly (St. Mary's)	48	42	*	-	1	1·5
Guernsey						
Pembroke	44	*	*	-	-	0·7
Holyhead (Valley)	43	29	22	-	-	*
Chester (Sealand)	41	25	15	-	-	3·1
Manchester	37	24	14	-	-	*
Spurn Head	38	30	*	-	-	4·6
Catterick	37	29	21	-	-	3·6
Tynemouth	40	26	24	-	-	*
St. Abbs Head	37	31	*	-	-	*
Leuchars	37	28	24	-	-	2·8
Renfrew (Abbots I.)	35	22	17	-	-	0·9
Eskdalemuir	33	20	10	-	-	2·2
Point of Ayre	41	26	*	-	-	2·9
Tiree	39	30	24	0·3	-	2·2
Stornoway	35	28	30	Tr	4	0·0
Dalwhinnie	31	23	18	0·1	2	0·0
Aberdeen †	35	29	24	0·2	0·1	3·3
Wick	33	31	28	3	2	*
Sumburgh	37	28	26	Tr	*	0·9
Blacksod Point	44	38	*	-	10	*
Malin Head	41	34	*	1	-	0·0
Aldergrove	36	26	21	Tr	Tr	0·9
Birr Castle	42	32	29	-	3	1·8
Valentia Obsy.	45	42	41	0·1	7	0·0
Roches Point	42	37*	*	-	3	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 3rd January ......18h. G.M.T. — 01h. G.M.T. 4th January ......07h. G.M.T.

13h. IIICLCM	13h. wwVhNh	13h. DDFWN	18h. CLCM	18h. wwVhNh	18h. DDFWN	01h. CLCM	01h. wwVhNh	01h. DDFWN	07h. CLCM	07h. wwVhNh	07h. DDFWN
109 9-	83537	63587	3-	01754	29684	9-	02754	26514	2-	01752	27382
115 77	26844	32486	82	71835	32588	57	10844	32386	52	02844	32427
203 8-	02945	32525									
206 36	26953	28385	86	83844	28387	87	26855	28288	86	02854	24287
210 26	02853	29685	03	02890	62688	5-	26858	26488	5-	68857	21377
220 23	01853	01214									
230 70	02962	25327	50	01961	00011	50	01962	00002			
245 30	01953	27314	24	01951	28311	20	01953	26313	24	01962	26213
260 52	05661	24225	00	00790	28200	00	05690	24210	50	05662	24102
278 22	02954	28427	44	01851	02311	00	00890	00000	07	02790	14128
279 20	02851	00026	50	05552	01122	00	00790	20100	53	01862	00014
285									50	00852	32302
288 06	05690	24314	00	05690	24310	00	00790	25400	04	01790	25301
575 83	10852	32126	5-	02877	00027	5-	02867	00027	5-	72648	12278
301			70	08452	32127	00	05590	28100	5-	05556	14106
371 00	05590	28400	00	08490	24213	00	05690	26300	00	08490	28300
[illegible] 80	05644	26514	5-	05653	28513				5-	01754	26514
292 21	02951	27416	04	01890	28322	00	00890	27300	00	00890	27200
310									--	02626	20426
614 00	05690	26217	07	05590	28112						
333 25	10954	30327	87	02865	28388	51	02764	30228	5-	01753	00014
334											
340 50	05661	30127	57	05664	26128	00	05590	32200	03	05590	00026
136 38	05663	60514	04	05690	26414	00	05690	26300	50	05662	26402
336									50	01753	04313
350 04	05690	26315	54	05561	24227	00	08490	26100	03	05596	25215
368 83	02863	28316	53	02764	28125	52	02664	30126	52	02663	04128
379 57	02753	28325	07	05690	26225	07	05690	24314	07	05690	24316
390 03	01790	28304	00	47390	27313	00	45390	24240	00	45390	28240
382 10	02861	28327				00	00780	26110	07	05690	28206
438 44	01763	30514	50	05663	28313	50	02745	22305	57	02744	30316
430 10	01852	28215	00	05690	26127	57	05664	28327	57	05662	30127
400 26	25955	29488	87	02954	29385	5-	02877	00027	02	62758	00068

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, Nh = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
CL CM = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 4th January......
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	bbcz0x	cz0bmx	bccmzx
Croydon	bm0rbm	c2cmcf	bcmxbf
Greenwich	bz0x	bz0c	cbcmx
Camden Square	b	c	*
Kensington	bc	bc	*
Hampstead	b	bc	bcx

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. Time 0·6 17hrs 3rd. Min. Time <0·1 0-3hrs 4th.

Stations	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 % Yesterday	Humidity 9h % To-day
Kew	39	29	18	-	Tr	4·2	*	*
Croydon	39	27	23	-	-	4·3	*	*
Greenwich	39	28	20	-	Tr	3·5	68	70
Westminster	41	29	23	-	-	*	73	91
Regents Park	39	28	22	-	-	*	73	71
Camden Square	39	28	23	-	-	*	*	78
Kensington	40	29	23	-	-	*	70	75
Hampstead	40	25	19	-	-	*	*	83

SECRET

Page 1

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Tuesday, 5th January, 1943.

No. 29629

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	15·2	-6	W'S	1	cf	34	65	24	3	-	1	6	0	9	-
	Croydon ...	16·7	-6	W	1	c-bcm f	32	92	30	4	-	7	2	0	7-8	-
	S. Farnborough	15·9	-10	NW'W	2	z_0	35	65	26	6	-	4	8	0	9	-
	Boscombe Down	16·7	-10	-	0	z_0	34	65	24	6	5	9	6	4-6	9+	2500
	Thorney Island	16·0	-8	WNW	1	z_0	36	65	26	6	-	3	6	0	9	-
	Lympne ...	14·6	-8	NNW	3	z_0	33	85	30	5	-	3	1	0	9	-
	Manston ...	14·2	-14	NW	3	z_0	34	75	27	6	-	3	6	0	9+	-
2	Shoeburyness ...	15·1	+6	NW	4	z_0	34	85	30	5	-	7	-	0	7-8	-
	Felixstowe ...	13·9	-2	NW'W	4	z_0	34	75	28	6	-	7	2	0	4-6	-
	Gorleston ...	12·6	0	NW'W	3	z_0	34	75	28	6	8	-	-	4-6	4-6	1500
	Mildenhall ...	14·2	-6	WNW	2	z_0	32	85	30	6	-	4	6	0	7-8	-
	Cranwell ...	14·1	-8	W	3	z_0	35	75	27	6	-	3	6	0	4-6	-
3	Birmingham ...	14·8	-8	SW	1	m	33	75	26	4	-	5	8	0	10	-
	Upper Heyford	15·6	-6	NW'W	1	z_0	33	65	22	6	-	4	6	0	9	-
4	Ross-on-Wye	15·8	-12	SW'S	1	c	33	65	22	8	-	1	-	0	10	-
5	Hartland Point	12·3	-28	E	3	s_0s_0	33	85	29	6	-	2	-	10	10	800
	Bristol ...	16·4	-10	SE	2	z_0	33	75	27	6	-	2	-	0	10	-
	Portland Bill ...	14·8	+4	E	3	0	40	85	32	7	5	-	-	10	10	2500
	Plymouth ...	14·7	-14	E'S	3	rs	36	85	32	7	5	2	-	4-6	10	2500
	The Lizard ...	12·3	0	ESE	5	dd	43	97	43	5	5	-	-	10	10	800
	Scilly (St. Mary's)	11·6	-14	SW	4/d	50	97	50	8	5	7	-	7-8	10	1000	
	Guernsey ...															
6	Pembroke ...	12·9	-12	SE	7	rs	36	92	33	6	6	1	-	7-8	10	2000
7	Holyhead (Valley)	14·1	-14	SE	2	0	38	45	19	8	5	-	-	10	10	4000
	Chester (Sealand)	14·6	-14	SE	1	m	34	75	27	4	-	7	8	0	9+	-
8	Manchester ...	15·1	-14	ESE	1	z_0	35	65	25	5	3	3	2	1	9+	5700
10	Spurn Head ...	13·5	-4	NW	4	bc	34	85	31		7	4	1	2-3	4-6	1500
	Catterick ...	14·3	-10	NW	2	bc	37	65	25	8	-	-	6	0	4-6	-
	Tynemouth ...	14·5	-8	W	4	z_0	33	85	29	5	-	4	1	0	2-3	-
11	St. Abbs Head	12·9	-2	W	3	bc	36	85	32	7	2	4	-	2-3	4-6	3500
	Leuchars ...	12·8	-10	W	2	bc	33	85	28	7	5	4	8	1	4-6	7000
12	Renfrew (Abbots I.)	13·3	-10	NE'E	1	F+	29	92	28	1	-	-	-	10	10	<150
	Eskdalemuir ...	14·6	-4	-	0	bc	27	85	22	8	-	1	6	0	4-6	-
	Point of Ayre...	13·3	-14	S'W	3	c	40	65	29	8	5	7	-	4-6	9+	5000
13A	Tiree	11·6	-14	S'E	4	c	40	65	28	9	1	2	8	1	9	2500
13B	Stornoway ...	12·5	-10	-	0	c	34	97	34	7	8	7	-	7-8	9+	1500
15	Dalwhinnie ...	13·5	-2	NNW	1	c	27	85	23	8	8	4	9	2-3	9	4000
	Aberdeen ...	12·0	-4	W'N	2	z_0	34	75	27	6	8	5	-	Tr	Tr	2500
	Wick ...	11·6	0	WSW	1	bc	29	92	27	9	9	4	9	2-3	4-6	1500
16	Sumburgh	10·4	0	NNW	3	b-bc	35	85	31	8	8	4	-	2-3	2-3	3000
17	Blacksod Point	15·8	-6	S	4	r_0r_0	43	97	42	7	6	2	-	4-6	10	1500
18	Malin Head ...	10·1	-12	S	4	rs	36	92	42	7	-	2	-	10	10	2500
	Aldergrove ...	12·3	-12	S	1	s_0s_0	34	92	32	6	5	-	-	10	10	2500
19	Birr Castle ...	07·7	-18	SE	5	rr	36	92	34	7	5	-	-	10	10	1500
20	Valentia Obsy.	07·5	-6	NW	4	i_0	50	97	49	6	5	-	-	10	10	450
	Roches Point	07·5	-16	NW	3	DD	50	97	49	4	5	-	-	10	10	450

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

District	Stations.	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	14·3	-6	-	0	cf	32	75	26	3	-	-	8	0	9+	-	1	*
	Croydon ...	15·2	-6	S	1	c-bcf	32	97	32	3	-	4	6	0	7-8	-	3	*
	S. Farnborough	14·5	-8	-	0	z_0	32	85	28	6	-	2	7	0	10	-	1	*
	Boscombe Down	15·2	-4	SE'S	2	s_0s_0	31	97	30	5	-	2	-	10	10	6000	3	*
	Thorney Island	14·7	-6	-	0	m	34	75	29	4	-	2	-	0	10	-	1	*
	Lympne ...	14·5	0	NW	2	m	29	85	24	4	-	7	8	0	9+	-	3	*
	Manston ...	13·9	-2	NW'N	2	z_0	32	75	26	5	-	-	8	0	2-3	-	3	*
2	Shoeburyness ...	15·0	-2	NW	1	z_0	31	92	28	5	-	4	-	0	2-3	-	3	*
	Felixstowe ...	13·8	+2	WNW	3	z_0	31	85	30	6	-	7	8	0	4-6	-	3	2
	Gorleston ...	13·3	0	W'N	2	z_0	30	75	23	5	-	-	-	0	0	-	8	4
	Mildenhall ...	13·7	-4	W'S	2	m	29	85	26	4	-	7	2	0	9+	-	1	*
	Cranwell ...	13·7	0	W'S	2	m	31	92	29	4	-	1	2	0	9	-	3	*
3	Birmingham ...	13·4	-8	SSW	1	cf+	31	75	25	2	-	7	-	0	9+	-	4	*
	Upper Heyford	14·2	-2	SSW	1	z_0	31	85	26	5	-	1	-	0	9	-	3	*
4	Ross-on-Wye	13·4	-6	SW'S	2	is_0	32	92	30	6	-	2	-	10	10	1500	1	*
5	Hartland Point	08·4	-18	SE	4	c	36	97	35	8	5	2	-	7-8	10	2500	1	4
	Bristol ...	14·4	-6	SE	2	is_0	32	85	29	5	5	2	-	7-8	10	5200	3	*
	Portland Bill ...	13·3	-12	E	3	rr	38	85	33	7	5	-	-	10	10	2500	1	4
	Plymouth ...	12·0	-12	ESE	3	d_0d_0	37	97	37	6	6	2	-	4-6	10	500	1	2
	The Lizard ...	09·3	-10	SW'W	4	$d_0$pr	49	97	49	7	5	-	-	10	10	1000	1	4
	Scilly (St. Mary's)	09·0	-10	WSW	4	s/d	50	97	50	7	5	7	-	7-8	9	1000	1	3
	Guernsey ...																	
6	Pembroke ...	09·9	-6	SE	6	rr	39	97	38	6	6	2	-	7-8	10	1500	1	4
7	Holyhead (Valley)	11·2	-14	S'E	4	c	36	75	27	8	5	-	-	10	10	2400	1	2
	Chester (Sealand)	12·5	-8	-	0	c	33	65	25	4	-	1	-	0	10	-	4	*
8	Manchester ...	13·6	-8	ESE	2	m	33	65	24	4	5	-	-	7-8	7-8	4700	3	*
10	Spurn Head ...	13·3	0	NNW	4	b-bc	34	97	33	6	5	4	-	2-3	2-3	1500	0	4
	Catterick ...	13·3	-2	-	0	bcf	28	97	27	3	-	-	8	0	4-6	-	0	*
	Tynemouth ...	13·7	0	W	3	z_0	32	97	31	5	-	4	1	0	2-3	-	3	3
11	St. Abbs Head	11·6	-2	WNW	1	b-bc	35	92	32	7	5	-	-	2-3	2-3	2500	0	2
	Leuchars ...	12·2	+2	-	0	z_0	32	75	26	6	5	3	8	2-3	10	3400	3	*
12	Renfrew (Abbots I.)	12·1	-12	-	0	f-	29	97	28	2	-	-	-	10	10	<150	3	*
	Eskdalemuir ...	13·4	0	-	0	bc	25	85	21	7	-	1	6	0	4-6	-	4	*
	Point of Ayre...	11·1	-8	S'E	4	c	39	75	31	8	-	2	-	0	10	-	0	3
13A	Tiree	10·1	-6	SSE	4	c	39	75	33	8	2	1	-	7-8	10	2500	3	4
13B	Stornoway ...	12·2	+2	-	0	is_0	33	97	32	6	5	-	-	10	10	1800	7	1
15	Dalwhinnie ...	13·4	-2	-	0	0	24	85	21	7	5	-	-	10	10	2500	8	*
	Aberdeen ...	12·1	0	NW	1	b-bcf	31	92	29	3	8	-	-	2-3	2-3	4000	8	2
	Wick ...	12·1	+6	-	0	b	25	92	22	9	4	-	-	1	1	3000	8	*
16	Sumburgh	11·1	+6	NNW	3	b	35	75	29	8	2	6	-	1	1	3000	8	3
17	Blacksod Point	05·6	-2	W	2	bc	46	85	42	8	5	-	-	4-6	4-6	1500	2	3
18	Malin Head ...	07·9	-2	S	4	rs	35	92	33	6	-	2	-	10	10	800	2	3
	Aldergrove ...	10·4	-2	SE'S	2	rs	34	97	33	6	-	2	-	10	10	1000	6	*
19	Birr Castle ...	06·9	+4	SSE	2	c	37	97	36	7	6	2	-	7-8	10	800	1	*
20	Valentia Obsy.	08·5	+2	NW'W	3	c	48	75	41	8	5	-	-	9+	9+	2500	1	3
	Roches Point	06·7	+6	N	4	c/r	47	92	45	8	6	-	-	9	9	1500	1	4

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 4th (39)	13h.—18h. 4th (40)	18h.—1h. 4th/5th (41)	1h.—7h. 5th (42)
1	London (Kew)	bcfx	cfx ⊕	cffx	cfcs$_0$m$_0$
	Croydon ...	cfbcm	cmcf	cfbcfcfx	cfxcs$_0$s$_0$
	S. Farnborough	cm$_0$mm$_0$	cm$_0$	cbcm$_0$os$_0$mco	osmsf
	Boscombe Down	cm$_0$	cm$_0$os$_0$m	os$_0$ms$_0$sf	foir$_0$m
	Thorney Island	cm$_0$mm$_0$	cz$_0$zw	omss	omss d$_0$
	Lympne ...	bcm$_0$xcm$_0$	cm$_0$x	cm$_0$bcfx	fxcms$_0$s$_0$
	Manston ...	bcm$_0$cm$_0$	bcz$_0$	bcmfx	ofxbcms$_0$
2	Shoeburyness ...	bm$_0$bcm$_0$	bcm$_0$bcm$_0$	bcmcfs$_0$cf	cf
	Felixstowe ...	bm$_0$bcz$_0$	bcm$_0$	bm$_0$	cm$_0$cm
	Gorleston ...	bcz$_0$	bcbzx	bcps$_0$mx	cmofx
	Mildenhall ...	bm$_0$xcm$_0$	bcm$_0$cmx	bccmx	cmx
	Cranwell ...	bbcc	cm$_0$x	cmx	cmx
3	Birmingham ...	cm	cmf	fomS	ois$_0$f
	Upper Heyford	cmxcm$_0$	cz$_0$cm$_0$	cm$_0$s$_0$s$_0$m	os$_0$s$_0$mo
4	Ross-on-Wye	bcc	cops$_0$	s$_0$osss$_0$	is$_0$
5	Hartland Point	cs$_0$s$_0$o	cs$_0$ir$_0$c	cirr$_0$r$_0$	bcc
	Bristol ...	czcz$_0$	cz$_0$cmis$_0$	cm$_0$mofs$_0$s$_0$	ofmfs$_0$s$_0$
	Portland Bill ...	pp	orr	orr	o
	Plymouth ...	cm$_0$rs$_0$	crsd$_0$d$_0$	cr$_0$o$_0$d$_0$d$_0$	cid$_0$bcm$_0$c
	The Lizard ...	orrdd	drpr$_0$	orr$_0$o	cbbcc
	Scilly (St. Mary's)	d$_0$d$_0$id$_0$	cid$_0$	cidc	cf$_0$
	Guernsey ...				
6	Pembroke ...	s$_0$s$_0$rsrs	srrm$_0$q	rrcq	c
7	Holyhead (Valley)	cvyo	ojpyo	cis$_0$c	cis$_0$ir$_0$
	Chester (Sealand)	z$_0$yzc	cz$_0$cz	cm$_0$s$_0$s$_0$	cms$_0$s$_0$
8	Manchester ...	cffmx	cz$_0$	czmx	cs$_0$s$_0$m2
10	Spurn Head ...	bcz$_0$	bcm$_0$	cm$_0$	om$_0$f
	Catterick ...	bc	bc	bcxfm	bcmcfx
	Tynemouth ...	bcm$_0$	bcm$_0$	bcm$_0$bff	bbcff
11	St. Abbs Head	bbc	bcm$_0$bm$_0$	b	bc
	Leuchars ...	bccbc	bccm$_0$c	cm$_0$	cbbcm$_0$
12	Renfrew (Abbots I.)	ofx	cfxofx	ofx	cfxbcfx
	Eskdalemuir ...	bc	bccbc	bbc	bc
	Point of Ayre...	c	c	r$_0$r$_0$c	r$_0$r$_0$c
13A	Tiree	cyc	c	r$_0$r$_0$r$_0$srr	rrr$_0$s$_0$r$_0$
13B	Stornoway ...	cis$_0$m$_0$c	cps$_0$cis$_0$	bbccbc	c
15	Dalwhinnie ...	bcc	co		obcc
	Aberdeen ...	bcz$_0$	bccz$_0$bcf	bfzx	bmx
	Wick ...	cbcx	cbcv	bcpsbc	bcc
16	Sumburgh	bcbbc	bcb	bbc	bccprs$_0$
17	Blacksod Point	r	bc	r	r
18	Malin Head ...	rs	rs	rs	r
	Aldergrove ...	cxmis$_0$s$_0$s$_0$	crs$_0$r$_0$s$_0$	cr$_0$s$_0$m$_0$	r$_0$s$_0$rr$_0$s$_0$rc
19	Birr Castle ...	r	r		pr
20	Valentia Obsy.	d	r	pr	r
	Roches Point	d	r	bc	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 5th January 1943.

Districts.	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Light SE to S wind; very cloudy with occasional snow, drizzle in SW later; visibility poor or bad; cold but mild later.
5 S.W. England 6 South Wales	Moderate northwest to west wind; cloudy with occasional rain or showers; good visibility; mild but rather cold in east at first.
7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England	As 1-4
11 S.E. Scotland 12 S.W. Scotland & Isle of Man	Light South wind; fair, cloudy at first; occasional slight snow later; moderate visibility; cold.
	As 1 - 4
13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Moderate Southeast wind; fair, cloudy at first; some rain or sleet in west spreading slowly east as snow but thawing later except in 15; moderate visibility, poor later; cold becoming mild in west.
16 Orkneys and Shetlands	Light variable wind; fair with variable cloud; good visibility; cold.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Moderate southwest wind; occasional rain or showers; fair periods; good visibility; mild, rather cold at first.

GENERAL INFERENCE

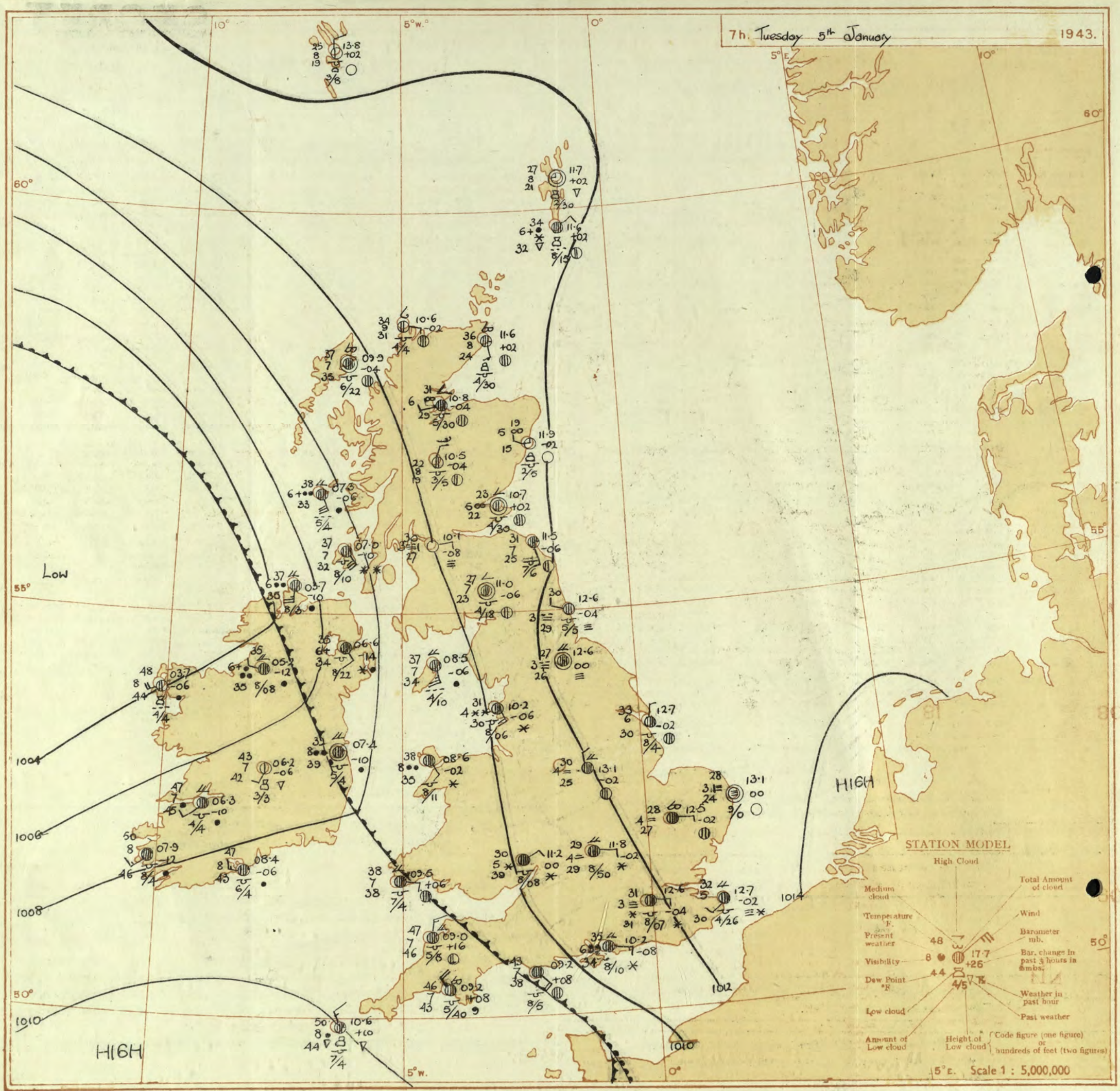
A trough from Northeast Ireland to Southwest Wales and Southwest England is moving slowly east; another trough further west will cross our western districts later. Over most of Great Britain weather will be poor with occasional snow turning to drizzle later, but fair periods will occur in Southwest England and in East and Northeast Scotland at first. It will be cold over most of the country, but milder conditions in the Southwest will spread to most districts except North east Scotland and extreme East of England in next 24 hours.

FURTHER OUTLOOK

Remaining dull and foggy over most of British Isles, but fair in Southwest; becoming milder.

Forecasts issued at 10·30.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, N.O., Dunstable

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

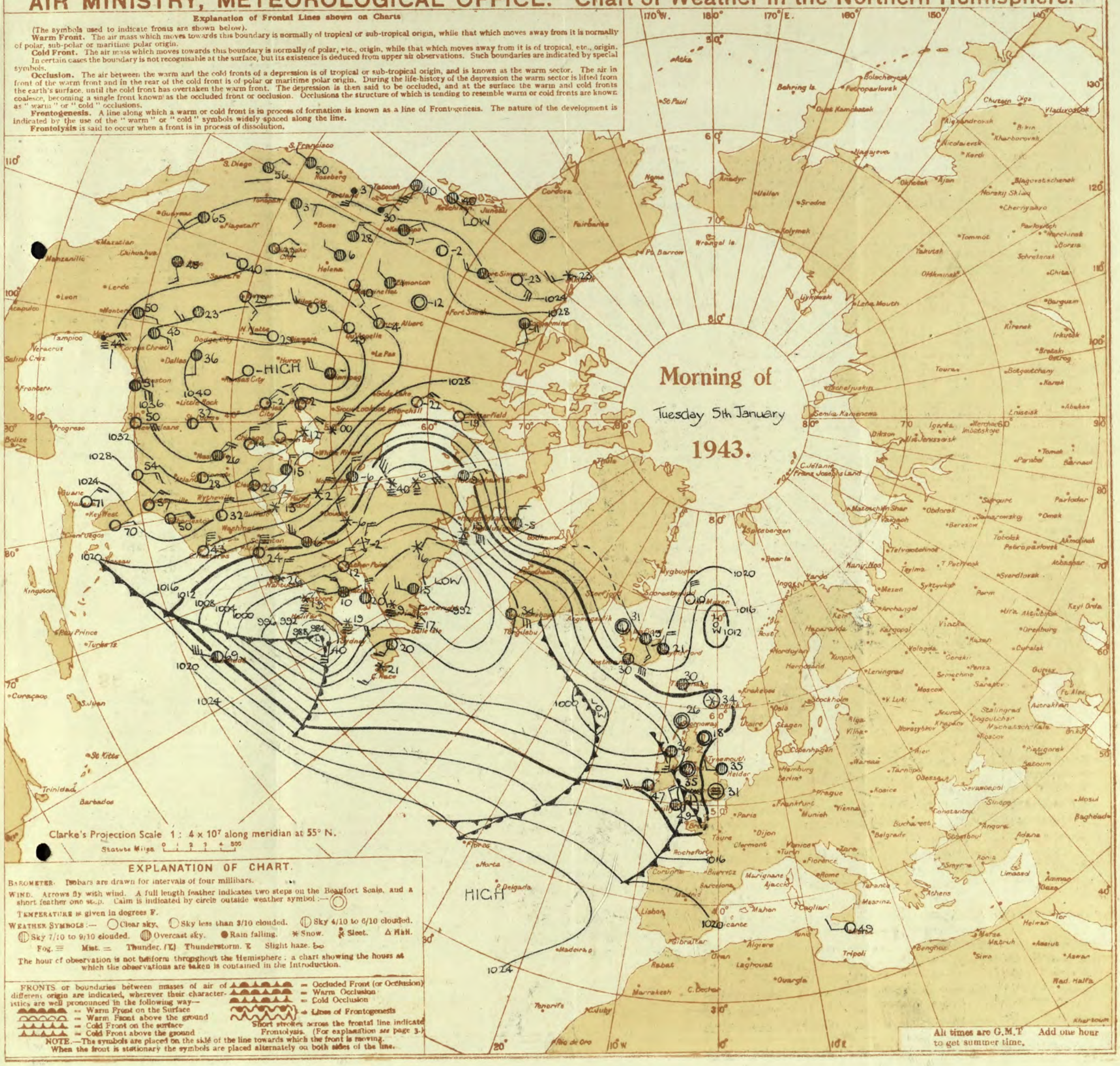
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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. Mist. Fog. = Mist. = Thunder. (T) 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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- = Warm Front on the Surface
- = Warm Front above the ground
- = Cold Front on the surface
- = Cold Front above the ground
- = Occluded Front (or Occlusion)
- = Warm Occlusion
- = Cold Occlusion
- = Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add one hour to get summer time.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Tuesday 5th January 1943

No. 29629

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*		32	*	*	*	*	*	*	*	*
	Croydon	290	14·2	-10	–	0	cf–	31	97	31	3	5	–	–	9+	9+	6000
	S. Farnborough	226	12·9	-2	ESE	1	ss	31	85	28	4	5	–	–	10	10	1500
	Boscombe Down	417	12·1	-22	E	4	sf	31	97	31	3	–	2	–	0	10	–
	Thorney Island	10	12·5	-14	E	2	ss	33	92	31	4	–	2	–	10	10	4000
	Lympne	283	13·6	-16	–	0	b-bcf	31	85	28	3	–	–	8	0	2-3	–
	Manston	154	13·3	-10	–	0	bcf	30	85	27	3	–	–	6	0	4-6	–
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	13·2	-10	NW	1	z_0	32	75	26	6	–	–	–	0	0	–
	Gorleston	5	13·1	-2	W'N	2	m	29	85	24	5	5	–	–	2-3	2-3	1500
	Mildenhall	15	13·1	-10	S'E	1	m	28	97	27	4	–	7	8	0	9	–
	Cranwell	203	12·7	-8	–	0	m	30	92	27	4	–	2	7	0	10	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	12·2	-16	–	0	s_0s_0	29	97	29	4	–	2	–	10	10	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	06·7	0	NW	3	bc	47	97	46	8	5	–	–	4-6	4-6	1500
	Bristol	209	10·9	-20	SE	2	sf	31	97	31	3	–	2	–	10	10	800
	Portland Bill	32	09·5	-20	E	5	rr	37	92	34	6		–	–	10	10	2500
	Plymouth	82	07·7	-14	SSE	3	id_0	44	97	44	5	5	–	–	10	10	600
	The Lizard	240	08·6	-4	NW'N	4	o/r	48	97	48	8	5	–	–	10	10	1000
	Scilly (St. Mary's)	163	09·4	+6	NW	4	c-bc	49	97	48	8	5	–	–	7-8	7-8	1200
	Guernsey	175															
6	Pembroke	142	07·5	+6	E	5	c	37	97	37	7	5	2	–	9+	10	1500
7	Holyhead (Valley)	32	09·3	-12	–	0	o/s	35	85	31	7	5	–	–	10	10	2400
	Chester (Sealand)	16	11·4	-10	SSE	2	o/s	32	85	28	4	5	–	–	10	10	5000
8	Manchester	235	12·6	-6	E	1	m	31	85	27	4	5	–	–	10	10	3200
10	Spurn Head	29	12·8	+6	W	2	c-bc	35	97	35	6	5	–	–	7-8	7-8	1500
	Catterick	175	12·7	-6	–	0	m/f	27	97	26	4	–	3	–	0	1	–
	Tynemouth	108	13·1	-4	W	2	bf	30	97	29	3	–	–	–	0	0	–
11	St. Abbs Head	280	11·8	0	–	0	b-bc	34	85	29	7	5	–	–	2-3	2-3	4000
	Leuchars	36	11·3	-6	–	0	z_0	28	92	27	5	5	2	–	4-6	4-6	3000
12	Renfrew (Abbots I.)	19	11·4	-6	–	0	ft	30	97	29	2	–	–	–	10	10	<150
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	09·2	-8	S'E	5	c	37	85	33	8	8	2	–	2-3	9+	1800
13A	Tiree	44	09·0	-6	SSE	6	rr	37	85	24	6	6	–	–	10	10	1500
13B	Stornoway	15	11·0	-6	–	0	bc	26	97	24	7	5	7	–	2-3	4-6	3500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	12·1	-2	–	0	z_0	28	85	25	6	5	–	–	Tr	Tr	4000
	Wick	114	11·7	-2	–	0	bc	21	92	17	9	8	–	–	4-6	4-6	2500
16	Sumburgh	19	11·3	0	SW	1	b-bc	35	75	30	8	2	3	–	2-3	2-3	3000
17	Blacksod Point	18	04·6	-10	WSW	3	rr	49	92	46	8	6	2	–	4-6	10	1500
18	Malin Head	84	05·7	-14	S'E	5	r_0r_0	36	92	34	6	–	2	–	10	10	1500
	Aldergrove	268	09·2	-6	S'E	3	rs	35	92	33	6	–	2	–	10	10	1100
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	09·2	-2	W'S	4	bc/r	49	85	45	8	5	–	–	4-6	4-6	1500
	Roches Point	22	09·1	+6	NW'W	3	c-bc	45	92	43	8	5	–	–	7-8	7-8	1500

OBSERVATIONS at 7 hr. G.M.T. 5th January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 4th Hrs. (38)
London (Kew)	11·4	-8	E	2	z_0	33	92	30	5	5	–	–	10	10	1500	7	*	35	31	25	–	0·1	0·4
Croydon	12·6	-4	E	1	is_0	31	97	31	3	5	–	–	10	10	700	4	*	35	30	22	–	Tr	0·5
S. Farnborough	11·0	-2	ENE	2	sf	30	97	30	3	5	–	–	10	10	100	7	*	38	30	27	–	1	2·5
Boscombe Down	10·9	-2	E'N	3	m/r	31	97	31	4	–	2	–	10	10	1000	8	*	34	30	31	–	Tr	0·3
Thorney Island	10·2	-8	E'S	3	d_0d_0	35	92	34	6	–	2	–	10	10	1000	6	*	36	31	31	Tr	6	*
Lympne	12·2	-2	ESE	2	c/s	33	85	28	5	5	2	–	10	10	1200	8	§4	33	28	20	–	0·4	2·3
Manston	12·7	-2	SW'S	2	c/s	32	92	30	5	5	2	–	4-6	10	2600	3	*	34	28	25	–	Tr	4·2
Shoeburyness	13·1	-6		0	sf	31			3	5	–	–	10	10	2500	3	*	35	28	23	–	Tr	3·7
Felixstowe	12·2	-6	NE	1	m	30	65	26	4	–	2	–	0	10	–	3	2	35	32	21	–	–	5·[illegible]
Gorleston	13·1	0	–	0	ft	28	85	24	3	–	–	–	10	10	<150	8	1	34	27	26	–	Tr	5·1
Mildenhall	12·5	-2	E	1	m	28	97	27	4	–	7	–	0	10	–	3	*	33	26	17	–	7	4·3
Cranwell	13·1	-2	NW	1	m	30	75	25	4	–	2	–	0	10	–	3	*	35	28	23	–	–	4·5
Birmingham	11·5	-2	ESE	2	is_0	29	92	27	3	6	–	–	10	10	800	7	*	33	28	28	–	2	0·0
Upper Heyford	11·8	-2	E	2	m	29	97	29	4	–	2	–	10	10	5000	8	*	36	28	27	–	1	*
Ross-on-Wye	11·2	0	NE	1	is_0	30	97	29	5	5	–	–	10	10	800	7	*	34	30	29	Tr	8	0·0
Hartland Point	09·0	+16	N	3	c	47	92	46	7	5	2	–	7-8	10	2500	1	4	40	36	34	3	2	0·0
Bristol	10·6	+8	SE	1	o/s	32	97	32	3	5	–	–	10	10	1500	7	*	34	30	28	–	7	0·3
Portland Bill	09·2	+8	SE	4	o	43	85	38	7	5	–	–	10	10	2500	1	5	43	34	*	0·4	–	*
Plymouth	09·2	+8	NW	3	c	46	92	43	7	5	7	–	7-8	10	4000	1	2	39	36	36	3	3	0·0
The Lizard	09·8	+12	NW	4	c-bc	48	75	41	7	8	6	–	7-8	7-8	1500	1	4	49	46	*	9	1	0·0
Scilly (St. Mary's)	10·6	+10	NW'W	3	pr	50	85	44	8	8	–	–	9+	9+	1500	1	4	50	47	*	0·4	1	0·0
Guernsey																							
Pembroke	09·5	+6	E	2	c	38	97	38	7	5	2	–	9+	10	1500	1	3	40	+	*	9	–	0·0
Holyhead (Valley)	08·6	-2	SE	1	r_0r_0	38	85	35	8	5	–	–	10	10	1100	1	3	38	31	30	–	Tr	*
Chester (Sealand)	10·7	-4	S	3	c-bc	31	85	29	5	5	–	–	7-8	7-8	1500	7	*	35	31	28	–	0·3	1·3
Manchester	12·0	-2	E'S	3	s_0s_0	31	92	28	4	5	2	–	7-8	10	1300	8	*	35	30	29	–	0·5	*
Spurn Head	12·7	-2	N'W	1	o	33	85	30	6	5	–	–	10	10	1500	0	2	35	33	*	–	–	6·0
Catterick	12·6	0	–	0	of	27	97	26	3	–	2	–	0	10	–	3	*	38	26	19	–	–	6·0
Tynemouth	12·6	-4	WNW	1	c-bcf	30	97	29	3	5	–	–	7-8	7-8	2500	3	3	33	28	26	–	–	*
St. Abbs Head	11·5	-6	S	2	c	31	75	29	7	5	–	–	9+	9+	4000	0	2	36	31	*	–	–	*
Leuchars	11·0	+2	–	0	z_0	23	92	22	5	5	1	–	4-6	4-6	3000	3	*	36	23	15	–	–	0·0
Renfrew (Abbots I.)	10·1	-8	E'N	2	bf–	30	85	27	3	–	–	–	0	0	–	3	*	30	28	26	–	–	0·0
Eskdalemuir	11·0	-6	–	0	c-bc	27	85	23	7	5	1	–	4-6	7-8	1800	4	*	28	22	19	–	–	1·7
Point of Ayre	08·5	-6	SSE	5	c	37	92	34	7	6	2	–	4-6	10	1000	1	4	41	35	*	–	0·1	0·1
Tiree	07·3	-6	SSE	6	r_0r_0	38	85	33	6	6	2	–	7-8	10	1500	1	5	40	36	33	–	2	0·0
Stornoway	09·9	-4	–	0	c	37	92	35	7	5	7	–	9	10	2200	7	1	35	25	22	2	Tr	0·0
Dalwhinnie	10·5	-4	NNE	1	bc	22	85	19	8	5	–	2	2-3	4-6	2500	8	*	28	20	15	–	–	0·0
Aberdeen †	11·9	-2	WNW	2	z_0	19	92	15	5	8	–	–	1	1	2500	8	1	36	18	16	–	–	5·3
Wick	11·6	+2	SSE	2	c	36	65	24	8	8	7	–	4-6	9	3000	8	*	33	18	13	–	0·1	x
Sumburgh	11·6	+2	NE	2	prs	34	92	32	6	9	–	–	10	10	1500	8	3	38	30	19	–	Tr	3·8
Blacksod Point	03·7	-6	WSW	4	bc	48	85	44	8	9	–	–	4-6	4-6	1500	2	3	47	45	*	9	12	*
Malin Head	03·7	-10	S	5	r_0r_0	37	92	35	6	–	2	–	10	10	800	2	4	38	34		3	3	0·0
Aldergrove	06·6	-14	SE'E	2	o/r	35	97	34	6	5	–	–	10	10	2200	1	*	36	33	32	2	4	0·0
Birr Castle	06·2	-6	SSW	2	b-bc	43	97	42	7	3	–	–	2-3	2-3	800	1	*	37	36	36	8	2	0·0
Valentia Obsy.	07·9	-12	SW	3	c	50	85	46	8	5	–	–	10	10	1500	1		52	45	39	6	0·3	0·0
Roches Point	08·4	-6	W	3	c	47	85	42	8	5	–	–	9	9	1500	1	3*	51	45	*	13	0·1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III C_L C_M (13h. G.M.T. 4th January)	wwVhN_h	DDFWN	C_L C_M (18h. G.M.T.)	wwVhN_h	DDFWN	C_L C_M (01h. G.M.T. 5th January)	wwVhN_h	DDFWN	C_L C_M (07h. G.M.T.)	wwVhN_h	DDFWN
109 34	01853	27283	3-	01752	22104	50	01753	00013	50	02754	00014
115 52	10844	20387				54	01954	08284	54	02944	08124
202 5-	72748	08378	5-	03848	03878				04	00990	08222
206 96	26746	24187	9-	26748	24188	8-	05655	26185	51	05665	24128
210 25	01853	22213	46	01943	13213	5-	02858	00028	5-	02867	00027
220 57	01853	13215	50	01654	14214				52	02445	14528
230 57	02861	10127	51	02763	00028	00	05690	00018	01	02790	18128
245 84	01852	22113	57	02863	22128	24	01861	00013	54	01761	00013
260 57	02773	28215	00	41490	16240	00	05590	02208	01	08490	02X26
278 57	17841	12327	52	02741	14328	02	02667	12357	5-	72648	45478
279 04	05590	06227	02	05590	06228	01	05690	30128	01	71690	09226
285			53	01754	32215						
288 00	05690	23204	00	05690	18114	00	08490	18214	02	08490	00025
575 62	72636	12278	52	68536	12278	02	62638	22168	02	64638	26168
301 00	47390	14147	02	43380	12148	5-	41468	12378	5-	72438	11478
321 03	08490	15124	07	45390	22144	01	45290	16148	--	42209	00049
[illegible] 80	23644	27474	00	05690	24200	50	05654	24214	5-	73748	24178
292 24	01751	27114	03	05590	00014	00	05690	00014	02	05690	00028
310			--	01624	26114						
614 07	05590	24127	07	08490	26126	02	71490	28128	02	72590	00078

III C_L C_M (13h. G.M.T. 4th January)	wwVhN_h	DDFWN	C_L C_M (18h. G.M.T.)	wwVhN_h	DDFWN	C_L C_M (01h. G.M.T. 5th January)	wwVhN_h	DDFWN	C_L C_M (07h. G.M.T.)	wwVhN_h	DDFWN
333 02	71868	16328	02	72658	13478	52	68646	10278	52	52646	00078
334 --	01644	30105	--	01546	28127						
340			07	08490	12125	02	05558	12328	5-	72458	14478
136 04	05690	25416	07	05590	24213	00	47390	20108	07	45390	21148
336 51	05656	04328	--	77209	12379				--	46209	12349
350 04	05590	25325	04	08490	20125	02	72468	18128	5-	08468	12128
368 02	23668	08278	62	77348	14478	02	57238	12378	02	02448	04278
370 01	05690	22227	02	05578	18128						
390 07	05590	28325	07	45390	24244	01	45390	00048	02	08490	00078
382			02	05590	00028	02	72490	12278	02	08458	00078
438 87	05664	30315	50	05654	28214	5-	70638	12378	62	68638	13478
430 07	05690	23125	02	05680	32128	02	72248	08278	02	62558	08368
409 52	61736	12568	52	62625	46668	5-	02767	27357	52	62747	32328

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C_L C_M = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 5th January
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	bccfx	cf ⊕	cffx,fsm$_0$
Croydon	cfbcm	cmcf	cfxcss$_0$
Greenwich	cmx	cfx	cfcs$_0$m$_0$
Camden Square	c	c	*
Kensington	bc	bc	*
Hampstead	bcx	bcxos	osf

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended [illegible] Max. [illegible] 0·9 22-[illegible]h 4th
Min. Time 0·2 3·5h 5th

Stations	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 % Yesterday	Humidity 9h % To-day
Kew	35	31	25	–	0·1	0·4	*	*
Croydon	35	30	22	–	Tr	0·5	*	*
Greenwich	34	30	24	–	Tr	0·4	75	87
Westminster	37	31	26	–	–		73	89
Regents Park	35	29	27	–	Tr		75	74
Camden Square	35	28	27	–	Tr	*	*	81
Kensington	36	31	26	–	Tr		78	80
Hampstead	35	29	24	–	Tr		*	98

SECRET

Wednesday, 6th January 1943.

No. 29630

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BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Med. (11)	High (12)	Amount Low 0–10 (13)	Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	12·2	0	SE'E	2	z_o	36	75	30	5	5	-	-	9+	9+	2500
	Croydon	12·7	+2	ESE	2	z_o	35	85	31	6	-	-	-	10	10	2500
	S. Farnborough	11·8	+2	ENE	2	z_o	34	85	29	5	-	-	-	10	10	1100
	Boscombe Down	11·9	+2	E'N	4	m	32	97	32	4	-	2	-	10	10	1200
	Thorney Island	11·1	+2	NE'E	2	o	36	92	33	7	5	-	-	10	10	2000
	Lympne	12·3	-2	SE	2	c	35	75	28	8	1	7	-	7-8	10	1800
	Manston	12·4	-4	SSE	2	c	36	85	32	7	5	9	-	Tr	9	1500
2	Shoeburyness	13·3	+6	SSE	4	z_o	37	75	29	6	3	2	-	7-8	9	4000
	Felixstowe	13·1	+2	W'S	1	m	39	65	29	4	5	7	-	4-6	7-8	4000
	Gorleston	13·2	-6	W'N	1	m	36	75	28	4	5	-	-	9+	9+	1800
	Mildenhall	12·6	-4	SE'S	1	m	33	85	28	4	-	7	-	0	9+	-
	Cranwell	12·3	+6	SE	1	m	33	75	26	4	5	2	-	4-6	10	3000
3	Birmingham	10·9	-4	SSE	2	$s_o s_o$	31	92	29	4	6	-	-	10	10	800
	Upper Heyford	12·0	-2	-	0	m	33	85	28	1	-	1	-	0	10	-
4	Ross-on-Wye	11·4	-6	W	1	sf	32	92	30	3	5	-	-	10	10	800
5	Hartland Point	09·6	-6	SSE	3	c	43	92	40	8	5	4	-	4-6	9+	2000
	Bristol	11·9	+2	SE	1	of-	33	97	33	3	5	-	-	10	10	500
	Portland Bill	10·4	+4	ENE	4	id_o	40	97	39	6	5	-	-	10	10	2500
	Plymouth	11·2	+6	NNW	1	z_o	44	92	42	6	5	7	6	2-3	9+	4000
	The Lizard	11·4	+6	WNW	4	c	50	92	48	8	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	11·2	+2	W'N	4	c	51	85	47	8	8	7	3	2-3	9+	1200
	Guernsey															
6	Pembroke	09·2	-8	SE'S	5	ir	44	97	43	8	6	1	-	4-6	10	2000
7	Holyhead (Valley)	07·4	-4	S'W	5	$r_o r_o$	42	97	41	6	6	2	-	4-6	10	800
	Chester (Sealand)	09·9	-6	SSE	3	sf	31	92	30	2	-	2	-	10	10	800
8	Manchester	11·4	-2	ESE	4	$s_o s_o$	31	92	30	4	-	2	-	10	10	1500
10	Spurn Head	12·5	0	-	0	z_o	35	75	27	5	7	5	-	4-6	9+	4000
	Catterick	12·1	-6	SSE	1	sf	30	92	28	1	-	-	-	10	10	<150
	Tynemouth	13·2	-6	S	3	cbcf	34	92	32	3	5	3	-	4-6	7-8	2500
11	St. Abbs Head	10·6	-8	SE	2	c	33	85	30	6	5	-	-	10	10	3500
	Leuchars	10·5	-8	-	0	z_o	30	92	28	6	5	7	-	2-3	10	3000
12	Renfrew (Abbots I.)	09·5	-6	E'S	2	of-	34	85	31	3	5	-	-	10	10	2000
	Eskdalemuir	10·0	-6	ESE	2	$s_o s_o$	30	85	25	6	5	-	-	10	10	2800
	Point of Ayre	07·4	-6	SSE	6	$r_o r_o$	38	97	38	6	6	2	-	7-8	10	600
13A	Tiree	06·8	-4	SE'E	5	z_o	38	75	30	6	-	7	-	0	10	-
13B	Stornoway	09·6	-2	ENE	3	c-bc	37	85	33	8	2	3	-	Tr	7-8	3200
15	Dalwhinnie	09·5	-4	SSE	3	bc	30	85	25	8	8	4	-	2-3	4-6	2500
	Aberdeen	11·3	-4	NW	1	cf	30	85	27	3	5	-	-	9+	9+	4000
	Wick	11·1	-2	S'E	3	bc	37	75	30	8	2	4	9	2-3	4-6	2500
16	Sumburgh	11·6	-4	NE	1	c/phr	34	85	31	9	8	6	8	2-3	9+	2000
17	Blacksod Point	03·3	-4	SW	1	c	49	92	47	8	5	-	-	10	10	1500
18	Malin Head	03·6	-6	SSE	4	c	40	92	38	8	8	2	-	7-8	10	1500
	Aldergrove	05·2	-4	SE	1	$d_o d_o$	41	97	39	5	5	-	-	10	10	1000
19	Birr Castle	04·7	-8	SW	2	c-bc	47	97	46	8	8	-	-	7-8	7-8	1500
20	Valentia Obsy.	06·3	-6	SW	4	c	53	92	51	7	5	-	-	9+	9+	1500
	Roches Point	06·7	-12	WSW	3	id	50	97	49	7	5	-	-	9+	9+	800

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Med. (26)	High (27)	Amount Low 0–10 (28)	Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	11·3	+10	SE'E	2	of+	35	85	30	3	5	-	-	10	10	1500	1	•
Croydon	13·9	+8	ESE	1	m	34	92	32	4	5	-	-	10	10	1400	1	•
S. Farnborough	12·9	+8	E'S	1	of+	34	92	31	3	5	-	-	10	10	1500	6	•
Boscombe Down	12·4	+2	E'S	3	z_o	33	97	32	5	5	-	-	10	10	1400	8	•
Thorney Island	12·7	+10	NE'E	1	z_o	30	92	33	6	-	4	-	0	2-3	-	4	•
Lympne	13·3	+6	ENE	1	z_o	34	85	30	5	5	-	-	10	10	1800	3	§
Manston	13·4	+12	SE'S	2	c	34	85	30	7	1	3	6	2-3	9	1500	1	•
Shoeburyness	14·1	+10	SSW	2	c-bc	35	85	30	6	-	-	8	0	7-8	-	3	•
Felixstowe	13·3	+10	SE	2	m	33	85	30	4	-	7	-	0	7-8	-	0	2
Gorleston	13·7	+2	-	0	m	34	85	29	4	8	-	-	9	9	1500	8	2
Mildenhall	13·2	+6	SE'E	2	m	31	92	29	4	-	7	2	0	9+	-	3	•
Cranwell	12·9	+6	-	0	m	30	92	29	4	-	1	-	0	9+	-	3	•
Birmingham	11·3	+2	SSE	2	sf	32	92	30	3	6	-	-	10	10	800	8	•
Upper Heyford	12·2	+2	SSE	1	sh	33	97	31	4	-	2	-	0	10	-	6	•
Ross-on-Wye	10·9	0	WSW	2	$r_o r_o$	34	97	33	4	-	2	-	10	10	600	6	•
Hartland Point	08·0	-8	WSW	3	$r_o r_o$	49	97	48	7	5	2	-	7-8	10	1500	1	3
Bristol	11·6	-2	ESE	3	rf	34	97	33	3	-	2	-	10	10	450	6	•
Portland Bill	11·4	+6	NE	3	o	44	85	39	7	5	-	-	10	10	2500	1	4
Plymouth	11·1	+2	ESE	3	ir_o	45	97	45	5	5	7	-	7-8	10	1500	1	3
The Lizard	10·4	-6	WSW	5	c	50	85	46	8	2	7	-	4-6	9+	1500	1	4
Scilly (St. Mary's)	09·8	-6	SW'W	4	c	51	85	47	8	5	7	-	4-6	9+	1500	1	4
Guernsey																	
Pembroke	07·0	-12	WSW	5	ir_o	50	97	50	7	8	1	-	4-6	10	1500	1	3
Holyhead (Valley)	06·1	-6	S'E	4	$r_o r_o$	43	97	42	5	6	2	-	10	10	800	1	3
Chester (Sealand)	09·1	-4	SSE	4	$r_o r_o$	33	97	32	4	-	2	-	10	10	1000	7	•
Manchester	10·1	-6	ESE	4	sf	33	85	30	3	-	2	-	10	10	1700	7	•
Spurn Head	13·1	+2	S'E	3	z_o	36	65	26	6	5	2	-	7-8	10	2500	0	3
Catterick	11·3	-4	SSE	3	sf	31	85	28	2	-	-	-	10	10	<150	4	•
Tynemouth	11·6	-2	S	4	m	34	97	30	4	5	-	-	10	10	2500	8	3
St. Abbs Head	10·3	+8	SE	3	c	33	97	33	5	5	-	-	10	10	2500	0	3
Leuchars	09·5	-6	E	2	is_o	35	75	27	6	-	2	-	10	10	5400	3	•
Renfrew (Abbots I.)	08·7	-2	E'N	2	is_o	34	85	29	4	5	2	-	9+	10	2500	3	•
Eskdalemuir	09·2	-2	NE'E	2	$s_o s_o$	29	85	26	6	5	-	-	10	10	1100	4	•
Point of Ayre	06·6	-2	SSE	6	$d_o d_o$	38	97	38	5	6	2	-	7-8	10	600	1	4
Tiree	06·8	+2	ESE	4	z_o	38	75	30	6	5	7	-	9	10	5700	1	4
Stornoway	09·6	0	ENE	4	b	34	75	29	8	5	-	-	Tr	Tr	3500	7	2
Dalwhinnie	10·9	-2	SE	3	c	30	85	26	7	5	-	-	10	10	2500	8	
Aberdeen	11·0	0	NW	2	of+	31	92	29	2	5	-	-	10	10	2500	8	1
Wick	11·2	+2	S	2	c-bc	37	65	27	8	5	7	-	4-6	7-8	3500	6	•
Sumburgh	12·6	+2	NE	3	b-bc	34	92	32	8	4	7	-	1	2-3	4000	7	
Blacksod Point	02·1	-6	SW	1	c	48	92	46	7	5	-	-	9+	9+	1500	2	2
Malin Head	03·5	+2	S'E	3	id_o	41	97	40	7	-	2	-	10	10	1500	2	3
Aldergrove	05·4	+4	SE'S	1	z_o	42	97	40	6	5	-	-	10	10	1000	1	•
Birr Castle	03·8	0	S	1	b-bc	45	97	44	8	5	-	-	2-3	2-3	2500	1	•
Valentia Obsy.	01·5	-3·4	S'E	5	iR	51	92	49	6	5	-	-	10	10	2500	1	3
Roches Point	04·9	-10	WSW	3	c/r	50	97	49	8	6	2	-	4-6	9	1500	1	4

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 5th (39)	13h.—18h. 5th (40)	18h. 5th to 1h. 6th (41)	1h.—7h. 6th (42)
London (Kew)	mjfcm	cmmf	cmoir.r.	crorrom.
Croydon	cm	cmcm	ofis.	cmrr
S. Farnborough	osfom	omcmidcmof	cfid.ms.rsm.	prrm.orrm.
Boscombe Down	oss.d.d.m	omcmis.	ororm orrm	orrm
Thorney Island	omdom.o	ocm.rm.	cmdd.orr	crrr.r.
Lympne	cm.c	com.	mbccm	om.shrs
Manston	cm.c	cvc	bcm.cm.	bcm.lm.
Shoeburyness	ccm	cm	cms.	cmrs
Felixstowe	cm	cz.bcm	bzbcz cz	czcm.
Gorleston	offc	cmx	cz.	c
Mildenhall	cmxofcm	cm	cm	cmS.S.
Cranwell	cmffcm	cmxbcm	cIS.m	cS.S.m
Birmingham	foism	ossf	fosos	orsrr
Upper Heyford	idfcm	cmshrm.	shfrsm	dodorrm
Ross-on-Wye	s.om	ofmrmr	mrmir	qrrr.
Hartland Point	cbcc	cr.r.	rrirc	rrirc
Bristol	osddf	oforr.m.	ofirr.r.	ofr.r.
Portland Bill	rr	oo	orr	orr
Plymouth	bccm	cirm.	cmoir.	crrmrm.
The Lizard	cprc	c	or.r.	rcbcc
Scilly (St. Mary's)	cp.c	c	crrir.	cbcp.
Guernsey				
Pembroke	cprcir	crrmir	crr	
Holyhead (Valley)	cr.r.r.s.	cdd.m.	cir. m.c	or.r.mb
Chester (Sealand)	ssmfa	osr.r.m	omr.r. id.	moir.rr
Manchester	cs.s.mx	cs.f.m	s.s.d.d.f	ffd.d.
Spurn Head	cm	cm	om.	oq
Catterick	ofxis.Fx	oss.Fx	os.s.f	os.s.sm.
Tynemouth	bcffps.	cffom	omis.	om.if
St. Abbs Head	cm.	cm.c	omos	oms.
Leuchars	bccm.	cm.ps.	s.m.cis.m	Is.r.s.m.
Renfrew (Abbots I.)	bfxbcfxofx	ofxcmisx	cm.is.	cms.s.fr.s.
Eskdalemuir	cos.m.	oss.	os.s.	os.om.
Point of Ayre	cr.r.	r.d.d.	d.d.	d.crr
Tiree	r.rs.m.cz.	cz.ccz.	cz.oz.om	oz.o
Stornoway	cbcc	bcb	bbc	cbc
Dalwhinnie	cbc	bco		op.s
Aberdeen	bcmcff	ofcf	cff ir.s.	cir.z.
Wick	cbc	bcc	ccr.r.	ccir.c
Sumburgh	cphr	c	cprsbc	bccpmrprs.c
Blacksod Point	c	b	r	d
Malin Head	r	c	r	r
Aldergrove	ir.r.r.dd.m	cmd dcm	bccm.cm	cr.r.m.
Birr Castle	r	bc	•	r
Valentia Obsy.	pr	r	pr	pr
Roches Point	r	bc	r	pr

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 6th January 1943.

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands	Fresh southeast wind, moderate locally; drizzle in Midlands, snow or sleet in east becoming drizzle later; some improvement in areas 1 and 4 later but fog developing; visibility poor or bad; cold or very cold but milder in west and south later.
5 S.W. England, 6 South Wales, 7 North Wales	Moderate southerly wind backing; scattered showers, considerable bright periods; good visibility, poor in places inland; mild.
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 southeast wind, some snow or sleet probably changing to drizzle later; poor or bad visibility; cold.
13A W. Scotland, 13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland	Moderate to fresh easterly wind mainly cloudy, occasional snow or rain in south and east; good visibility, moderate locally; cold.
16 Orkneys and Shetlands	As 13A - 15.
17 N.W. Ireland, 18 N.E. Ireland, 19 S.E. Ireland, 20 S.W. Ireland	Moderate easterly wind; cloudy with some rain in the North probably mainly fair in South; good visibility, moderate locally; rather cold.

GENERAL INFERENCE

Depression near Southwest Ireland moving southeast slowly, associated troughs over Wales and Western England moving east and slowing up. In Southwest England and most of Wales there will be occasional showers with considerable bright periods, but over the remainder of the country it will be dull with some snow becoming sleet or drizzle later; only small amounts of precipitation are likely in Scotland; it will be cold or very cold in most of the country but milder conditions in Southwest will spread northeast to all areas of South, Midlands, Wales and North Ireland.

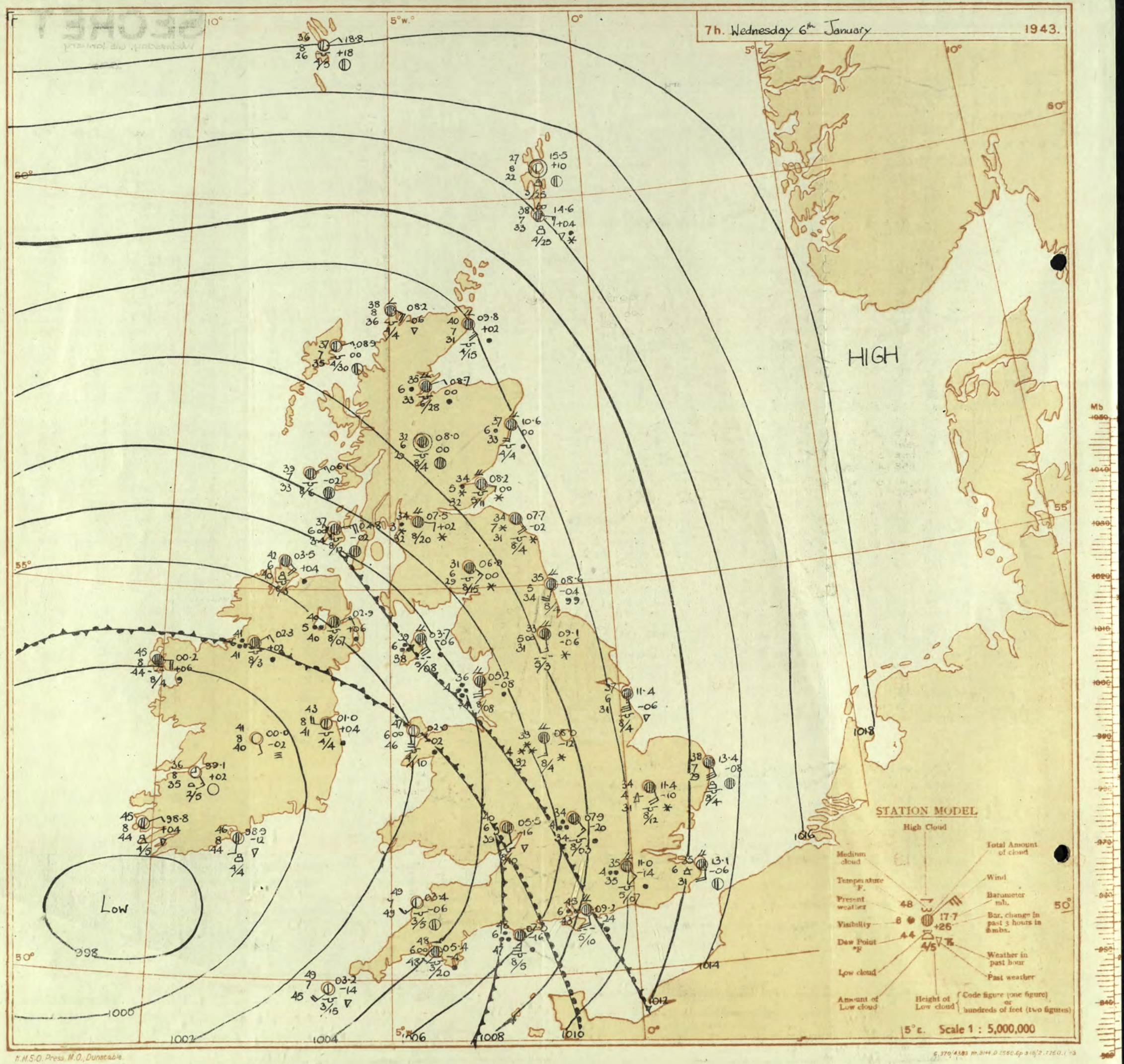
FURTHER OUTLOOK

Little change.

Forecasts issued at 10·30

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

Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

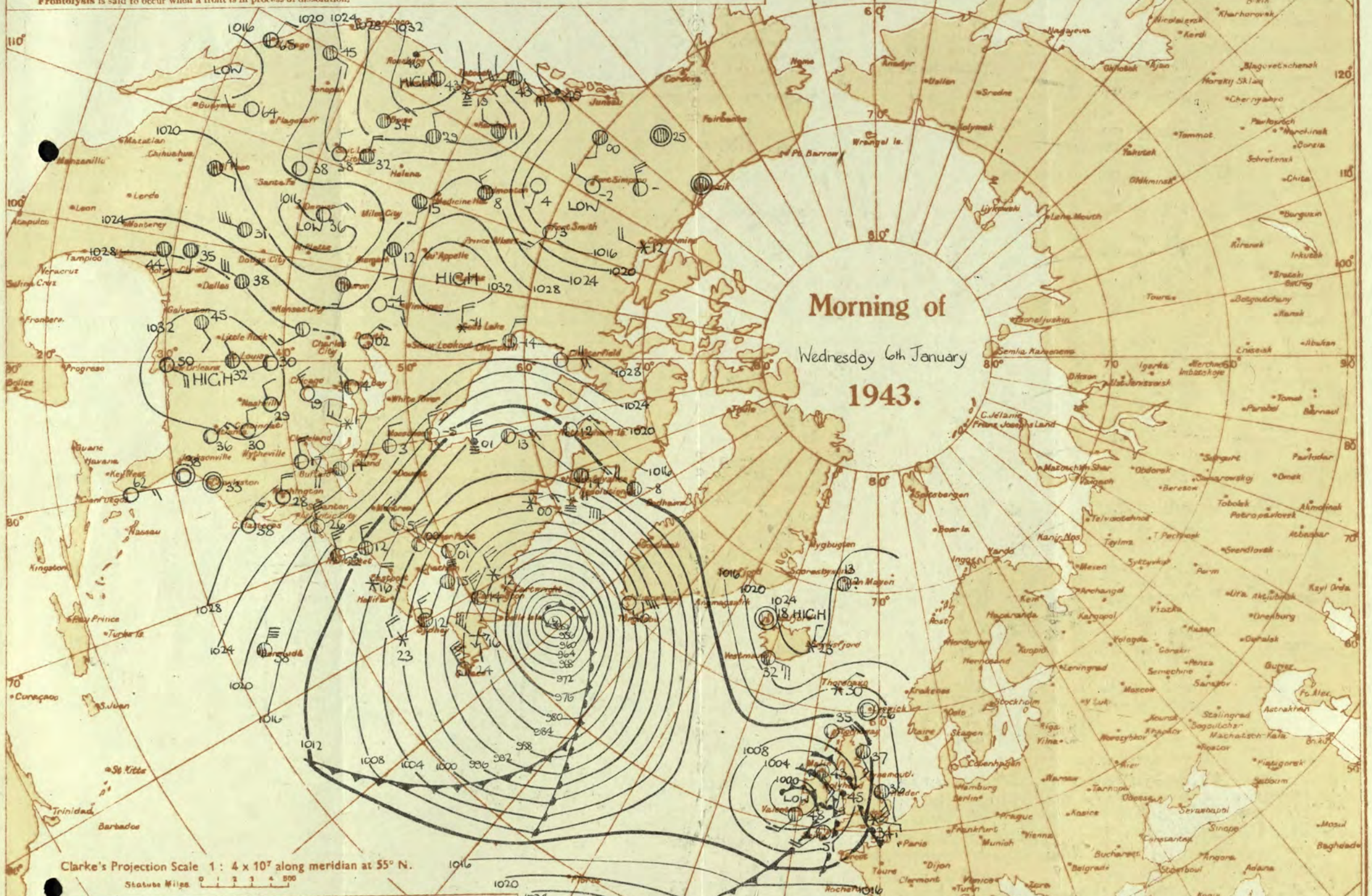
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Wednesday 6th January 1943

No. 29630

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	35	*	*	*	*	*	*	*	*	*
	Croydon ...	290	13·6	0	SE	1	s.s.	34	85	30	3	5	-	-	10	10	1600
	S. Farnborough	226	12·1	-8	SE'E	3	rr	33	92	32	5	5	-	-	10	10	3000
	Boscombe Down	417	11·2	-6	SE'E	4	rr	36	97	36	4	5	-	-	10	10	300
	Thorney Island	10	12·2	-2	SE'S	3	rr	39	92	38	4	5	-	-	10	10	2000
	Lympne ...	283	14·5	+2	SE'E	3	z.	34	85	30	6	5	2	-	9	10	1800
	Manston ...	154	14·6	-2	SSE	4	z.	34	85	31	6	5	-	-	9+	9+	1800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	14·3	+2	SSE	5	~	38	85	34	4	5	-	-	10	10	6300
	Gorleston ...	5	14·5	0	SSE	5	c	39	65	29	7	5	-	-	10	10	1500
	Mildenhall ...	15	13·3	-2	SSE	3	~	34	85	30	4	-	7	-	0	10	•
	Cranwell ...	203	11·8	-4	SE	4	is.	32	97	30	4	5	-	-	10	10	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	10·8	-8	SSE	2	d.d.	33	97	32	4	5	-	-	10	10	400
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	05·3	-18	SW	4	rr	48	97	47	6	6	2	-	9	10	800
	Bristol ...	209	09·4	-14	SE	2	rf	40	97	39	3	5	-	-	10	10	800
	Portland Bill ...	32	10·3	-8	S	3	rr	49	86	45	7	5	-	-	10	10	2500
	Plymouth ...	82	08·2	-16	SW	3	rr	49	97	49	5	5	2	-	7-8	10	1500
	The Lizard ...	240	07·2	-20	SW	6	r.r.	49	97	49	7	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	06·1	-14	SW'W	4	c-bc/r	51	97	50	7	5	-	-	7-8	7-8	1500
	Guernsey ...	175															
6	Pembroke ...	142	03·6	-20	S	5	rr	49	97	48	7	8	-	-	10	10	1500
7	Holyhead (Valley)	32	04·5	-10	S'E	3	r.r.	45	92	44	6	5	-	-	10	10	900
	Chester (Sealand)	16	06·9	-16	SE	3	c	35	65	25	5	-	2	-	10	10	900
8	Manchester ...	235	09·4	-2	ESE	4	c/d	35	92	32	3	5	-	-	10	10	800
10	Spurn Head ...	29	12·6	-4	S'E	5	z.	36	85	30	6	5	-	-	10	10	1500
	Catterick ...	175	10·6	-4	SE	3	sf	32	97	32	3	-	-	-	10	10	4150
	Tynemouth ...	108	11·6	-2	SSE	5	m/s	35	85	31	4	-	2	-	10	10	1500
11	St. Abbs Head	280	08·9	-2	SE	5	c	33	85	29	5	5	-	-	10	10	1500
	Leuchars ...	36	09·2	0	-	0	is.	34	92	31	4	5	2	-	7-8	10	3500
12	Renfrew (Abbots I.)	19	08·0	-6	E	2	is.	33	92	30	5	-	2	-	10	10	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	05·6	+6	SSE	6	d.d.	39	97	38	5	6	2	-	7-8	10	800
13A	Tiree	44	06·4	-2	E'S	3	z.	40	85	34	6	5	-	-	10	10	4000
13B	Stornoway ...	15	09·4	-4	E'S	4	b-bc	35	92	33	7	8	-	-	2-3	2-3	3000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	10·3	-2	S'E	3	id.	37	75	30	5	5	-	-	10	10	3000
	Wick ...	114	11·2	+2	ESE	4	r.r.	36	92	33	7	5	7	-	7-8	10	1200
16	Sumburgh ..	19	13·8	+6	SSE	3	b-bc	36	85	32	8	2	-	-	2-3	2-3	2500
17	Blacksod Point	18	00·0	-8	-	0	r.r.	44	92	42	8	6	2	-	4-6	10	2500
18	Malin Head ...	84	03·0	-6	SE	3	c/r	43	92	41	6	8	-	-	10	10	1500
	Aldergrove ...	268	03·6	-10	E'S	2	m	42	97	41	4	5	-	-	10	10	300
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	99·7	-10	S'W	3	bc	48	92	46	8	2	-	-	4-6	4-6	2500
	Rosches Point	22	01·6	0	WSW	3	b-bc	49	92	47	8	5	-	-	2-3	2-3	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
1	London (Kew)	09·9	-14	SE'E	3	r.r.	36	92	34	5	6	2	-	4-6	10	800	1	*
	Croydon ...	11·0	-14	SE'E	2	r.r.	35	97	35	4	5	2	-	7-8	10	700	1	*
	S. Farnborough	09·2	-16	SE	4	rr	36	97	35	6	5	-	-	10	10	300	6	*
	Boscombe Down	07·5	-16	SE	4	rr	43	97	43	4	5	-	-	10	10	300	6	*
	Thorney Island	09·2	-24	SSE	4	r.r.	45	92	43	6	6	2	-	7-8	10	1000	1	*
	Lympne ...	12·9	-4	SE	4	rs	33	97	32	4	-	2	-	10	10	800	6	§
	Manston ...	13·1	-6	S'E	4	sh	35	85	31	6	-	2	-	0	10	--	1	*
2	Shoeburyness ...	13·4	-12	SSE	3	s	35	85	32	4	-	2	-	10	10	800	3	*
	Felixstowe ...	13·2	-2	SSE	5	z.	37	75	30	5	5	-	-	10	10	2500	0	*
	Gorleston ...	13·4	-8	SE'S	6	c	38	75	29	7	8	-	-	10	10	1500	6	4
	Mildenhall ...	11·4	-10	SE'S	4	sh	34	92	31	4	5	-	-	10	10	1200	8	*
	Cranwell ...	09·7	-14	SE'S	4	sf	32	97	32	3	-	-	-	10	10	4150	8	*
3	Birmingham ...	06·6	-12	SSE	3	r.r.	34	97	33	4	6	-	-	10	10	800	6	*
	Upper Heyford	07·9	-20	SE'E	3	rr	34	97	34	4	5	-	-	10	10	300	4	*
4	Ross-on-Wye	05·5	-16	SSE	1	id.	40	97	39	6	5	-	-	10	10	1000	1	*
5	Hartland Point	03·4	-6	SW	3	b-bc	49	97	49	7	5	-	-	2-3	2-3	2500	1	4
	Bristol ...	08·3	-10	SSW	3	d.d.	48	97	48	4	5	-	-	10	10	800	2	*
	Portland Bill ...	07·0	-16	S	4	rr	48	97	47	6	5	-	-	10	10	2500	1	4
	Plymouth ...	05·4	-4	SW	2	z.	48	97	48	6	5	-	8	2-3	9	2000	1	3
	The Lizard ...	04·3	-24	WSW	5	c-bc	50	92	48	7	8	-	-	7-8	7-8	1500	1	4
	Scilly (St. Mary's)	03·2	-14	SW	4	b-bc	49	85	45	7	5	-	-	2-3	2-3	1500	1	4
	Guernsey ...																	
6	Pembroke ...																	
7	Holyhead (Valley)	02·0	-2	S'E	4	z.	47	92	46	6	5	-	-	4-6	4-6	1000	1	4
	Chester (Sealand)	05·4	-10	SE	2	r.r.	35	92	34	5	-	2	-	10	10	1000	3	*
8	Manchester ...	07·0	-12	E'N	5	rr	37	85	33	4	-	2	-	10	10	1000	1	*
10	Spurn Head ...	11·4	-6	SSE	7	o	39	75	31	6	5	-	-	10	10	1500	1	4
	Catterick ...	09·1	-6	SSE	3	z.	33	92	31	5	6	2	-	7-8	10	800	7	*
	Tynemouth ...	08·6	-4	S	5	c/d	35	97	34	5	-	2	-	10	10	1500	1	4
11	St. Abbs Head	07·7	-2	SE	5	is.	34	92	31	7	5	-	-	10	10	1500	4	4
	Leuchars ...	08·2	0	E	1	rs	34	92	32	5	5	2	-	7-8	10	1100	4	*
12	Renfrew (Abbots I.)	07·5	+2	E	2	rsf	34	92	32	3	-	2	-	10	10	2000	8	*
	Eskdalemuir ...	06·9	0	E'S	3	o	31	92	29	6	5	-	-	10	10	1500	8	*
	Point of Ayre...	03·7	-6	SE	6	rr	39	97	38	6	6	2	-	7-8	10	800	1	5
13A	Tiree	06·1	-2	NE'E	3	o	39	85	33	7	5	-	-	10	10	4000	1	2
13B	Stornoway ...	08·9	0	ENE	3	bc	37	92	35	7	5	-	-	4-6	4-6	3000	7	2
15	Dalwhinnie ...	08·0	0	--	0	o	32	85	29	6	5	-	-	10	10	1500	8	*
	Aberdeen † ...	10·6	0	S	4	ir.	37	85	33	6	5	2	-	4-6	10	1500	4	2
	Wick ...	09·8	+2	SE	5	c	40	65	31	7	5	2	-	4-6	10	1500	6	*
16	Sumburgh ..	14·6	+4	E	3	c/rs	38	85	33	7	2	2	-	4-6	9+	2500	6	3
17	Blacksod Point	00·2	+6	E	4	c	45	97	44	8	6	-	-	10	10	1500	2	3
18	Malin Head ...	03·5	+4	E'S	4	c	42	92	40	6	8	-	-	10	10	800	2	4
	Aldergrove ...	02·9	+6	ENE	3	r.r.	40	97	40	5	5	-	-	10	10	700	1	*
19	Birr Castle ...	00·0	-2	SSE	1	b	41	97	40	8	-	-	-	0	0	-	1	*
20	Valentia Obsy.	98·8	+4	ENE	1	bc	45	97	44	8	2	-	-	4-6	4-6	2500	1	1
	Rosches Point	98·8	-12	S	2	bc/pr	46	92	44	8	8	3	-	4-6	4-6	1500	1	4

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Temperature Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 5th Hrs. (38)
1	London (Kew)	37	34	32	-	5	0·0
	Croydon ...	35	34	32	0·1	4	0·0
	S. Farnborough	34	33		Tr	8	
	Boscombe Down	34	33	33	0·6	13	0·0
	Thorney Island	37	35	31	2	8	*
	Lympne ...	35	33	31	-	1	0·0
	Manston ...	37	33	31	-	Tr	0·4
2	Shoeburyness ...	38	29	29	-	0·6	0·0
	Felixstowe ...	39	33	31	-	-	0·[illegible]
	Gorleston ...	36	32	30	-	-	0·[illegible]
	Mildenhall ...	33	30	26	Tr	0·2	0·1
	Cranwell ...	33	31	30	-	3	0·0
3	Birmingham ...	32	32	32	3	11	0·0
	Upper Heyford	34	32	32	0·1	9	*
4	Ross-on-Wye	34	34	32	3	8	0·0
5	Hartland Point	49	47	46	-	7	0·6
	Bristol ...	34	34	33	1	18	0·0
	Portland Bill ...	44	41	*	1	6	*
	Plymouth ...	46	43	39	Tr	6	1·0
	The Lizard ...	50	48	*	1	3	0·1
	Scilly (St. Mary's)	53	49	*	0·2	2	2·0
	Guernsey ...						
6	Pembroke ...	50			5		
7	Holyhead (Valley)	44	47	42	7	7	*
	Chester (Sealand)	33	33	32	7	10	0·0
8	Manchester ...	33	33	32	2	4	*
10	Spurn Head ...	36	34	*	-	Tr	0·0
	Catterick ...	32	31	20	Tr	0·5	0·0
	Tynemouth ...	34	33	31	Tr	Tr	*
11	St. Abbs Head	34	32	*	-	Tr	*
	Leuchars ...	35	33	32	-	0·5	0·0
12	Renfrew (Abbots I.)	34	32	31	0·2	1	0·0
	Eskdalemuir ...	32	29	29	Tr	0·5	0·0
	Point of Ayre...	38	38	*	3	3	0·0
13A	Tiree	38	38	36	0·2	-	0·0
13B	Stornoway ...	39	32	24	-	-	3·0
15	Dalwhinnie ...	31	29	27	-	Tr	3·1
	Aberdeen † ...	31	30	29	-	2	0·0
	Wick ...	39	34	32	-	3	*
16	Sumburgh ..	37	32	28	Tr	2	0·0
17	Blacksod Point	49	42	*	0·2	3	0·4
18	Malin Head ...	41	40		0·5	0·5	0·0
	Aldergrove ...	42	40	36	1	0·5	0·0
19	Birr Castle ...	49	38	33	6	2	
20	Valentia Obsy.	53	44	40	6	2	0·1
	Rosches Point	50	46	*	4	4	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 5th January				18h. G.M.T.				01h. G.M.T. 6th January				07h. G.M.T.			
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN	
109				87	02664	11325		9-	61658	09388		62	52664	09268	
115	24	02954	12125	54	02954	08325		52	81744	08587		51	02844	08587	
203	70	02945	12425	50	00552	12312		50	01953	08303		50	00353	08303	
206	30	01890	00013	03	05630	08125		5-	05665	08325		52	61656	06168	
210	23	01861	12124	53	02765	11217		5-	02757	10327		5-	02748	10328	
220	52	02854	14368	52	02653	12118						50	01762	00003	
230	57	02866	10227	57	02765	00028		5-	05658	00028		5-	05768	14128	
245	25	05662	25115	57	85555	16388		5-	62658	13388					
260	57	08474	14246	5-	41468	08148		5-	45368	07178		02	08458	08178	
278	62	52536	10478	5-	68518	05558		--	05638	10458		5-	22638	09468	
279	62	72544	11710	5-	05568	05178		5-	05568	06328					
285	02	72529	10378												
288	07	08490	00028	02	87490	14378		02	71558	14528		5-	23648	13478	
575	52	05637	00068	--	48209	00053		50	05644	10154		5-	64638	06368	
301	62	72339	14478	62	71337	14578		02	51438	12568		02	66438	1--68	
371	5-	41468	15148					5-	77348	15478		5-	72348	15378	
2.2	8-	05656	16116	5-	05548	20328		5-	02748	18528		8-	05648	18628	
292	--	46309	00049	--	46309	12279		02	72438	11378		02	72438	11378	
310	--	22428	16278	--	77209	12479						--	77203	20479	
614				02	72458	14178		02	52458	14278		02	64358	14378	

13h. G.M.T. 5th January				18h. G.M.T.				01h. G.M.T. 6th January				07h. G.M.T.			
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN	
333	62	52628	14358	62	58535	17468		5-	64538	16468		5-	05656	16366	
334	--	54537	28258	--	54537	28258						--	03647	28128	
340	02	77338	14478	02	77338	14478		02	22548	14468		02	62548	14368	
136	5-	05597	16127	51	08464	15127		5-	08468	15228		5-	71568	15378	
336												--	46308	12349	
350	5-	08467	10287	02	71590	14128		02	72448	14378		02	64458	14368	
368	02	02338	04128	02	67328	08368		02	67128	00068		80	08454	00068	
379	02	45338	12278	02	77238	14378		02	67228	16358		02	45338	16468	
390	04	41590	00046	07	49390	10148		5-	7-348	13348		5-	68348	18278	
382	02	08548	12228	5-	08448	13178		02	62438	14368		02	63528	14468	
438	5-	03738	08328	5-	03738	08328		62	68638	14478		5-	64638	14368	
430	5-	05648	06228	5-	05648	04128		5-	62548	08368		5-	62548	10368	
409	57	62636	15368	52	02745	22468		02	62638	15968		50	01853	21223	

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 6th January
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution, Milligrams of solid impurity per cubic metre. Kew 24 hours ended Max.	Min.	Time
Kew ...	mofcm.	cmomf	cmirr.	0·5	<0·1	8-9h 5th; 2-6h 6th
Croydon ...	cmo	cmocm	ofiscrr			
Greenwich ...	c	cbc	bccrr			
Camden Square	o	c	*			
Kensington ...	ozc	oco	*			
Hampstead						

Stations.	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 % Yesterday	Humidity 9h % To-day
Kew ...	37	34	32	-	5	0·0	*	*
Croydon ...	35	34	32	0·1	4	0·0	*	*
Greenwich ...	37	33	27	-	6	0·0	78	95
Westminster ...	38	35	30	7			81	93
Regents Park ...	37	34	32	-	8		75	95
Camden Square	35	35	30	-	7	*	*	94
Kensington ...	37	34	32	-	7		91	94
Hampstead ...							*	

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SECRET

Thursday, 7th January 1943.

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

No 29631

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	07·3	-16	SE'E	2	o/r	41	92	40	5	5	-	-	10	10	1500
	Croydon	08·9	-12	SSE	3	id	40	97	40	6	5	2	-	9+	10	800
	S. Farnborough	06·5	-20	SE	3	dd	44	97	43	5	5	-	-	10	10	300
	Boscombe Down	05·9	-8	SE'S	2	z	48	97	48	6	5	-	6	7-8	9	800
	Thorney Island	07·2	-20	S	3	rr	46	97	46	6	-	2	-	10	10	800
	Lympne	10·1	-20	SE	4	rr	36	92	33	4	5	-	-	10	10	<150
	Manston	10·7	-14	SSE	4	rr	35	97	34	6	6	2	-	9+	10	1000
2	Shoeburyness	10·9	-16	S	5	rr	37	92	40	5	5	-	-	10	10	1500
	Felixstowe	11·4	-16	SE	6	rs	36	92	34	5	-	2	-	10	10	900
	Gorleston	12·6	+8	SE'S	7	cq	38	75	31	5	5	-	-	10	10	1500
	Mildenhall	09·0	-18	SE	5	dd	34	97	33	5	5	-	-	10	10	800
	Cranwell	08·4	-2	SE	5	rr	33	97	32	4	-	2	-	10	10	1000
3	Birmingham	06·2	-10	SE	2	rf	36	97	35	2	6	-	-	10	10	450
	Upper Heyford	06·1	-14	ESE	3	dd	38	92	36	4	-	2	-	10	10	1100
4	Ross-on-Wye	04·9	-6	ENE	1	off	43	97	42	3	5	-	-	10	10	500
5	Hartland Point	02·3	-12	S	3	bc	50	85	46	8	2	4	-	2-3	4-6	2000
	Bristol	04·8	-10	SSE	2	c	50	85	45	7	5	4	6	1	9+	1500
	Portland Bill	06·4	-12	SW	3	rr	50	92	48	7	5	-	-	10	10	2500
	Plymouth	03·4	-18	SSW	2	pr	51	92	49	7	3	7	3	7-8	9	1500
	The Lizard	01·8	-22	WSW	5	c-bc	51	85	47	8	2	6	-	7-8	7-8	1500
	Scilly (St. Mary's)	00·3	-12	SW'W	5	bcjp	52	75	46	7	8	6	-	2-3	4-6	1200
	Guernsey															
6	Pembroke	01·8	-8	SE	4	ir	49	92	48	7	8	7	-	4-6	7-8	2500
7	Holyhead (Valley)	03·4	+4	S'E	4	bc	47	85	44	7	8	7	1	2-3	4-6	2000
	Chester (Sealand)	05·3	-2	SSE	1	m	37	92	35	4	-	2	-	10	10	1500
8	Manchester	06·5	-2	SE	2	z	37	92	35	6	5	-	-	10	10	1000
10	Spurn Head	09·1	-16	SE	7	oq	34	97	34	5	5	-	-	10	10	1500
	Catterick	09·0	-4	SE	3	ss	33	97	33	4	-	2	-	10	10	500
	Tynemouth	09·7	+2	SSE	6	c/rs	35	97	34	6	-	2	-	10	10	1800
11	St. Abbs Head	08·9	+4	ESE	4	rs	34	97	34	6	5	-	-	10	10	1500
	Leuchars	09·4	+2	E	3	z	37	85	32	6	5	2	-	4-6	10	1500
12	Renfrew (Abbots I.)	07·7	+2	NE'E	2	c/rs	35	92	33	5	6	2	-	7-8	10	800
	Eskdalemuir	07·7	0	ENE	2	ss	32	92	29	6	5	-	-	10	10	1100
	Point of Ayre	04·7	0	SE'S	5	dd	40	97	37	6	6	2	-	7-8	10	800
13A	Tiree	07·2	0	NE	2	c	38	85	36	6	5	3	-	4-6	9+	5000
13B	Stornoway	10·4	+6	E	6	c-bc	39	85	33	7	8	-	-	7-8	7-8	2800
15	Dalwhinnie	09·0	+4	SSE	2	c	35	75	29	7	5	-	-	9+	9+	1500
	Aberdeen	12·1	+6	SSE	3	rr	39	92	36	6	5	2	-	7-8	10	1500
	Wick	13·0	+6	SE	5	c	40	85	35	8	5	7	-	4-6	9+	1000
16	Sumburgh	16·5	+6	E	4	c-bc	39	75	32	9	2	3	-	2-3	7-8	2500
17	Blacksod Point	05·1	+18	ENE	4	o/r	45	92	43	8	6	-	-	10	10	1500
18	Malin Head	05·7	+10	E	3	c	42	85	38	6	8	2	-	7-8	10	1500
	Aldergrove	04·7	+6	ENE	4	rr	39	92	37	5	5	-	-	10	10	500
19	Birr Castle	02·4	+6	NE	1	c	42	97	41	7	5	-	-	10	10	1500
20	Valentia Obsy.	02·6	+10	-	0	rr	48	92	46	8	5	-	-	9+	9+	1500
	Roches Point	01·0	+14	NNE	3	bc	49	85	45	8	3	-	3	2-3	4-6	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	06·2	-2	SE'S	3	rr	42	92	40	5	6	2	-	7-8	10	1500	1	*
Croydon	07·4	-2	SE	3	rr	41	97	41	4	6	2	-	7-8	10	500	1	*
S. Farnborough	05·6	0	ESE	3	rr	43	97	43	3	5	-	-	10	10	300	2	*
Boscombe Down	05·4	+4	ESE	3	c	42	92	40	7	8	7	3	4-6	4-6	2000	1	*
Thorney Island	05·9	+2	S'E	3	c/r	46	92	45	6	5	7	-	4-6	9+	2500	1	*
Lympne	08·7	-4	SSE	4	rr	37	97	37	4	5	-	-	10	10	100	1	5
Manston	08·8	-6	SSE	4	dd	35	92	35	4	-	2	-	10	10	200	1	*
Shoeburyness	09·2	-6	SE	4	rr	38	92	36	4	5	-	-	10	10	1500	1	*
Felixstowe	09·3	-18	SE	6	dd	38	92	36	4	-	2	-	10	10	1000	1	3
Gorleston	10·1	-8	SE'E	6	rr	37	92	34	6	6	-	-	10	10	800	1	5
Mildenhall	07·9	-2	SE'S	5	rR	35	97	35	4	-	2	-	10	10	500	6	*
Cranwell	07·9	0	ESE	3	dd	34	97	33	4	-	2	-	10	10	600	6	*
Birmingham	06·6	+2	ENE	2	F+	37	97	37	0	-	-	-	10	10	<150	1	*
Upper Heyford	05·2	0	ESE	2	F+	40	97	40	1	-	-	-	10	10	<150	1	*
Ross-on-Wye	04·7	0	ENE	2	cf	42	97	40	3	5	-	-	10	10	300	1	*
Hartland Point	01·3	+2	SE	3	bc	51	97	50	8	3	6	-	1	4-6	2000	1	4
Bristol	04·5	-2	-	0	z	44	97	43	6	5	3	-	2-3	2-3	1500	2	*
Portland Bill	04·8	-12	S	2	c-bc	48	92	46	8	5	-	-	7-8	7-8	4000	1	4
Plymouth	02·0	-2	S'W	3	z	48	92	46	6	3	-	3	4-6	4-6	2000	1	2
The Lizard	99·6	-6	W'S	5	c-bc/pr	49	92	48	8	8	-	-	7-8	7-8	1000	1	4
Scilly (St. Mary's)	00·7	+30	NW	5	cjp	49	85	46	7	8	6	-	7-8	9+	1200	1	5
Guernsey																	
Pembroke	02·1	+8	E'N	4	bc	46	97	45	7	8	-	-	4-6	4-6	2500	1	3
Holyhead (Valley)	04·5	+10	-	0	b	42	92	40	6	5	-	-	Tr	Tr	3000	1	1
Chester (Sealand)	06·2	+8	SE'S	1	df	36	97	35	3	-	2	-	10	10	600	1	*
Manchester	07·0	+6	SE"	2	m	35	97	34	4	5	-	-	10	10	1400	1	*
Spurn Head	08·9	-2	SE	7	rs	37	92	36	5	5	-	-	10	10	1500	1	6
Catterick	09·8	+8	SE	3	rs	33	97	33	3	-	2	-	10	10	400	8	*
Tynemouth	10·1	+6	SSE	6	is	37	92	35	6	6	-	-	10	10	1500	1	4
St. Abbs Head	09·5	+4	SE	5	rr	37	92	35	6	5	2	-	7-8	10	1500	1	4
Leuchars	11·0	+12	ESE	5	rr	37	92	36	6	6	2	-	9	10	1200	1	*
Renfrew (Abbots I.)	09·2	+12	ENE	3	z	36	75	31	5	6	2	-	7-8	10	800	6	*
Eskdalemuir	09·0	+10	ENE	3	ss	32	97	31	6	5	-	-	10	10	1100	8	*
Point of Ayre	06·2	+12	ESE	4	z	41	92	39	6	6	2	-	7-8	10	1000	1	4
Tiree	08·7	+12	N'E	2	z	39	92	36	6	5	7	-	7-8	10	3000	0	1
Stornoway	12·5	+10	ENE	5	c	41	75	35	7	5	-	-	9+	9+	1800	4	3
Dalwhinnie	10·4	+4	SE	4	o	35	85	30	6	5	-	-	10	10	1500	7	*
Aberdeen	13·8	+10	SE'S	4	s/r	39	85	35	6	5	2	-	4-6	10	1500	1	4
Wick	14·5	+6	SSE	5	c-bc	40	75	34	7	5	7	-	4-6	7-8	1500	6	*
Sumburgh	17·9	+10	ESE	4	c-bc/pr	39	75	32	8	8	-	-	7-8	7-8	2500	6	3
Blacksod Point	08·2	+24	NE'N	5	c	45	85	41	7	5	-	-	10	10	1500	2	4
Malin Head	07·6	+16	NE	3	c	42	92	40	6	8	2	-	7-8	10	800	2	3
Aldergrove	06·6	+14	NE'E	4	z	39	92	37	5	5	-	-	10	10	600	1	*
Birr Castle	05·2	-20	NNE	2	f	41	92	39	3	-	-	-	10	10	<150	1	*
Valentia Obsy.	07·0	+36	NW	3	b-bc	45	92	43	8	8	-	-	2-3	2-3	1500	1	2
Roches Point	04·6	+26	N	4	b	46	85	42	8	5	-	-	1	1	1500	1	4

PAST 24 HOURS. — WEATHER

Stations	7h.–13h. 6th (39)	13h.–18h. 6th (40)	18h 6th to 1h. 7th (41)	1h.–7h. 7th (42)
London (Kew)	rrcm	cidrr	crrrc	crrm
Croydon	rrm	cmidcdd	cmirce	cfrr
S. Farnborough	cmomdd	omdrmf	oirfemofr	ofrrof
Boscombe Down	oddmcm	cprmc	cbcoFcrrm	crrm
Thorney Island	cmrrrr	rrcm	bccprbc	bcrcm
Lympne	orscmr	omrFmr	omrrr	omirid
Manston	crrsh	comdr	oddrrm	omrdrdf
Shoeburyness	rrm	crmcrm	crrcmf	cf
Felixstowe	isssrs	crsmddm	crrmcrrf	cirm m
Gorleston	cqz	orr	prrz	prr
Mildenhall	cmsscmrr	cddmorrm	orrmosrm	orrm
Cranwell	ossrrm	cirrddm	orsf	crsf
Birmingham	orr	orFF	Fefe	Fefe
Upper Heyford	crid	of	oFrrf	rrfof
Ross-on-Wye	dpmm	off	ofefd	off
Hartland Point	bccbc	bccpr	bcc	c
Bristol	oddmcm	cpr,bm	cprcirmF	oFddofe
Portland Bill	orr	cpr	cbc	co
Plymouth	bccpr	cprbc	cprbmbc	bcbmcm
The Lizard	bcprc	cprc	prbcw	bcc
Scilly (St. Mary's)	cpbc	bcpqc	cp	cpc
Guernsey				
Pembroke	bcprcir	cprbc	c	cbcc
Holyhead (Valley)	bccmc	bc	cm	b,cirm
Chester (Sealand)	mrrm	omd	odffc	cmo
Manchester	rrdd	cmcm	bmcf	cfffm
Spurn Head	s	omrsrs	ors	ors
Catterick	ossfosm	somdrsf	odmdf	oddf
Tynemouth	oirs	oirs	oirs	oirsrr
St. Abbs Head	omcmmrso	omrsrr	omrro	orrcrrc
Leuchars	rsidmc	cmidrrr	crrm	rphcm
Renfrew (Abbots I.)	cfrscm	cmsscm	bcmcm	bcmircm
Eskdalemuir	oss	ssos	sisO	oirm
Point of Ayre	rr	ddcz	czdd	dd
Tiree	ccm	cm	czrrir	orrir
Stornoway	bcc	c	bbc	bbcb
Dalwhinnie	cpsc	cpso		oirs
Aberdeen	crrcR	errrrcm	cirm	cprbc
Wick	c	circ	bc	bbccpr
Sumburgh	cprbc	cpr	cprbc	bcc
Blacksod Point	r	c	b	bc
Malin Head	d	c	r	r
Aldergrove	r	rrrrm	idrrcm	cidrrm
Birr Castle	bc	bc		f
Valentia Obsy.	pr	r	pr	r
Roches Point	pr	bc	pr	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 7th January

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Moderate east to northeast winds; cloudy with rain, sleet or snow at times; poor visibility with fairly general mist and fog, but improving slowly to-morrow: cold.
5 S.W. England; 6 South Wales	Variable light winds; cloudy; moderate or good visibility, but poor in industrial areas; cold.
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 easterly winds; cloudy with some rain, sleet or snow at first; cloudy later, with a few snow showers in east; moderate or poor visibility, improving slowly: cold.
13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Moderate easterly winds; cloudy or partly cloudy with a few snow showers, especially in north and east; mainly good visibility: cold.
16 Orkneys and Shetlands	As 13A - 15.
17 N. W. Ireland; 18 N. E. Ireland	Light or moderate easterly winds; cloud; rain at first, moderate or poor visibility: cold.
19 S. E. Ireland; 20 S. W. Ireland	Variable light winds; cloudy; moderate or good visibility but poor locally inland: cold.

GENERAL INFERENCE

A shallow depression over the English Channel is moving east and filling up, and an anticyclone near Jan Mayen is moving southeast. There will be wintry showers in Scotland; rain, sleet or snow in Northern Ireland and North England will become less widespread; weather will be cloudy in the Southwest, but there will be occasional rain, sleet or snow over the rest of England with much cloud and poor visibility. It will be cold generally.

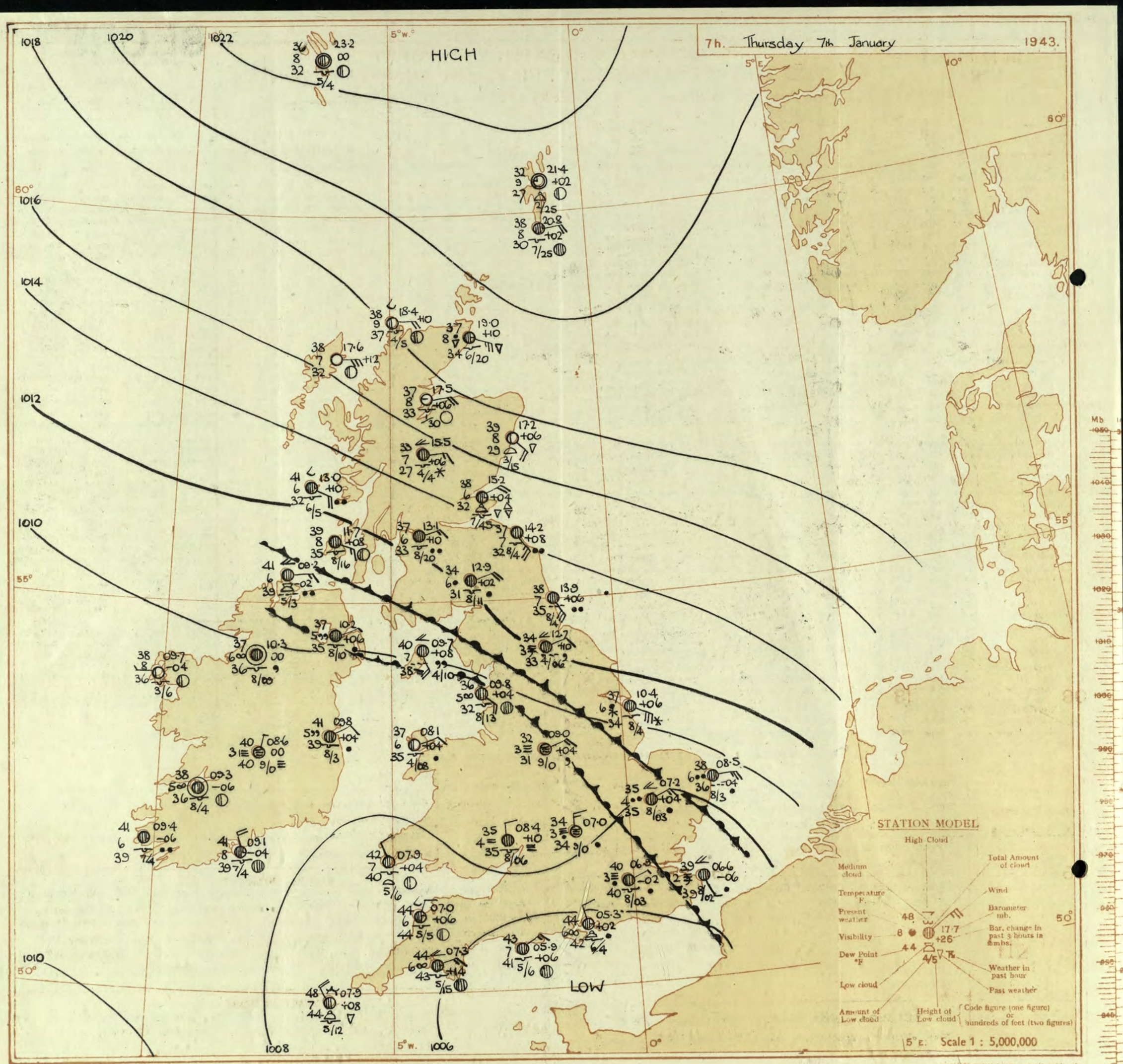
FURTHER OUTLOOK

Cold and cloudy with wintry showers in North and East; possibility of precipitation reaching southwestern districts from the Atlantic.

Forecasts issued at 1300

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

Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

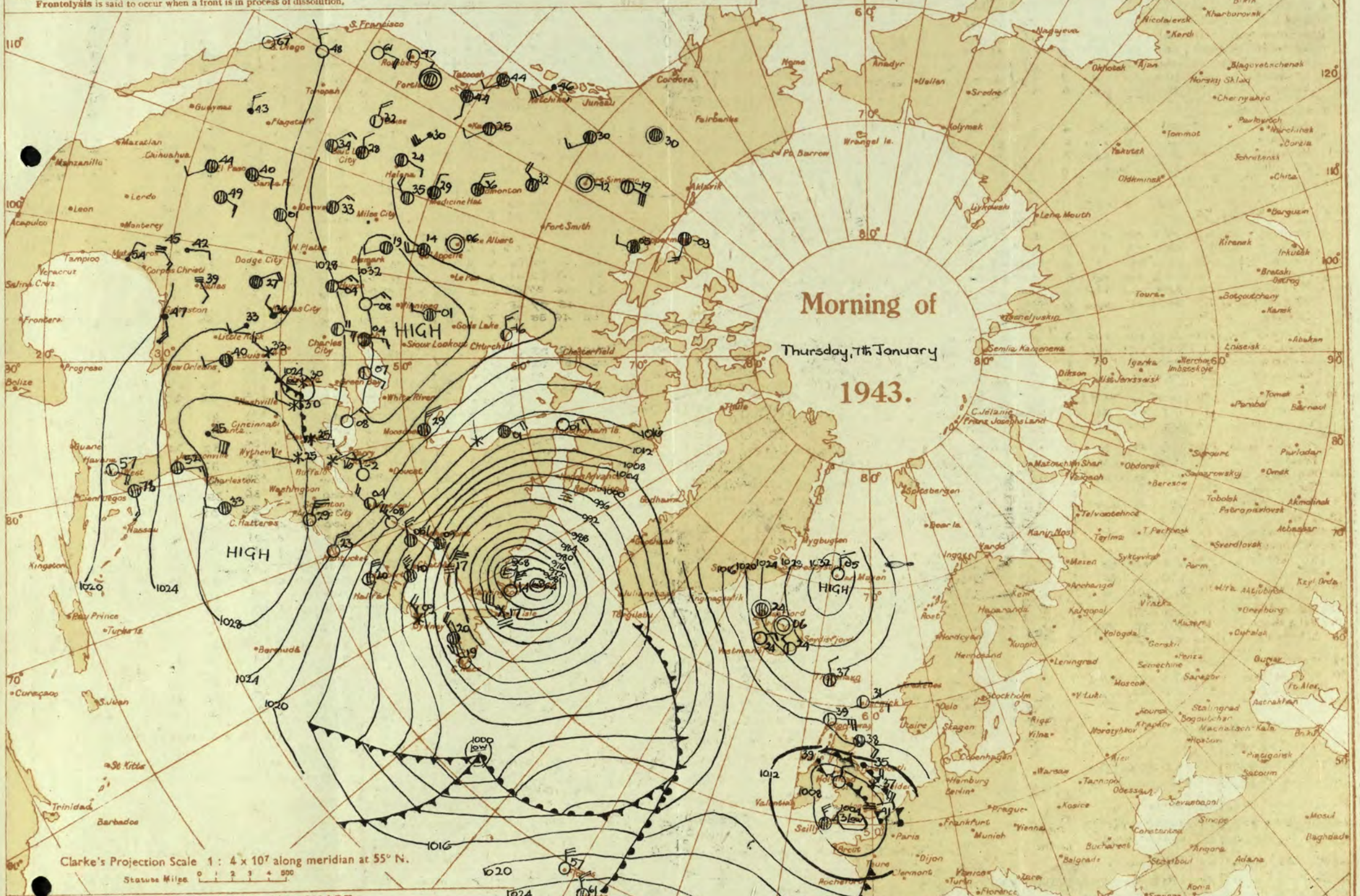
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add one hour to get summer time.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Thursday 7th January 1943

No. 22631

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

Division	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	°F. Dew Point (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	40	*	*	*	*	*	*	*	*	*
	Croydon ...	290	07·0	0	E	1	f+	41	97	41	2	–	–	–	10	10	<150
	S. Farnborough	226	06·6	-2	NNE	2	rf	41	97	41	3	5	–	–	10	10	400
	Boscombe Down	417	05·1	-2	NE'E	3	r₀r₀	43	97	43	6	5	2	–	7-8	9	300
	Thorney Island	10	05·2	-6	–	0	z₀	46	97	46	6	5	7	–	4-6	9	2500
	Lympne ...	283	07·1	-10	SE	3	ir₀	40	97	40	4	–	2	–	10	10	200
	Manston ...	154	07·5	-6	SSE	3	o/r	37	97	37	4	–	2	–	10	10	500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	08·0	-10	SE	4	ir₀	39	92	37	4	–	2	–	10	10	900
	Gorleston ...	5	10·0	-6	SE'S	6	r₀r₀	36	92	33	6	6	–	–	10	10	800
	Mildenhall ...	15	07·6	-2	ESE	3	r₀r₀	34	97	33	5	6	2	–	4-6	10	400
	Cranwell ...	203	08·6	+2	E'N	3	rsf	33	97	33	3	–	2	–	10	10	300
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	05·7	-2	ENE	1	rf	38	97	38	3	–	–	–	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	04·1	+12	NE	3	c	44	97	44	7	5	–	–	9	9	1500
	Bristol ...	209	05·6	+6	N'E	2	df	41	97	41	1	–	–	–	10	10	<150
	Portland Bill ...	32	04·6	-6	–	0	b-bc	48	97	47	7	5	–	–	2-3	2-3	4000
	Plymouth ...	82	04·3	+16	NE	3	bc	43	97	43	7	5	–	–	4-6	4-6	2000
	The Lizard ...	240	04·8	+20	NNW	4	b-bc	43	97	43	8	8	–	–	2-3	2-3	2000
	Scilly (St. Mary's)	163	05·7	+16	NNW	5	c-bc/pr	48	85	44	7	8	6	–	4-6	7-8	1200
	Guernsey ...	175															
6	Pembroke ...	142	06·7	+10	N'E	3	c	44	92	42	7	8	–	–	9+	9+	2500
7	Holyhead (Valley)	32	06·7	+2	NNE	2	z₀	39	85	34	6	–	–	–	0	0	–
	Chester (Sealand)	16	07·7	+2	E	1	c	36	92	33	4	5	2	–	4-6	10	1100
8	Manchester ...	235	08·1	0	N	2	df	34	92	33	3	5	–	–	10	10	2600
10	Spurn Head ...	29	09·3	0	SE'E	6	rs	37	92	34	6	5	–	–	10	10	1500
	Catterick ...	175	11·1	+6	SE	1	df	34	97	34	3	6	2	–	4-6	10	500
	Tynemouth ...	108	12·1	+10	SE	5	is₀	39	85	35	6	6	–	–	10	10	1500
11	St. Abbs Head	280	12·4	+8	SE	5	rr	37	97	36	6	5	–	–	10	10	1500
	Leuchars ...	36	13·9	+10	ESE	5	ir₀	38	85	35	6	5	2	–	7-8	10	1200
12	Renfrew (Abbots L.)	19	11·2	+6	ENE	3	z₀	37	85	34	6	5	1	–	4-6	7-8	3000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	08·1	+4	E'N	3	d₀d₀	40	97	40	6	6	2	–	4-6	4-6	600
13A	Tiree ...	44	11·3	-6	E	3	ir₀	41	75	34	6	5	–	–	10	10	1500
13B	Stornoway ...	15	15·5	+14	E	5	b	39	75	34	7	5	–	–	1	1	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	16·4	+8	SE	4	c-bc	38	75	30	6	5	–	–	7-8	7-8	2500
	Wick ...	114	18·3	+14	SE	5	b-bc	39	85	34	8	8	–	–	2-3	2-3	2000
16	Sumburgh ..	19	20·6	+10	E	3	bc	38	65	28	8	5	–	–	4-6	4-6	3000
17	Blacksod Point	18	09·8	+6	–	0	b	39	92	37	8	5	–	–	Tr	Tr	4000
18	Malin Head ...	84	08·7	+2	SSE	1	ir₀	39	92	37	6	8	–	–	10	10	800
	Aldergrove ...	268	08·9	+2	–	0	z₀	38	97	37	5	5	–	–	10	10	500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	09·8	+6	NE'N	2	b	42	85	38	7	5	–	–	1	1	1500
	Roches Point	22	08·5	+14	N'E	4	c	43	85	39	8	8	–	–	9	9	1500

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

Division	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	°F. Dew Point (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
1	London (Kew)	06·1	+2	NNE	2	r₀r₀	39	92	38	4	6	2	–	7-8	10	1500	1	*
	Croydon ...	06·9	-2	E'N	1	rf	40	97	40	3	5	–	–	10	10	300	1	*
	S. Farnborough	06·4	+10	N'W	2	df	39	97	39	3	5	–	–	10	10	800	1	*
	Boscombe Down	06·9	+12	N'W	3	df	39	97	39	3	5	–	–	10	10	100	1	*
	Thorney Island	05·3	+2	N'W	2	z₀	44	92	42	6	8	–	–	9	9	1500	1	*
	Lympne ...	06·2	-2	ESE	2	rf	41	97	41	3	5	–	–	10	10	100	1	§3
	Manston ...	06·6	-6	SE'S	1	df	39	97	39	2	–	2	–	10	10	200	1	*
2	Shoeburyness ...	07·1	-4	SE	2	of	39	97	39	3	5	–	–	10	10	800	1	*
	Felixstowe ...	07·6	0	E'N	3	z₀	39	92	36	5	5	–	–	10	10	800	1	3
	Gorleston ...	08·5	-4	E	5	r₀r₀	38	92	36	6	6	–	–	10	10	800	1	5
	Mildenhall ...	07·2	+4	NE'E	3	r₀r₀	35	97	35	4	–	2	–	10	10	300	6	*
	Cranwell ...	09·0	+4	NE	2	rsf	33	97	33	3	–	2	–	10	10	400	7	*
3	Birmingham ...	08·9	+4	NNE	2	F	33	97	33	1	–	–	–	10	10	<150	4	*
	Upper Heyford	07·0	+6	N	3	rf	34	97	34	3	–	–	–	10	10	<150	1	*
4	Ross-on-Wye	08·4	+10	N	2	m	35	97	35	4	5	–	–	10	10	600	1	*
5	Hartland Point	07·0	+6	NNE	2	c	44	97	44	6	5	4	–	7-8	9	2500	1	2
	Bristol ...	08·6	+14	NNE	2	of	37	97	36	2	5	–	–	10	10	450	2	*
	Portland Bill ...	05·9	+6	NE	3	o	43	92	41	7	5	–	–	10	10	4000	1	3
	Plymouth ...	07·3	+14	ENE	3	z₀	44	97	43	6	5	2	–	7-8	9+	1500	1	2
	The Lizard ...	07·5	+12	NNW	3	c	45	97	45	8	3	7	–	7-8	9+	1500	1	3
	Scilly (St. Mary's)	07·9	+8	NW'N	4	c-bc	48	88	44	7	8	6	–	7-8	7-8	1200	1	5
	Guernsey ...																	
6	Pembroke ...	07·9	+4	NNW	2	c-bc	42	92	40	7	7	–	–	7-8	7-8	4000	1	2
7	Holyhead (Valley)	08·1	+4	ENE	2	bc	37	92	35	6	5	–	–	4-6	4-6	800	1	1
	Chester (Sealand)	09·6	+12	ESE	1	o	36	85	33	5	–	2	–	10	10	2400	1	*
8	Manchester ...	09·7	+10	NNE	2	m	35	92	33	4	5	–	–	10	10	900	1	*
10	Spurn Head ...	10·4	+6	ESE	6	rs	37	92	34	6	5	–	–	10	10	1500	1	5
	Catterick ...	12·7	+10	ENE	2	df	34	97	33	3	6	2	–	4-6	10	600	6	*
	Tynemouth ...	13·9	+6	SE	6	o/r	38	92	35	7	6	–	–	10	10	1500	1	5
11	St. Abbs Head	14·2	+8	SE	5	o/r	37	85	32	7	5	–	–	10	10	1500	1	4
	Leuchars ...	15·2	+4	NE	4	c/ph	38	75	32	6	8	–	–	9+	9+	4500	1	*
12	Renfrew (Abbots L.)	13·1	+10	E'N	3	o/r	37	85	33	6	5	–	–	10	10	2000	1	*
	Eskdalemuir ...	12·9	+2	E'N	4	ir₀	34	92	31	6	5	–	–	10	10	1100	6	*
	Point of Ayre ...	09·7	+8	SSE	4	c/d	40	85	38	7	6	2	–	4-6	10	1000	1	4
13A	Tiree ...	13·0	+10	E'S	4	c/r	41	75	32	6	5	7	–	9	9+	2500	1	4
13B	Stornoway ...	17·6	+12	E	6	b	38	85	32	7	–	–	–	0	0	–	4	4
15	Dalwhinnie ...	15·5	+6	E	3	o	33	75	27	7	3	2	–	4-6	10	1500	7	*
	Aberdeen † ...	17·2	+6	SE'E	4	b-bc	39	65	29	8	1	–	–	2-3	2-3	1500	1	4
	Wick ...	19·0	+10	ESE	5	pr	37	92	34	8	5	–	–	9	9	2000	1	*
16	Sumburgh ..	20·8	+2	E'N	4	c	38	75	30	8	5	–	–	9+	9+	2500	6	3
17	Blacksod Point	09·7	-4	W	1	b-bc	38	92	36	8	5	–	–	2-3	2-3	4000	1	2
18	Malin Head ...	09·2	-2	E'S	3	c/r	41	92	39	6	9	2	–	7-8	10	800	2	3
	Aldergrove ...	10·2	+6	E'N	1	d₀d₀	37	92	35	5	5	–	–	10	10	1000	1	*
19	Birr Castle ...	08·6	0	NNE	1	f+	40	97	40	3	–	–	–	10	10	<150	1	*
20	Valentia Obsy.	09·4	-6	–	0	c/r	41	92	39	6	5	–	–	9+	9+	1500	1	0
	Roches Point	09·1	-4	N	4	c	41	92	39	8	5	–	–	9+	9+	1500	1	4

PAST 24 HOURS.

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

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 6th January: $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 7th January: $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN
109	83	25864	10386	5-	61755	08385	5-	01654	09354	5-	27766	12386
115	77	02844	45686				54	01854	41524	54	02954	08414
203	06	01890	32114	03	00990	06111						
206	52	02856	39567	57	22854	07568	57	02855	41528	50	01861	07401
210	57	02754	08468	57	02744	08328	07	01790	08324	00	00790	08100
220	07	01890	00015	57	02754	00017				57	02754	09217
230	5-	05665	00025	5-	61858	00068	5-	02848	10388	5-	02858	08228
245	62	62645	12568	62	62546	45668	62	22645	42468	62	05644	41527
260	02	08448	08228	--	41409	12149				52	05565	0816
278				52	61747	70468	02	52638	12358	02	62649	10568
279				5-	05648	04478	52	05655	06428	52	05654	06328
285	--	77209	08479							02	71628	08578
288	62	71634	12478	62	02756	12478	5-	05648	04228	52	62445	06268
575	62	05536	04368	52	05537	04228	5-	05638	00058	5-	05638	00058
301	5-	61428	12428	5-	41448	10368	5-	08448	12228	5-	05548	10428
321				5-	68318	10258	5-	45258	08338	5-	52428	04358
2..	5-	68638	14678	5-	62638	12668	5-	62748	12668	8-	637·8	12668
292	02	74438	12378	02	51528	10278	02	58428	07268	02	68438	06278
310	--	46109	16349									
614	02	57338	12268	02	57228	08258	--	57109	10259	5-	57248	04348

III	13h. G.M.T. 6th January: $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 7th January: $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN
333				50	05652	24222	50	05652	00002	5-	08648	00018
334	--	02647	28217	--	02636	28217				--	03547	02128
340	02	08438	12428	02	45318	10358	02	21428	10158	5-	03448	07228
136	5-	72518	12428	02	62428	10578	02	77318	10378	02	68418	06278
336	--	46109	12249	--	46309	20349				--	46309	12349
350	5-	22428	12368	5-	47218	10348	02	62428	00068	02	45218	04158
368	83	41454	06144	5-	52457	08257	5-	08438	04258	54	05547	04218
379	02	46108	14268	--	48009	14249	--	46009	00049	--	46109	12259
390				02	67228	21258	02	67318	00068	--	67109	08169
38	62	51528	11358	02	67318	10128	--	46209	08149	--	44309	32149
438				--	67209	16469	--	67009	20269	52	41726	32168
430				5-	64438	00068	5-	05545	00026	5-	61645	08265
409	36	31735	12485	36	25754	10284	06	02790	02115	5-	02765	02226

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 7th January
Day 7h—18h. Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution, Milligrams of solid impurity per cubic metre.
Kew ...	rrr₀cm₀	cid₀r₀r₀	crrm₀	Kew 24 hours ended 7h. Max. Time 0·5 19·2 6th
Croydon ...	r₀r₀m₀	cmoid₀cdd₀	cmir₀cfrr	
Greenwich ...	rr₀r	dorr	rrr₀rrf	
Camden Square			*	
Kensington ...	ord	ord	*	
Hampstead ...	or	or	o	Min. Time 0·2 7–8h 6th

Stations.	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 % Yesterday	Humidity 9h % To-day
Kew ...	42	38	38	5	9	0·0	*	*
Croydon ...	42	40	39	3	15	0·0	*	*
Greenwich ..	40	38	38	5	13	0·0	96	97
Westminster ..	42	38	37	16			94	94
Regents Park ...	41	37	37	4	11		96	95
Camden Square						*	*	
Kensington ...	42	39	37	3	11		93	95
Hampstead ...	35	32	29	–	7		*	97

Page 1 BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

SECRET

Friday 8th January 1943. No. 29632

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	07·7	+2	N	2	m/d	38	92	36	4	5	–	–	10	10	1500
	Croydon	08·3	+2	NNW	1	dF	38	97	38	1	–	–	–	10	10	<150
	S. Farnborough	08·3	+2	NNW	3	zo	38	92	37	6	5	–	–	10	10	600
	Boscombe Down	09·6	+6	N'W	3	zo	36	97	35	6	5	–	–	10	10	800
	Thorney Island	07·3	+2	N	3	zo	40	92	39	6	5	–	–	10	10	800
	Lympne	06·6	0	NE'N	1	m/r	41	97	41	4	5	–	–	10	10	100
	Manston	06·3	−10	ENE	1	id	41	97	40	4	–	2	–	10	10	400
2	Shoeburyness	07·5	+4	NNE	3	zo	40	92	39	5	5	–	–	10	10	800
	Felixstowe	07·7	+2	NE'E	3	zo	39	92	36	5	5	–	–	10	10	900
	Gorleston	08·9	−6	E	5	roro	36	92	34	6	6	–	–	10	10	1000
	Mildenhall	08·9	+2	NE	3	roro	35	97	35	5	6	2	–	7-8	10	800
	Cranwell	10·7	+4	NE'E	3	rs	34	97	34	5	–	2	–	10	10	300
3	Birmingham	10·3	+8	NE	3	F+	37	97	36	1	–	–	–	10	10	<150
	Upper Heyford	08·8	+2	N'W	2	F	34	97	34	1	–	–	–	10	10	<150
4	Ross-on-Wye	10·2	+6	N'W	2	m	36	92	34	4	5	–	–	10	10	600
5	Hartland Point	08·9	+4	WSW	3	bc	47	85	43	7	5	4	–	2-3	4-6	2000
	Bristol	10·4	+6	N	3	m	36	92	34	4	5	–	–	10	10	450
	Portland Bill	08·8	+8	NE	2	c-bc	42	97	40	7	5	–	–	7·8	7·8	2500
	Plymouth	09·3	+6	NNW	3	zo	47	85	43	6	1	3	1	4-6	7·8	2000
	The Lizard	08·8	+4	NNW	3	c-bc	48	92	46	8	2	6	–	7·8	7·8	1500
	Scilly (St. Mary's)	09·0	+2	NW	2	c	48	85	43	7	8	7	–	7·8	9	1200
	Guernsey															
6	Pembroke	09·4	+6	E'S	1	bc	43	92	41	6	2	6	–	2-3	4-6	2500
7	Holyhead (Valley)	10·3	+6	NE	4	o/d	38	85	35	5	–	–	–	10	10	1500
	Chester (Sealand)	11·7	+8	ENE	2	c	38	85	33	5	5	2	–	9+	10	2000
8	Manchester	12·0	+8	NE'N	3	iro	35	85	32	5	5	2	–	7·8	10	800
10	Spurn Head	11·8	+4	E	6	prs	36	92	33	6	5	–	–	9	10	800
	Catterick	14·5	+2	NNE	1	rs	34	92	32	6	–	2	–	10	10	800
	Tynemouth	16·4	+8	E	5	c-bc	39	65	28	8	2	3	1	4-6	7·8	1800
11	St. Abbs Head	16·2	+8	E	4	c-bc	39	75	31	7	5	7	–	4-6	7·8	2500
	Leuchars	17·0	+4	NE'E	3	bc	40	65	27	8	2	7	8	2-3	4-6	3000
12	Renfrew (Abbots I.)	15·6	+6	E	3	c/d	38	75	32	5	5	3	–	4-6	10	1000
	Eskdalemuir	16·0	+6	ENE	3	SoSo	33	92	32	6	5	–	–	10	10	1100
	Point of Ayre	12·5	+10	SE'S	5	c	40	75	34	8	8	2	–	7·8	10	2500
13A	Tiree	15·5	+6	E'S	4	c	40	65	31	9	2	–	–	9+	9+	2500
13B	Stornoway	19·6	+2	E	4	b	41	75	32	8	1	–	–	Tr	Tr	3200
15	Dalwhinnie	17·5	+6	E	3	bc	30	75	24	8	5	3	–	2-3	4-6	2500
	Aberdeen	18·3	0	ENE	2	cbcjp	40	85	36	8	8	–	–	7·8	7·8	2500
	Wick	19·7	+2	E'N	4	bc	40	55	36	9	8	3	–	2-3	4-6	3000
16	Sumburgh	20·7	−6	ENE	3	c-bc	38	65	29	9	8	–	–	7·8	7·8	3000
17	Blacksod Point	10·2	+2	E	1	b	45	75	37	8	5	–	–	1	1	4000
18	Malin Head	11·2	+4	E	3	iro	40	92	38	7	8	2	–	7·8	10	1500
	Aldergrove	12·1	+6	E'S	2	iro	39	85	37	5	5	2	–	9	10	1000
19	Birr Castle	09·7	0	NNE	1	c	40	92	38	7	5	–	–	10	10	1500
20	Valentia Obsy.	08·7	−6	E	2	c	45	75	37	8	5	–	–	9+	9+	5700
	Roches Point	09·7	−2	NNE	2	zo	42	92	40	6	5	–	–	9+	9+	1500

OBSERVATIONS at 18h. G.M.T. 7th January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp (21)	Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Med. (26)	High (27)	Amount Low 0–10 (28)	Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Weather 7h.–13h. 7th (39)	13h.–18h. 7th (40)	18h. 7th to 1h. 8th (41)	1h.–7h. 8th (42)
London (Kew)	09·3	+14	N'E	3	ido	36	92	34	5	5	–	–	10	10	1500	1	*	offidoom	doidofmo	cidodomo	c,bmx
Croydon	09·5	+10	NNW	3	df	36	97	36	2	–	–	–	10	10	<150	1	*	ofrrFdodo	cfdodoof	ofdodd	bmoxbf
S. Farnborough	09·6	+12	N'W	2	of+	36	97	35	3	5	–	–	10	10	1000	1	*	ofrfrofcm	cmoom idf	ofidocmd	cmdobmox
Boscombe Down	11·1	+10	N'W	4	zo	35	92	34	6	5	–	–	10	10	300	1	*	cidofomo	cmo	omo	cmobcmobm
Thorney Island	08·8	+6	N	4	zo	37	85	34	5	5	–	–	10	10	1000	1	*	cmodocmo	cmo	cmdoc	cmobmow
Lympne	07·7	+10	N'E	2	m	39	92	37	4	5	2	–	7·8	10	100	1	§2	o fdomoro	cmddido	ommoirod	obcmobcx
Manston	07·8	+14	N'E	3	roro	39	92	37	5	–	2	–	10	10	800	1	*	omidoid	omororoomddo	omororo	bczo
Shoeburyness	08·9	+4	NNE	3	zo	36	92	35	5	5	–	–	10	10	800	1	*	orrmomo	ormo omoo		crorobc
Felixstowe	08·6	+10	NNE	3	rs	35	92	33	4	–	2	–	10	10	900	1	3	cmo	roromoroSo	orosobcmcm	bmobcmo
Gorleston	10·0	+6	NE'E	5	o/pr	36	85	32	6	6	–	–	10	10	1500	1	5	r	rorepr	cprorosbc	bbcpho
Mildenhall	10·0	+10	N'E	3	iSo	33	97	33	4	6	2	–	4-6	10	300	4	*	crorom	croromociSom	cmobmox	bmox
Cranwell	12·3	+14	NE	2	SoSo	33	92	31	3	–	2	–	10	10	100	7	*	oiroSomo	S	SoSofm	bmbmox
Birmingham	11·6	+12	NE	3	sf	34	97	34	3	6	–	–	10	10	450	4	*	FF	FfoiSo	fsob	bf
Upper Heyford	10·1	+10	NE'N	3	m	34	97	33	4	–	2	–	10	10	500	1	*	roroshF	dodoFm	shisoidocm	cbm
Ross-on-Wye	11·5	+8	N'E	2	m	36	85	33	4	5	–	–	10	10	600	1	*	omo	ommoof	omocc	cbx
Hartland Point	09·2	+6	ENE	3	c	44	92	43	6	5	6	–	4-6	9	2500	1	3	cbc	cbcc	coc	cbc
Bristol	11·5	+14	N	3	df	36	92	34	3	5	–	–	10	10	700	1	*	ofcm	cm	cdof,ofcm	cm,bmx
Portland Bill	09·8	+6	N	2	o	38	92	35	7	5	–	–	10	·10	2500	1	3	o	co	co	c
Plymouth	09·5	+6	ENE	2	zo	42	92	40	5	5	3	–	4-6	7·8	3000	1	2	cmo	cmo	cbcmo	cbccmo
The Lizard	08·7	−2	–	0	c	47	92	45	8	8	2	–	9	10	1500	1	3	c	c	cbcc	crr
Scilly (St. Mary's)	08·9	+6	N'E	1	c	46	85	42	7	5	–	–	10	10	1500	1	3	c	c	ciro	ciro
Guernsey																					
Pembroke	10·6	+4	E'N	3	c	40	92	38	7	8	–	–	9+	9+	2500	1	2	cbcmo	c	bc	cbc
Holyhead (Valley)	11·8	−12	NE	5	m	37	85	33	4	5	–	–	10	10	2700	1	4	cidomoc	cmom	bmo	bbcmox
Chester (Sealand)	13·0	+12	ENE	3	c	35	85	31	5	5	–	–	10	10	2100	1	*	c	cmo	cmobm	bmx
Manchester	13·2	+8	NE'N	3	bc/s	34	85	31	5	5	–	–	4-6	4-6	1500	1	*	cmmo	iSSoSoiSo	bcbmo	bmomx
Spurn Head	11·7	0	ENE	5	bc	38	75	31	7	5	–	–	4-6	4-6	2500	0	4	rs	bc	b	c
Catterick	15·4	+10	NNE	1	zo	32	85	29	6	5	3	–	1	2-3	2500	5	*	oSoSomo	omobcmo	bmox	pSomx
Tynemouth	15·9	+6	E	4	c-bc	39	65	29	8	2	3	–	4-6	7·8	1500	1	4	oirc	c	cbcc	cbc
St. Abbs Head	16·3	+2	E	2	c-bc	38	65	28	7	5	–	–	7·8	7·8	2500	0	4	cirobcc	c	cbcc	croc
Leuchars	17·5	+10	ENE	2	c-bc	36	85	31	8	5	3	8	4-6	7·8	2000	1	*	ciromoc	cbcc	cprocroSo	cmoosh
Renfrew (Abbots I.)	16·5	+10	E'N	2	m	35	85	30	4	5	7	–	4-6	7·8	2500	1	*	omoidocmo	cmocz	bmx	bmxbcmx
Eskdalemuir	16·7	+8	NE'E	2	b	24	85	19	8	5	3	–	1	1	1800	8	*	oSoSr	Sobcb	bx	bx
Point of Ayre	13·7	+10	SE'E	5	b-bc	39	75	32	8	2	–	–	2-3	2-3	2500	1	4	ciroc	cbcb	b	b
Tiree	16·0	+2	E	4	c	40	65	28	8	8	–	–	10	10	2000	1	4	ccproc	c	cbc	c
Stornoway	19·7	+2	ENE	4	b	37	85	32	8	1	–	–	Tr	Tr	2500	4	3	b	b	b	b
Dalwhinnie	18·2	+6	N	1	b	22	75	16	8	5	–	–	Tr	Tr	4000	8		oc	cmo		b,c
Aberdeen	18·5	+2	N	3	c	36	85	32	7	8	–	–	9+	9+	2500	1	2	bccjp	cproho	cphoroc	cbcz
Wick	19·5	0	NE	3	phr	37	75	30	8	8	2	–	4-6	9+	2000	1	*	cbc	bccphrcphr	bc	cprophsbc
Sumburgh	20·7	+4	NNE	3	prs	33	97	33	7	8	–	–	10	10	1500	6	3	cproSoc	cprSo	cphob	bc
Blacksod Point	09·9	+2	SE	3	b-bc	39	85	35	7	5	–	6	1	2-3	4000	1	2	b	b	r	d
Malin Head	13·2	+12	E	3	c/r	39	85	35	8	8	–	–	9+	9+	1500	2	3	r	r	r	c
Aldergrove	13·9	+10	SE	2	zo	38	75	32	6	5	2	–	9	10	2400	1	*	cmodoroiro	cmo	cbcbbcmo	bccmocb
Birr Castle	09·6	+2	NE	2	c	41	92	39	7	5	–	–	10	10	2500	1	*	f	c	*	r
Valentia Obsy.	07·5	−2	E	4	iro	45	75	37	7	5	–	–	10	10	4000	1	2	c	pr	r	r
Roches Point	09·3	0	E	2	c	43	92	41	7	5	–	–	9+	9+	1500	1	3	c	c	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 8th January.

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Light variable winds, becoming southeast moderate to-morrow; fine; cloud increasing to-morrow; local fog; cold; hard night frost.
4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England; 9 N. Midlands	Light southeast winds, freshening later; mainly fair at first; snow later, local fog; cold: night frost in many districts.
10 N.E. England; 11 S.E. Scotland	Light southeast wind freshening later; fine at first, local wintry showers later; local fog; cold; hard night frost.
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland	Freshening southeast wind becoming strong to gale on coasts later; fair at first, snow later; cold: night frost.
14 Mid Scotland; 15 N.E. Scotland	As 10-11.
16 Orkneys and Shetlands	As 10-11
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	Moderate southeast wind freshening; cloudy; occasional rain; snow later in the East; cold, becoming slowly milder later.

GENERAL INFERENCE

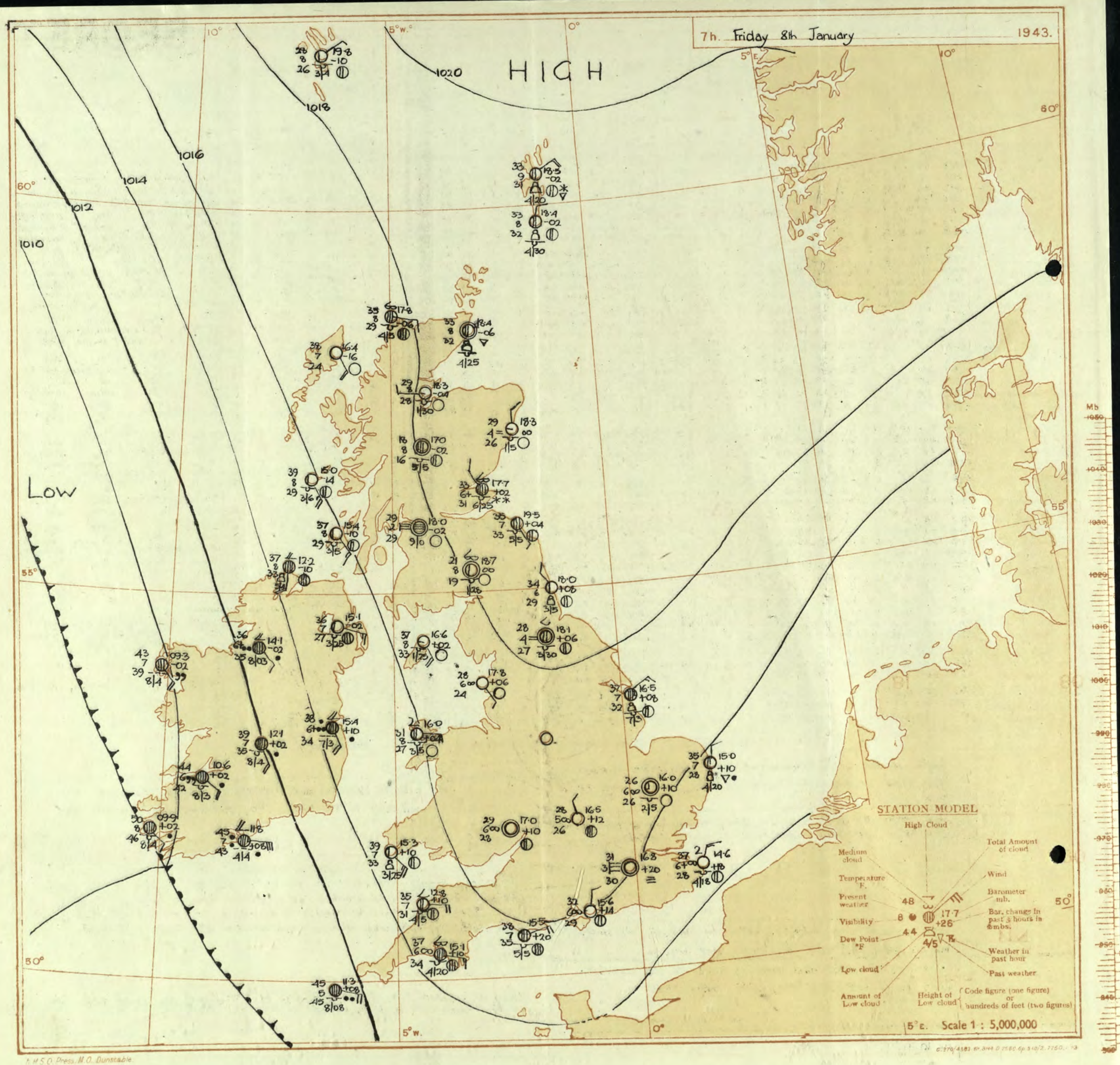
A ridge of high pressure covers the North Sea and troughs of low pressure west of Ireland are moving east. Weather will be fine at first over most of Great Britain but snow is expected to-morrow in western districts of England and Scotland, spreading east. It will be cold with hard night frost.

FURTHER OUTLOOK

Snow in western districts of England and Scotland spreading east. Cold in the East but becoming milder in the West temporarily.

Forecasts issued at 1030.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O. Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

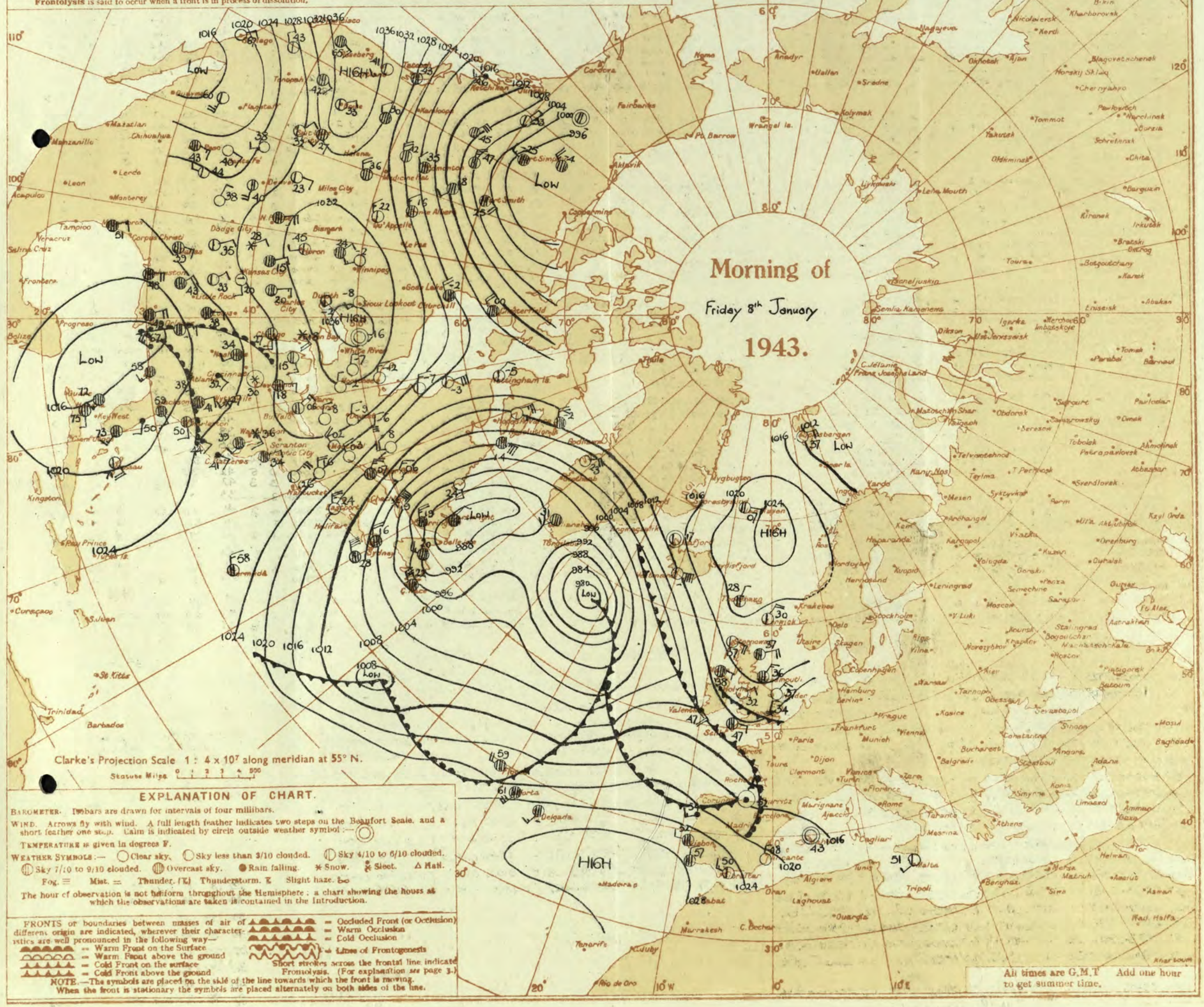
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add one hour to get summer time.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Friday 8th January 1943
No. 29632

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	°F. Dew Point (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	35	*	*	*	*	*	*	*	*	*
	Croydon	290	12·9	+14	NNE	2	df	34	97	34	3	5	–	–	10	10	1200
	S. Farnborough	226	12·7	+18	N'E	2	d_0d_0	35	89	32	4	5	–	–	10	10	800
	Boscombe Down	417	13·6	+16	NNE	2	z_0	34	92	32	6	5	–	–	10	10	1100
	Thorney Island	10	12·0	+16	N'E	3	z_0	36	85	33	5	5	–	–	10	10	1800
	Lympne	283	10·7	+14	NE	2	o	35	92	33	5	5	–	–	10	10	300
	Manston	154	10·6	+16	ENE	4	z_0	37	85	33	5	5	–	–	9+	9+	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	11·6	+14	NE'N	4	z_0	36	75	28	5	5	–	–	1	1	4000
	Gorleston	5	12·0	+10	NE	4	bc	37	75	30	7	2	–	–	4-6	4-6	2500
	Mildenhall	15	13·2	+14	N	2	z_0	31	85	29	6	–	–	–	0	0	–
	Cranwell	203	14·6	+10	E	1	m	31	85	27	4	–	–	–	0	0	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	13·2	+14	N'E	3	m	33	92	31	4	5	–	–	10	10	2800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	11·9	+12	E	4	c-bc	36	85	32	6	5	–	–	7-8	7-8	2500
	Bristol	209	14·2	+12	NE'N	2	m	35	85	32	4	5	–	–	10	10	1800
	Portland Bill	32	12·0	+8	NW	2	o	37	92	34	7	5	–	–	10	10	2500
	Plymouth	82	12·9	+14	ENE	3	z_0	36	92	34	5	5	–	–	4-6	4-6	2000
	The Lizard	240	11·5	+10	E	5	c	44	92	42	7	5	2	–	9	10	1500
	Scilly (St. Mary's)	163	10·2	+6	ESE	1	o/r	47	85	44	6	5	–	–	10	10	1000
	Guernsey	175															
6	Pembroke	142	13·2	+14	E'S	4	b-bc	37	85	34	7	1	–	–	2-3	2-3	3000
7	Holyhead (Valley)	32	14·5	0	ENE	2	z_0	32	85	28	6	–	–	–	0	0	–
	Chester (Sealand)	16	15·9	+18	–	0	m	31	85	28	4	–	–	–	0	0	–
8	Manchester	235	16·4	+14	NNE	2	z_0	28	92	26	6	–	–	–	0	0	–
10	Spurn Head	29	14·6	+12	NE'E	3	b	37	65	27	7	–	–	–	0	0	–
	Catterick	175	16·9	+6	NW	1	z_0	33	85	30	5	5	–	–	2-3	2-3	4000
	Tynemouth	108	16·9	+4	W	3	c-bc	36	85	31	7	5	–	–	7-8	7-8	2500
11	St. Abbs Head	280	16·8	+8	NE	2	c	38	85	33	7	5	–	–	10	10	2500
	Leuchars	36	17·7	+2	–	0	z_0	34	92	31	6	5	–	–	10	10	3500
12	Renfrew (Abbots I.)	19	17·6	+4	–	0	m	27	97	25	4	–	–	–	0	0	–
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	15·7	+12	SE	5	b	38	75	30	8	4	–	–	Tr	Tr	2000
13A	Tiree	44	16·4	-2	ESE	5	b-bc	38	85	34	8	4	–	–	2-3	2-3	4000
13B	Stornoway	15	18·6	-6	ESE	4	b	37	85	32	7	5	–	–	Tr	Tr	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	18·0	-2	NNW	2	b	32	85	29	8	5	–	–	1	1	4000
	Wick	114	19·2	-4	E	3	bc	37	85	32	8	8	–	–	4-6	4-6	2500
16	Sumburgh	19	19·4	-2	NE	3	b-bc	34	75	27	8	2	–	–	2-3	2-3	2000
17	Blacksod Point	18	10·0	0	SE	4	r_0r_0	41	85	37	7	6	–	–	7-8	7-8	2500
18	Malin Head	84	13·9	+2	ESE	4	c	38	85	34	7	8	–	–	10	10	1500
	Aldergrove	268	15·2	+4	ESE	3	z_0	36	75	29	6	5	–	–	4-6	4-6	3000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	08·3	+6	SE'E	4	ir_0	47	85	43	7	5	–	–	10	10	2500
	Roches Point	22	10·1	+6	SE	3	r_0r_0	47	97	46	7	6	2	–	4-6	9+	1500

OBSERVATIONS at 7 hr. G.M.T. 8th January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	°F. Dew Point (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 7th. Hrs. (38)
London (Kew)	16·3	+20	N	2	m	31	85	28	4	–	–	–	0	0	–	1	*	39	31	17	0·3	Tr	0·0
Croydon	16·8	+20	–	0	bf+	31	92	30	3	–	–	–	0	0	–	3	*	40	31	26	3	0·2	0·0
S. Farnborough	16·5	+20	N'W	1	z_0	31	85	28	5	–	–	–	0	0	–	1	*	40	31	24	0·5	Tr	0·0
Boscombe Down	16·8	+14	NE	3	z_0	32	85	28	6	5	–	–	1	1	4000	1	*	39	32	26	0·2	–	0·0
Thorney Island	15·6	+14	N'E	2	z_0	32	85	29	6	–	–	–	0	0	–	1	*	44	30	26	Tr	Tr	*
Lympne	15·1	+22	NNE	1	b-bc	32	85	27	7	5	–	–	2-3	2-3	2600	1	§3	43	31	22	5	Tr	0·0
Manston	14·6	+18	NNE	3	z_0	37	65	28	6	5	–	6	4-6	7-8	1800	1	*	41	36	32	1	Tr	0·0
Shoeburyness	16·1	+18	NNE	2	b	31	85	27	5	–	4	–	0	1	–	3	*	41	30	22	4	0·3	0·0
Felixstowe	14·9	+12	NW	2	z_0	30	85	26	6	5	–	–	2-3	2-3	4000	3	2	40	29	26	1	0·2	0·0
Gorleston	15·0	+10	N	2	bc/r	35	75	28	7	2	–	–	4-6	4-6	2000	4	3	39	35	28	0·5	0·3	0·[illegible]
Mildenhall	16·0	+10	–	0	z_0	26	97	26	6	5	–	–	1	1	2500	4	*	36	25	18	3	0·6	0·0
Cranwell	17·0	+10	N	1	z_0	25	92	24	5	–	3	–	0	1	–	8	*	35	25	22	3	0·1	0·0
Birmingham	17·3	+2	NNE	1	bf+	29	92	27	2	–	–	–	0	0	–	4	*	34	27	16	Tr	Tr	0·0
Upper Heyford	16·5	+12	NW'N	1	z_0	28	97	26	5	–	–	–	0	0	–	3	*	34	27	22	0·2	Tr	*
Ross-on-Wye	17·0	+10	–	0	z_0	29	92	28	6	–	–	–	0	0	–	3	*	36	29	20	Tr	–	0·0
Hartland Point	12·8	+10	E	4	bc	35	85	31	7	5	4	–	4-6	4-6	2500	1	4	48	34	34	–	–	2·7
Bristol	17·1	+14	NE	1	m	30	92	29	4	5	–	–	Tr	Tr	2500	3	*	37	30	22	Tr	–	0·0
Portland Bill	15·5	+20	ENE	4	c-bc	38	92	35	7	5	–	–	7-8	7-8	2500	1	3	48	34	*	–	–	*
Plymouth	15·1	+10	ESE	3	z_0	37	92	34	6	5	7	–	4-6	9+	2000	1	2	47	35	32	–	–	3·6
The Lizard	13·1	+10	E	5	r_0r_0	41	97	41	6	5	–	–	10	10	1000	1	4	49	40	*	Tr	1	0·0
Scilly (St. Mary's)	11·3	+8	ESE	4	o/r	45	97	45	5	5	–	–	10	10	800	1	4	49	45	*	–	1	0·0
Guernsey																							
Pembroke	15·3	+10	SE'E	5	b-bc	39	75	33	7	2	–	–	2-3	2-3	2500	1	3	45	*	*	–	–	1·1
Holyhead (Valley)	16·0	+4	E	2	bc	31	85	27	8	5	–	6	2-3	4-6	2500	3	1	39	28	22	Tr	–	*
Chester (Sealand)	17·2	+6	–	0	bf+	26	85	23	3	–	–	–	0	0	–	3	*	38	26	18	–	–	0·0
Manchester	17·3	+10	N'W	2	m	25	97	25	4	–	–	–	0	0	–	3	*	36	24	15	0·6	–	*
Spurn Head	16·5	+8	NE'E	3	c	37	85	32	7	8	–	–	9+	9+	800	0	3	39	34	*	2	–	0·0
Catterick	18·1	+6	–	0	m	28	92	27	4	5	4	–	2-3	4-6	3000	8	*	38	23	17	1	Tr	0·0
Tynemouth	18·0	+8	NW	2	b-bc	34	85	29	6	2	–	–	2-3	2-3	2500	3	3	40	33	29	0·4	–	*
St. Abbs Head	19·5	+4	SE	1	c-bc	35	92	33	7	5	–	–	7-8	7-8	2500	0	3	39	35	*	0·3	Tr	*
Leuchars	17·7	+2	NW	2	c/s	33	92	31	6	5	7	–	9	10	2500	4	*	40	33	28	1	Tr	0·0
Renfrew (Abbots I.)	18·0	-2	–	0	f+	29	97	29	2	–	–	–	10	10	<150	3	*	38	24	19	Tr	–	0·0
Eskdalemuir	18·7	0	–	0	b-bc	21	92	19	8	5	7	–	Tr	2-3	2800	8	*	35	20	15	1	–	0·0
Point of Ayre	16·6	+2	SE'S	4	b	37	85	33	8	5	–	–	Tr	Tr	2500	0	4	40	36	*	Tr	–	0·0
Tiree	15·0	-14	SE	5	b-bc	39	75	29	8	5	–	–	2-3	2-3	4000	0	5	42	37	*	Tr	–	0·0
Stornoway	16·4	-16	SE	4	b	38	65	24	7	–	–	–	0	0	–	3	3	42	31	29	–	–	5·4
Dalwhinnie	17·0	-2	–	0	c-bc	18	92	16	8	5	–	–	7-8	7-8	2500	8	*	33	11	7	–	–	0·0
Aberdeen †	18·3	0	NNW	2	m	29	92	26	4	5	–	–	Tr	Tr	2500	4	2	41	29	23	0·5	Tr	2·7
Wick	18·4	-6	–	0	bc	33	92	32	8	8	–	–	4-6	4-6	2500	5	*	41	33		0·2	2	*
Sumburgh	18·4	-2	NNE	2	bc	33	92	32	8	8	–	–	4-6	4-6	3000	8	2	40	32	27	0·4	0·1	2·2
Blacksod Point	09·3	-2	SE	4	o/d	43	85	39	7	6	–	–	10	10	1500	1	3	46	38	*	3	1	*
Malin Head	12·2	-10	S'E	4	c	37	85	33	8	8	2	–	7-8	10	1500	2	3	41	36		0·6	0·1	0·0
Aldergrove	15·1	-2	ESE	3	b-bc	36	75	27	7	5	–	–	2-3	2-3	2500	1	*	39	34	28	2	–	0·0
Birr Castle	12·1	+2	SSE	4	c	39	85	35	7	5	–	–	10	10	1500	1	*	41	38	36	–	1	0·0
Valentia Obsy.	09·9	+2	SE'E	2	c	50	85	46	8	5	–	–	10	10	1500	1	1	46	43	41	0·1	2	0·0
Roches Point	11·8	+8	E'S	6	ir	45	92	43	7	6	2	–	4-6	9+	1500	1	8	44	42	*	–	4	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 7th January ... 18h. G.M.T. — 01h. G.M.T. 8th January ... 07h. G.M.T.

III	13h. $C_L C_M$	13h. $wwVhN_h$	13h. DDFWN	18h. $C_L C_M$	18h. $wwVhN_h$	18h. DDFWN	01h. $C_L C_M$	01h. $wwVhN_h$	01h. DDFWN	07h. $C_L C_M$	07h. $wwVhN_h$	07h. DDFWN
109	8-	02865	07425	8-	01763	06383	5-	01761	05311	8-	25654	00014
115	84	02844	08487	52	02844	08327	54	01963	08224	57	02854	08226
203				10	00952	08302				00	00990	08400
206	53	02963	06315	53	27864	06117	87	87655	00026	50	01861	24101
210	83	10855	10116	26	25865	18188	50	01761	00071	00	00790	00000
220	57	02854	12416	53	01754	09204						
230	82	61856	08267	50	01862	08222	00	00990	08100	50	01962	08102
245	24	01944	07384	22	85846	31168	57	02866	32288	87	02864	22114
260	57	08463	08425	04	05690	08121	5-	05668	00028	50	05663	00013
278	5-	62738	09568	57	02745	10566	00	00890	12450	50	01862	11402
279	57	02754	06477	04	05690	04464	00	00790	04300	50	05661	02201
285	02	72627	06477	23	05624	08424				50	01743	32313
288	83	02836	06377	53	05543	04324	8-	87458	30318	00	08461	18181
575	62	62536	12168	52	05637	08368	50	01753	00003	02	62638	12268
301	52	05634	07468	57	05551	08168	00	05590	10120	00	05690	12100
321	5-	68638	05368	5-	02538	30278	00	08490	30200	00	47390	26210
2[illegible]	82	88745	08588	20	01754	06414	00	00790	06300	54	01754	06314
292	52	24844	06178	53	02753	13275	00	05590	28110	50	23654	27174
310												
614	5-	08438	04328	62	72435	06378	5-	05565	02105	00	08490	02100
333	52	05666	04228	5-	22668	06368	00	05690	04300	5-	05664	04304
334	--	05537	00028	--	04437	02228				--	00790	02102
340	5-	05538	04228				00	00690	00050	00	00590	32100
136	02	68638	06378	62	72535	03378	50	01764	03274	50	01663	01213
336	57	05644	08328	--	46309	04349				50	01654	04314
350	5-	46218	04248	5-	51428	04328	00	08490	02320	00	05590	32200
368	5-	45338	02248	5-	08466	08346	54	04227		50	41551	06311
379	--	44109	02459	5-	08428	02448	5-	05558	02328	00	05590	04200
390	5-	57228	02258	5-	42338	02248	5-	40456	02368	00	05590	02100
382	5-	05638	32268	5-	08438	03358	53	05565	04425	04	05590	00011
438	--	48009	32349	--	48009	06349	--	44409	02459	50	01753	02413
430	5-	05538	30228	5-	05538	32128	5-	51538	02358	00	05690	00050
405	57	02764	30227	57	02753	06127	50	01654	04214	52	62656	10468

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 8th January.
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	offidoom	doidofmo	cidodobrx
Croydon	ofrrfdodo	cfdodoof	ofdobmoxbf
Greenwich	ddoff	fddofm	ddocdxf
Camden Square	od	od	*
Kensington	od	od	*
Hampstead	od	odbcx	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·4 Time 9·[illegible] 7th. Min. <0·1 Time 0·3h 8th.

Stations	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 % Yesterday	Humidity 9h % To-day
Kew	39	31	17	0·3	Tr	0·0	*	*
Croydon	40	31	26	3	0·2	0·0	*	*
Greenwich	39	29	23	1	0·3	0·0	96	95
Westminster	40	31	24	0·3			90	90
Regents Park	39	29	22	Tr	–		88	88
Camden Square	38	30	23	0·3	0·3	*	*	91
Kensington	40	30	18	Tr	0·1		92	90
Hampstead	37	28	23	0·1	0·1		*	85

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

SECRET

Saturday 9th January 1943.

No. 296.33.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18·9	+10	N	1	m	37	75	29	4	-	-	-	0	0	-
	Croydon ...	19·3	+10	-	0	bf	33	92	31	2	-	-	-	0	0	-
	S. Farnborough	19·5	+6	N	2	z_0	38	75	30	6	-	-	8	0	7-8	-
	Boscombe Down	19·3	+2	E'S	3	be	38	65	29	8	-	3	5	0	4-6	-
	Thorney Island	18·8	+12	NE	2	bc	39	65	26	7	-	3	1	0	4-6	-
	Lympne ...	18·6	+8	N	2	z_0	38	75	30	6	2	-	1	Tr	1	1800
	Manston ...	18·1	+12	NNE	3	z_0	38	85	33	6	2	-	-	4-6	7-8	2000
2	Shoeburyness ...	19·2	+4	NNW	2	z_0	38	75	32	5	-	1	-	0	1	-
	Felixstowe ...	18·7	+10	N'W	3	c-bc	39	75	32	7	8	-	1	4-6	7-8	4000
	Gorleston ...	18·9	+18	NNE	2	c-bc	38	75	29	7	8	-	-	7-8	7-8	1000
	Mildenhall ...	19·2	+14	-	0	z_0	35	92	33	5	8	-	1	2-3	2-3	4000
	Cranwell ...	19·2	+4	NW	1	z_0	35	75	28	5	-	-	1	0	1	-
3	Birmingham ...	19·0	+6	SE	2	m	35	85	31	4	-	-	1	0	2-3	-
	Upper Heyford	19·2	+6	-	0	z_0	39	75	30	6	-	-	6	0	7-8	-
4	Ross-on-Wye	18·9	•	E'N	1	z_0	34	75	28	5	-	-	6	0	4-6	-
5	Hartland Point	16·0	+6	SE	4	c	38	85	35	7	4	7	-	4-6	9	2500
	Bristol ...	19·6	+10	SE	1	z_0	36	85	32	5	-	3	2	0	9	-
	Portland Bill ...	18·7	+12	E	4	c	40	92	38	9	5	-	-	10	10	2500
	Plymouth ...	17·3	-6	E'S	3	c	41	92	39	7	5	7	-	9	10	3000
	The Lizard ...	15·4	-2	E	5	r_0r_0	43	97	43	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	13·8	-2	SE'E	5	c	46	97	46	6	5	2	-	9	10	800
	Guernsey ...															
6	Pembroke ...	16·7	0	SE	5	cq	41	75	35	8	5	2	-	9+	10	2500
7	Holyhead (Valley)	17·8	+2	SE'E	1	c	38	65	25	8	-	3	-	0	9	-
	Chester (Sealand)	18·5	0	ESE	2	bc/f	36	65	25	5	-	-	6	0	4-6	-
8	Manchester ...	19·2	+6	S	1	z_0	37	65	27	5	-	-	1	0	Tr	-
10	Spurn Head ...	19·0	+4	E'S	2	c	39	55	25	7	7	-	-	9+	9+	6200
	Catterick ...	20·0	+4	-	0	m/f	35	65	26	4	-	3	1	0	4-6	-
	Tynemouth ...	19·7	+6	W	2	cf	35	85	30	3	8	-	-	9+	9+	2100
11	St. Abbs Head	18·2	+6	SW	1	c-bc	37	85	33	7	5	4	-	4-6	7-8	2500
	Leuchars ...	18·5	+4	-	0	z_0	37	85	33	6	-	7	-	0	7-8	-
12	Renfrew (Abbots I.)	18·3	+2	NE	1	cf	29	97	29	2	-	3	-	0	10	-
	Eskdalemuir ...	19·1	+2	-	0	c-bc	30	75	23	8	-	7	6	0	7-8	-
	Point of Ayre ...	17·9	+8	S	4	c	40	32	75	7	5	7	-	1	9+	2500
13A	Tiree	13·5	-2	SSE	6	i_0r_0	41	75	33	8	7	7	-	7-8	10	2200
13B	Stornoway ...	15·8	-10	SSE	4	c-bc	39	75	31	9	-	7	-	0	7-8	-
15	Dalwhinnie ...	18·0	0	S	3	c	30	85	25	8	5	-	2	2-3	9	2500
	Aberdeen ...	19·0	+2	NW	2	m	31	85	27	4	5	-	-	9	9	5000
	Wick ...	18·6	+2	S	3	bc	38	65	28	9	-	3	1	0	4-6	-
16	Sumburgh	18·3	-2	ENE	1	prs	36	85	33	9	8	6	-	7-8	7-8	2500
17	Blacksod Point	10·2	-2	SE	4	c	44	92	42	7	5	-	-	9+	9+	2500
18	Malin Head ...	11·3	-10	S	5	bc	40	85	36	8	8	-	-	4-6	4-6	1500
	Aldergrove ...	15·8	-2	SSE	2	c	39	75	33	7	-	7	-	0	10	-
19	Birr Castle ...	12·7	+2	SE	4	c	42	85	38	8	9	2	-	7-8	10	2500
20	Valentia Obsy.	10·5	0	SE	4	c	51	92	49	8	5	7	-	9	9+	1500
	Roches Point	12·7	-2	ESE	5	i_0r_0	48	92	46	7	6	2	-	4-6	9+	1500

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

District	Stations	Barom. at M.S.L. mt. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	21·4	+14	NE'E	2	b-bcf	33	85	29	2	-	-	1	0	2-3	-	1	•
	Croydon ...	21·9	+10	-	0	bF-	30	97	30	1	-	-	-	0	0	-	3	•
	S. Farnborough	21·9	+18	-	0	bf+	31	92	30	3	-	-	-	0	0	-	1	•
	Boscombe Down	21·3	+10	E'N	3	z_0	31	85	27	6	-	4	-	0	2-3	-	1	•
	Thorney Island	21·0	+18	ENE	1	z_0	33	85	30	5	-	-	-	0	0	-	3	•
	Lympne ...	21·8	+22	NW	1	z_0	29	92	28	6	4	-	1	1	1	3000	3	§
	Manston ...	21·5	+18	NE	1	prs	35	92	35	5	5	-	-	10	10	1200	1	•
2	Shoeburyness ...	21·5	+16	NNW	2	z_0	31	85	28	5	-	4	-	0	Tr	-	3	•
	Felixstowe ...	21·5	+18	N'E	2	z_0	33	92	31	6	5	4	-	2-3	2-3	4000	1	2
	Gorleston ...	21·5	+14	E	2	bc	36	65	26	7	5	-	-	4-6	4-6	1500	0	3
	Mildenhall ...	21·5	+14	N'E	1	bf+	28			2	-	4	-	0	Tr	-	4	•
	Cranwell ...	21·3	+14	-	0	m	23	92	21	4	-	-	-	0	0	-	8	•
3	Birmingham ...	20·7	+8	SE	2	bf	32	85	29	3	-	-	-	0	0	-	4	•
	Upper Heyford	20·9	+14	NNE	1	m	32	92	30	4	-	-	8	0	4-6	-	3	•
4	Ross-on-Wye	20·3	+6	ESE	2	z_0	33	85	29	5	5	-	1	2-3	2-3	3000	1	•
5	Hartland Point	16·4	+6	E	4	c	40	92	37	6	5	-	-	9+	9+	2500	1	3
	Bristol ...	20·7	+6	SE	1	z_0	33	85	29	6	-	7	2	0	7-8	-	1	•
	Portland Bill ...	19·4	+6	E	4	c	42	85	35	7	5	-	-	10	10	2500	1	3
	Plymouth ...	18·6	+10	E'S	2	z_0	43	92	40	6	5	7	-	9	10	2000	1	1
	The Lizard ...	16·2	+6	E'S	5	d_0d_0	45	92	44	7	5	-	-	10	10	1000	1	4
	Scilly (St. Mary's)	14·2	+4	SE	5	d_0d_0	47	97	47	5	5	-	-	10	10	500	1	4
	Guernsey ...																	
6	Pembroke ...	17·2	+4	SE	6	c	46	85	39	7	5	2	-	7-8	10	2500	1	4
7	Holyhead (Valley)	17·0	-6	SSE	1	bc	35	75	26	8	5	-	-	4-6	4-6	5000	1	1
	Chester (Sealand)	18·9	-6	SE	1	m	30	85	27	4	-	-	1	0	Tr	-	3	•
8	Manchester ...	20·0	0	ESE	3	z_0	33	75	27	5	-	-	-	0	0	-	3	•
10	Spurn Head ...	21·2	+18	ESE	2	b-bc	38	55	24	7	4	4	-	2-3	2-3	4000	0	3
	Catterick ...	20·9	0	-	0	bf	21	97	21	3	-	3	-	0	Tr	-	8	•
	Tynemouth ...	20·3	0	SE	3	bf	34	85	31	3	-	-	-	0	0	-	3	3
11	St. Abbs Head	18·7	+2	SW	1	b-bc	31	85	28	7	5	-	-	2-3	2-3	4000	0	3
	Leuchars ...	18·5	+6	-	0	m	30	97	29	4	-	3	-	0	Tr	-	1	•
12	Renfrew (Abbots I.)	17·2	-8	E	1	bcf+	30	92	28	2	-	1	•	0	4-6	-	3	•
	Eskdalemuir ...	19·5	0	N	1	b	20	92	16	7	5	-	-	Tr	Tr	2100	8	•
	Point of Ayre ...	16·6	-4	S'E	6	c	40	85	35	7	5	-	-	9	9	2500	0	4
13A	Tiree	12·0	-12	SSE	7	c	43	75	36	7	4	2	-	9	10	2500	0	6
13B	Stornoway ...	13·2	-12	SE	6	c	40	75	32	8	5	7	-	4-6	9+	2800	3	3
15	Dalwhinnie ...	16·2	-4	S	3	b-bc	29	85	24	8	5	-	-	2-3	2-3	4000	8	•
	Aberdeen ...	18·5	0	WSW	1	b-bcf	29	92	27	2	5	-	-	2-3	2-3	5000	4	2
	Wick ...	18·4	-2	SE'S	4	bc	38	65	26	9	8	-	-	4-6	4-6	2000	3	•
16	Sumburgh	17·9	-2	ESE	2	bc	35	92	34	8	8	-	-	4-6	4-6	3000	8	2
17	Blacksod Point	06·6	-24	SE	5	i_0r_0	47	92	45	7	6	-	-	9+	9+	1500	1	4
18	Malin Head ...	09·0	-18	SE'S	5	c	39	85	45	8	8	2	-	4-6	10	1500	2	4
	Aldergrove ...	14·0	-12	SSE	3	c	40	85	35	7	5	2	-	9+	10	3000	1	•
19	Birr Castle ...	11·6	-16	SE	4	c	43	92	41	8	5	2	-	7-8	10	2500	1	•
20	Valentia Obsy.	09·3	-6	S'E	4	i_0r_0	51	92	49	8	5	2	-	7-8	10	1500	1	3
	Roches Point	11·6	-4	SSE	5	dd	49	97	48	5	5	-	-	10	10	450	1	5

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 8th (39)	13h.—18h. 8th (40)	18h. 8th to 1h. 9th (41)	1h.—7h. 9th (42)
1	London (Kew)	bfmx	cz_0bfx	bffx	$bffm_0x$
	Croydon ...	bfx	beFbfx	bfbmx	$bmbm_0x$
	S. Farnborough	bxm_0bez_0	$beez_0bf$	bfx	$bfmx$
	Boscombe Down	beebe	$cbcm_0bm_0$	bm_0bc	$bccm_0$
	Thorney Island	bm_0bc	bcm_0bm_0	bm_0	$bbcm_0b$
	Lympne ...	bex bxb	bm_0	bcm_0bx	bz
	Manston ...	bm_0bc	$bccm_0$	$bcbz_0$	$bz_0m_0z_0$
2	Shoeburyness ...	bm_0	bm_0	bm_0x	bm_0x
	Felixstowe ...	bcm_0b	$bcbcm_0$	bcm_0	bm_0
	Gorleston ...	cbso	cbc	bc	bcb
	Mildenhall ...	bcm_0	bcbbembf	bfx Fx	bFxbm_0x
	Cranwell ...	bm_0	bm_0bmx	bm_0Fx	oFcfx
3	Birmingham ...	fbm	bcmf	fb	bcz
	Upper Heyford	bm_0bcm_0	cz_0bcm_0	bcmbmbf	$bfbcm_0x$
4	Ross-on-Wye	bmfbcm	bcz	bczcz	c
5	Hartland Point	bcc	c	c	cprc
	Bristol ...	bcm_0xm_0	$cbccm_0$	cm_0bcz_0xba	$bm_0cm_0cm_0$
	Portland Bill ...	c	c	c	o
	Plymouth ...	cm_0id_0c	cir_0cm_0	$cz_0cd_0m_0$	$cd_0d_0m_0$
	The Lizard ...	$o_0r_0r_0$	cprdd	odd	odd
	Scilly (St. Mary's)	cid_0c	od_0d_0	oid_0r	idrrr
	Guernsey ...				
6	Pembroke ...	ccq	cpr_0	PRcq	cr_0r_0q
7	Holyhead (Valley)	cbcfcx	c	cir_0c	cm_0
	Chester (Sealand)	bfxbe	bcm_0m_0z	bm_0xmc	mxm_0c
8	Manchester ...	bmfxm	bcbz	bz_0bccm_0	$cbcm_0$
10	Spurn Head ...	c	bc	bcm_0	bc
	Catterick ...	bfxcmx	bcmxbfx	bfx oF	oFxof
	Tynemouth ...	bcmffc	beff	bffb	bbc
11	St. Abbs Head	$cbccm_0$	cm_0bcm_0	$bbcm_0$	osrs
	Leuchars ...	cm_0	bcm_0bmz	bm_0bcx	$om_0s_0s_0m_0$
12	Renfrew (Abbots I.)	ofx	ofxbcfx	ofx	$ofxis_0ir_0om$
	Eskdalemuir ...	bxbc	bcbx	bcm_0	cos_0s_0
	Point of Ayre ...	bbcc	c	bpr_0c	r_0r_0 PR
13A	Tiree	cer_0r_0c	ir_0c	cor_0r_0	or_0r_0c
13B	Stornoway ...	bbcc	cbcc	$cbccr_0r_0$	c
15	Dalwhinnie ...	c	cbc		bco
	Aberdeen ...	bzxcz	czbcff	$bffbcz_0$	cz_0
	Wick ...	c	bc	bcbbc	bcc
16	Sumburgh	bcprs.	$bcpr_0sbc$	$cpsh\ pr_0c$	bcc
17	Blacksod Point	c	r	b	c
18	Malin Head ...	pr	c	r	c
	Aldergrove ...	c	c	$cbccr_0r_0m_0$	cm_0
19	Birr Castle ...	c	c	•	r
20	Valentia Obsy.	c	r	r	r
	Roches Point	r	d	d	d

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 9th January

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate or fresh southeast wind, strong on coasts, veering slowly; fair at first, sleet or snow later changing to rain: becoming milder.
4 W. Midlands 5 S.W. England ↓ South Wales ↓ 7 North Wales ↓ 8 N.W. England ↓ 9 N. Midlands ...	Fresh southeast wind, strong to gale on coasts, veering slowly and decreasing; some rain; becoming milder.
10 N.E. England 11 S.E. Scotland	Moderate or fresh southeast wind, strong to gale locally on coast; light sleet or snow at first, rain later; becoming milder.
12 S.W. Scotland & Isle of Man ↓ 13A W. Scotland ... ↓ 13B N.W. Scotland ↓ 14 Mid Scotland	As 4-9
15 N.E. Scotland ↓	Fresh or strong southeast wind, gale locally; wintry showers, rain later: cold.
16 Orkneys and Shetlands ↓	
17 N.W. Ireland ↓ 18 N.E. Ireland ↓ 19 S.E. Ireland ↓ 20 S.W. Ireland ↓	As 4-9.

GENERAL INFERENCE

A vigorous trough of low pressure off West Ireland is moving east. Rain in the North and West will spread slowly east. In the East weather will be fine at first but light sleet or snow will occur later changing to rain. Milder conditions are expected to spread slowly from the West.

FURTHER OUTLOOK

Unsettled; milder than of late.

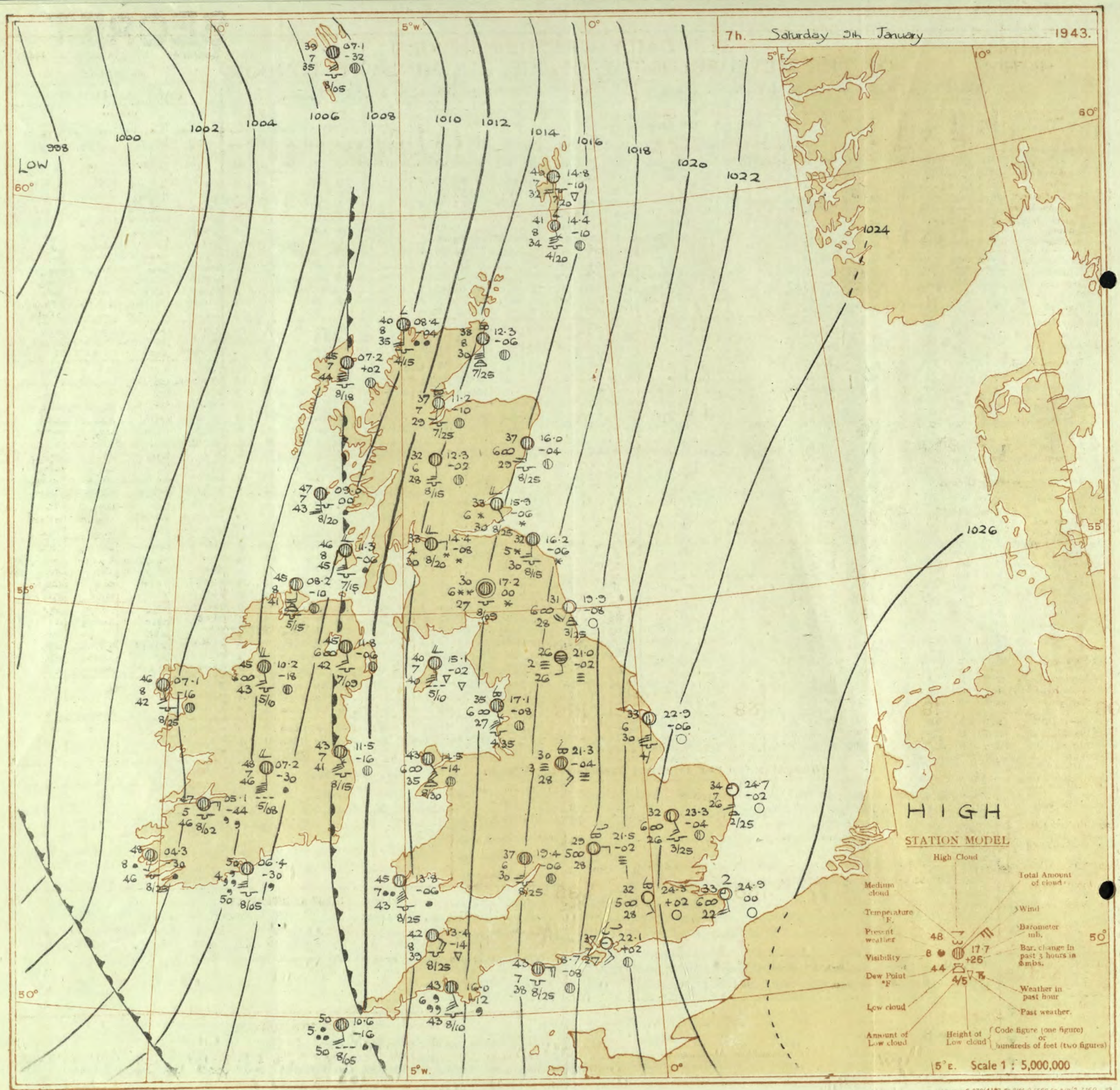
↓ Gale warning in operation in districts 5, 6, 7, 8, 12, 13A, 13B, 15, 16, 17, 18, 19 & 20. Times of issue 1410 8th January 1943, and 0930 9th January 1943.

Forecasts issued at 10·30

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

Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Saturday 9th January 1943.



H.M.S.O. Press, M.O., Dunstable

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

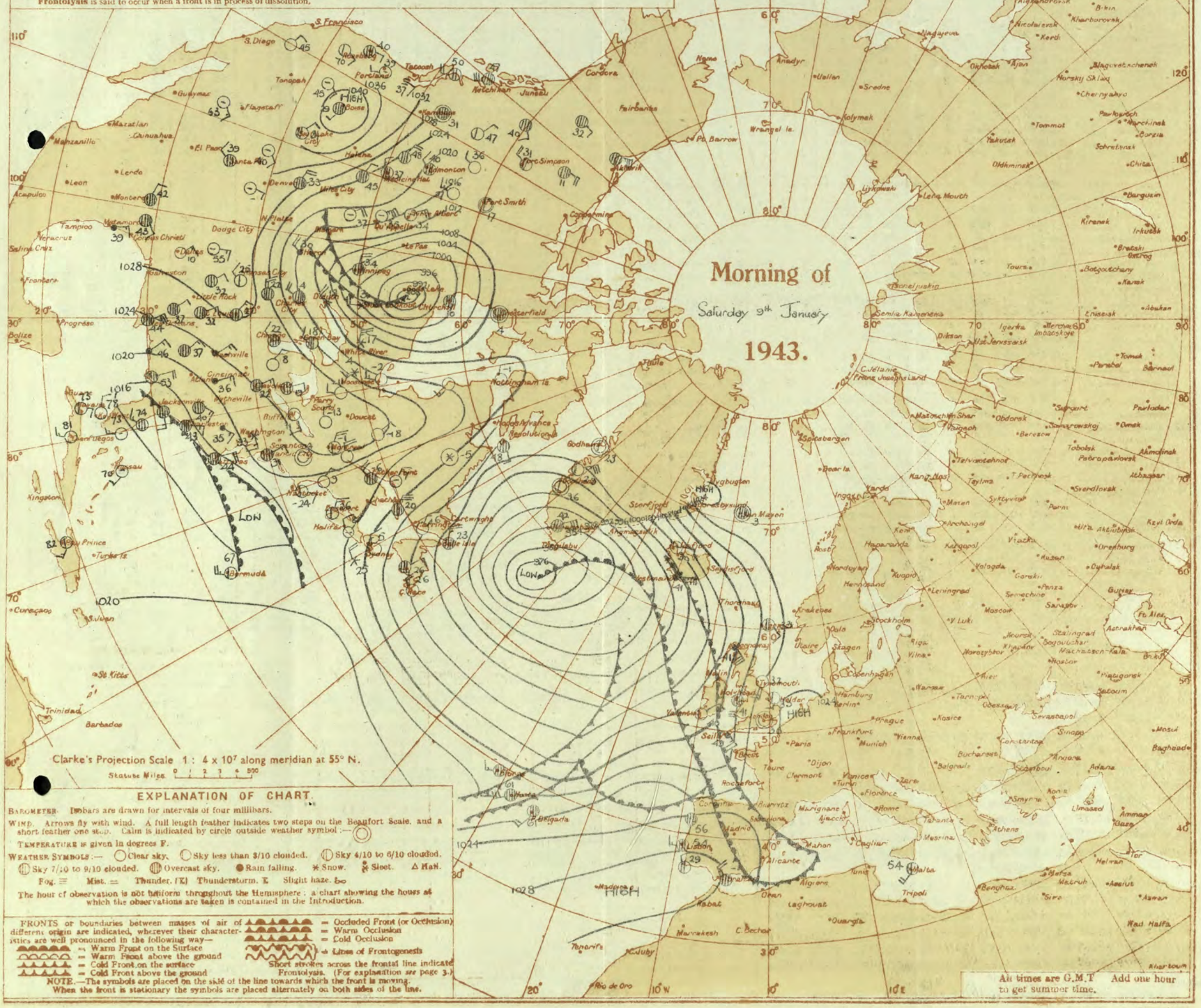
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday 9th January 1943

No. 29633.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	29	*	*	*	*	*	*	*	*	*
	Croydon	290	23·6	+6	–	0	mf	30	85	28	4	–	–	–	0	0	–
	S. Farnborough	226	23·2	+6	–	0	bf	28	87	28	2	–	–	–	0	0	–
	Boscombe Down	417	21·8	-2	E'S	3	z_0	28	92	28	6	–	3	6	0	7-8	–
	Thorney Island	10	22·2	+2	E'S	2	z_0	34	85	31	6	5	–	–	2-3	2-3	2500
	Lympne	283	24·4	+14	SSE	2	b	32	75	25	7	–	–	–	0	0	–
	Manston	154	24·5	+10	S	3	z_0	31	92	28	6	–	–	–	0	0	–
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	23·8	+12	S	4	z_0	36	85	32	6	–	–	–	0	0	–
	Gorleston	5	23·9	+10	SW'S	2	bc	34	75	25	7	8	–	–	4-6	4-6	1500
	Mildenhall	15	23·5	+8	N'E	1	bf	25	97	25	2	–	–	–	0	0	–
	Cranwell	203	23·0	+8	S'E	3	bf+	23	97	23	1	–	–	–	0	0	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	22·4	+6	E	1	bf+	28	97	28	2	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	15·0	-8	SE	5	c	42	65	32	7	5	–	–	9+	9+	2500
	Bristol	209	20·5	-4	SE'S	3	m	34	85	29	4	–	4	–	0	1	–
	Portland Bill	32	20·1	+2	E	5	o	43	75	37	7	3	–	–	10	10	2500
	Plymouth	82	18·4	-2	ESE	4	d_0d_0	43	97	43	6	5	–	–	10	10	1500
	The Lizard	240	15·4	-2	ESE	5	dd	47	97	47	7	5	–	–	10	10	1000
	Scilly (St. Mary's)	163	13·5	-6	SE'S	5	dr	49	97	49	5	5	–	–	10	10	800
	Guernsey	175															
6	Pembroke	142	16·2	0	SSE	7	oq	45	85	39	7	5	–	–	10	10	2500
7	Holyhead (Valley)	32	16·0	-4	S	5	o/r	41	75	36	6	5	–	–	10	10	3000
	Chester (Sealand)	16	18·8	0	S	4	m	33	85	30	4	–	–	7	0	10	–
8	Manchester	235	20·8	+6	SE'E	4	z_0	33	85	30	5	–	7	2	0	4-6	–
10	Spurn Head	29	23·0	+8	S	3	z_0	33	85	28	6	4	–	–	1	1	4000
	Catterick	175	22·1	+6	S	2	f	23	97	22	0	–	–	–	10	10	1150
	Tynemouth	108	21·1	+4	S	4	z_0	32	75	26	6	–	–	–	0	0	–
11	St. Abbs Head	280	18·0	+2	S	3	b-bc	30	85	27	7	5	–	–	2-3	2-3	4000
	Leuchars	36	17·8	-4	SSE	2	z_0	32	75	27	6	–	–	7	0	10	–
12	Renfrew (Abbots I.)	19	16·3	-10	SSE	2	of	36	85	31	3	5	–	–	10	10	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	15·8	-4	S'E	6	c	38	85	34	7	6	2	1	7-8	10	2000
13A	Tiree	44	09·4	-6	SSE	7	r_0r_0	43	92	41	7	5	–	–	10	10	1000
13B	Stornoway	15	09·9	-22	SE	6	rr	41	92	39	7	5	–	–	10	10	1600
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	17·5	-2	SSW	3	z_0	33	85	30	6	–	7	6	0	7-8	–
	Wick	114	14·9	-14	SSE	6	b-bc	37	65	26	8	2	–	–	2-3	2-3	2500
16	Sumburgh	19	17·3	-2	SE	4	c	39	65	27	8	8	–	–	9+	9+	2500
17	Blacksod Point	18	08·6	+16	SW'S	3	b	48	85	44	8	5	–	–	1	1	2500
18	Malin Head	84	08·6	+2	S'E	5	i_0	44	97	43	8	8	2	–	7-8	9+	1500
	Aldergrove	268	12·9	-6	SSE	4	o/r	44	92	41	6	5	–	–	10	10	1600
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	10·3	-2	NE'E	1	b-bc	40	97	39	7	5	–	–	2-3	2-3	4000
	Rcches Point	22	10·7	-6	S'W	3	dd	50	97	49	5	5	–	–	10	10	450

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
1	London (Kew)	23·3	-2	SE'E	3	z_0	32	75	27	6	5	–	5	Tr	1	4000	3	*
	Croydon	24·3	+2	SE	2	z_0	32	85	28	5	–	7	–	0	2-3	–	3	*
	S. Farnborough	22·6	0	ESE	3	mf	31	85	28	4	5	–	–	Tr	Tr	2500	3	*
	Boscombe Down	20·7	-4	SE	5	z_0	36	75	28	6	5	7	6	4-6	7-8	3000	0	*
	Thorney Island	22·1	+2	SE	4	b	37	65	27	7	–	4	1	0	Tr	–	3	*
	Lympne	24·7	-2	SE	4	b-bc	32	65	20	8	–	3	–	0	2-3	–	3	4
	Manston	24·9	0	S'E	4	z_0	33	65	22	6	–	–	6	0	1	–	1	*
2	Shoeburyness	24·6	0	SE	5	z_0	34	65	26	6	–	5	–	0	2-3	–	3	*
	Felixstowe	24·5	-2	S'E	5	z_0	35	65	26	6	–	7	–	0	1	–	3	4
	Gorleston	24·7	-2	S	3	b	34	75	26	7	1	–	–	1	1	2500	3	2
	Mildenhall	23·3	-4	SE'S	3	z_0	32	75	26	6	5	–	–	2-3	2-3	2500	3	*
	Cranwell	22·0	-10	SSE	3	b-bcf-	25	97	25	3	5	–	–	2-3	2-3	4000	8	*
3	Birmingham	20·5	-4	SSE	3	z_0	32	92	30	5	–	3	–	0	9+	–	4	*
	Upper Heyford	21·5	-2	E	1	z_0	29	97	28	5	–	7	1	0	4-6	–	3	*
4	Ross-on-Wye	19·4	-6	S	3	c	37	75	30	6	5	–	–	10	10	2500	1	*
5	Hartland Point	13·4	-14	ESE	4	c	42	92	50	8	5	–	–	10	10	2500	1	4
	Bristol	19·5	-2	SE	4	z_0	39	55	26	6	5	–	–	9+	9+	3800	3	*
	Portland Bill	18·7	-8	E	5	o	43	75	38	7	5	–	–	10	10	2500	1	5
	Plymouth	16·0	-12	SE	5	dd	43	97	43	6	5	–	–	10	10	1000	1	3
	The Lizard	12·9	-14	SE	6	dd	47	97	47	6	5	–	–	10	10	1000	1	5
	Scilly (St. Mary's)	10·6	-16	SE'S	4	rr	50	97	50	5	6	–	–	10	10	450	1	4
	Guernsey																	
6	Pembroke	13·8	-6	SSE	7	r_0r_0	46	92	43	7	5	–	–	10	10	2500	1	4
7	Holyhead (Valley)	14·5	-14	SSE	5	z_0	43	75	35	6	8	–	–	10	10	3000	1	3
	Chester (Sealand)	17·1	-10	SSE	3	c-bc	33	85	30	5	–	7	8	0	7-8	–	3	*
8	Manchester	18·5	-14	SE'E	4	z_0	35	75	29	5	5	–	–	2-3	2-3	5700	3	*
10	Spurn Head	22·9	-6	S	5	bc	33	85	30	6	5	–	–	4-6	4-6	4000	0	4
	Catterick	21·0	-2	S	2	f	26	97	26	2	–	–	–	10	10	1150	8	*
	Tynemouth	19·9	-8	SSW	4	z_0	31	85	28	6	2	–	–	2-3	2-3	2500	3	3
11	St. Abbs Head	16·2	-6	S	3	S	32	92	30	5	5	–	–	10	10	1500	1	3
	Leuchars	15·9	-6	SSE	1	i_0	33	85	30	6	–	2	–	10	10	2500	4	*
12	Renfrew (Abbots I.)	14·4	-8	E'N	2	m/s	33	85	30	4	–	2	–	10	10	2000	8	*
	Eskdalemuir	17·2	0	–	0	s_0s_0	30	85	27	6	5	–	–	10	10	900	8	*
	Point of Ayre	15·1	+2	S'E	5	c/ps	40	97	40	7	6	2	–	7-8	10	1000	1	4
13A	Tiree	09·0	0	S	5	c	47	85	43	7	5	–	–	10	10	2000	1	5
13B	Stornoway	07·2	+2	S	8	c	45	97	44	7	5	–	–	10	10	1800	1	6
15	Dalwhinnie	12·3	-2	S	3	o	32	85	28	6	5	–	–	10	10	1500	8	*
	Aberdeen †	16·0	-4	SSW	4	z_0	37	75	29	6	5	–	–	10	10	2500	4	3
	Wick	12·3	-6	S'E	6	c	38	75	30	8	2	7	–	2-3	9+	2500	3	*
16	Sumburgh	14·4	-10	SSE	6	c	41	75	34	8	5	1	–	4-6	10	2000	6	3
17	Blacksod Point	07·1	-16	SSE	3	c	46	85	42	8	5	–	–	10	10	2500	1	3
18	Malin Head	08·2	-10	S	4	c-bc	45	85	41	8	8	–	–	7-8	7-8	1500	2	4
	Aldergrove	11·8	-6	SSE	3	z_0	45	92	42	6	5	–	–	9+	10	900	1	*
19	Birr Castle	07·2	-30	S	4	c	48	92	46	7	6	2	–	7-8	10	800	1	*
20	Valentia Obsy.	04·3	-30	SW'S	1	i_0	48	92	46	8	5	–	–	10	10	2500	1	2
	Rcches Point	06·4	-30	S	5	DD	50	97	50	4	5	–	–	10	10	450	1	5

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F. (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 8th Hrs. (38)
1	London (Kew)	38	28	14	Tr	–	2·4
	Croydon	33	26	19	–	Tr	0·0
	S. Farnborough	40	27	18	–	–	4·9
	Boscombe Down	38	28	23	–	–	6·5
	Thorney Island	41	30	22	–	–	*
	Lympne	38	29	19	–	–	6·5
	Manston	39	30	25	0·5	–	4·7
2	Shoeburyness	38	27	18	–	–	6·4
	Felixstowe	40	32	29	–	–	5·8
	Gorleston	38	33	28	1	–	1·8
	Mildenhall	37	21	18	–	Tr	4·3
	Cranwell	37	23	12	Tr	–	6·4
3	Birmingham	36	29	20	–	–	1·7
	Upper Heyford	40	27	23	–	–	*
4	Ross-on-Wye	38	32	25	–	–	5·0
5	Hartland Point	40	39	38	–	0·1	0·1
	Bristol	38	33	28	Tr	–	1·9
	Portland Bill	42	38	*	–	–	*
	Plymouth	43	42	41	Tr	1	0·0
	The Lizard	46	44	*	1	1	0·0
	Scilly (St. Mary's)	47	47	*	0·4	6	0·0
	Guernsey						
6	Pembroke	43	*	*	Tr	2	0·0
7	Holyhead (Valley)	40	34	32	–	0·2	*
	Chester (Sealand)	36	31	25	–	–	2·0
8	Manchester	40	32	26	–	–	*
10	Spurn Head	40	32	*	–	–	3·7
	Catterick	36	18	13	–	Tr	3·6
	Tynemouth	38	30	28	–	–	*
11	St. Abbs Head	38	28	*	–	Tr	*
	Leuchars	37	30	17	Tr	0·1	0·4
12	Renfrew (Abbots I.)	35	30		–	0·1	0·0
	Eskdalemuir	32	18	9	–	0·1	4·0
	Point of Ayre	41	39	*	–	1	1·1
13A	Tiree	43		4	Tr	1	0·0
13B	Stornoway	40	39	37	–	1	0·2
15	Dalwhinnie	31	25	24	–	–	0·9
	Aberdeen †	31	28	20	–	–	0·0
	Wick	39	35	33	–	–	*
16	Sumburgh	38	35	27	0·4	0·1	1·0
17	Blacksod Point	47	45	*	Tr	1	*
18	Malin Head	41	39		0·3	0·1	1·5
	Aldergrove	40	39	38	*	1	0·0
19	Birr Castle	43	43	41	–	0·4	0·0
20	Valentia Obsy.	53	40	35	0·1	1	0·1
	Rcches Point	49	48	*	1	3	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 8th January				01h. G.M.T. 9th January				07h. G.M.T.			
III	$C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN
109	86	10854	10114	5-	02664	15324	00	05690	47410	52	22656	43558
115	53	02954	12325	54	01964	16326	54	01964	12314	51	22844	16467
203	5-	02847	12427									
206	03	05790	00025	40	01892	00012	50	05663	00013	57	02754	17228
210	5-	01871	10214	5-	01761	12111	07	02890	14215	57	05665	48528
220	57	02655	15567	52	02645	16528				52	02745	11568
230	53	05784	00024	52	05654	12328	62	24547	14378	5-	68648	14278
245	5-	02767	24127	54	05654	00024	00	05690	17315	52	72635	16178
260	03	47290	00025	00	05590	28112	57	05665	00017	5-	69449	00078
278	87	02852	14327	52	02767	13328	02	62648	45468	02	52538	45568
279	03	05590	05113	04	05690	15113	02	08490	09208	57	21653	07158
285				53	01743	02214						
288	03	08490	00047	00	00790	12200	00	43390	13244	04	05590	14344
575	62	05636	14357	52	05646	16328	50	01842	16362	01	02890	00028
301	03	45390	10146	00	44390	12145	01	08490	12528	57	05664	48517
321	04	08490	31143	04	45390	16113	00	45390	14240	50	47252	15342
2.)	70	01754	04214	50	01753	02113	50	01752	20412	50	01764	18414
292	00	08490	00024	00	47390	00043	00	43190	00040	00	05690	12210
310												
614	04	45390	06111	00	45390	04114	05	41489	14144	07	08490	16224

13h. G.M.T. 8th January				01h. G.M.T. 9th January				07h. G.M.T.			
III	$C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN	$C_L C_M$	wwVhN_h	DDFWN
333	07	02990	14426	53	02885	48527	52	22765	12566	62	62545	14368
334	--	01781	04103	--	02745	04216				--	02546	32217
340	00	08490	00042	00	45390	12303	01	41490	15315	07	02690	15324
136	80	02765	00095	50	05662	08122	50	05554	12214	50	05664	16214
336										--	62409	20369
350	04	05590	00014	00	47390	00012	00	45290	00040	04	41490	14243
368	53	05563	06225	57	05664	08428	54	05575	10425	52	05656	43428
379	03	05590	06115	00	05590	10115	00	47390	12215	04	05590	12344
390	00	05690	32203	00	47390	00073	00	43190	00040	00	47390	14243
882	00	05590	00015	07	08490	00024	00	45390	12144	07	08490	12343
438	03	05690	02213	50	05553	02313	50	01653	14413	50	01753	12413
430	00	01790	04313	00	08490	04210	5-	05656	08216	04	05690	14412
409	52	51764	12558	52	02755	13528	5-	52638	13658	5-	52628	13558

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 9th January
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	bfmx	$c2_0bfx$	bffx
Croydon	bfx	bcfbfx	$bfbm_0x$
Greenwich	bxf	bbcbxm_0	bxm_0
Camden Square	c	c	*
Kensington	bc	bc	*
Hampstead	bc	bc	bcf

Atmospheric Pollution, Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 1·4 Time 17-18 8th. Min. 10·1 Time 5h. 9th.

Stations.	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 % Yesterday	Humidity 9h % Today
Kew	38	28	14	Tr	–	2·4	*	*
Croydon	33	26	19	–	Tr	0·0	*	*
Greenwich	37	26	16	–	–	2·6	76	77
Westminster	38	31	22	–			84	83
Regents Park	37	29	22	–	–		75	73
Camden Square	39	29	23	–	–	*	*	89
Kensington	39	28	16	–	–			92
Hampstead	36	29	23	–	–		*	87

SECRET

Page 1 BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Sunday 10th January 1943. No. 29634

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	20.8	-20	SE'S	4	z.	34	75	28	6	7	2	5	2-3	9+	800
	Croydon	22.0	-10	SE	2	c-bc	33	92	32	6	5	-	6	4-6	7-8	1500
	S. Farnborough	19.9	-26	SE	4	z.	35	75	28	6	7	7	8	1	9	2500
	Boscombe Down	18.1	-38	SE	6	c	37	75	30	7	-	4	8	0	9+	-
	Thorney Island	19.9	-12	SE'E	4	z.	38	75	31	6	5	3	-	7-8	9+	4000
	Lympne	23.3	-22	SE	4	z.	31	85	28	6	5	-	7	4-6	10	400
	Manston	23.2	-2	S'E	5	c	33	65	23	8	-	-	7	0	10	-
2	Shoeburyness	23.4	-8	SE	4	z.	34	92	32	6	-	-	2	0	7-8	-
	Felixstowe	23.7	-2	SSE	6	c	37	65	25	8	-	7	6	0	9+	-
	Gorleston	23.3	-14	SSE	6	bc	37	75	27	7	8	-	-	4-6	4-6	2500
	Mildenhall	21.5	-20	SSE	5	bcq	35	65	26	8	-	-	2	0	4-6	-
	Cranwell	20.2	-24	SSE	4	z.	32	75	25	6	-	-	2	0	7-8	-
3	Birmingham	17.6	-18	SSE	4	z.	33	97	32	6	-	7	-	0	9+	-
	Upper Heyford	19.0	-24	SE	4	c	33	85	28	7	-	4	8	0	9	-
4	Ross-on-Wye	16.5	-24	S'E	3	c	39	65	29	8	-	7	8	0	9+	-
5	Hartland Point	09.4	-34	ESE	5	c	44	85	41	7	4	7	-	2-3	9+	2000
	Bristol	16.6	-22	SE	4	c	40	65	29	8	5	7	-	1	9+	4000
	Portland Bill	17.0	-16	E	5	o	42	92	40	7	5	-	-	10	10	2500
	Plymouth	13.1	-26	SE	5	c/r	44	97	44	6	5	-	-	10	10	1000
	The Lizard	10.2	-20	SE	5	r.r.	49	97	49	6	5	-	-	10	10	1000
	Scilly (St. Mary's)	09.0	-18	SE	4	rf	52	97	52	2	-	-	-	10	10	<150
	Guernsey															
6	Pembroke	09.2	-28	SE	8	ir	44	97	43	7	8	2	-	7-8	10	1500
7	Holyhead (Valley)	10.4	-30	SSE	4	ir.	44	75	37	8	5	7	-	4-6	9+	3000
	Chester (Sealand)	14.8	-18	SE'S	4	c-bc	37	75	30	7	5	9	8	Tr	7-8	5000
8	Manchester	16.5	-22	SE'E	6	c	35	75	26	7	5	7	-	4-6	9+	4500
10	Spurn Head	20.6	-20	S	6	bc	36	65	24	7	4	3	1	2-3	4-6	2500
	Catterick	18.4	-20	S'W	3	z.	31	85	28	5	-	7	-	0	9	-
	Tynemouth	18.4	-12	SW	4	z.	32	85	28	5	5	3	-	4-6	4-6	2500
11	St. Abbs Head	14.3	-14	SE	3	c	35	92	32	6	5	-	-	9+	9+	2500
	Leuchars	14.0	-18	W	2	m	37	85	31	4	5	2	-	9	10	2500
12	Renfrew (Abbots I.)	12.3	-20	E'N	2	ir.	36	85	33	4	5	2	-	9	10	2000
	Eskdalemuir	14.4	-18	SSE	3	c	34	75	27	6	5	7	1	2-3	9+	900
	Point of Ayre	11.8	-22	S'E	6	DD	40	97	40	6	6	2	-	7-8	10	800
13A	Tiree	07.1	-24	SSE	5	c/r	43	97	41	5	5	-	-	10	10	500
13B	Stornoway	08.2	+2	SSW	6	z.	45	97	45	6	5	7	-	7-8	9+	1400
15	Dalwhinnie	11.5	-2	SSW	2	o	33	85	29	6	5	-	-	10	10	1500
	Aberdeen	14.6	-6	S	2	m	39	85	35	4	5	7	-	4-6	10	2500
	Wick	12.2	-2	S'E	5	z.	40	85	36	6	5	7	-	2-3	9+	3500
16	Sumburgh	13.3	-8	SSE	5	c/r	42	92	40	7	5	1	-	7-8	10	1500
17	Blacksod Point	96.0	-70	SE'E	5	RR	49	92	47	7	6	2	-	2-3	10	800
18	Malin Head	04.0	-34	S'E	4	r.r.	44	85	40	7	8	2	-	7-8	10	1500
	Aldergrove	07.4	-40	SSE	4	d.d.	43	85	39	7	5	2	-	9+	10	400
19	Birr Castle	01.2	-38	S	5	ir	48	92	46	7	6	2	-	7-8	10	800
20	Valentia Obsy.	97.5	-28	S'W	5	iR	53	92	51	6	6	-	-	10	10	800
	Roches Point	01.4	-26	S	6	DD	51	97	50	4	5	-	-	10	10	220

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	16.7	-26	SE	3	z.	32	85	28	5	-	1	-	0	1	-	3	*
Croydon	19.3	-10	SE	3	z.	31	92	29	6	5	-	-	1	1	1500	3	*
S. Farnborough	16.1	-14	SE'E	4	z.	33	85	29	6	5	7	-	4-6	7-8	1600	3	*
Boscombe Down	14.4	-24	SE'E	6	c	35	92	32	7	5	3	7	4-6	9+	1500	0	*
Thorney Island	15.9	-26	SSE	4	z.	37	75	31	6	5	-	-	10	10	3200	0	*
Lympne	20.0	-16	SE	4	z.	31	85	27	6	5	-	8	2-3	9	400	3	§ 5
Manston	20.1	-14	SSE	5	bc	31	75	25	7	-	3	8	0	4-6	-	3	*
Shoeburyness	19.6	-12	SE	5	z.	32	85	28	6	-	4	1	0	2-3	-	3	*
Felixstowe	20.7	-18	SSE	6	z.	34	75	26	6	-	4	2	0	4-6	-	3	5
Gorleston	20.5	-10	SE'S	6	b-bc	35	75	28	7	-	4	-	0	2-3	-	3	5
Mildenhall	18.2	-18	SE'S	4	z.	31	92	30	6	-	-	2	0	7-8	-	3	*
Cranwell	16.4	-20	SSW	4	z.	29	85	26	6	-	-	6	0	4-6	-	8	*
Birmingham	13.2	-24	SSE	4	z.	32	92	30	5	6	-	-	10	10	1500	4	*
Upper Heyford	15.6	-16	SE'S	4	z.	31	97	29	5	-	7	8	0	7-8	-	3	*
Ross-on-Wye	12.1	-24	SE	3	c	37	85	32	7	5	-	-	10	10	2500	1	*
Hartland Point	06.1	-20	SE	5	c/r	43	97	42	6	5	2	-	4-6	9+	1500	1	5
Bristol	11.9	-32	ESE	4	z.	37	85	33	6	5	7	-	7-8	10	1200	1	*
Portland Bill	12.0	-22	E	5	o	41	92	39	7	5	-	-	10	10	2500	1	5
Plymouth	08.8	-16	SE	4	d.d.	47	97	46	5	5	-	-	10	10	500	1	3
The Lizard	06.4	-12	S	5	r.r.	52	97	52	7	5	-	-	10	10	800	1	5
Scilly (St. Mary's)	04.6	-14	SSE	4	cjp	52	97	52	6	5	-	-	10	10	800	1	5
Guernsey																	
Pembroke	05.1	-20	SE	7	rr	45	97	45	5	6	-	-	10	10	1500	7	5
Holyhead (Valley)	03.8	-18	SSE	6	r.r.	43	85	39	7	5	-	-	10	10	3500	1	3
Chester (Sealand)	09.5	-22	SE	4	c	36	75	28	6	5	7	-	4-6	10	3500	3	*
Manchester	12.0	-22	ESE	5	z.	34	75	28	6	5	7	-	7-8	10	5100	3	*
Spurn Head	17.8	-10	SSE	6	b-bc	36	75	27	7	4	-	-	2-3	2-3	2500	0	4
Catterick	14.1	-10	SSE	5	z.	30	85	26	5	5	7	-	4-6	9+	3000	8	*
Tynemouth	14.6	-12	S	6	c-bc	35	92	33	6	5	-	-	7-8	7-8	2500	3	3
St. Abbs Head	09.5	-28	SSE	5	z.	33	85	29	5	5	-	-	9+	9+	2500	0	4
Leuchars	09.2	-30	SE	4	ir	36	85	31	5	5	2	-	7-8	10	2900	1	
Renfrew (Abbots I.)	06.1	-34	E'S	4	sh	38	75	30	4	6	2	-	9	10	1000	1	*
Eskdalemuir	08.8	-22	SE	3	o	35	75	26	6	5	-	-	10	10	900	8	*
Point of Ayre	04.9	-40	SSW	5	rr	38	97	38	6	6	2	-	7-8	10	1000	1	6
Tiree	99.1	-46	SE	7	rr	40	92	37	5	6	-	-	10	10	600	1	6
Stornoway	02.5	-30	E	5	rr	44	97	44	6	5	-	-	10	10	2000	1	3
Dalwhinnie	05.0	-56	SSE	5	c	33	85	29	6	5	-	-	9+	9+	1500	4	
Aberdeen	10.6	-24	S'W	5	m	39	75	32	4	5	7	-	4-6	10	2500	1	3
Wick	09.5	-16	S'E	5	z.	42	85	37	6	5	7	-	2-3	10	3000	1	*
Sumburgh	11.0	-14	S'E	5	z.	44	92	42	6	5	1	-	7-8	10	1800	4	4
Blacksod Point	90.8	-20	SW	6	c/r	51	85	47	7	6	-	-	9+	9+	1500	2	5
Malin Head	95.7	-40	SE'S	6	r.r.	43	85	49	7	8	2	-	7-8	10	1500	2	4
Aldergrove	99.7	-34	SE'S	6	c/r	43	92	41	6	6	2	-	9+	10	900	1	*
Birr Castle	96.4	-18	SSW	2	ir	51	92	49	7	6	2	-	7-8	10	800	1	*
Valentia Obsy.	96.9	+14	SW'W	4	ir	48	92	46	7	6	-	-	9+	9+	1500	1	4
Roches Point	97.9	-18	SSW	5	c/r	51	97	50	7	5	-	-	9	9	800	1	5

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 9th (39)	13h.—18h. 9th (40)	18h. 9th to 1h. 10th (41)	1h.–7h. 10th (42)
London (Kew)	b,cm.x	bcbcm.x	crm.	rrcrm.
Croydon	bm.bcm.x	bcm.cm.x	r	rrsrrr
S. Farnborough	bmm.cxz.	cz.m.	cmirrir	cmirrrm
Boscombe Down	c	c	crrcrrm	cdd.mF
Thorney Island	bbccm.	cm.	cmorr	orrcm
Lympne	bbccx⊕	am.x	bcmx	cmrsm
Manston	czov	cvc	bbm.	cmrsRm
Shoeburyness	bcbcm.	bcm.bm.	m.	cmirrrx
Felixstowe	cbcc	cbcm.	bcmbmbcm	rsss
Gorleston	bc	bc	bq	bccpr
Mildenhall	bcz.cbc	bccbcm.	bc	ccrsm
Cranwell	cm.bcm.x	cmx	bcmorsx	rsrr
Birmingham	cz	coz	orr	rrsof
Upper Heyford	bgcm.xc	ccm.	irrrcm	rrrrcm
Ross-on-Wye	c	c	cdor	prom
Hartland Point	cprc	cr.c	crirrr	cbccpr
Bristol	cz.c	ccm.	cmcmriirR	cmiR
Portland Bill	o	o		cbc
Plymouth	cddir.m.	cmr.r.	cddcbcm.	bcbm.
The Lizard	oddrr	rrfrr	c	cbc
Scilly (St. Mary's)	oirrf	circ	cirbc	bcbbc
Guernsey				
Pembroke	cdirq	cirrqm.	cqbc	bc
Holyhead (Valley)	cir.c	cir.	crrmc	cmcb
Chester (Sealand)	cm.z.	cz.	ldrrmc	mrridba
Manchester	cr.c	ccz.	rrm	rrrr
Spurn Head	bc	bc	c	oss
Catterick	ofxbcmx	cm.x	cmxcshm	cshossrm
Tynemouth	bcm.	bcm.c	coq	ois.q
St. Abbs Head	cm.	cm.	cmors	orso
Leuchars	ois.m.m	cmirm.	crrcphrcshm	cshmcm
Renfrew (Abbots I.)	cfcmir.d.d.	cfr.r.sh	rrRRcfshcm	cfrscfcmpR
Eskdalemuir	So cis.	coz.	cirrh	rhs
Point of Ayre	prDD	Dirrr	srr	rrd
Tiree	cir.c	r.r.rrm.	rrrdr	orrm prpr
Stornoway	cr.r.cm.	ccir.m.	crrmc	ccirmc
Dalwhinnie	o	oir.c		coise
Aberdeen	cz.z	czz	dczrrm	rrrm.
Wick	cm.	cm.	circrrcm	circmc
Sumburgh	ir.c	cm.	cm.	q cir.
Blacksod Point	r	r	r	bc
Malin Head	r	r	r	r
Aldergrove	cd.d.m.	d.d.r.r.c	cmcmircm	cbcmcbcb
Birr Castle	r	r	*	bc
Valentia Obsy.	r	r	pr	pr
Roches Point	d	r	bc	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 10th January 1943.

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands	Light south wind freshening later, strong locally on coasts, mist or fog at first; rain later; much milder.
5 S.W. England, 6 South Wales, 7 North Wales ↓, 8 N.W. England ↓	Freshening south wind, strong or gale on coasts later; mainly fair at first; rain later; mild.
9 N. Midlands, 10 N.E. England, 11 S.E. Scotland	As 1-4
12 S.W. Scotland & Isle of Man ↓, 13A W. Scotland ↓, 13B N.W. Scotland ↓, 14 Mid Scotland, 15 N.E. Scotland ↓	Freshening south winds becoming strong to gale, severe gale locally; fair at first; rain later; mild.
16 Orkneys and Shetlands ↓	Wind south strong to gale, severe gale later; cloudy, occasional rain; mild.
17 N.W. Ireland ↓, 18 N.E. Ireland ↓, 19 S.E. Ireland ↓, 20 S.W. Ireland ↓	Fresh or strong south wind, gale at exposed places later, veering Southwest; rain at first; bright intervals and showers later; mild.

GENERAL INFERENCE

A trough of low pressure over East England is moving slowly East; a deep depression centred to westsouthwest of Ireland is moving quickly Northeast, and the associated fronts will move northeast across the British Isles. There will be light rain in the extreme East at first and fairly general mist or fog over much of England and Wales; later rain will spread northeast across the British Isles from the West, accompanied by freshening South winds, gale at times in the North and West; it will be much milder than of late.

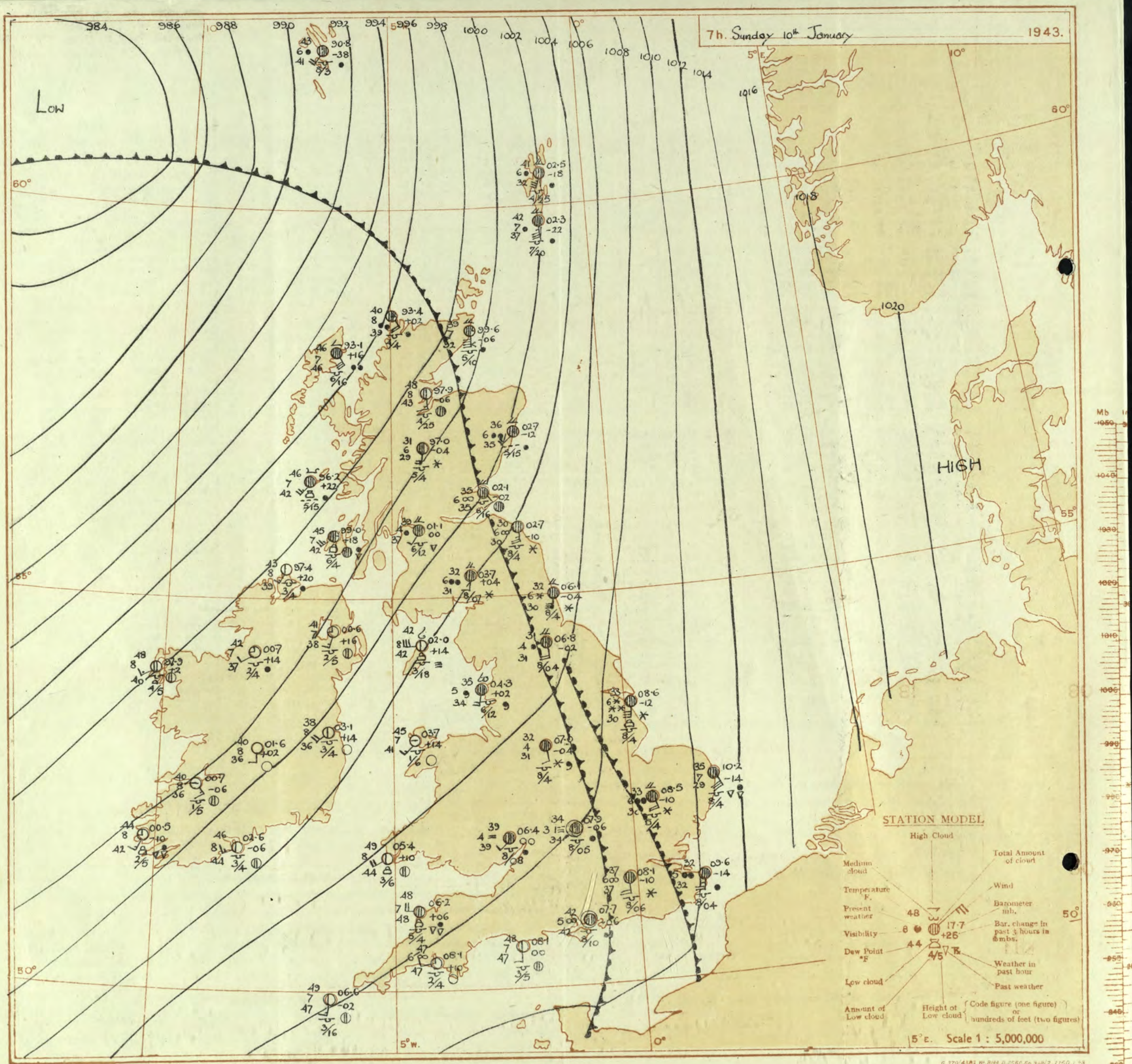
FURTHER OUTLOOK

Unsettled and mild; south to Southwest winds; gale at times in the North and West.

↓ Gale warning in operation in districts 7, 8, 12, 13 (a and b) 15, 16, 17, 18, 19 and 20 09.30 on 9th Jan 1943 and 10.35 10th Jan 1943

Forecasts issued at 10.30

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

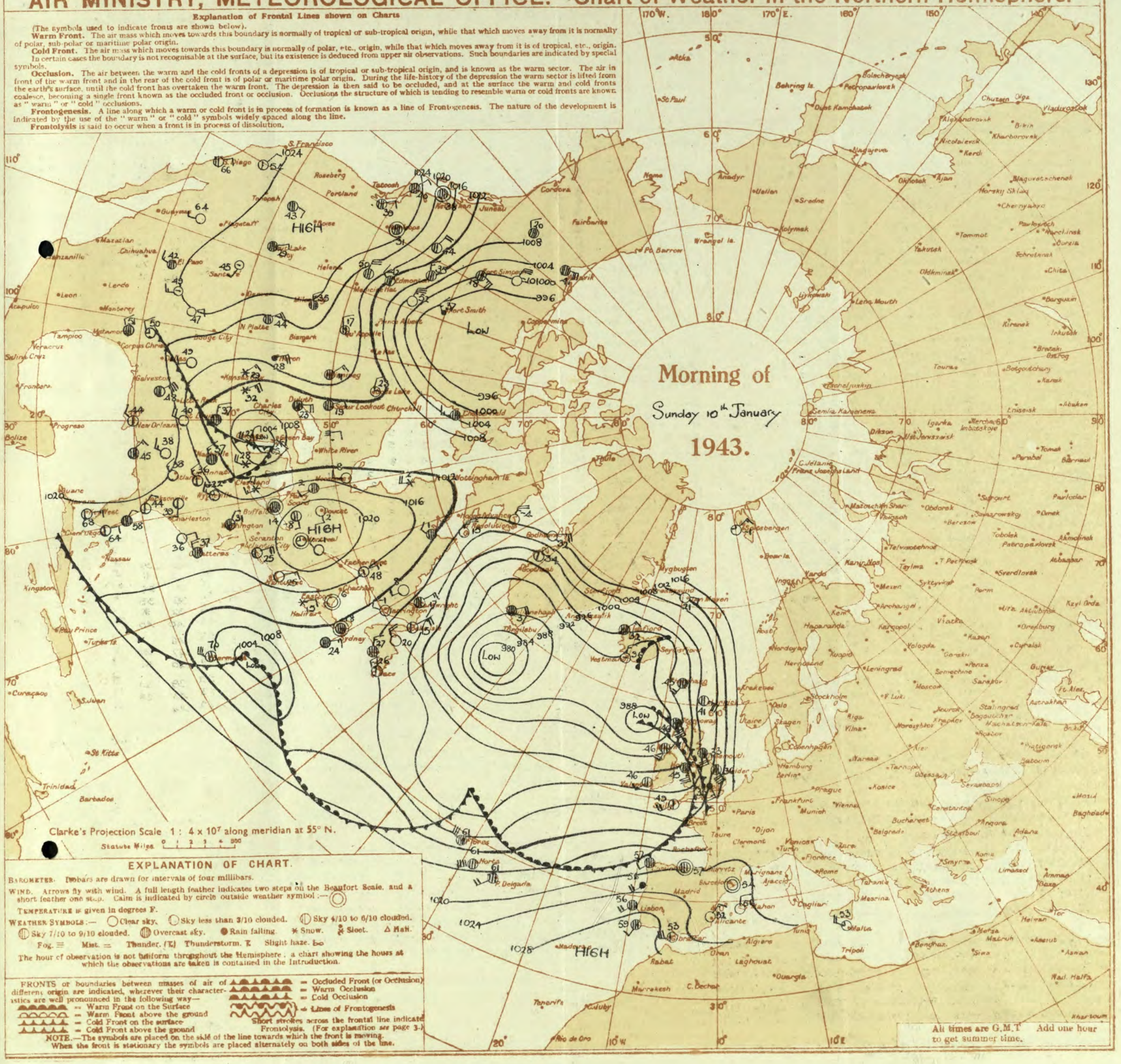
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Sunday, 10th January 1943

No. 29634

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Cloud. Height of Base. (feet) (15)
1	London (Kew)	18	*	*	*	*	*	34	*	*	*	*	*	*	*	*	*
	Croydon ...	290	11·3	-26	SSE	3	rr	35	92	33	5	6	2	-	9	10	1100
	S. Farnborough	226	09·7	-26	SE'S	4	ir	36	92	32	6	5	-	-	10	10	1400
	Boscombe Down	417	08·5	-28	SE	5	r	37	97	37	6	5	2	-	9+	10	400
	Thorney Island	10	10·1	-26	SE	3	rr	39	97	38	5	5	-	-	10	10	700
	Lympne ...	283	12·9	-34	S	5	z	32	85	28	6	-	7	8	0	9+	-
	Manston ...	154	13·5	-30	SSE	5	z	31	75	28	6	5	4	6	2-3	7-8	2000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	16·0	-26	SE'S	6	z	33	85	30	6	5	7	-	2-3	4-6	2500
	Gorleston ...	5	14·5	-32	SE	7	bq	36	75	28	7	-	-	-	0	0	-
	Mildenhall ...	15	11·7	-30	SE	5	c	32	85	29	7	5	-	-	9+	9+	6500
	Cranwell ...	203	09·7	-34	SSE	7	rs	30	97	30	5	-	2	-	10	10	2900
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	09·8	-34	SW	3	rr	33	97	31	4	5	-	-	10	10	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	03·3	+4	SW	4	c-bc	49	97	49	7	5	-	-	7-8	7-8	1500
	Bristol ...	209	06·7	-26	SE	4	ir	39	97	38	5	6	2	-	9	10	900
	Portland Bill ...	32	07·4	-22	E	4	rr	42	92	40	7	5	-	-	10	10	2500
	Plymouth ...	82	05·4	-2	WSW	5	z	50	97	50	6	5	-	-	2-3	2-3	1000
	The Lizard ...	240	05·9	+6	WSW	5	c-bc	50	97	50	7	8	-	-	7-8	7-8	1500
	Scilly (St. Mary's)	163	05·8	+20	SWW	4	b-bc	49	92	47	7	5	-	-	2-3	2-3	1500
	Guernsey ...	175															
6	Pembroke ...	142	02·5	0	W'S	5	bc	50	85	46	7	2	-	-	4-6	4-6	2500
7	Holyhead (Valley)	32	01·1	-2	S'E	7	z	45	92	42	6	5	2	-	4-6	10	1600
	Chester (Sealand)	16	05·2	-22	S	4	rr	34	85	31	5	6	2	-	9	10	700
8	Manchester ...	235	06·8	-24	SE'E	5	rr	33	97	33	4	5	-	-	10	10	1100
10	Spurn Head ...	29	10·1	-40	SSE	8	c	36	75	27	7	8	-	-	9+	9+	2500
	Catterick ...	175	08·5	-24	SSE	5	sh	29	97	29	5	5	-	-	10	10	1000
	Tynemouth ...	108	07·8	-20	SSE	6	fs	33	85	30	6	-	2	-	10	10	1500
11	St. Abbs Head	280	05·0	-22	SSE	5	rs	32	97	31	6	5	-	-	10	10	2500
	Leuchars ...	36	03·1	-28	SE	4	sh	34	85	29	5	5	2	-	9+	10	3000
12	Renfrew (Abbots I.)	19	01·5	-20	E'N	2	sh	35	92	33	3	-	2	-	10	10	1600
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	00·4	-16	S	8	rr	39	97	39	6	6	2	*	4-6	10	800
13A	Tiree ...	44	92·8	-18	SSE	8	rr	44	97	43	5	6	-	-	10	10	450
13B	Stornoway ...	15	93·9	-26	SE	7	c	46	92	44	7	5	-	-	10	10	1200
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	04·0	-30	S	7	rs	35	97	34	5	5	-	-	10	10	600
	Wick ...	114	01·7	-38	S'E	8	z	39	75	32	7	5	2	-	4-6	10	2000
16	Sumburgh ..	19	06·2	-30	SE'S	7	c	43	85	38	6	5	2	-	9+	10	1500
17	Blacksod Point	18	95·1	+22	WSW	6	rr	47	85	43	7	6	-	-	9	9	1500
18	Malin Head ...	84	93·0	+2	S'W	4	c-bc	46	85	44	8	8	-	-	7-8	7-8	1500
	Aldergrove ...	268	97·3	-2	SSW	4	c/r	48	85	43	6	5	-	-	9+	9+	1600
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	01·3	+14	SW'S	3	bc	46	85	42	8	3	-	-	4-6	4-6	2500
	Roches Point	22	02·0	+18	W	3	b-bc	46	92	44	8	5	-	-	2-3	2-3	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Cloud. Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	07·8	-6	NE	1	rr	36	92	36	6	5	-	-	10	10	1500	1	*
	Croydon ...	08·1	-10	S'E	4	z	37	97	37	6	5	-	-	10	10	600	1	*
	S. Farnborough	07·3	-2	SSE	3	r/r	39	97	39	4	5	-	-	10	10	800	1	*
	Boscombe Down	08·2	+6	SSW	2	f	41	97	40	2	6	-	-	10	10	100	1	*
	Thorney Island	07·7	-6	-	0	z	42	97	42	5	5	-	-	10	10	1000	1	*
	Lympne ...	09·3	-14	S'E	3	s/r	35	97	35	6	5	2	-	9	10	800	5	5
	Manston ...	09·6	-14	S	5	rr	32	97	32	5	5	-	-	10	10	400	1	*
2	Shoeburyness ...	10·2	-10	S	3	o/r	35	85	33	6	5	-	-	10	10	1500	1	*
	Felixstowe ...	10·5	-24	SSE	5	ss	33	92	31	6	5	2	-	7-8	10	1300	8	5
	Gorleston ...	10·2	-14	SE'S	6	o/pr	35	75	29	7	5	-	-	10	10	1500	3	5
	Mildenhall ...	08·5	-10	SE'S	4	rr	33	92	30	6	5	2	-	7-8	10	1500	6	*
	Cranwell ...	07·7	-6	SSE	4	rr	31	97	31	4	6	2	-	7-8	10	500	8	*
3	Birmingham ...	06·3	-2	SSW	2	of	34	92	32	3	5	-	-	10	10	800	5	*
	Upper Heyford	07·9	-6	-	0	of+	34	97	34	3	5	-	-	10	10	500	5	*
4	Ross-on-Wye	06·4	0	SW	2	m	39	97	39	4	5	-	-	10	10	800	1	*
5	Hartland Point	06·2	+6	W	4	c-bc/pr	48	97	48	7	8	-	-	7-8	7-8	1500	1	1
	Bristol ...	07·5	+14	WSW	2	m	43	97	42	4	8	-	-	2-3	2-3	1500	2	*
	Portland Bill ...	08·1	0	S	2	b-bc	48	97	47	7	5	-	-	2-3	2-3	2500	1	4
	Plymouth ...	08·1	+10	WSW	2	z	47	97	47	6	5	-	-	1	1	1500	1	3
	The Lizard ...	07·4	+4	SW	4	bc	49	92	47	7	8	-	-	4-6	4-6	2000	1	4
	Scilly (St. Mary's)	06·6	-2	S	3	b-bc	49	92	47	7	5	-	-	2-3	2-3	1600	1	4
	Guernsey ...																	
6	Pembroke ...	05·4	+10	WSW	4	b-bc	49	85	44	8	2	-	-	2-3	2-3	4000	1	3
7	Holyhead (Valley)	03·7	+14	SSW	3	b	45	85	42	7	5	-	-	Tr	Tr	4000	1	1
	Chester (Sealand)	05·3	+2	S	2	c-bc	35	92	33	5	5	2	-	4-6	7-8	500	1	*
8	Manchester ...	05·8	-2	SE'S	4	z	34	97	33	5	5	-	-	10	10	900	5	*
10	Spurn Head ...	08·6	-12	S'E	6	ss	33	92	30	6	8	-	-	10	10	1500	7	5
	Catterick ...	06·8	-2	SSE	4	ir	31	97	31	4	-	2	-	10	10	400	8	*
	Tynemouth ...	06·1	-4	S	6	is	32	92	30	6	-	2	-	10	10	1500	8	4
11	St. Abbs Head	02·7	-10	SSE	5	z	30	97	30	6	5	-	-	10	10	1500	1	4
	Leuchars ...	02·1	-2	ESE	2	z	35	92	33	6	5	2	-	9	10	1600	6	*
12	Renfrew (Abbots I.)	01·1	0	SSW	1	ir	39	92	37	4	5	2	-	9	10	1200	1	*
	Eskdalemuir ...	03·7	+4	S	2	rr	32	97	31	6	-	2	-	10	10	700	8	*
	Point of Ayre ...	02·0	+14	W'S	6	b-bc	42	97	42	8	8	4	-	2-3	2-3	1800	1	4
13A	Tiree ...	96·2	+22	SSW	5	s/pr	46	85	42	7	9	-	7	7-8	10	1500	1	5
13B	Stornoway ...	93·1	+16	SE	6	s/r	46	97	46	7	5	1	-	9	10	1600	1	
15	Dalwhinnie ...	97·0	+4	S	4	c-bc	31	92	29	6	5	-	-	7-8	7-8	1500	8	*
	Aberdeen † ...	02·7	-12	SSW	4	rr	36	97	35	6	6	2	-	7-8	10	1500	1	5
	Wick ...	99·6	-6	S'E	8	c	39	75	32	7	5	2	-	7-8	9+	1000	1	*
16	Sumburgh ..	02·3	-22	SSE	7	ir	42	85	37	7	5	2	-	9+	10	2000	1	5
17	Blacksod Point	97·9	+2	SWW	3	bc	48	75	40	8	7	-	-	4-6	4-6	2500	1	3
18	Malin Head ...	97·4	+20	S'W	3	b-bc	43	85	39	8	4	-	-	2-3	2-3	1500	2	3
	Aldergrove ...	00·6	+16	S'W	3	b	41	92	38	7	5	-	-	1	1	2500	1	*
19	Birr Castle ...	01·6	+2	S	2	b	40	85	36	8	-	-	-	0	0	-	1	*
20	Valentia Obsy.	00·5	-10	S'W	3	b/pr	44	92	42	8	2	-	-	1	1	2500	1	3
	Roches Point	02·6	-6	W'S	3	b-bc	46	92	44	8	5	-	-	2-3	2-3	1500	1	4

PAST 24 HOURS.

District	Stations	Temperature. Max. Day 7h–18h °F. (33)	Temperature. Min. Night 18h–7h °F (34)	Temperature. Min. on Grass °F. (35)	Rainfall. Day 7h–18h mm. (36)	Rainfall. Night 18h–7h mm. (37)	Sunshine 9th Hrs. (38)
1	London (Kew)	34	31	28	-	8	0·6
	Croydon ...	33	31	29	-	6	0·0
	S. Farnborough	35	33	30	*	5	0·2
	Boscombe Down	37	35	32	*	4	0·0
	Thorney Island	39	36	34	*	14	*
	Lympne ...	36	30	27	-	6	1·5
	Manston ...	33	30	26	*	0·1	3·2
2	Shoeburyness ...	35	31	27	-	7	1·9
	Felixstowe ...	37	32	30	-	-	[illegible]
	Gorleston ...	37	34	30	*	Tr	[illegible]
	Mildenhall ...	36	30	20	0·4	11	5·3
	Cranwell ...	32	31	25	-	9	3·1
3	Birmingham ...	35	30	27	-	6	0·3
	Upper Heyford	33	30	29	-	8	*
4	Ross-on-Wye	39	35	33	-	9	0·0
5	Hartland Point	45	43	42	0·3	5	0·1
	Bristol ...	41	37	34	-	10	0·2
	Portland Bill ...	43	48	*	*	10	*
	Plymouth ...	47	42	31	10	8	0·0
	The Lizard ...	52	40	*	8	-	0·0
	Scilly (St. Mary's)	52	48	*	6	1	0·0
	Guernsey ...						
6	Pembroke ...	45	*	*	4	10	0·0
7	Holyhead (Valley)	46	42	40	0·6	3	*
	Chester (Sealand)	37	34	32	*	6	0·3
8	Manchester ...	40	31	31	-	11	*
10	Spurn Head ...	36	30	*	-	-	4·3
	Catterick ...	32	29	28	*	4	0·0
	Tynemouth ...	36	31	29	-	1	*
11	St. Abbs Head	34	31	*	0·4	7	*
	Leuchars ...	38	33	31	0·2	9	0·0
12	Renfrew (Abbots I.)	38	34	*	1	*	0·0
	Eskdalemuir ...	36	31	31	0·3	14	0·0
	Point of Ayre ...	41	27	*	5	5	0·0
13A	Tiree ...	47	40	39	5	5	0·0
13B	Stornoway ...	47	42	41	5	11	0·0
15	Dalwhinnie ...	35	28	28	0·2	3	0·0
	Aberdeen † ...	40	35	33	*	8	0·0
	Wick ...	42	32	*	*	1	*
16	Sumburgh ..	44	40	40	Tr	Tr	0·0
17	Blacksod Point	53	46	*	6	1	*
18	Malin Head ...	46	47	42	9	1	0·0
	Aldergrove ...	45	40	36	3	1	0·0
19	Birr Castle ...	52	39	34	3	4	0·0
20	Valentia Obsy.	53	43	38	12	3	0·0
	Roches Point	52	44	*	3	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 9th January			18h. G.M.T.			01h. G.M.T. 10th January			07h. G.M.T.		
	IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
109	57	02662	15315	51	82664	48424	62	62544	46768	52	02645	47768
115	52	02745	16528	52	02844	12427	52	62734	45568	52	62844	12467
203										5-	03848	16528
206	57	05763	08128	57	21663	32188	57	22755	45467	5-	01854	14324
210	57	02764	12228	5-	05664	11524	02	02790	47718	52	02764	14425
220	52	03617	15528	6-	66318	13668						
230	52	05655	10178	62	61645	08168	52	05654	12468	82	81846	20288
245	57	05544	20188	02	05590	48527	02	68558	47578	5-	22648	47478
260	57	03465	00028	5-	05568	03428	52	05564	45428	57	05554	45328
278	62	62537	10568	62	64537	45568	02	62528	47768	57	01744	18364
279	57	05654	12427	57	05555	12628	62	62545	15368	57	05664	16168
285				5-	05527	10527						
288	00	02790	48517	57	05664	46427	57	62664	46567	52	22647	14468
575	62	61637	14968	62	64635	14468	57	01744	18464	50	01742	20262
301	57	61564	48627	57	22565	47768	02	63538	48568	57	51546	17458
321	00	01895	14515	04	05690	12423	5-	62658	47468	5-	68558	18378
2.0				50	01763	16613	50	14753	16703	5-	78548	16778
292	03	05690	12324	53	05663	11326	5-	88648	12378	5-	68648	12378
310												
614	07	05590	14327	57	08451	12314	02	64548	47478	52	52445	12258

	13h. G.M.T. 9th January			18h. G.M.T.			01h. G.M.T. 10th January			07h. G.M.T.		
	IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
333	52	60865	47467	02	62668	47668	02	62648	49568	50	01751	18101
334	--	02645	26316	--	63646	26487						
340	07	05690	14528				5-	64448	16368	5-	05548	14328
136	00	01790	15423	09	05690	15423	07	05690	14517	02	72538	16478
336												
350	00	17490	14316	50	17443	14426	5-	61548	46468	02	08428	15268
368	07	02790	45527	52	22645	46568	02	62638	14268	50	08453	20183
379	07	05690	14427	57	05594	10424				--	48209	00049
390	57	05590	12345	03	47390	12423	5-	62468	14468	5-	22528	12268
382	09	05690	13327	57	05644	45427	5-	64648	14468		08428	14168
438	87	02755	14415	87	02654	14514	5-	14648	14528	--	67109	18369
430	57	05644	14427	57	05566	12528	5-	64538	14468	5-	22538	16168
409	5-	52608	14758	51	62618	13658	5-	05645	51425	20	01743	18313

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N$_h$ = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C$_L$C$_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 10th January
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre
Kew ...	b, cm$_o$x	bcbcm$_o$x	cfm$_o$	
Croydon ...	bm$_o$cm$_o$x	bcm$_o$cm$_o$x	fsrsrr$_o$	
Greenwich ...	bcm$_o$x	bccb	bcrrcf	Kew 24 hours ended 9h.
Camden Square	c	c	*	Max.
Kensington ...	bcc	orr	*	03 9th
Hampstead ...	bcf	bcoff	ofr	Min. Time 10·4 0·6h 10th

Stations.	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 % Today	Humidity 9h % Today
Kew ...	34	31	28	-	8	0·6	*	*
Croydon ...	33	31	29	-	6	0·0	*	*
Greenwich ...	33	30	25	-	7	0·7	71	82
Westminster ...	38	32	29	8			70	98
Regents Park ...								
Camden Square	35	31	27	-	8	*	*	98
Kensington ...	37	32	27	-	8		85	92
Hampstead ...	32	30	27	-	7		*	97

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

SECRET

Monday 11th January 1943.

No. 29635

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Cloud. Height of Base (feet) (15)
1	London (Kew)	09·0	0	SW'S	2	cf	41	97	40	3	5	-	-	10	10	2500
	Croydon ...	09·7	-2	SW	2	m	43	97	43	4	5	-	-	4-6	10	600
	S. Farnborough	08·9	-4	-	0	z.	49	97	49	5	5	-	-	9	9	300
	Boscombe Down	09·1	-4	S'E	2	z.	46	92	44	6	1	-	6	Tr	4-6	2500
	Thorney Island	09·5	-4	-	0	F	43	97	43	0	-	-	-	10	10	4150
	Lympne ...	09·9	-4	SSW	1	bif	43	97	43	2	-	-	-	0	0	-
	Manston ...	09·6	-2	SSW	2	cf+	40	97	40	3	5	-	-	10	10	4150
2	Shoeburyness ...	11·2	+2	WNW	1	m	41	92	39	4	5	-	-	10	10	4000
	Felixstowe ...	09·7	-2	SSW	2	cf+	38	97	37	2	5	-	-	10	10	800
	Orfleston ...	10·0	-4	S	3	d.d.	37	92	35	4	6	-	-	10	10	500
	Mildenhall ...	08·9	-2	S'W'S	2	m	36	97	35	4	5	-	-	10	10	1000
	Cranwell ...	08·0	-4	-	0	F+	33	97	33	1	-	-	-	10	10	4150
3	Birmingham ...	07·6	+4	SW	2	1F	38	92	36	1	-	-	-	10	10	4150
	Upper Heyford	08·1	-2	SW	1	F-	39	97	39	1	-	-	-	10	10	4150
4	Ross-on-Wye	07·4	-8	S	1	bcf-	42	97	42	3	5	-	1	2-3	4-6	100
5	Hartland Point	05·0	*	SSE	3	c-bc	49	92	47	7	2	4	-	2-3	7-8	2500
	Bristol ...	08·2	-10	S	1	bc	51	75	44	7	1	-	5	Tr	4-6	2500
	Portland Bill ...	08·6	+4	SSE	2	c	49	92	47	8	5	-	-	10	10	4000
	Plymouth ...	07·3	-18	SSW	3	pr	51	97	50	7	8	7	5	7-8	9+	800
	The Lizard ...	06·0	-18	SSW	4	pr	52	92	50	7	8	2	-	9	10	1500
	Scilly (St. Mary's)	03·8	-28	SE'E	4	jfp	51	97	50	7	8	7	-	7-8	9+	1200
	Guernsey ...															
6	Pembroke ...	04·1	-22	S'E	4	c-bc	50	85	48	8	8	7	-	4-6	7-8	3000
7	Holyhead (Valley)	04·3	-4	S'E	3	bc	48	85	45	7	8	3	6	2-3	4-6	2000
	Chester (Sealand)	05·9	-2	S	1	m	41	92	40	4	-	1	-	0	10	-
8	Manchester ...	07·4	+2	SE	3	F+	36	97	36	1	-	-	-	10	10	4150
10	Spurn Head ...	08·2	0	S	3	o	34	97	34	5	5	-	-	10	10	1100
	Catterick ...	07·7	0	S'E	3	f+	31	97	31	3	-	-	-	10	10	4150
	Tynemouth ...	07·4	+4	SSW	3	m	33	97	32	4	5	-	-	10	10	1800
11	St. Abbs Head	04·7	+2	SSW	3	c	33	92	31	6	5	7	-	4-6	9	2000
	Leuchars ...	04·0	+6	ESE	1	z.	37	92	35	6	5	7	-	9	9+	2500
12	Renfrew (Abbots I.)	03·5	+6	S	5	z.	41	75	33	5	8	-	-	2-3	2-3	2500
	Eskdalemuir ...	05·0	+6	-	0	id.	34	97	33	6	5	-	-	10	10	300
	Point of Ayre...	03·9	0	S'E	3	b	48	92	46	7	2	-	-	1	1	2000
13A	Tiree	99·7	+6	S'E	4	bc	47	75	40	8	5	3	-	2-3	4-6	3500
13B	Stornoway ...	97·7	+20	S	5	b-bc	47	92	44	8	8	6	-	2-3	2-3	2500
15	Dalwhinnie ...	02·0	+16	SSW	3	c	35	85	32	7	5	-	-	9+	9+	1500
	Aberdeen ...	04·0	+4	SSW	2	m	39	92	37	4	5	2	-	9	10	2500
	Wick ...	01·2	+14	S'E	6	c-bc	41	85	37	8	8	4	2	4-6	7-8	1500
16	Sumburgh ...	03·0	+2	SSE	7	c/r	42	97	41	6	3	2	-	9	10	1000
17	Blacksod Point	96·1	-18	S	3	bc	48	85	44	8	8	-	-	4-6	4-6	2500
18	Malin Head ...	99·1	-2	S	3	bc	45	75	38	8	4	-	1	2-3	4-6	1500
	Aldergrove ...	01·8	-2	S'E	2	b-bc	47	75	40	8	5	7	4	Tr	2-3	2500
19	Birr Castle ...	99·4	-24	S	2	c-bc	49	85	45	8	5	-	5	2-3	7-8	2500
20	Valentia Obsy.	94·6	-46	SSE	5	c	50	85	46	8	2	2	-	4-6	10	1500
	Roches Point	98·9	-34	S	4	bc	50	85	46	8	3	-	5	2-3	4-6	1500

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

District	Stations.	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Cloud. Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	06·8	-16	SE	2	m	41	97	40	4	5	-	-	10	10	2500	1	*
	Croydon ...	08·7	-10	SE'S	2	f	41	97	41	3	-	-	-	10	10	4150	1	*
	S. Farnborough	06·5	-16	ESE	2	cf	41	97	41	2	5	1	-	4-6	9	1000	1	*
	Boscombe Down	05·5	-30	SE'E	4	F+	43	97	43	1	-	-	-	10	10	4150	1	*
	Thorney Island	07·1	-20	E	2	f-	41	97	40	2	-	-	-	10	10	4150	1	*
	Lympne ...	09·4	-4	SE	1	dF	40	97	40	1	-	-	-	10	10	4150	1	§1
	Manston ...	09·1	-6	S	1	F	36	97	36	1	-	-	-	10	10	4150	1	*
2	Shoeburyness ...	10·9	-2	SSW	2	d.d.	40	97	39	4	5	-	-	10	10	800	1	*
	Felixstowe ...	08·9	-2	ESE	1	cf	38	97	38	3	5	-	-	10	10	900	1	2
	Orfleston ...	09·1	0	SSW	2	cf	38	92	36	3	5	-	-	10	10	450	1	3
	Mildenhall ...	08·1	-4	S'E	2	dF	35	97	34	0	-	-	-	10	10	4150	6	*
	Cranwell ...	07·3	-2	SSE	2	F	32	97	32	1	-	-	-	10	10	4150	8	*
3	Birmingham ...	05·2	-20	SE	2	F	36	97	35	1	-	-	-	10	10	4150	1	*
	Upper Heyford	05·8	-22	SE	2	F-	39	97	39	1	-	-	-	10	10	4150	1	*
4	Ross-on-Wye	03·5	-28	SE'E	2	z.	43	92	42	5	-	4	8	0	4-6	-	1	*
5	Hartland Point	98·7	-42	SSE	3	c	49	92	47	7	2	7	1	4-6	9	2500	1	4
	Bristol ...	03·0	-32	S	3	z.	45	97	43	6	5	7	-	2-3	10	3700	1	*
	Portland Bill ...	04·7	-24	SE	3	c-bc	49	92	47	7	5	-	-	7-8	7-8	2500	1	4
	Plymouth ...	00·7	-44	SE'S	4	z.	50	92	48	6	5	7	2	2-3	4-6	1000	1	2
	The Lizard ...	96·7	-44	SE'S	7	c	51	92	48	8	8	2	-	9	10	1500	1	5
	Scilly (St. Mary's)	92·1	-78	SE'S	6	c	50	92	48	6	6	2	-	9	10	800	1	5
	Guernsey ...																	
6	Pembroke ...	97·5	-20	SE	7	c	49	92	47	7	5	-	,	9+	9+	2500	1	3
7	Holyhead (Valley)	99·9	-34	SSE	3	c	42	85		7	-	7	6	0	9	-	1	2
	Chester (Sealand)	04·0	-12	S'E	2	F-	37	97	37	1	-	-	-	10	10	4150	1	*
8	Manchester ...	05·4	-6	E'S	3	m	35	97	34	4	5	-	-	2-3	2-3	1500	1	*
10	Spurn Head ...	07·7	0	SSW	3	cf	33	97	32	2	7	-	-	10	10	1500	6	3
	Catterick ...	05·7	-2	S	2	dF	32	97	32	1	-	-	-	10	10	4150	6	*
	Tynemouth ...	06·4	-4	SW	2	cf	32	97	31	3	5	-	-	10	10	1500	6	3
11	St. Abbs Head	04·4	0	S	3	b	36	92	33	6	5	-	-	Tr	Tr	4000	6	3
	Leuchars ...	03·7	-2	-	0	m/f	34	97	33	4	-	-	-	0	0	-	1	*
12	Renfrew (Abbots I.)	02·9	-2	E	1	c-bcf-	39	85	35	3	5	2	-	7-8	7-8	1200	2	*
	Eskdalemuir ...	04·1	-8	-	0	o	34	97	33	5	5	-	-	10	10	300	6	*
	Point of Ayre...	00·6	-18	SSE	6	cf	42	97	41	3	6	1	-	7-8	10	500	1	4
13A	Tiree	97·6	-12	SSE	5	c-bc	46	85	42	8	5	3	5	4-6	7-8	4000	1	5
13B	Stornoway ...	98·5	-14	SSE	6	c-bc	46	92	44	8	4	3	-	4-6	7-8	2500	1	4
15	Dalwhinnie ...	01·2	0	SSW	3	b-bc	35	85	31	8	5	4	-	1	2-3	2500	8	*
	Aberdeen ...	04·1	-4	S'E	2	m	41	92	39	4	5	-	-	7-8	10	1000	1	3
	Wick ...	01·9	+2	S	3	b	41	85	37	8	-	-	-	0	0	-	1	*
16	Sumburgh ...	04·1	+6	S'W	6	z.	43	97	43	6	5	2	-	9	10	1000	1	5
17	Blacksod Point	89·5	-42	SE	5	c	47	85	43	8	5	-	-	10	10	1500	1	4
18	Malin Head ...	95·0	-26	S	5	b-bc	44	85	40	8	4	-	-	2-3	2-3	1500	2	4
	Aldergrove ...	97·6	-22	SSE	2	bc	46	92	43	7	9	2	-	4-6	4-6	1800	2	*
19	Birr Castle ...	91·8	-50	S	4	c	48	92	46	8	5	2	-	7-8	10	2500	1	*
20	Valentia Obsy.	80·6	-86	SE'S	7	rr	50	85	46	7	6	2	-	4-6	10	1500	1	4
	Roches Point	88·2	-72	SE	7	rr	50	97	49	7	6	2	-	4-6	10	1500	1	5

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 10th. (39)	Weather. 13h.—18h. 10th. (40)	Weather. 18h. 10th to 1h. 11th (41)	Weather. 1h.–7h. 11th (42)
1	London (Kew)	cr.Ff	cfcm	circ cm.	cr.r. cm.
	Croydon ...	ofcmom	cfof	fid.omcm.om.om.irmcr.f.	
	S. Farnborough	cm.ofccmidmcmomf		cfd.mbecm.cm.rRmm.	
	Boscombe Down	oFbcmm.	cm.of	cmcrrm.	crrm.cmjd.
	Thorney Island	cmofF	cff	fbm.cir.	r.rrcm.
	Lympne ...	oFeid.	bifoFe	of	ofcm.rr
	Manston ...	or.r.f	cfcoF	om	omcm.r.r.rr
2	Shoeburyness ...	cm	cm.	cm.	cr.r
	Felixstowe ...	SoSoir.d.d.of	ofofe	ofcomm.	rroir.m.
	Orfleston ...	opr.s.d.m	offe	cm.cz.	cm.
	Mildenhall ...	cr.r.m.om.	omoFid.	oFid.cm.m	omoir.m.
	Cranwell ...	or.m.of	oF	oF	oFor.r.f
3	Birmingham ...	ofid.	FFe	Ffpr	orrc
	Upper Heyford	ofoFe	oFe	ofcmm.	cm.r.r.m.
4	Ross-on-Wye	ofcF	cfcm.	beer	rrqe
5	Hartland Point	cbcc	c	crrc	circ
	Bristol ...	bmcpr.bc	bcccm.	cm.ir.r.ir	bcm.bm.
	Portland Bill ...	bcc	c	Rr	oc
	Plymouth ...	bmcm.	cpr.cm.	crrRirm.	cir.cm.
	The Lizard ...	cpr	cprc	rrobc	beeq
	Scilly (St. Mary's)	bcc	c	irrqc	crre
	Guernsey ...				
6	Pembroke ...	mprbcc	c	cr.r.q	eqPhrr
7	Holyhead (Valley)	bbc	cbc	cir.m.	cpr.bc.
	Chester (Sealand)	mfFc	cmbcF	id.fmc	m.r.r.ir.c
8	Manchester ...	cmofF	FFbcm	bccmm.	cir.m
10	Spurn Head ...	om.	of	ofdod.	om.
	Catterick ...	om.of	ofd.F	od.F	d.oFr.m.
	Tynemouth ...	o15.om	ocmff	offm.	oq
11	St. Abbs Head	ocm.	ofmcbcm.b	bcoF	ofom
	Leuchars ...	cm.ocf.dm.bm.bf	bmfbcm.	cid.mcm.	
12	Renfrew (Abbots I.)	cm.r.r.bcm	bczbcmcf	cfbcm.	bcm.cm.
	Eskdalemuir ...	r.r.id.	id.so	om.bcbo.	bbc
	Point of Ayre...	b	bbcoff	ffc	r.r.c
13A	Tiree	cprbc	bcc	c	c
13B	Stornoway ...	bcjf	cbcc	bcbbc	bcbbc
15	Dalwhinnie ...	c	cbc		bcirsc
	Aberdeen ...	cr.r.r.fm.	cm.	cmm.	cr.r.ir.z.
	Wick ...	c	mb	bcc	ccirc
16	Sumburgh ...	r.r.c	cr.r.m.c	cid.m.	cid.m.
17	Blacksod Point	bc	c	r	r
18	Malin Head ...	c	bc	c	r
	Aldergrove ...	bbc	c	ccm.ir.cm.	cr.r.m.c
19	Birr Castle ...	c	c		r
20	Valentia Obsy.	pr	r	pr	pr
	Roches Point	pr	r	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 11th January 1943.

Districts.	Forecast
1 S.E. England; 2 E. England ...; 3 E. Midlands ...	Moderate southwest winds backing south to southeast, increasing fresh to strong, perhaps gale locally on coast; occasional rain or showers with fairer intervals today; rain tomorrow; mild.
4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales	Winds southwest to west backing south to southeast, fresh to strong with gale at times on coast; showers and brighter periods at first; becoming dull and rainy; mild.
8 N.W. England; 9 N. Midlands ..; 10 N.E. England; 11 S.E. Scotland	Fresh southerly winds, strong at times on coast backing southeast later increasing; cloudy, occasional rain; fairer periods spreading from the south; becoming rainy during tomorrow; milder.
12 S.W. Scotland & Isle of Man; 13A W. Scotland ...; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Fresh to strong southeast winds, gale at times on coast, moderating somewhat; dull, rain at times; an interval with fairer periods tomorrow; rather cold, becoming slowly milder.
16 Orkneys and Shetlands	As 12 - 15.
17 N.W. Ireland; 18 N.E. Ireland; 19 S.E. Ireland; 20 S.W. Ireland	Fresh to strong southwest winds backing southeast, increasing strong to gale in the South; occasional rain; mild.

GENERAL INFERENCE

A depression off Northwest Ireland is moving away north or northwest, and another deep system is moving in towards our Southwest districts. Weather will continue very unsettled with rain at times in most districts, and further strong winds and gales; conditions will be mainly mild.

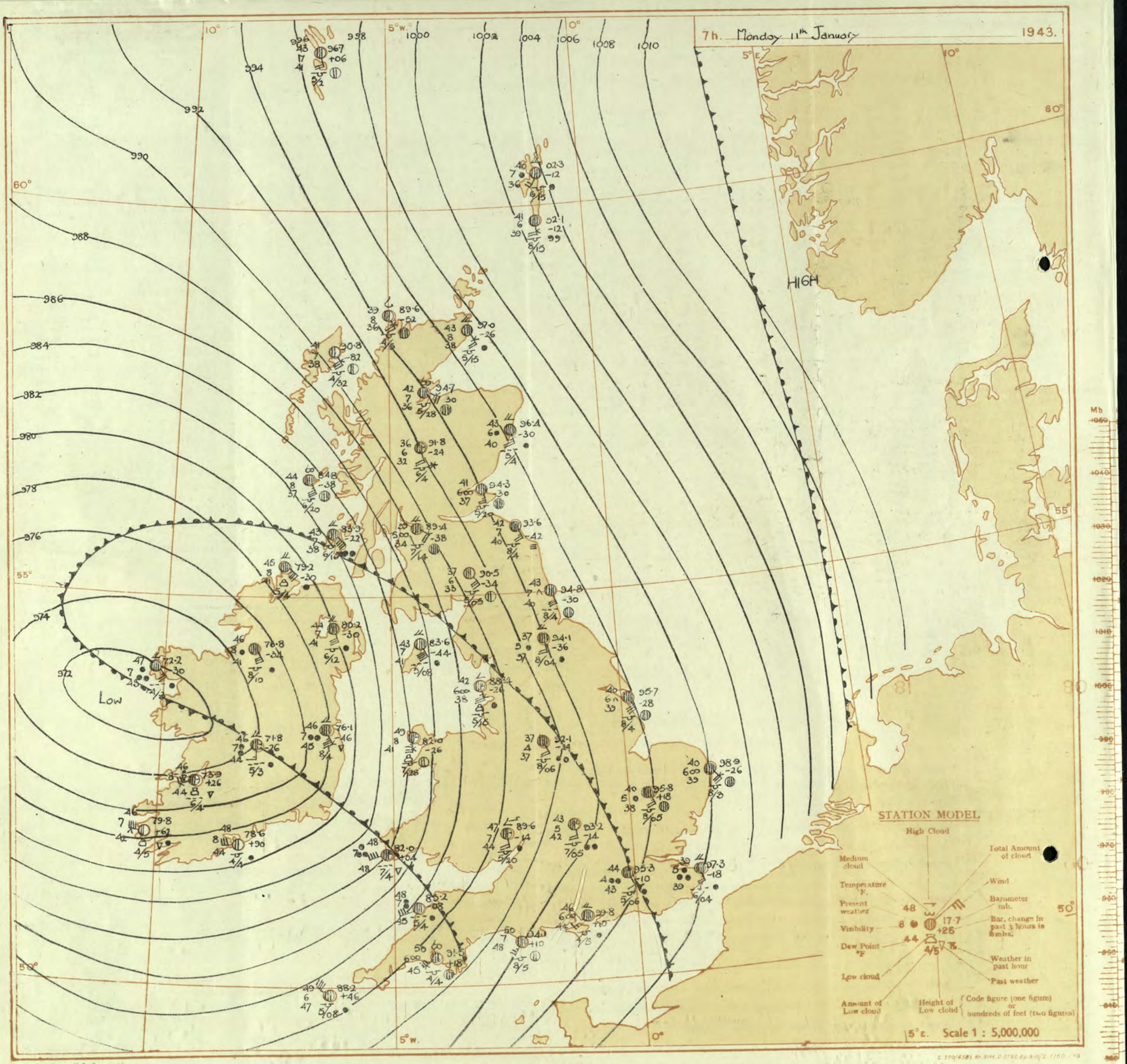
FURTHER OUTLOOK

Continuing very unsettled and stormy generally.

Gale warning in operation in district 16, time of issue 09.30 G.M.T. 9th Jan 1943.
In districts 6, 7, 8, 12, 13A, 13B, 15 (part of) 17, 18, 19, 20 time 1035 G.M.T 10th Jan 1943
In district 5, time of issue 1500 G.M.T 10th Jan 1943. In districts 1, 2, 10, 11, 15 (part of) time 20.30 G.M.T 10th Jan 1943

Forecasts issued at 10·30

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

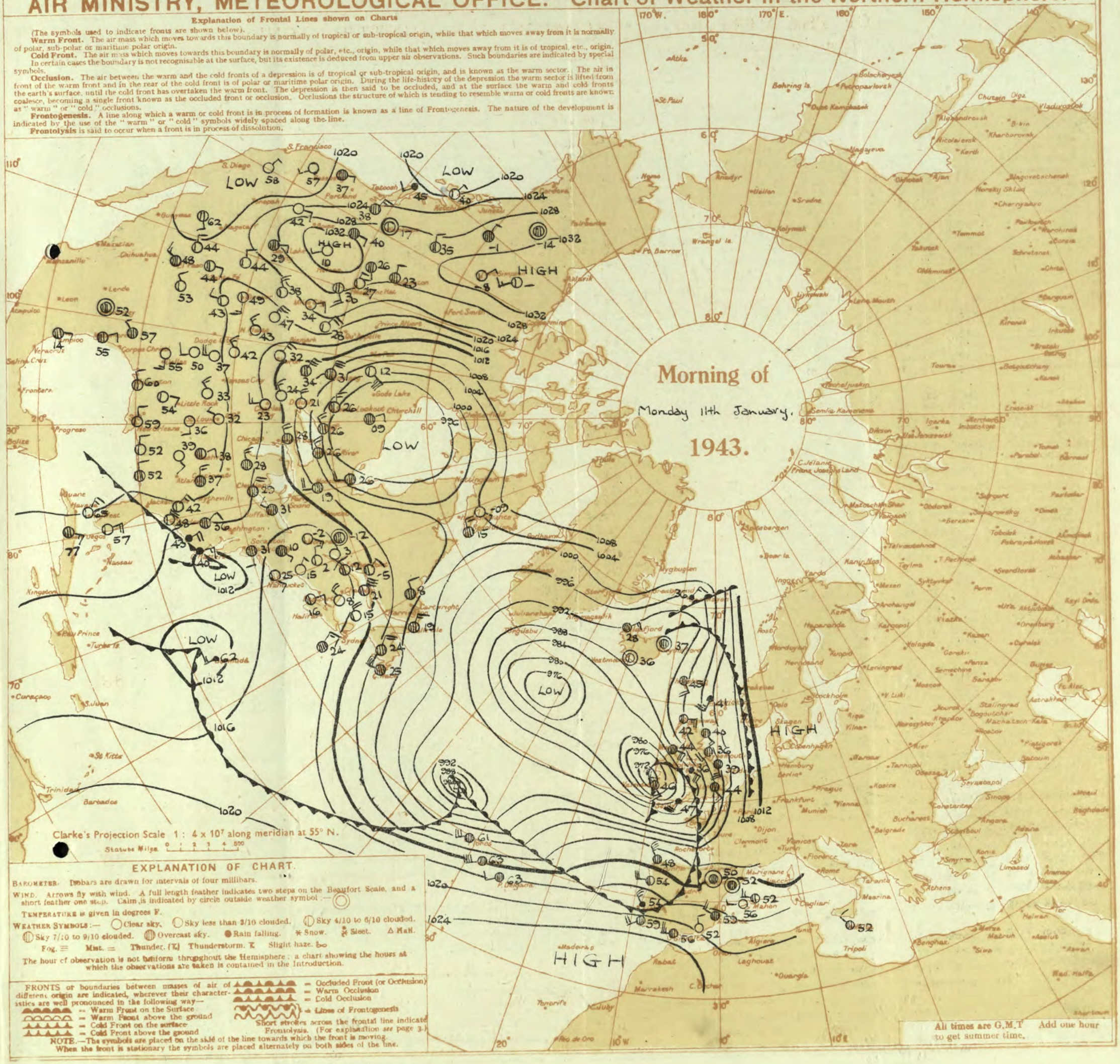
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Monday 11th January 1943

No. 29635

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	43	*	*	*	*	*	*	*	*	*
	Croydon	290	00·2	-34	SE	3	z0	44	92	42	5	5	1	-	10	10	700
	S. Farnborough	226	97·2	-42	SE'E	4	z0	44	92	43	5	5	-	-	10	10	800
	Boscombe Down	417	95·1	-42	SE'E	6	rr	45	97	45	6	5	2	-	9+	10	1100
	Thorney Island	10	97·1	-48	SE'E	5	ir0	46	92	44	5	5	-	-	10	10	1000
	Lympne	283	02·1	-30	SSE	5	f+	40	97	40	2	-	-	-	10	10	<150
	Manston	154	03·3	-34	S'E	5	m	39	97	39	4	-	-	-	10	10	500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	04·5	-26	SE	5	z0	39	97	38	6	5	-	-	10	10	2500
	Gorleston	5	04·3	-26	SE	4	z0	40	97	40	6	5	-	-	10	10	800
	Mildenhall	15	01·3	-30	SE'E	5	m	40	97	40	4	5	-	-	10	10	200
	Cranwell	203	01·2	-26	SSE	3	F	34	97	34	1	-	-	-	10	10	<150
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	98·2	-38	SE	4	z0	42	97	42	5	5	-	-	10	10	800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	88·1	-20	SSE	5	c	46	92	44	7	5	1	-	7-8	9+	1500
	Bristol	209	98·3	-50	SSE	2	ir	46	92	45	6	-	2	-	10	10	1400
	Portland Bill	32	93·5	-50	SE	5	RR	48	97	47	6	6	-	-	10	10	2500
	Plymouth	82	90·3	-18	S'W	6	ir0	48	92	46	6	6	2	-	7-8	10	1000
	The Lizard	240	88·5	-12	SSW	7	bc	50	85	45	7	8	-	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	83·8	-24	SSW	6	cjp	47	92	45	7	5	-	-	9+	9+	800
	Guernsey	175	.														
6	Pembroke	142	85·8	-32	SE	6	cq	49	97	49	7	5	-	-	10	10	2500
7	Holyhead (Valley)	32	89·0	-50	ESE	6	ir	46	85	42	6	-	2	-	10	10	2800
	Chester (Sealand)	16	94·9	-40	SSE	4	m	40	92	38	4	5	-	-	10	10	400
8	Manchester	235	97·2	-42	E'S	4	z0	38	97	37	5	5	-	-	10	10	800
10	Spurn Head	29	02·2	-22	SSE	5	z0	39	85	35	5	5	-	-	10	10	1500
	Catterick	175	01·4	-18	SSE	3	dF	32	97	32	1	-	-	-	10	10	<150
	Tynemouth	108	01·8	-20	SW	4	z0	36	97	35	5	5	-	-	10	10	1500
11	St. Abbs Head	280	00·3	-18	SE	4	F+	36	97	36	0	-	-	-	10	10	<150
	Leuchars	36	00·9	-12	ESE	3	z0	37	97	36	5	5	-	-	10	10	600
12	Renfrew (Abbots I.)	19	97·2	-30	E	3	z0	35	92	32	5	5	2	2	1	4-6	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	92·5	-30	SSE	6	c	41	92	39	7	6	2	-	4-6	10	800
13A	Tiree	44	02·2	-32	SSE	3	c	43	85	39	8	5	7	-	7-8	9	2500
13B	Stornoway	15	96·6	-14	E	5	bc	42	92	40	8	5	-	-	4-6	4-6	2800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	01·5	-14	SSE	3	z0	40	85	36	6	5	-	-	10	10	1500
	Wick	114	01·0	-8	SE	4	e-bc	42	75	36	8	5	-	-	7-8	7-8	1900
16	Sumburgh	19	04·4	-2	SSW	5	id0	41	92	40	6	5	-	-	10	10	1500
17	Blacksod Point	18	76·9	-48	SE'S	7	c/r	49	75	42	8	6	-	-	9+	9+	1500
18	Malin Head	84	86·5	-42	ESE	6	c	44	85	40	7	8	2	-	7-8	10	1500
	Aldergrove	268	88·7	-40	SE	5	z0	42	92	40	6	5	-	-	10	10	700
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	70·5	-26	SE'E	3	c/pr	46	85	42	8	8	-	-	9	9	2500
	Roches Point	22	72·5	-60	E	8	ir	49	97	48	7	6	2	-	4-6	9+	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	94·0	-10	SE	2	c/r	44	92	43	5	5	-	-	10	10	1500	1	*
Croydon	95·3	-10	SE	2	r0r0	44	97	43	4	6	2	-	7-8	10	600	1	*
S. Farnborough	95·9	+2	SSE	3	c/r	45	97	44	5	5	-	-	10	10	3000	1	*
Boscombe Down	93·5	+6	SSE	4	c/d	46	97	46	7	5	2	-	[illegible]	10	1500	1	*
Thorney Island	99·8	+10	SSW	3	z0	46	92	44	6	5	2	-	4-6	10	2500	1	*
Lympne	96·2	-14	SE'E	5	r0r0	41	97	41	5	5	-	-	10	10	500	1	6 §
Manston	97·3	-18	SSE	4	rr	39	97	39	5	6	2	-	9	10	400	1	*
Shoeburyness	97·3	-18	S	4	rr	40	97	39	5	5	-	-	10	10	1500	1	*
Felixstowe	97·2	-44	SE	6	ir0	40	97	39	6	5	-	-	10	10	2100	1	4
Gorleston	98·9	-26	SE'E	6	z0	40	92	39	6	5	-	-	10	10	800	1	5
Mildenhall	95·8	-18	SE	5	ir0	40	92	38	5	5	-	-	10	10	500	6	*
Cranwell	95·1	-22	SE	4	rf	36	97	36	2	-	-	-	10	10	<150	8	*
Birmingham	91·2	-12	SE	3	z0	41	97	40	6	6	-	-	4-6	4-6	1500	1	*
Upper Heyford	93·2	-14	SSE	4	c/r	43	97	42	5	5	-	-	9+	9+	500	1	*
Ross-on-Wye	89·6	-14	SSE	4	c	47	85	44	7	5	1	8	7-8	9	2000	1	*
Hartland Point	85·2	-8	WSW	7	ir	48	85	45	7	6	2	-	7-8	10	1500	1	5
Bristol	92·0	-2	S	3	z0	47	85	44	6	5	1	8	4-6	9	2500	2	
Portland Bill	94·1	+10	SSW	5	c	50	92	48	7	5	-	-	10	10	2500	1	4
Plymouth	91·5	+18	SW'S	7	z0	50	85	45	6	5	7	-	4-6	7-8	1500	1	5
The Lizard	90·4	+30	SW	9	c-bcq	50	75	41	7	8	-	-	7-8	7-8	1500	1	6
Scilly (St. Mary's)	88·2	-46	WNW	8	c-bc	49	92	47	6	5	-	-	7-8	7-8	800	1	6
Guernsey																	
Pembroke	82·0	+4	WSW	8	rr	48	97	48	7	6	-	-	9+	9+	1500	1	5
Holyhead (Valley)	82·0	-26	S	7	c	49	75	41	8	8	-	-	9+	9+	2800	1	5
Chester (Sealand)	88·4	-26	SSE	3	c	43	85	39	6	5	2	-	9	10	1000	1	*
Manchester	91·0	-22	E	5	c/r	41	85	38	6	5	2	-	7-8	10	1000	1	*
Spurn Head	95·7	-28	SE	7	cq	40	97	39	6	5	-	-	10	10	1500	1	3
Catterick	94·1	-36	SSE	4	ir0	37	97	37	5	-	2	-	10	10	400	6	*
Tynemouth	94·8	-30	SE	6	cq	43	85	40	7	6	-	-	10	10	1500	4	5
St. Abbs Head	93·6	-42	SE	5	o	42	92	40	7	5	-	-	10	10	1500	1	5
Leuchars	94·3	-30	SSE	5	z0	41	85	37	6	5	-	-	7-8	10	2000	1	*
Renfrew (Abbots I.)	89·4	-38	ESE	4	z0	39	85	34	5	5	2	-	9+	10	1400	2	*
Eskdalemuir	90·5	-34	ESE	6	c-bc	37	85	33	6	5	-	-	7-8	7-8	500	6	*
Point of Ayre	83·6	-44	SE'S	8	c	43	92	41	7	6	2	-	7-8	10	800	1	6
Tiree	84·8	-38	SE	7	c	44	75	37	8	5	7	-	9	10	2000	1	6
Stornoway	90·8	-38	SE	6	bc	41	92	38	7	5	-	-	4-6	4-6	3200	1	3
Dalwhinnie	93·5	-24	SSE	4	c	36	85	32	6	5	-	-	9	9	1500	8	
Aberdeen †	96·4	-30	SSE	5	ir0	43	92	40	6	6	2	-	7-8	10	1500	1	5
Wick	97·0	-26	SE	5	c/r	43	85	38	8	5	2	-	7-8	10	1500	1	*
Sumburgh	02·1	-12	S'E	4	c/d	41	92	39	6	5	-	-	10	10	1500	1	4
Blacksod Point	72·2	-30	ESE	5	rr	47	85	43	7	6	2	-	4-6	10	800	2	4
Malin Head	79·2	-30	E'S	7	c/r	45	85	41	8	8	2	-	7-8	10	1500	2	5
Aldergrove	80·2	-30	SE	6	c	44	85	41	7	5	2	-	9	10	1200	1	*
Birr Castle	71·8	-26	S	3	ir	46	92	44	7	6	2	-	7-8	10	800	1	*
Valentia Obsy.	79·8	+62	W	8	bc/r	46	85	42	7	2	-	-	4-6	4-6	2500	1	6
Roches Point	78·6	+90	W	6	bc	48	85	44	8	5	-	-	4-6	4-6	1500	1	6

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 10th Hrs. (38)
London (Kew)	42	40	38	0·2	3	0·0
Croydon	43	40	38	Tr	6	0·4
S. Farnborough	50	40	33	0·1	11	0·6
Boscombe Down	47	43	36	0·1	13	2·6
Thorney Island	43	41	40	Tr	11	*
Lympne	43	40	35	1	5	0·0
Manston	40	36	34	Tr	2	0·0
Shoeburyness	42	37	35	0·1	3	0·0
Felixstowe	39	38	36	2	*	0·0
Gorleston	38	38	33	3	-	[illegible]
Mildenhall	36	34	33	3	1	0·0
Cranwell	33	33	32	1	1	0·0
Birmingham	39	35	35	0·4	4	0·0
Upper Heyford	40	37	37	-	3	*
Ross-on-Wye	44	42	37	0·1	6	0·1
Hartland Point	50	47	44	-	7	1·6
Bristol	52	43	41	0·1	9	3·1
Portland Bill	49	47	*	11	10	*
Plymouth	52	46	45	0·3	9	1·6
The Lizard	52	45	*	0·5	12	0·0
Scilly (St. Mary's)	52	46	*	*	11	0·0
Guernsey						
Pembroke	50	45		Tr	9	1·8
Holyhead (Valley)	49	41	39	-	0·4	*
Chester (Sealand)	44	37	36	Tr	0·2	2·0
Manchester	39	35	26	-	1	*
Spurn Head	35	33		-	5	0·0
Catterick	32	31	31	0·5	1	0·0
Tynemouth	34	32	31	0·3	-	*
St. Abbs Head	38	30		-	0·2	
Leuchars	42	31	22	0·2	Tr	1·6
Renfrew (Abbots I.)	45	35	*	*	*	3·0
Eskdalemuir	34	31	27	1	-	0·0
Point of Ayre	51	39	*	*	1	4·1
Tiree	48	42	41	Tr	-	1·9
Stornoway	48	39	35	0·4	-	2·5
Dalwhinnie	36	33	30	-	3	0·1
Aberdeen †	41	41	39	0·1	0·6	0·0
Wick	42	40	*	-	*	*
Sumburgh	44	40	35	0·6	0·3	0·0
Blacksod Point	49	46	*	0·2	2	
Malin Head	46	43		-	0·2	4·0
Aldergrove	47	41	40	0·1	2	5·2
Birr Castle	49	45	43	-	5	1·8
Valentia Obsy.	51	45	40	7	10	0·0
Roches Point	51	48	*	2		*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 10th January $C_L C_M$	$wwVhN_h$	DDFWN	18h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN	01h. G.M.T. 11th January $C_L C_M$	$wwVhN_h$	DDFWN	07h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN
109				00	05650	16410	5-	02765	46425	52	21645	45658
115	87	02844	20426	54	01854	16324	54	00961	12213	54	02854	45525
203				13	01853	16514	5-	01845	12405			
206	57	02854	20325	51	01861	15212	50	01761	00001	57	02755	41528
210	04	02890	14225	00	00850	11201	5-	02758	11428	02	51748	11628
220	57	01854	17415	54	01753	15414				51	02745	12617
230	8-	01953	00013	50	01852	16113	5-	02854	10428	50	02854	10328
245	5-	05548	17258	57	05645	15128	5-	05648	46428	5-	05658	41428
260	4-	01853	16314	00	05550	00010	10	05652	04212	5-	05655	08327
278	87	01852	14213	5-	05548	11428	5-	05638	45528	62	02747	45768
279	53	01864	06215	50	05651	08312	50	[illegible]	08514	57	05644	44726
285												
288	57	05654	17327	07	08490	17328	--	44309	12349	5-	41438	08648
575	57	02842	20114	50	02844	16328	5-	61748	49668	5-	61848	45668
301	00	08490	12250	--	46109	12349	5-	05538	45528	81	05645	47767
321	--	48109	14279	--	44109	14249	--	44209	10359	5-	62338	45468
[illegible]	8-	03648	22328				5-	41548	14548			
[illegible]	5-	08438	00078	5-	47228	00048	--	57209	12259	5-	62648	12468
310										--	67109	12569
614	--	48009	24149	--	57009	10149	--	44109	91049	02	64238	45468
333	20	01752	15315	51	02754	12327	62	62698	43668	7-	02856	43728
334										--	25644	01586
340				--	46109	14249	5-	43338	14558			
136	02	47208	18278	--	46109	16149	5-	05518	13348	5-	61658	12668
336												
350				--	44009	14149	--	44109	08349	5-	22638	47368
368	4-	02854	12186	57	05655	12427	02	64638	12468	5-	05658	14428
379	--	46109	20249	--	46109	14349	5-	05528	41458	5-	05618	12268
390	--	46109	00049	--	48009	16249				5-	67328	45468
382	5-	05534	00045	--	48109	12349	57	05546	45448	5-	21556	47366
438	54	01753	24314	77	02544	16347	5-	05548	14528	--	67109	20369
430	--	46209	16149	--	46109	10248	5-	52438	47568	5-	05538	16128
409	57	02753	14326	57	02736	13728	32	02646	47528	02	02758	55868

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 11th January
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	cr0Ff	cfcm	cir0cmr0
Croydon	ofcmom	cfof	fid0omr0
Greenwich	cff	cff	cfcrrc
Camden Square	o	o	*
Kensington	om	om	*
Hampstead	of	orf	of

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. Time 0·7 [illegible]h on 10th. Min. Time <0·1 0·6h on 11th.

Stations	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 % Yesterday	Humidity 9h % To-day
Kew	42	40	38	0·2	3	0·0	*	*
Croydon	43	40	38	Tr	6	0·4	*	*
Greenwich	42	40	39	-	3		90	96
Westminster	46	37	36	3			90	97
Regents Park	45	35	34	-	3		95	97
Camden Square	41	41	32	0·3	3	*	*	97
Kensington	42	37	33	Tr	3		97	93
Hampstead	41	38	35	-	5		*	98

SECRET

BRITISH SECTION
THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Tuesday 12th January 1943.

No. 29636.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	95·6	+6	SW	4	zo	48	75	40	6	1	3	-	4-6	7-8	2500
	Croydon	97·3	+2	SW	3	bc	51	65	41	6	2	4	-	4-6	4-6	2200
	S. Farnborough	96·3	+6	SW	5	c-bc	50	75	41	8	8	7	-	4-6	7-8	3000
	Boscombe Down	95·8	+2	SW	5	c-bc	49	65	37	8	1	-	6	1	7-8	3000
	Thorney Island	97·5	+10	SW	4	zo	51	65	40	6	1	-	2	Tr	4-6	2500
	Lympne	98·4	+2	SSW	3	zo	49	85	46	6	5	4	-	Tr	1	300
	Manston	98·0	-2	SSW	3	c-bc/d	47	97	47	7	5	3	-	4-6	7-8	3000
2	Shoeburyness	98·4	-2	S	3	zo	50	88	46	6	5	-	-	2-3	2-3	4000
	Felixstowe	97·2	-6	S'E	5	zo	42	97	41	5	5	7	-	9+	10	4000
	Gorleston	97·8	-10	SSE	4	toto	40	97	39	6	5	-	-	10	10	600
	Mildenhall	95·7	-2	SSE	4	zo	44	92	42	6	5	7	-	9	10	1800
	Cranwell	94·4	-2	S'W	4	cf+	47	97	37	3	5	-	-	10	10	200
3	Birmingham	92·5	+4	SW	4	bc	47	75	40	7	5	4	-	2-3	4-6	800
	Upper Heyford	94·7	+14	SW	4	c	47	75	40	8	8	7	-	7-8	9	1500
4	Ross-on-Wye	92·6	+10	SW'S	5	b-bc	49	65	38	7	1	-	1	2-3	2-3	3000
5	Hartland Point	91·6	+2	WSW	5	c-bc/+	48	65	38	7	2	6	-	4-6	7-8	1500
	Bristol	94·9	+10	SW	5	c-bc/pr	47	65	37	8	8	3	5	1	7-8	4000
	Portland Bill	96·7	+14	SW	5	c-bc	49	92	47	7	5	-	-	7-8	7-8	4000
	Plymouth	95·3	+4	W	6	c	51	75	44	7	5	7	-	4-6	9+	3000
	The Lizard	95·3	-2	SW	8	i+	50	75	43	7	8	2	-	9	10	1500
	Scilly (St. Mary's)	92·6	-2	SW'W	5	cjp	50	75	42	7	8	7	-	7-8	10	1200
	Guernsey															
6	Pembroke	89·7	0	WSW	7	totc	48	75	40	7	8	4	-	7-8	9+	2000
7	Holyhead (Valley)	85·6	+26	SW	7	c	49	85	43	7	5	7	-	4-6	9+	2000
	Chester (Sealand)	88·2	+12	S	3	bc	53	65	39	8	2	6	1	4-6	4-6	1800
8	Manchester	89·9	+2	SSE	4	pr	45	92	42	6	2	6	-	7-8	7-8	400
10	Spurn Head	94·8	-2	SSE	6	zo	40	92	38	5	5	-	-	10	10	450
	Catterick	91·0	-18	SSE	4	f+	36	97	36	3	-	-	-	10	10	<150
	Tynemouth	89·3	-22	SE	3	c/+	41	97	40	6	6	-	-	10	10	1500
11	St. Abbs Head	86·6	-40	SE	7	RR	41	97	41	6	6	-	-	10	10	1000
	Leuchars	86·9	-46	SE	7	iro	43	92	40	6	5	7	8	7-8	10	900
12	Renfrew (Abbots I.)	83·5	-40	SE'E	4	zo	43	85	37	5	6	2	-	7-8	10	1800
	Eskdalemuir	85·3	-30	SE'S	5	c	37	85	34	6	5	-	-	10	10	700
	Point of Ayre	81·9	-2	SW	6	toto	46	92	44	7	6	-	-	9+	9+	800
13A	Tiree	75·4	-58	SE'E	8	ito	44	85	39	6	7	-	-	7-8	10	1500
13B	Stornoway	82·3	-50	E	9	c	44	92	42	7	5	9	-	2-3	10	1500
15	Dalwhinnie	82·5	-64	SE	6	prso	36	92	34	6	5	-	-	10	10	1500
	Aberdeen	90·3	-42	SE'S	6	++	42	92	41	6	6	2	-	9+	10	1000
	Wick	91·7	-20	SE	7	c	43	75	36	7	5	-	-	4-6	10	900
16	Sumburgh	98·2	-16	SE	7	c	40	92	39	7	5	2	-	9	10	1500
17	Blacksod Point	73·8	+24	WSW	6	c-bc	46	75	39	8	9	3	-	4-6	7-8	1500
18	Malin Head	72·4	-20	SSE	5	toto	46	85	42	7	8	2	-	7-8	9+	1500
	Aldergrove	77·0	+6	S	4	e/d	45	85	42	7	6	2	-	9	10	700
19	Birr Castle	81·8	+40	W	3	bc	47	76	40	8	5	-	-	4-6	4-6	1500
20	Valentia Obsy.	82·5	-12	SW	5	pr	46	65	36	8	2	3	-	7-8	9+	2500
	Roches Point	85·8	+6	W	4	c-bc	48	65	37	8	3	3	-	2-3	7-8	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	95·7	-4	SSE	2	zo	45	85	39	6	5	1	-	2-3	10	2500	1	*
Croydon	97·4	-2	S'E	3	zo	45	85	40	5	-	1	-	0	10	-	1	*
S. Farnborough	95·5	-12	S	4	c/+	44	86	40	7	5	1	-	2-3	10	2400	1	*
Boscombe Down	94·4	-22	SE'S	4	c/pr	43	97	42	7	5	2	-	2·3	10	2500	1	*
Thorney Island	96·9	-6	SSE	3	zo	46	85	42	6	-	1	-	0	2-3	-	1	*
Lympne	98·9	-2	S	2	zo	45	92	42	6	5	1	-	2-3	10	3500	1	5
Manston	98·4	-2	SW'S	3	zo	44	92	42	6	-	-	7	0	10	-	1	*
Shoeburyness	98·1	+2	S	3	zo	42	85	39	6	-	3	-	0	4-6	-	1	*
Felixstowe	97·0	+2	S'W	3	zo	42	85	39	5	-	-	8	0	4-6	-	1	3
Gorleston	97·0	-4	S	3	zo	42	92	41	5	-	-	8	0	4-6	-	1	4
Mildenhall	95·6	+2	S'E	3	zo	43	75	36	5	-	-	7	0	10	-	1	*
Cranwell	94·0	-2	S'W	3	zo	37	92	35	6	5	3	7	2-3	10	1800	4	*
Birmingham	92·0	-4	SSE	2	c	43	75	36	6	-	1	-	0	10	-	1	*
Upper Heyford	93·7	-6	S	2	zo	43	85	37	6	-	1	-	0	10	-	1	*
Ross-on-Wye	90·8	-24	S	4	c-bc/+	45	85	41	7	5	-	8	4-6	7-8	2500	1	*
Hartland Point	87·0	-38	S	4	c	47	85	43	7	5	1	-	7-8	9+	1500	1	4
Bristol	92·1	-18	SSW	4	pr	46	85	43	8	2	7	8	4-6	9+	2500	1	*
Portland Bill	94·5	-12	SW	5	o	48	92	47	7	5	-	-	10	10	2500	1	6
Plymouth	89·7	-42	S'W	8	ito	50	85	45	7	5	2	-	4-6	10	2000	1	5
The Lizard	87·5	-26	SSE	8	toto	48	92	46	6	6	-	-	10	10	1000	1	6
Scilly (St. Mary's)	81·9	-60	S	8	c/+	47	85	44	6	6	2	-	7-8	10	800	1	6
Guernsey																	
Pembroke	84·5	-20	S	7	cq	49	85	45	7	5	7	-	9	9+	2500	1	5
Holyhead (Valley)	85·6	-10	S	6	c	45	85	42	7	5	6	-	2-3	9+	2000	1	5
Chester (Sealand)	88·6	-6	S	2	c	43	75	37	7	5	4	6	7-8	9+	3500	1	*
Manchester	90·3	-2	SSE	4	zo	42	85	36	6	4	-	-	4-6	4-6	3000	1	*
Spurn Head	94·8	+6	S'E	4	b-bc	39	92	37	6	5	-	-	2·3	2-3	2500	1	3
Catterick	90·9	-2	S	3	c-bcf-	36	97	36	3	5	2	-	7-8	7-8	800	6	*
Tynemouth	89·9	+10	SSW	5	bc	40	92	38	5	2	3	-	2-3	4-6	1500	4	5
St. Abbs Head	86·6	+2	SE	4	b-bc	38	85	35	7	5	-	-	2-3	2-3	2500	1	4
Leuchars	84·6	-18	SSE	5	iro	42	85	38	6	5	-	-	2·3	10	800	1	*
Renfrew (Abbots I.)	82·9	+14	S	4	c/+	45	75	38	5	8	-	-	9+	9+	1500	2	*
Eskdalemuir	85·6	+10	S'E	4	c-bc	40	92	38	7	5	2	-	7-8	7-8	1100	4	*
Point of Ayre	84·3	+2	SW	4	b-bc	43	75	37	8	4	4	5	Tr	2-3	2000	1	4
Tiree	75·7	+18	S	6	cjp	46	75	38	8	8	4	-	7-8	9	2000	1	6
Stornoway	76·2	-14	ESE	7	c	46	92	43	8	5	7	-	7-8	10	2500	1	5
Dalwhinnie	80·0	-10	SE	5	prs	36	92	34	6	5	-	-	10	10	1500	4	*
Aberdeen	85·8	-20	SSE	6	zo	39	97	38	5	6	2	-	9	10	1000	1	6
Wick	84·9	-30	SSE	9	iro	43	92	41	6	5	2	-	7-8	10	1200	1	*
Sumburgh	92·3	-34	SSE	8	c/+	40	97	40	6	5	-	-	7-8	10	800	1	6
Blacksod Point	74·7	-2	S'W	6	c-bc	46	65	35	8	6	-	-	7-8	7-8	1500	1	5
Malin Head	75·8	+18	S	6	b-bc	42	75	35	8	4	-	-	2-3	2-3	2500	2	4
Aldergrove	80·9	+14	S	4	bc	41	75	38	8	5	-	-	4-6	4-6	2000	1	*
Birr Castle	78·8	-28	SSW	3	c	44	85	40	7	5	-	-	10	10	1500	1	*
Valentia Obsy.	71·6	-70	SE'E	5	RR	45	85	41	6	5	-	-	4-6	10	1600	1	3
Roches Point	76·3	-64	S'E	6	++	48	92	46	6	6	2	-	4-6	10	1500	1	5

PAST 24 HOURS — WEATHER

Stations	7h.—13h. 11th (39)	13h.—18h. 11th (40)	18h. 11th to 1h. 12th (41)	1h.—7h. 12th (42)
London (Kew)	idobbczo	ezocmo	cmo	crofoc
Croydon	cirombczo	czocmo	cmobcmoorr	oddd rirm
S. Farnborough	cmoc	c+c	cbcirorormo	cirmdocirormo
Boscombe Down	cb,c	cptoc	crofo	crorormocir
Thorney Island	tocbcmo	bcmobzz	cmorromo	morriro
Lympne	toofpro	bmobccmo	c	cmororo
Manston	promcm	bccmo	cbccmo	cmorororr
Shoeburyness	c++cmo	bcmo	bcmocmo	cmorr
Felixstowe	irororo	bcmocmobcm	cmo	rororoddorr
Gorleston	ototoq	omccbcmc	bcmczo	crozoq
Mildenhall	crorompcm	cmo	cmo	crorormo
Cranwell	o+fcmoof	odcmo	cmo	cidorrirocmo
Birmingham	bcc	bcc	cr	irc
Upper Heyford	cmoc	cz	cmocrorormo	cdodocmo
Ross-on-Wye	ccdobc	bcpcro	cqir	rqror
Hartland Point	cbccir	citc	cirrbc	crrir
Bristol	cmroprо	ccpro	ccirororormo	irrroirmo
Portland Bill	bc	o	orr	oir
Plymouth	bczo bc	cproc	crororrmo	crororo
The Lizard	circ	cp++r	rrbcc	corr
Scilly (St. Mary's)	cpc	ciro	cir	circ
Guernsey				
Pembroke	cp+q	cq	cprq	cqir
Holyhead (Valley)	citoc	c	crrmo	ciromoc
Chester (Sealand)	cpro	bcproc	cirorrmo	roromoc
Manchester	cmoi+pro	cproczo	rrroro	roroiro
Spurn Head	o	bc	b	ircq
Catterick	omomf	cf+e	cfcoirom	crorormo
Tynemouth	oi+q	omobc	cmobcq	bcocrq
St. Abbs Head	omcitc++cmo	cm+bcm	bcocmo	cmooro
Leuchars	doDrromo	ciromo	robcrr	rrrorcrrmo
Renfrew (Abbots I.)	cmo	morozo	cmoiromo	rirocmo
Eskdalemuir	ciro	c+tc	coromo	orrmo
Point of Ayre	ciroro	tocbcb	irororo	roprc
Tiree	itoccit	++mocpr	cprororo	ororrro
Stornoway	citoc	c	cirocbcc	ccirocorr
Dalwhinnie	ersrso	oc++so		
Aberdeen	citoc	c+++to+	cirobcmo	bcmoc
Wick	c	ctrocirom	cbc	c
Sumburgh	ciroc	ciromo	cidomo	cidocmo
Blacksod Point	bc	bc	r	r
Malin Head	+	+	r	r
Aldergrove	ddmoidc	cprocbc	crrdodo	cdocmorro
Birr Castle	+	c	*	r
Valentia Obsy.	pr	+	r	pr
Roches Point	pr	+	r	r

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

Districts 1 S.E. England ✝, 2 E. England ✝, 3 E. Midlands: Fresh southerly winds, veering southwest to west, decreasing to moderate or light. Occasional rain to-day, then brighter periods with some showers: mild at first, becoming colder.

Districts 4 W. Midlands, 5 S.W. England ✝, 6 South Wales ✝, 7 North Wales ✝: Winds veering west to northwest, fresh to strong and rather squally with gale at times on parts of coast; variable skies, bright periods, squally showers: colder.

Districts 8 N.W. England ✝, 9 N. Midlands, 10 N.E. England ✝, 11 S.E. Scotland ✝, 12 S.W. Scotland & Isle of Man ✝, 13A W. Scotland ✝, 13B N.W. Scotland ✝: Southeast to south winds, veering southwest to west, strong at times at first with gales on parts of the coast, moderating slowly; cloudy; occasional rain; some brighter intervals to-morrow; becoming somewhat colder.

Districts 14 Mid Scotland, 15 N.E. Scotland ✝: Strong to gale southeast winds, veering south decreasing later; cloudy to overcast; rain at times: rather cold.

16 Orkneys and Shetlands ✝: As 14 - 15.

17 N. W. Ireland ✝, 18 N. E. Ireland ✝, 19 S. E. Ireland ✝, 20 S. W. Ireland ✝: Fresh to strong squally, northwest winds, perhaps gale locally on West coast at first; squally showers with hail locally: colder.

GENERAL INFERENCE

A complex depression covering the British Isles will become considerably less deep and the centre move northward. There will be rain at times in all northern and eastern districts at first, but a brighter, cooler type of weather will spread from Ireland, although there will be some showers in most areas.

FURTHER OUTLOOK

A short interval of brighter weather but an early return to further rain, probably with strong winds or gales.

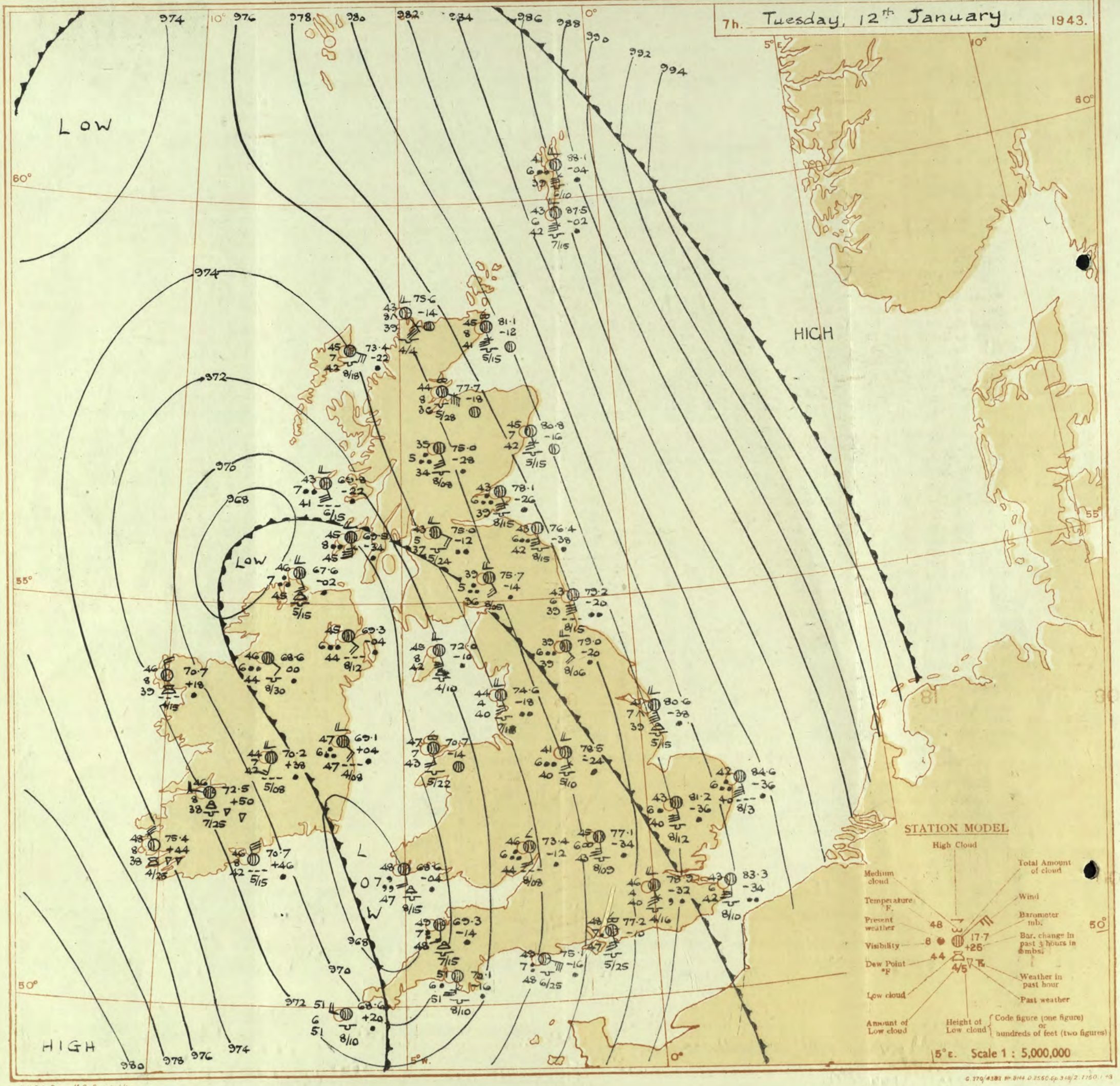
✝ Gale warning in operation in district 16, time of issue 0530 G.M.T. 9th January 1943. In districts 6, 7, 8, 12, 13A, 13B, 15 (part of) 17, 18, 19, 20 issued 1035 G.M.T. 10th January. In district 5, issued 1800 G.M.T. 10th Jan. In districts 1, 2, 10, 11, 15 (part of) issued 2030 G.M.T. 10th January 1943.

Forecasts issued at 1300 G.M.T.

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

Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Tuesday, 12th January 1943.



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

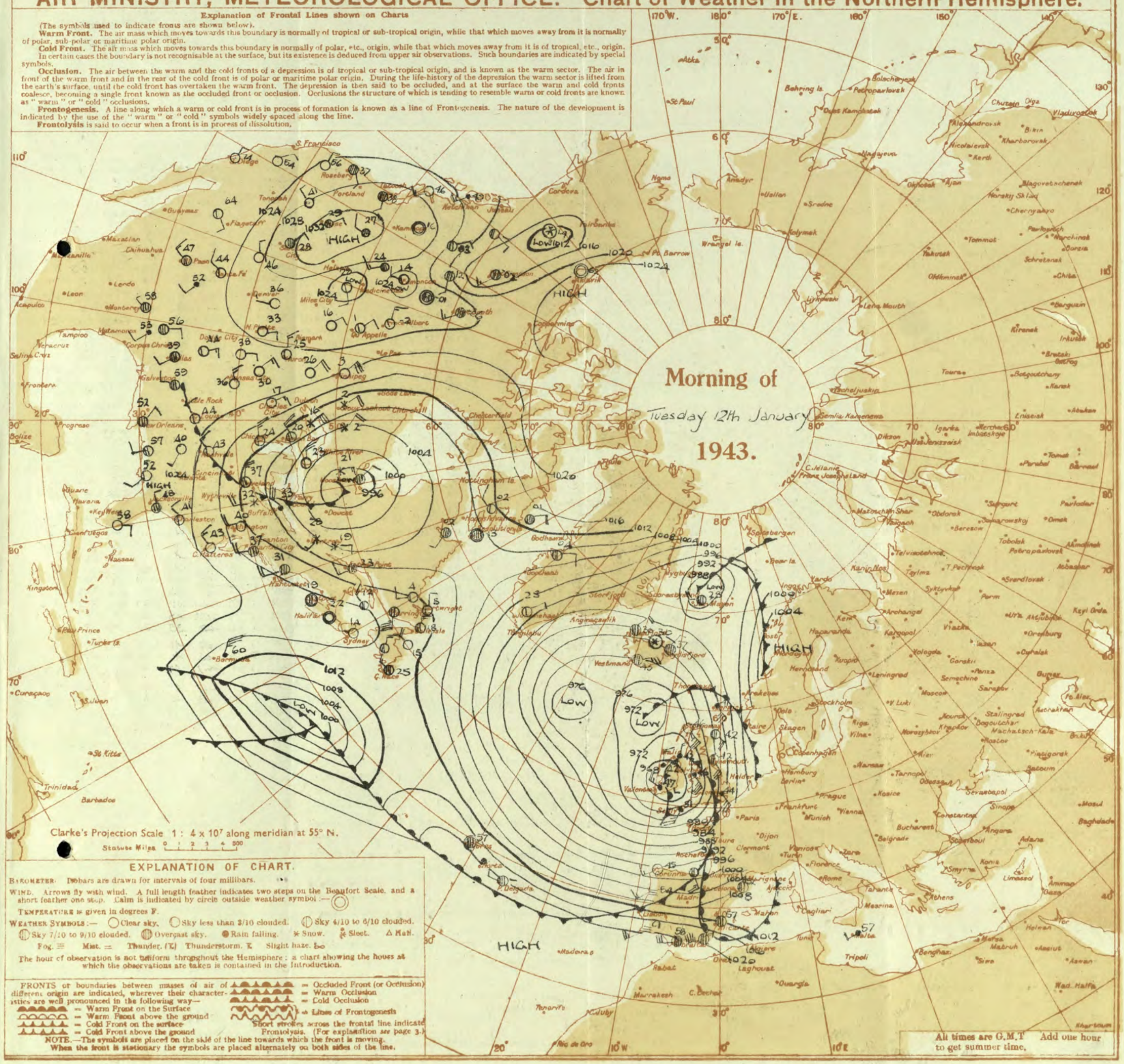
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

Page 4.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Tuesday 12th January 1943
No. 29636

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*		*	*	*	*	*	*	*	*	*
	Croydon	290						44									
	S. Farnborough	226	87·9	-50	SSE	5	rr	44	97	43	4	5	-	-	10	10	1600
	Boscombe Down	417	85·2	-54	SSE	5	roro	43	92	41	5	5	-	-	10	10	1000
	Thorney Island	10	82·0	-70	SE	6	roro	43	97	43	6	5	2	-	9+	10	1000
	Lympne	283	87·4	-50	SSE	6	zo	46	85	41	6	5	-	-	10	10	2000
	Manston	154	90·5	-50	SSW	5	zo	44	85	41	6	-	2	-	0	10	-
			90·8	-50	S	5	zo	44	85	40	6	-	1	-	0	9+	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12															
	Gorleston	5	90·6	-42	SE'S	5	zo	43	92	40	6	5	2	-	2-3	10	5700
	Mildenhall	15	92·6	-34	SE'E	6	oq	42	92	40	6	5	-	-	10	10	1500
	Cranwell	203	89·3	-42	SE'S	5	zo	44	85	39	6	5	-	-	10	10	6500
			86·7	-42	SSE	6	zo	39	92	38	6	5	-	-	10	10	4800
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408															
4	Ross-on-Wye	223	84·5	-46	S	5	roro	43	85	39	6	5	-	-	10	10	1600
5	Hartland Point	299															
	Bristol	209	72·9	-48	S	5	bc	48	85	44	7	5	-	-	4-6	4-6	1500
	Portland Bill	32	80·8	-52	S	4	ir	45	92	43	6	6	2	-	10	10	1500
	Plymouth	82	81·7	-50	SE	7	rr	47	92	44	6	5	-	-	10	10	2500
	The Lizard	240	74·2	-70	S	7	roro	49	97	48	6	5	2	-	7·8	9+	1000
	Scilly (St. Mary's)	163	72·5	-40	S'E	6	cbc	50	92	48	8	8	-	-	7·8	7·8	1500
	Guernsey	175	69·6	-28	SSW	5	ir	51	92	49	6	5	-	-	10	10	1000
6	Pembroke	142															
7	Holyhead (Valley)	32	70·9	-30	S'E	7	cq	50	92	48	7	8	-	-	10	10	1500
	Chester (Sealand)	16	73·6	-62	SE	6	iro	45	85	42	6	5	-	-	10	10	2500
8	Manchester	235	79·6	-54	S	5	roro	45	92	42	6	5	2	-	2-3	10	1900
			81·2	-54	ESE	6	roro	45	85	39	6	5	2	-	9	10	1500
10	Spurn Head	29															
	Catterick	175	89·1	-30	SE'S	6	b	41	85	37	6	-	-	-	0	0	-
	Tynemouth	108	86·3	-28	SE	3	iro	37	97	36	5	5	-	-	10	10	600
			85·6	-32	SSE	6	bcq	42	85	38	6	5	-	-	4-6	4-6	2500
11	St. Abbs Head	280															
	Leuchars	36	83·0	-32	SE	4	cbc	40	92	38	5	5	-	-	7·8	7·8	2500
12	Renfrew (Abbots I.)	19	83·5	-18	SSE	4	rr	41	92	38	6	5	-	-	10	10	2000
	Eskdalemuir	794	79·2	-36	E'S	3	zo	42	85	37	6	5	2	-	4·6	10	2000
	Point of Ayre	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	44	75·5	-48	SSE	7	roro	44	97	43	7	6	2	-	7·8	10	1000
13B	Stornoway	15	74·0	-28	SE	6	roro	45	92	43	7	6	2	-	9	10	1000
15	Dalwhinnie	1176	77·7	+2	SE	7	c	46	85	41	8	5	-	-	10	10	3200
	Aberdeen †	79															
	Wick	114	85·4	-10	SSE	5	zo	42	85	39	6	5	1	-	7·8	9	1000
16	Sumburgh	19	83·8	+2	S'E	6	bc	43	85	38	8	5	-	-	4-6	4-6	1500
			88·7	-14	SSE	6	o/d	42	97	42	6	5	-	-	10	10	1200
17	Blacksod Point	18															
18	Malin Head	84	68·8	-22	N	3	rr	42	97	41	7	6	2	-	4-6	10	1500
	Aldergrove	268	70·9	-38	S	4	roro	44	85	40	7	-	2	-	10	10	1500
			72·1	-42	SSE	4	dodo	43	92	40	7	5	-	-	10	10	1600
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30															
	Roches Point	22	65·0	+12	NW'N	5	iro	47	92	45	7	5	-	-	10	10	1500
			65·0	-18	S	5	iro	50	97	49	8	6	2	-	4-6	9+	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
1	London (Kew)																	
	Croydon	78·2	-32	SSE	-	zo	46	85	42	6	5	-	-	10	10	1500	1	*
	S. Farnborough	78·9	-32	SSE	5	m/d	46	85	42	4	5	2	-	4·6	10	1600	1	*
	Boscombe Down	77·1	-34	SE'S	5	iro	46	92	44	5	5	-	-	10	10	1400	1	*
	Thorney Island	75·3	-20	SE'S	5	ido	47	97	46	6	5	2	-	7·8	10	800	1	*
	Lympne	77·2	-10	SSE	5	iro	48	92	47	[illegible]	5	7	-	7·8	9	2500	1	*
	Manston	81·7	-40	SSE	5	roro	43	92	41	[illegible]	5	-	-	10	10	1000	1	§ 6
		83·3	-34	S	6	o/r	43	92	42	[illegible]	5	-	-	10	10	1000	1	*
2	Shoeburyness																	
	Felixstowe	82·8	-40	S	5	zo	44	85	40	5	5	-	-	10	10	1500	1	*
	Gorleston	83·1	-36	SE'S	6	dodo	42	92	40	4	6	2	-	9	10	900	1	5
	Mildenhall	84·6	-36	SE'S	7	rr	42	92	40	6	6	-	-	10	10	800	1	5
	Cranwell	81·2	-36	SE'S	6	iro	43	92	40	6	5	-	*	10	10	1200	1	*
		79·2	-38	SSE	5	ido	40	97	39	6	5	-	-	10	10	1800	4	
3	Birmingham																	
	Upper Heyford	75·8	-24	SSE	4	c	44	97	[illegible]	6	5	-	-	9+	9+	1500	1	*
4	Ross-on-Wye	77·1	-24	SE	5	zo	45	92	[illegible]	6	5	-	-	10	10	900	1	*
		73·4	-12	SE'S	4	rr	46	92	44	6	6	1	-	10	10	800	1	
5	Hartland Point																	
	Bristol	69·3	-14	S	3	ir	49	97	[illegible]	7	8	-	-	9+	9+	1500	1	5
	Portland Bill	73·5	-26	S	3	r	47	97	[illegible]	6	5	2	-	10	10	1500	2	*
	Plymouth	75·1	-16	ESE	7	ir	49	97	43	7	5	-	-	9	9	2500	1	6
	The Lizard	70·1	-16	S'W	5	iro	51	97	51	6	5	-	-	10	10	1000	1	5
	Scilly (St. Mary's)	68·4	-4	SSE	5	roro	51	97	51	6	5	-	-	10	10	1000	2	5
	Guernsey	68·6	+20	N'N	4	c	51	97	51	6	5	-	-	10	10	1000	1	5
6	Pembroke																	
7	Holyhead (Valley)	68·6	-4	SE'S	4	dd	48	97	47	7	8	-	-	10	10	1500	1	4
	Chester (Sealand)	70·7	-14	SSE	4	c	47	85	43	7	5	7	-	7·8	10	2200	1	3
8	Manchester	73·6	-18	SSE	4	c	45	92	42	7	5	2	-	4·6	10	1100	1	*
		75·4	-22	E'S	5	zo	45	85	40	6	5	-	-	9	9	2500	1	*
10	Spurn Head																	
	Catterick	80·6	-38	SE	7	zq	41	92	39	7	8	2	-	7·8	10	1500	1	5
	Tynemouth	79·0	-20	SE	4	bro	39	92	39	6	-	2	-	10	10	600	6	*
		79·2	-20	SSE	8	o/r	43	85	39	6	6	-	-	10	10	1500	1	5
11	St. Abbs Head																	
	Leuchars	76·4	-38	SSE	6	oro	43	97	42	6	5	-	-	10	10	1500	1	5
12	Renfrew (Abbots I.)	78·1	-26	SSE	6	rr	43	85	39	6	5	-	-	10	10	1500	1	*
	Eskdalemuir	75·0	-12	ESE	4	o/r	43	85	37	5	5	2	-	7·8	10	2400	2	*
	Point of Ayre	75·7	-14	SE'S	5	rr	39	92	36	5	-	2	-	10	10	400	1	
13A	Tiree	72·0	-10	SSE	6	c	45	85	42	8	8	2	-	4-6	10	1000	1	5
13B	Stornoway	69·8	-22	SE	6	roro	43	97	41	7	6	2	-	9	10	1500	1	6
15	Dalwhinnie	73·4	-22	ESE	6	c	45	85	42	7	5	-	-	10	10	1800	1	4
	Aberdeen †	75·0	-28	SE	5	rr	35	97	34	5	5	-	-	10	10	800	4	*
	Wick	80·8	-16	SSE	5	cbc	45	85	42	7	5	-	-	7·8	7·8	1500	1	5
16	Sumburgh	81·1	-12	S'E	7	c	45	85	41	8	5	7	-	7·8	10	1500	1	*
		87·5	-2	S'E	7	c	43	97	42	6	5	2	-	9+	10	1500	1	6
17	Blacksod Point																	
18	Malin Head	70·7	+18	N'W	3	bc	46	75	39	8	9	-	-	4-6	4-6	1500	2	3
	Aldergrove	67·6	-2	SSE	3	rr	46	97	45	7	8	2	-	7·8	10	1500	2	3
		69·5	-4	SE	4	roro	45	92	44	6	6	-	-	10	10	1200	1	*
19	Birr Castle																	
20	Valentia Obsy.	70·2	+38	SSW	3	c	44	92	42	7	6	2	-	7·8	10	800	1	*
	Roches Point	75·4	+44	NW'W	5	bs/pr	48	65	38	8	3	-	-	4-6	4-6	2500	1	4
		70·7	+46	NNW	6	cbc	46	85	42	8	6	-	-	7·8	7·8	1500	1	§ 5

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 11th (38)
1	London (Kew)						
	Croydon	48	43	40	0·1	3	1·8
	S. Farnborough	51	42	41	0·4	4	2·2
	Boscombe Down	50	40	40	0·6	4	3·0
	Thorney Island	49	43	41	0·1	9	2·5
	Lympne	51	44	40	Tr	3	*
	Manston	49	42	39	3	3	1·5
		50	41	40	0·1	2	1·6
2	Shoeburyness						
	Felixstowe	50	41	37	2	1	2·3
	Gorleston	45	40	38	4	2	[illegible]
	Mildenhall	42	41	37	1	2	0·0
	Cranwell	47	41	35	1	0·5	0·2
		41	39	32	1	2	1·0
3	Birmingham						
	Upper Heyford	47	41	39	-	3	1·0
4	Ross-on-Wye	48	42	40	-	2	*
		49	43	41	0·4	11	2·1
5	Hartland Point						
	Bristol	49	43	42	0·5	4	0·1
	Portland Bill	48	43	42	Tr	10	3·1
	Plymouth	50	43	*	-	3	*
	The Lizard	51	45	44	0·3	17	0·8
	Scilly (St. Mary's)	51	46	*	1	14	0·6
	Guernsey	52	45	*	1	8	0·0
6	Pembroke						
7	Holyhead (Valley)	49	44	*	1	7	0·4
	Chester (Sealand)	49	43	43	0·4	5	*
8	Manchester	53	43	38	0·1	5	3·0
		47	42	39	1	2	*
10	Spurn Head						
	Catterick	41	38	*	2	1	*
	Tynemouth	37	35	33	3	4	0·0
		45	40	36	0·5	1	*
11	St. Abbs Head						
	Leuchars	42	38	*	2	1	*
12	Renfrew (Abbots I.)	43	40	29	0·3	2	0·0
	Eskdalemuir	45	40	*	*	*	0·0
	Point of Ayre	40	36	35	4-	5	0·0
13A	Tiree	47	43		1	5	0·2
13B	Stornoway	46	42	40	3	3	0·0
15	Dalwhinnie	47	44	42	Tr	Tr	0·0
	Aberdeen †	37	35	32	9	13	0·0
	Wick	44	42	39	3	0·1	0·0
16	Sumburgh	43	40	*	Tr	Tr	*
		42	35	31	Tr	2	0·0
17	Blacksod Point						
18	Malin Head	48	41	*	2	3	*
	Aldergrove	46	41	*	0·2	3	0·4
		47	40	36	3	14	0·6
19	Birr Castle						
20	Valentia Obsy.	47	43	41	1	8	1·8
	Roches Point	48	44	41	7	8	1·1
		49	46	*	2	12	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. (11th January) $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. (12th January) $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109												
115	52	22645	45768	52	62646	65863	52	02644	47666	52	02645	45728
203	87	44844	75826							52	14844	79727
206	8-	02846	08526				5-	01953	12563			
210	57	0-854	41828	62	22757	41468	57	02865	16328	57	02855	43828
220	5-	61557	44727	52	22647	46468	02	02890	45428	5-	22845	43468
230	52	61755	13668	62	03745	16568				62	66636	13768
245	8-	81757	41487	62	61855	16387	02	62758	57388	62	62855	14468
260	6-	62527	22668	62	05536	47568	52	61643	15418	52	05647	48568
278	52	05635	45468	52	22545	49568	52	05665	16228	52	62644	49267
279	62	62637	44468	23	01851	18463	62	64637	46768	62	22635	43668
285	5-	61647	13667	10	01861	17663	52	61544	13668	57	05645	09368
288				27	05635	18386				02	64628	12568
575	52	51623	43568	23	05653	15416	51	05652	46618	62	64658	43668
301	5-	22836	53536	56	01853	20284	62	62636	45468	62	64636	14168
321	87	02744	23548	50	05552	14568	02	61548	47768	52	22447	12568
[illegible]	5-	05527	48427	51	05545	15328	02	05590	14428	52	62635	46468
292	8-	22638	14768	40	05653	20513	5-	05455	17615	8-	62648	14768
310	62	21536	13368	50	08463	15328	62	05668	12328	62	62545	12468
614					01634	24414						
							51	08466	47428	52	51545	47528

III	13h. G.M.T. (11th January) $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. (12th January) $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333												
334	53	02854	53686	52	02756	47428	62	02758	43668	57	22756	12468
340	--	27645	24486	--	02744	28416				--	64647	20568
136	86	02745	53625	52	02763	15388				5-	62535	12568
336	5-	62518	15468	00	05590	16360	02	05690	15428	5-	22628	48668
350	12	28754	20586							--	67209	20469
368	8-	81654	21428	00	05690	16328				52	61635	47468
379	84	01654	53515	52	02655	16388	02	62548	45668	02	62548	45468
390	50	22653	18463	57	61655	18328				6-	62638	49468
382	57	08455	20366	07	45290	14248	5-	05566	16449	5-	22547	47468
438	16	01753	53324	57	02764	16328	5-	62546	48668	5-	51548	48028
430	5-	05654	20414	5-	02647	20427	5-	62748	20668			
409	5-	02754	20425				5-	22548	48768	6-	05647	49528
	25	02833	52528	52	62754	49668	50	01743	48763	5-	62678	17368

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 12th January, 1943
Day 7h—18h Kew and Croydon. 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	idobbczo	czocmo	cmorc
Croydon	cirmobcz	czocmo	cmpcido
Greenwich	obc	bcc	crc
Camden Square	o	c	*
Kensington	cmbc	bcoe	*
Hampstead	ofbc	bcor	o

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. [illegible] 0·3 16-18h 11th. Min. Time <0·1 0-7h 12th.

Stations	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 % Yesterday	Humidity 9h % To-day
Kew	48	43	40	0·1	3	1·8	*	*
Croydon	51	42	41	0·4	4	2·2	*	*
Greenwich	51	42	37					
Westminster			40		1·3		65	83
Regents Park	49	43	42	-	1·4		68	81
Camden Square	50	43	40	-	1·0	*	*	86
Kensington	52	43	39	Tr	1·6		81	85
Hampstead	49	41	37	-	1·9		*	99

SECRET

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BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Wednesday 13th January 1943

No. 29637

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Med. (11)	High (12)	Amount Low 0–10 (13)	Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	78·0	-2	SE'S	3	iro	47	85	44	6	5	-	-	10	10	1500
	Croydon	78·6	-4	SE	4	dodo	46	97	46	6	5	-	-	10	10	800
	S. Farnborough	77·3	+2	SSE	3	dd	47	92	45	5	5	-	-	10	10	700
	Boscombe Down	76·7	+10	SSE	4	roro	47	97	47	6	6	2	-	9+	10	600
	Thorney Island	77·1	0	SSE	4	o/r	49	85	44	7	5	-	-	10	10	1500
	Lympne	80·0	-18	SE	5	c	45	92	43	7	5	2	-	9	10	800
	Manston	80·8	-10	S'E	4	iro	45	92	43	8	5	7	-	4-6	10	1800
2	Shoeburyness	80·5	-10	S'E	5	o/d	46	85	42	8	5	-	-	10	10	1500
	Felixstowe	81·0	-14	SE'S	5	zo	43	92	41	6	5	2	-	7-8	9+	1500
	Gorleston	81·9	-6	SE'S	6	zo	42	92	40	6	8	-	-	10	10	1000
	Mildenhall	79·7	-6	SE'S	5	c	45	85	41	7	5	7	-	4-6	9	1200
	Cranwell	78·8	-6	SSE	5	zo	43	92	41	6	6	2	-	7-8	10	500
3	Birmingham	76·4	+2	SSE	3	rr	45	97	44	6	6	-	-	10	10	800
	Upper Heyford	76·9	+4	SE	4	rr	45	97	45	5	5	2	-	9+	10	500
4	Ross-on-Wye	74·9	+6	SSE	3	iro	49	97	48	6	6	2	-	7-8	10	800
5	Hartland Point	78·8	+64	NW	5	c	47	75	40	8	2	4	-	2-3	9	1200
	Bristol	75·8	+16	S	3	roro	50	97	49	6	-	2	-	10	10	1000
	Portland Bill	76·7	+8	SSW	4	ir	50	92	48	7	5	-	-	10	10	2500
	Plymouth	79·3	+64	NW'W	6	c	49	75	42	8	5	7	-	4-6	9	2000
	The Lizard	80·8	+50	NW	7	bc	49	75	42	7	8	7	-	4-6	4-6	1500
	Scilly (St. Mary's)	82·9	+70	NW	6	bc	51	75	42	8	8	6	2	2-3	4-6	1200
	Guernsey															
6	Pembroke	77·8	+40	NW	7	Gbc	48	75	42	8	7	-	-	7-8	7-8	2000
7	Holyhead (Valley)	75·2	+30	W	4	c/r	47	92	45	8	5	7	-	7-8	9+	2000
	Chester (Sealand)	74·6	+6	SSE	3	iro	47	92	45	5	-	2	-	10	10	800
8	Manchester	75·8	+2	E'S	4	roro	46	92	43	6	5	-	-	10	10	1500
10	Spurn Head	80·1	-6	SE'S	5	pr	41	92	39	6	5	-	-	10	10	1500
	Catterick	78·8	0	SSE	3	df	40	97	40	2	-	-	-	10	10	<150
	Tynemouth	78·5	0	SSE	6	cq	43	97	42	7	6	-	-	10	10	1500
11	St. Abbs Head	77·1	+2	SE	5	c/r	42	97	41	7	5	2	-	7-8	10	1600
	Leuchars	77·0	-12	SE	5	iro	43	92	41	6	5	2	-	9+	10	1200
12	Renfrew (Abbots I.)	75·5	+2	ESE	3	roro	43	92	40	5	5	2	-	4-6	10	2000
	Eskdalemuir	75·9	0	SE	3	iro	40	92	38	6	6	-	-	10	10	800
	Point of Ayre	74·0	+14	S'E	5	dodo	46	92	44	6	6	2	-	9	10	1000
13A	Tiree	72·8	+20	SSE	1	rr	44	97	43	6	5	-	-	7-8	10	600
13B	Stornoway	73·3	0	ESE	6	c/r	46	92	44	8	5	7	-	7-8	10	2500
15	Dalwhinnie	76·0	0	SSE	3	iro	37	97	36	6	5	-	-	10	10	1500
	Aberdeen	79·2	-8	SSE	5	roro	44	92	43	6	6	2	-	7-8	10	800
	Wick	79·4	-2	SE	8	iro	44	85	41	6	5	2	-	4-6	10	800
16	Sumburgh	86·6	-2	SE	8	roro	42	97	42	6	5	2	-	9+	10	700
17	Blacksod Point	75·9	+32	W	5	bc/pr	50	75	43	8	9	-	-	4-6	4-6	1500
18	Malin Head	72·8	+22	S'W	2	c-bc	46	85	42	8	8	-	-	7-8	7-8	2500
	Aldergrove	74·0	+34	W'S	2	c/r	45	85	39	9	5	7	-	4-6	9	3000
19	Birr Castle	79·8	+16	WNW	2	c-bc	49	75	42	8	5	-	5	2-3	7-8	2500
20	Valentia Obsy.	94·5	+48	WNW	5	bc	50	75	43	8	2	-	1	4-6	4-6	2500
	Roches Point	80·8	+28	WNW	4	bc	50	75	43	8	3	-	5	2-3	4-6	2500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Med. (26)	High (27)	Amount Low 0–10 (28)	Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	81·4	+24	S'E	1	roro	47	97	46	4	6	2	-	9	10	1500	1	*
Croydon	81·0	+16	SSE	2	roro	47	97	47	4	-	2	1	10	10	1100	1	*
S. Farnborough	81·6	+32	W'N	5	roro	47	97	47	5	5	-	-	10	10	1100	1	*
Boscombe Down	83·6	+56	WNW	5	c	45	85	41	7	5	7	-	4-6	9	2500	2	*
Thorney Island	82·5	+44	W'N	5	roro	47	85	44	5	6	2	-	4-6	10	1500	1	*
Lympne	82·1	+18	SSE	4	ido	45	97	45	5	5	2	-	9+	10	200	1	§5
Manston	82·3	+10	S	4	dd	45	97	45	4	5	-	-	10	10	300	1	*
Shoeburyness	81·9	+14	S	3	zo	44	97	44	6	5	-	-	10	10	1500	1	*
Felixstowe	82·3	+14	S'E	4	dodo	43	92	42	5	5	-	-	10	10	1300	1	4
Gorleston	82·4	+4	SE'S	4	roro	42	97	41	5	6	-	-	10	10	800	1	5
Mildenhall	81·5	+14	SE	3	roro	45	92	43	5	5	-	-	10	10	700	1	*
Cranwell	80·8	+16	SSE	3	rr	43	97	43	5	6	2	-	9	10	300	4	*
Birmingham	81·9	+46	NW	3	iro	46	85	42	7	6	7	-	4-6	9+	800	1	*
Upper Heyford	80·7	+30	W'N	4	roro	45	97	45	6	5	-	-	10	10	1300	1	*
Ross-on-Wye	83·3	+54	W	4	c-bc	46	75	39	8	8	7	2	2-3	7-8	2500	1	*
Hartland Point	86·8	+52	WNW	4	c	49	85	43	7	5	4	-	7-8	9	1500	1	4
Bristol	85·3	+54	W	4	c	45	65	31	6	5	7	8	2-3	9+	2500	2	*
Portland Bill	85·6	+40	W	5	c	49	92	47	8	5	-	-	10	10	2500	1	6
Plymouth	88·4	+50	WNW	5	c/pr	49	85	46	6	5	3	-	4-6	9	2000	1	4
The Lizard	89·9	+40	WNW	6	bc	50	75	43	7	8	-	-	4-6	4-6	1500	1	5
Scilly (St. Mary's)	90·3	+42	NW'W	6	c/pr	49	85	45	7	8	6	4	7-8	9	1200	1	6
Guernsey																	
Pembroke	85·1	+10	WNW	5	bc	49	85	45	8	5	-	-	4-6	4-6	1500	1	4
Holyhead (Valley)	82·2	+38	WSW	5	c-bc	48	85	43	8	8	3	-	4-6	7-8	3000	1	3
Chester (Sealand)	81·1	+22	NNW	1	zo	47	75	40	5	5	3	-	2-3	7-8	1500	1	*
Manchester	81·0	+40	WSW	3	c/r	45	92	43	6	6	7	-	4-6	9+	1200	1	*
Spurn Head	80·8	+6	SE	5	roro	41	97	40	6	6	-	-	10	10	1500	1	4
Catterick	80·7	+18	SSE	1	+f	40	97	40	2	-	-	-	10	10	<150	1	*
Tynemouth	80·1	+12	SSE	6	roro	43	92	41	6	6	-	·	10	10	1500	1	5
St. Abbs Head	78·6	+8	SSE	4	voro	42	97	41	6	5	-	-	10	10	1500	1	4
Leuchars	79·1	+18	ESE	4	+r	42	97	41	5	-	2	-	10	10	2000	1	*
Renfrew (Abbots I.)	78·6	+30	-	0	c/r	43	92	41	4	5	7	-	9	9	2500	2	*
Eskdalemuir	78·5	+18	-	0	roro	40	97	39	6	-	2	-	10	10	900	1	*
Point of Ayre	79·2	+34	W'N	3	bc	45	92	43	8	4	4	-	1	4-6	2000	1	3
Tiree	76·0	+22	SSE	2	c-bc	46	92	43	9	8	3	-	4-6	7-8	2500	1	4
Stornoway	75·8	+18	SSE	6	c	45	97	44	7	5	1	-	4-6	9+	2500	1	4
Dalwhinnie	77·5	+10	SSE	3	ir	37	97	36	6	5	2	-	7-8	10	1500	4	*
Aberdeen	80·5	+12	SSE	5	zo	45	92	43	6	6	2	-	7-8	10	1000	1	6
Wick	79·5	+2	SE	7	roro	44	92	42	6	5	-	-	10	10	800	1	*
Sumburgh	85·8		SE	8	ir	41	97	41	6	6	2	-	9+	10	600	1	6
Blacksod Point	81·6	+34	W	6	bc	48	75	41	7	9	-	6	2-3	4-6	1500	1	5
Malin Head	77·1	+34	W'S	3	c-bc	46	85	42	8	8	-	-	7-8	7-8	1500	2	3
Aldergrove	78·9	+30	SW'W	3	bc	44	92	41	8	5	7	-	2-3	4-6	2500	1	*
Birr Castle	84·1	+40	WSW	2	c	45	85	41	8	5	1	-	7-8	9	2500	1	*
Valentia Obsy.	88·7	+34	W'S	5	bc/pr	48	75	41	8	8	-	-	4-6	4-6	2500	1	5
Roches Point	87·4	+42	WNW	3	bc	47	85	43	8	3	-	5	2-3	4-6	2500	1	5

PAST 24 HOURS.

Stations	Weather 7h.—13h. 12th (39)	13h.—18h. 12th (40)	18h. 12th to 1h. 13th (41)	1h.—7h. 13th (42)
London (Kew)	iroc iromo	cdomovom	qrbcmo	bcbmo
Croydon	cmocdodomo	dodomro	robcmo	bcmo
S. Farnborough	ciromororocbm	cmddio++o	cmorombcbm	bbcmowb
Boscombe Down	crorom	cro++moc	bcmcmobmo	cpromobc
Thorney Island	cmororoc	cirorroro	cmorrbcmbm	bmob
Lympne	cmoroc	cdo ddo m	cidofrorom	bmo
Manston	rrcv	pddmddo	oddrrmo	cbcbmo
Shoeburyness	cido	cmobdo	cmorrbcmo	bczo
Felixstowe	dodoirocmo	cidomodoodom	rorocmo	bmobcmoz
Gorleston	oroc	odororo	oror	orocbc
Mildenhall	ccircoc	crorom	crorombmo	bbcmobbc
Cranwell	cidocmo	cdodomcrrm	crrmocmbcm	bcmobmo
Birmingham	corr	o++qc	mrc	cb
Upper Heyford	mododo iro	crrmorrm	crorimob	bbmo
Ross-on-Wye	rrc	+ocqpc	bccpoc	bcb
Hartland Point	iriroc	cbcc	cbccbc	bcpr
Bristol	croro	crorom oc	cmocbc	bbcpro
Portland Bill	pir	c	cbc	bcc
Plymouth	cmorodc	cprocmo	cmoprobc	cbcprob
The Lizard	rrcbc	bccbc	bcprc	cprbc
Scilly (St. Mary's)	cbrcbc	bccpq	cbcpr	bc
Pembroke	c	bcq	bcbq	bcqpr
Holyhead (Valley)	cororoc	c	bcbbc	bcbbc
Chester (Sealand)	rororof	mrororc	cbcc	bcirzo
Manchester	roromo	+oromo	cbbcmo	bcmo
Spurn Head	opro	ororo	ocmo	bbmo
Catterick	fmfodf	dodororof	Fbcm	bcmocmo
Tynemouth	orq	ororo	ororocm	cmbc
St. Abbs Head	omdocirco	cirorom	cmorrcbc	bc
Leuchars	crrmoc	crrmo	rrirorrbcmo	cbcmo
Renfrew (Abbots I.)	czocmororo	rorom	aidorofm	cmprobcm
Eskdalemuir	orr ciro	oirororo	croiro	cbcpr
Point of Ayre	dodo	++cbc	bccb	b
Tiree	crrmo	++cbcc	bcprcpro	cprpRpr
Stornoway	ciroc	ccrororc	prbc	bcbc
Dalwhinnie	oirco	ociro		oiroc
Aberdeen	cromorr	crorormo	ccrrroro	rrrorocdef
Wick	ciromo	crorormo	cror	rororc
Sumburgh	cceroromo	crororoiro	croromo	crormo
Blacksod Point	c	pr	bc	pr
Malin Head	r	r	r	pr
Aldergrove	ciroc	cbc	cbcc	cbcb
Birr Castle	c	c		pr
Valentia Obsy.	r	pr	pr	pr
Roches Point	bc	pr	bc	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 13th January 1943

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands, 5 S.W. England ↓, 6 South Wales ↓	Freshening southeast winds becoming strong to gale at exposed places; fair at first; rain later; rather cold.
7 North Wales, 8 N.W. England	Light or moderate Southwest wind backing; mainly fair; local morning fog; rather cold.
9 N. Midlands, 10 N.E. England, 11 S.E. Scotland	Light or moderate southwest wind backing; fair at first; rain tomorrow; local morning fog; rather cold.
12 S.W. Scotland & Isle of Man, 13A W. Scotland, 13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland ↓	Light or moderate South or Southwest wind; bright intervals; local showers rather cold; frost locally at night.
16 Orkneys and Shetlands ↓, 17 N. W. Ireland, 18 N. E. Ireland	As 12-15
19 S. E. Ireland, 20 S. W. Ireland	Light variable winds becoming west, moderate or fresh; bright intervals; showers; rather cold.

GENERAL INFERENCE

A deep depression is approaching southwest England. Weather will be mainly fair at first but rain is expected in Southwest districts this afternoon spreading northeast later.

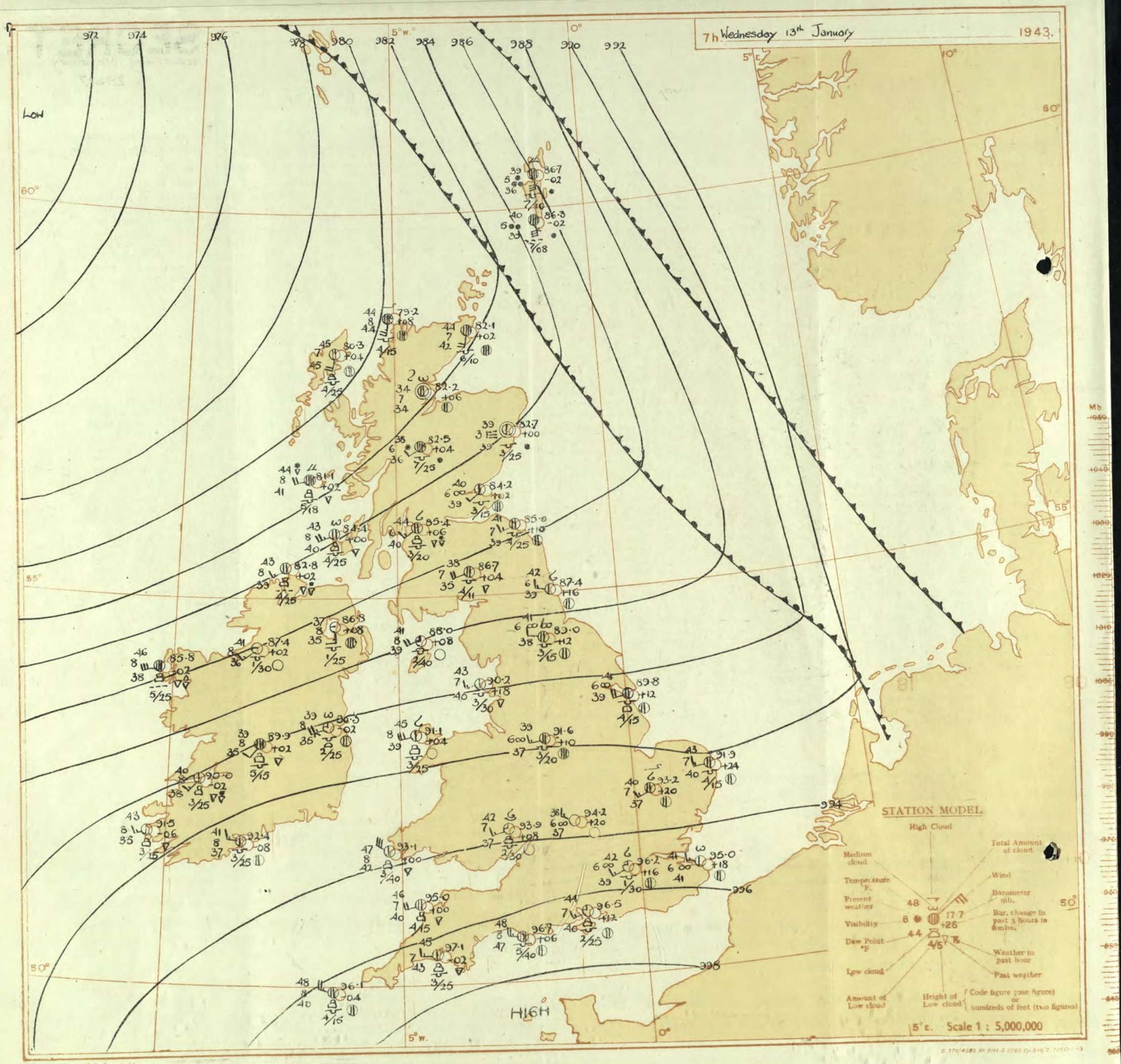
FURTHER OUTLOOK

Unsettled; rain in the North; bright intervals and showers in the South.

↓ Gale warning in operation in districts 5, 6, 15, 16 Times of issue 09·30 on 9th Jan 1943 district 16 10·35 on 10th Jan 1943 district 15 0900 on 13th Jan 1943 districts 5, 6

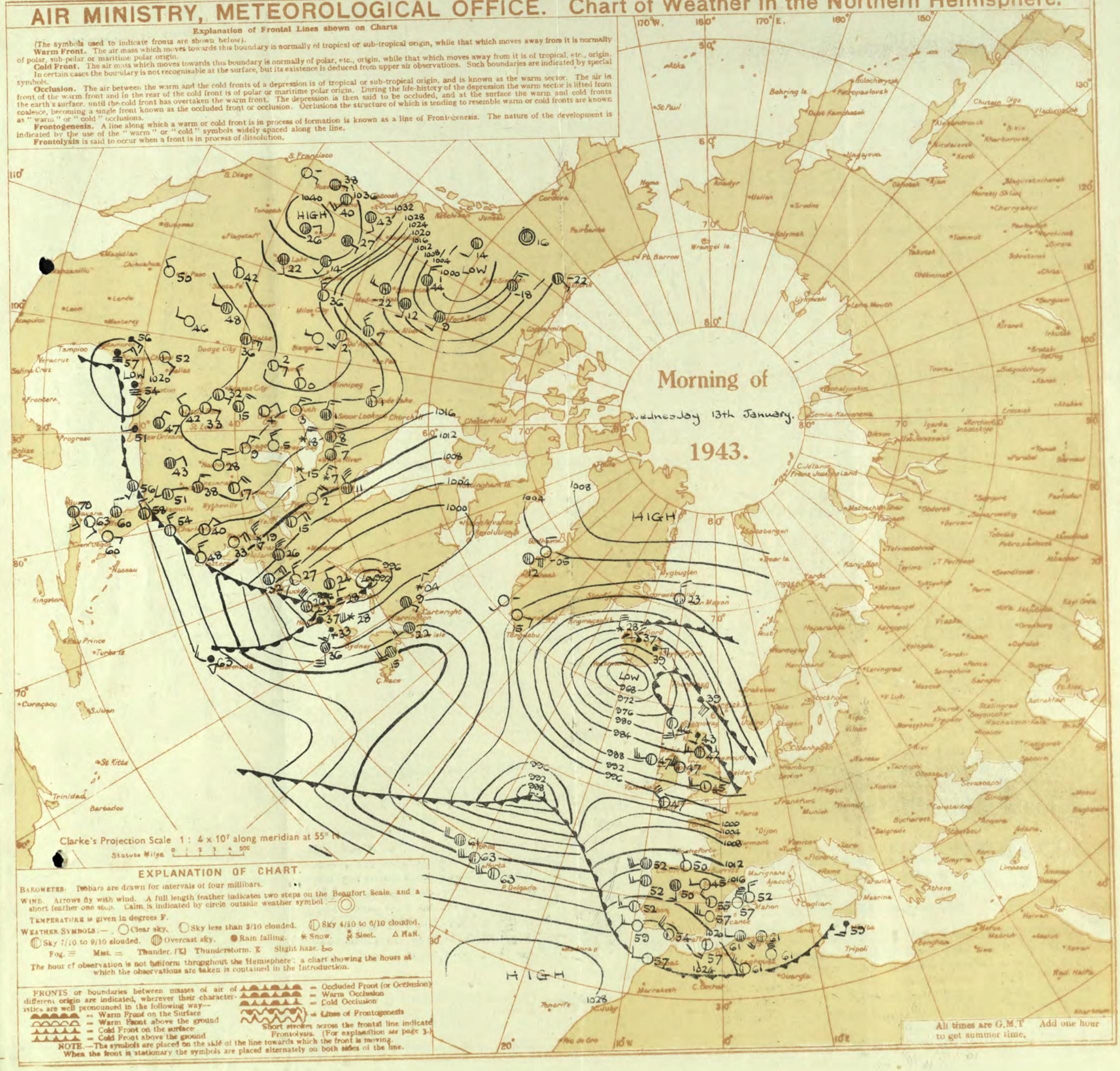
Forecasts issued at 10·30

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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



Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Wednesday 13th January 1943

No. 29637

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Med. (11)	High (12)	Amount Low 0–10 (13)	Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	43	*	*	*	*	*	*	*	*	*
	Croydon	290	92.0	+38	w	4	z.	45	85	41	6	5	-	-	2-3	2-3	3000
	S. Farnborough	226	92.2	+22	wsw	4	z.	44	85	38	6	5	-	-	2-3	2-3	2000
	Boscombe Down	417	93.5	+26	w'N	4	z.	44	85	41	6	-	-	-	0	0	-
	Thorney Island	10	93.2	+36	w	4	z.	45	85	40	6	-	3	-	0	1	-
	Lympne	283	90.9	+54	sw	3	z.	44	92	41	6	5	-	-	4-6	4-6	900
	Manston	154	90.2	+50	wnw	4	c/r	45	85	41	6	5	-	-	10	10	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	88.8	+38	w'N	4	c/r	43	92	41	5	5	-	-	10	10	6300
	Gorleston	5	87.0	+24	w	2	r.r.	44	92	42	6	6	-	-	10	10	800
	Mildenhall	15	88.7	+46	wsw	4	z.	43	92	41	6	5	-	-	2-3	2-3	5000
	Cranwell	203	88.1	+28	w	4	z.	43	92	41	6	5	3	-	2-3	4-6	4000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	90.4	+34	wnw	5	b-bc	44	85	40	7	-	4	·	0	2-3	·
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	94.0	+24	wnw	5	b-bc	47	75	40	7	2	-	-	2-3	2-3	2500
	Bristol	209	93.4	+26	w	2	b-bc	44	85	41	7	4	-	1	Tr	2-3	4000
	Portland Bill	32	94.8	+30	w	5	b-bc	48	92	47	7	5	-	-	2-3	2-3	2500
	Plymouth	82	96.4	+20	wsw	5	c-bc	47	85	44	7	5	-	8	4-6	7-8	2500
	The Lizard	240	97.1	+30	w	6	c-bc	48	75	41	8	8	-	-	7-8	7-8	1000
	Scilly (St. Mary's)	163	96.8	+16	wnw	6	bc/pr	47	85	43	8	8	-	-	4-6	4-6	1500
	Guernsey	175															
6	Pembroke	142	92.3	+20	wnw	6	b	48	85	43	8	1	-	-	1	1	4000
7	Holyhead (Valley)	32	89.5	+24	w	5	bc	47	85	43	8	8	3	-	2-3	4-6	2800
	Chester (Sealand)	16	88.1	+26	wsw	2	c-bc	47	75	40	8	5	1	-	4-6	7-8	2500
8	Manchester	235	88.5	+32	sw'w	4	z.	45	85	41	6	5	-	-	4-6	4-6	3500
10	Spurn Head	29	85.9	+18	w	4	z.	42	92	39	6	5	3	-	4-6	7-8	1500
	Catterick	175	86.2	+26	w'N	1	m	36	97	36	4	5	7	-	2-3	4-6	1500
	Tynemouth	108	83.9	+8	w	3	m	42	92	39	4	2	-	-	7-8	7-8	2500
11	St. Abbs Head	280	82.1	+10	sw	3	bc	41	92	37	7	5	-	-	4-6	4-6	2500
	Leuchars	36	82.8	+14	-	0	z.	40	97	39	6	5	-	-	2-3	2-3	1500
12	Renfrew (Abbots I.)	19	83.3	+10	wsw	2	m/f	42	92	40	4	5	1	-	7-8	10	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	85.7	+22	w'N	5	b	45	85	42	8	5	-	5	Tr	Tr	2500
13A	Tiree	44	80.6	+14	sw	3	c/pr	45	85	41	8	8	1	6	2-3	10	2500
13B	Stornoway	15	79.4	+10	SSE	5	bc	46	97	46	7	8	-	-	4-6	4-6	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	82.8	+6	S'w	2	r.r.	43	97	42	6	5	2	-	9	10	500
	Wick	114	81.7	+10	S'E	6	r.r.	44	97	43	5	5	-	-	10	10	700
16	Sumburgh	19	86.5	0	SSE	7	r.r.	41	97	41	6	6	2	-	9	10	600
17	Blacksod Point	18	85.9	+8	wsw	5	bc	47	75	40	8	8	-	-	4-6	4-6	2500
18	Malin Head	84	82.4	+14	sw	5	c/r	45	85	41	8	8	2	-	7-8	10	1500
	Aldergrove	268	85.6	+18	sw	3	c	46	92	44	8	5	-	6	2-3	9	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	92.6	+6	w'S	5	b-bc	47	65	37	8	2	-	-	2-3	2-3	2500
	Roches Point	22	93.0	+10	w	3	b	45	85	41	8	5	-	-	1	1	2500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Med. (26)	High (27)	Amount Low 0–10 (28)	Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	95.5	+16	sw	3	z.	41	92	39	6	5	-	-	2-3	2-3	1500	1	*
Croydon	96.2	+16	wsw	3	z.	42	85	39	6	5	4	-	Tr	1	3000	1	*
S. Farnborough	95.9	+14	sw	4	b	41	92	38	8	-	4	-	0	Tr	-	1	*
Boscombe Down	97.0	+10	w'S	3	bc	39	85	35	7	5	-	-	4-6	4-6	2500	1	*
Thorney Island	96.5	+12	w'S	3	b	44	85	40	7	8	-	-	1	1	2500	1	*
Lympne	96.3	+22	wsw	2	b-bc	39	97	38	7	-	4	1	0	2-3	·	1	§ 4
Manston	95.0	+18	w	3	z.	41	97	41	6	-	3	-	0	2-3	-	1	*
Shoeburyness	95.6	+20	SSW	3	z.	42	85	38	5	5	-	-	2-3	2-3	2500	1	*
Felixstowe	93.8	+22	wsw	4	z.	41	85	37	6	-	7	2	0	4-6	·	1	4
Gorleston	91.9	+24	wsw	3	bc	48	92	40	7	5	-	-	4-6	4-6	1500	1	3
Mildenhall	93.2	+20	sw	3	bc	40	85	37	7	-	4	8	0	4-6	·	1	*
Cranwell	92.2	+18	S'E	5	z.	40	92	37	6	-	7	1	0	4-6	-	1	*
Birmingham	93.4	+8	sw	3	b	39	92	37	8	5	-	-	Tr	Tr	1500	1	*
Upper Heyford	94.2	+20	w'N	3	z.	38	97	37	6	-	-	-	0	0	-	1	*
Ross-on-Wye	93.9	+8	sw'w	3	b	42	85	37	7	8	-	9	1	1	3000	1	*
Hartland Point	95.0	0	wsw	4	bc	46	85	40	7	3	-	-	4-6	4-6	1500	1	
Bristol	95.6	+8	sw	3	b-bc/pr	42	85	39	7	2	-	-	2-3	2-3	2500	2	
Portland Bill	96.7	+6	w	5	c-bc	48	92	47	8	5	-	-	7-8	7-8	4000	1	6
Plymouth	97.1	-2	w	3	b-bc	45	92	43	7	8	-	-	2-3	2-3	2500	1	2
The Lizard	96.6	-6	w	4	bc	48	97	47	8	8	-	-	4-6	4-6	1500	1	5
Scilly (St. Mary's)	96.1	-4	w	5	bc	48	75	40	8	8	-	-	4-6	4-6	1500	1	5
Guernsey																	
Pembroke	93.1	0	w'N	6	b-bc	47	85	42	8	2	-	·	2-3	2-3	4000	1	4
Holyhead (Valley)	91.1	+4	sw'w	6	b-bc	45	75	39	8	8	4	-	2-3	2-3	2500	1	4
Chester (Sealand)	90.9	+6	sw	2	c	43	85	38	6	5	1	-	7-8	9	2500	1	*
Manchester	91.2	+10	S	3	z.	39	92	37	6	5	·	-	2-3	2-3	3000	1	*
Spurn Head	89.8	+12	wsw	4	z.	41	92	39	6	7	-	-	4-6	4-6	1500	1	3
Catterick	89.0	+12	w	2	z.	41	85	38	6	5	7	-	2-3	4-6	1500	1	*
Tynemouth	87.4	+16	w	3	b-bc	42	92	39	6	-	4	-	0	2-3	-	1	3
St. Abbs Head	85.0	+10	sw	3	bc	41	92	39	7	5	-	-	4-6	4-6	2500	1	3
Leuchars	84.2	+2	sw	1	z.	40	97	39	6	5	-	-	2-3	2-3	1500	1	*
Renfrew (Abbots I.)	85.4	+6	sw'S	3	bc/pr	44	85	40	6	8	4	-	2-3	4-6	2000	2	*
Eskdalemuir	86.7	+4	sw'w	4	bc	38	92	35	7	5	-	-	4-6	4-6	1100	1	*
Point of Ayre	88.0	+8	w'S	4	b	41	92	39	8	4	-	-	1	1	4000	1	4
Tiree	81.1	+2	sw'w	4	pr	44	92	41	8	8	2	-	7-8	10	1800	1	3
Stornoway	80.3	+4	S	4	bc	45	97	45	7	8	-	-	4-6	4-6	2500	1	3
Dalwhinnie	82.5	+4	sw	2	ir.	38	92	36	6	5	-	-	9+	9+	2500	1	*
Aberdeen †	82.7	0	-	0	b-bcf+	39	97	39	3	5	-	-	2-3	2-3	2500	1	4
Wick	82.1	+2	S'E	4	c	44	92	42	7	5	-	-	9	10	1000	1	*
Sumburgh	86.3	-2	SSE	6	r.r.	40	97	39	5	6	2	-	9+	10	800	1	6
Blacksod Point	85.8	-2	wsw	6	c-bc/phr	46	75	38	8	9	-	-	7-8	7-8	2500	1	5
Malin Head	82.8	+2	sw'S	3	bc/pr	43	85	39	8	9	-	-	4-6	4-6	2500	2	4
Aldergrove	86.8	+8	S	3	b	37	92	35	8	5	-	-	Tr	Tr	2500	1	*
Birr Castle	89.9	+2	SSW	2	c-bc	39	85	35	8	8	-	-	7-8	7-8	1500	1	*
Valentia Obsy.	91.5	-6	sw'w	3	b-bc	43	75	35	8	2	-	-	2-3	2-3	2500	1	2
Roches Point	92.4	-8	w	3	b-bc	41	85	37	8	5	-	-	2-3	2-3	2500	1	4

PAST 24 HOURS

Stations	Temperature Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Night 18h–7h mm. (37)	Sunshine 12th Hrs. (38)
London (Kew)	48	41	35	1	1	0.0
Croydon	47	41	37	1	3	0.0
S. Farnborough	47	40	35	4	1	0.0
Boscombe Down	48	38	32	5	0.4	0.0
Thorney Island	49	44	38	5	0.3	*
Lympne	46	39	34	1	2	0.0
Manston	46	41	37	1	3	0.0
Shoeburyness	46	40	35	0.2	2	0.2
Felixstowe	45	41	37	0.4	2	[illegible]
Gorleston	43	42	40	1	0.5	[illegible]
Mildenhall	46	40	35	2	3	0.0
Cranwell	44	40	37	4	5	0.0
Birmingham	46	39	36	10	0.1	0.0
Upper Heyford	46	37	33	10	0.1	*
Ross-on-Wye	49	41	36	7	0.1	0.0
Hartland Point	51	44	41	1	1	1.2
Bristol	51	41	38	10	2	0.0
Portland Bill	50	45	*	3	-	*
Plymouth	51	44	35	8	Tr	0.8
The Lizard	51	46	*	1	0.5	3.4
Scilly (St. Mary's)	51	46	*	0.4	0.5	4.1
Guernsey						
Pembroke	50	45		1	Tr	1.0
Holyhead (Valley)	49	43	41	3	-	*
Chester (Sealand)	48	43	37	4	0.4	0.0
Manchester	47	39	34	5	0.3	*
Spurn Head	41	39	*	3	4	0.0
Catterick	40	35	31	3	1	0.0
Tynemouth	43	41	38	2	4	*
St. Abbs Head	43	39	*	2	3	*
Leuchars	43	37	30	3	3	0.0
Renfrew (Abbots I.)	43	40	*	*	1	0.0
Eskdalemuir	41	37	34	4	3	0.0
Point of Ayre	46	41	*	5	-	0.0
Tiree	46	44	40	12	3	0.6
Stornoway	47	44	40	3	0.5	0.0
Dalwhinnie	38	36	32	9	0.6	0.0
Aberdeen †	45	39	31	3	6	0.0
Wick	45	43	*	0.6	4	*
Sumburgh	44	35	34	1	4	0.0
Blacksod Point	51	43	*	1	1	*
Malin Head	47	42		7	1	0.2
Aldergrove	47	37	32	4	0.1	0.8
Birr Castle	49	37	37	-	1	1.5
Valentia Obsy.	50	42	37	0.5	0.2	2.0
Roches Point	51	41	*	0.1	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

IIIC	13h. G.M.T. 12th January $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 13th January $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	52	61645	46768	52	51648	45658	5-	62548	45558	5-	02755	14365
115	52	14844	79727	52	62735	12488	54	02854	16225	5-	02844	16527
203	5-	02848	08428	5-	22848	16468	5-	02346	16426			
206	57	02866	08528	52	62754	00068	50	01861	26221	03	01790	00014
210	5-	22845	12368	5-	61844	46568	5-	22866	13366	57	02855	12228
220	62	64745	23368	80	01745	15315				57	22745	00067
230	62	52655	10258	87	21854	00057	9-	22855	17365	9-	82648	51488
245	62	62637	45668	62	62627	45568	52	22655	26168	52	05643	22228
260	52	05654	12428	57	62654	18268	57	05663	16213	50	05662	20212
278	02	64528	13468	57	02855	22467	57	02852	57526	07	01890	22422
279	57	02773	11287	62	62444	13368	50	05653	22363	53	05654	18325
285										20	05634	22424
288	62	05647	43628	52	62647	12368	5-	08465	18228	04	05690	17212
575	57	61848	08268	8-	10845	24385	00	00890	20420	50	01861	20301
301	62	21525	14468	53	02753	26464	8-	81667	24487	50	01753	22383
321	52	06636	13458	5-	62428	13268				57	05563	22223
[illegible]	8-	22638	14768	8-	62648	14668	5-	05638	20326	20	01753	20413
292	62	52426	11268	62	64326	11168	57	05664	26164	50	01763	22213
310				--	51428	20468				--	01633	20213
614	52	08447	10528	52	62336	12268	5-	05665	22335	5-	05634	22214

IIIC	13h. G.M.T. 12th January $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 13th January $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	62	5263	28358	87	02754	24428	50	05662	21412	50	01762	20313
334	--	65537	22388									
340	5-	62428	12468	53	02861	26266	54	22763	24367	24	02751	24314
136	62	22735	14468	5-	62625	14368	03	05690	23365			
336	62	64526	20468							10	25654	28584
350	52	61536	14268	52	67228	17368	50	05661	24221	50	05663	20213
368	62	21435	24468	50	01754	26515	80	25654	28484	90	81654	24384
379	-2	64418	14368	5-	61637	57467	50	05654	22224	50	05653	20203
390	52	52547	14358	5-	62428	12368	03	05690	26463	04	08490	24303
382	62	59527	47468	52	61767	60568	03	02790	24415	07	01790	23313
438	5-	03748	18628	--	44403	20359	50	01753	26413	80	01753	24513
430	57	52546	48458	5-	61537	61468	50	01751	61411	03	00790	28301
309	13	02853	27665	20	01753	58623	52	01744	55614	36	81744	22414

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N$_h$ = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ See disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 13th January
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Afternoon	Night
Kew	ir$_0$cir$_0$m$_0$	cd$_0$m$_0$r$_0$m	qrbcbm$_0$
Croydon	cm$_0$d$_0$d$_0$m$_0$	d$_0$d$_0$mr$_0$	cr$_0$bcm$_0$
Greenwich	cr$_0$id$_0$	cid$_0$	rr$_0$bcp$_0$b
Camden Square	cr	cr	*
Kensington	or	cbc	*
Hampstead	od	orbc	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0.3, Time [illegible]h on 12th. Min. <0.1, Time 0-5h on 13th.

Stations	Temperature Day Max °F	Night Min °F	Min on grass °F	Rainfall Day mm	Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	9h % To-day
Kew	48	41	35	1	1	0.0	*	*
Croydon	47	41	37	1	3	0.0	*	*
Greenwich	47	40	32	Tr	2	0.0	93	83
Westminster	48	40	34	2			93	89
Regents Park	47	41	37	Tr	3		81	83
Camden Square	47	41	36	1	2	*	*	88
Kensington	48	40	35	Tr	2		89	89
Hampstead	48	38	33	-	2		*	92

SECRET

Page 1

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Wednesday 14th January 1943.

No. 29 638

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	95·2	−10	SW'S	3	z_0	46	75	39	6	7	7	6	2-3	4-6	2500
	Croydon ...	96·6	−4	SSW	3	bc	45	65	38	6	2	4	5	4-6	4-6	2500
	S. Farnborough	95·6	−12	SW'S	4	c-bc	48	75	41	8	8	4	6	4-6	7-8	2500
	Boscombe Down	95·4	−18	SW'S	3	c-bc	48	75	41	7	2	-	6	2-3	7-8	2500
	Thorney Island	96·6	−12	SSW	3	c-bc	49	75	41	8	2	-	2	2-3	7-8	2500
	Lympne ...	96·9	−8	WSW	1	b	48	75	41	7	1	-	6	1	1	3000
	Manston ...	96·6	−2	WSW	3	b	48	65	36	7	2	-	1	Tr	1	3000
2	Shoeburyness ...	97·2	−2	SSW	3	b	49	75	40	7	-	4	-	0	1	-
	Felixstowe ...	95·8	−2	SW	4	z_0	45	75	38	5	-	-	-	0	0	-
	Gorleston ...	94·9	+8	SW'S	2	b	47	75	40	6	-	4	-	0	1	-
	Mildenhall ...	94·6	−2	SW'W	3	b	47	75	39	8	5	-	-	Tr	Tr	4000
	Cranwell ...	93·1	−4	SW'W	5	z_0	45	75	38	6	-	-	4	0	1	-
3	Birmingham ...	93·6	−6	S	3	b-bc	45	75	38	7	7	-	-	2-3	2-3	2500
	Upper Heyford	94·5	−8	SW'S	3	b-bc	45	75	37	7	1	-	5	1	2-3	2500
4	Ross-on-Wye	93·5	−12	SW	3	bc	45	75	43	8	7	-	1	4-6	4-6	3000
5	Hartland Point	93·0	−18	SW	3	c	47	85	43	7	2	4	8	2-3	10	1500
	Bristol ...	95·1	−12	SW'W	3	c-bc	47	75	39	8	8	6	6	1	7-8	2500
	Portland Bill ...	96·1	−12	SW	4	c	40	92	37	8	2	4	-	4-6	9	4000
	Plymouth ...	94·2	−26	SW	2	c	49	85	45	7	8	2	6	4-6	9+	2500
	The Lizard ...	93·1	−30	S	4	c	49	75	42	7	8	2	-	9	10	1500
	Scilly (St. Mary's)	91·0	−34	SSW	3	i+	46	92	44	6	5	-	-	10	10	800
	Guernsey ...															
6	Pembroke ...	91·9	−12	SW'W	4	bc	47	85	42	8	8	7	-	4-6	4-6	3000
7	Holyhead (Valley)	90·2	−12	SW	5	b-bc	47	75	40	8	8	6	-	Tr	2-3	2000
	Chester (Sealand)	91·1	−6	S'W	3	c-bc	44	75	36	8	9	6	3	4-6	7-8	1500
8	Manchester ...	91·7	−6	S	5	c-bc	44	85	40	7	2	6	3	4-6	7-8	2500
10	Spurn Head ...	92·3	0	SW	3	z_0	44	85	40	6	-	3	-	0	2-3	-
	Catterick ...	90·7	0	WSW	2	pr	44	85	38	7	3	6	-	7-8	9	2500
	Tynemouth ...	89·4	+2	SW	4	z_0	45	75	38	5	7	3	2	2-3	4-6	2500
11	St. Abbs Head	96·6	0	SW	3	c-bc	40	85	36	7	5	7	-	4-6	7-8	2000
	Leuchars ...	95·8	+2	SW	4	z_0	42	92	39	6	5	-	2	7-8	9	1800
12	Renfrew (Abbots I.)	86·5	+2	SW'S	3	c	44	85	39	7	8	7	5	4-6	9	2000
	Eskdalemuir ...	87·3	−2	SW'W	3	c	40	85	36	6	5	-	-	10	10	1100
	Point of Ayre...	88·3	−6	W	5	c-bc	46	85	40	7	2	-	-	7-8	7-8	2000
13A	Tiree	82·4	+2	SW	2	c/d	44	92	41	8	9	7	-	7-8	10	2000
13B	Stornoway ...	81·2	0	SSE	1	pR	43	97	43	7	9	-	-	9	10	1000
15	Dalwhinnie ...	83·0	0	SSW	3	c	40	75	34	7	5	-	-	9+	9+	2500
	Aberdeen ...	84·0	+4	SW'S	2	z_0	45	85	39	6	5	9	8	2-3	9	7000
	Wick ...	82·0	−2	S'E	2	c	43	92	41	7	5	4	2	2-3	10	4000
16	Sumburgh ...	85·1	−1·4	SE'S	7	$r_0 r_0$	40	97	40	6	6	2	-	9+	10	600
17	Blacksod Point	86·4	−4	WSW	4	bc	48	65	36	8	8	-	-	4-6	4-6	2500
18	Malin Head ...	84·3	0	SW'S	5	i+	43	92	41	8	9	2	-	4-6	10	2500
	Aldergrove ...	87·1	−4	SSW	3	bc	43	75	36	8	8	7	-	2-3	4-6	2500
19	Birr Castle ...	89·6	−10	WSW	2	bc	45	75	37	8	5	-	-	4-6	4-6	2500
20	Valentia Obsy.	89·0	−22	NE'E	1	c	44	85	40	8	2	7	1	1	9+	2500
	Roches Point	90·1	−22	SE	1	bc	44	85	40	8	5	-	6	1	4-6	2500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	92·5	−1·8	SSE	2	z_0	43	85	39	6	5	1	-	4-6	10	2500	1	*
	Croydon ...	92·0	−8	SSW	3	z_0	44	92	41	5	5	2	-	4-6	10	1400	1	*
	S. Farnborough	92·1	−10	SE'E	3	z_0	44	92	41	5	-	7	6	0	9+	-	1	*
	Boscombe Down	91·4	−22	SE	3	c	43	97	43	7	5	7	-	4-6	10	3000	0	*
	Thorney Island	93·1	−22	SE'S	2	c	46	92	44	7	-	1	-	0	10	-	1	*
	Lympne ...	93·8	−20	S	1	c	45	85	42	7	5	-	-	10	10	1500	1	4
	Manston ...	95·2	−10	SSW	3	pr	44	92	42	6	2	4	-	4-6	9	2800	1	*
2	Shoeburyness ...	96·4	−8	S	5	z_0	43	92	41	6	-	3	-	0	4-6	-	1	*
	Felixstowe ...	93·9	−10	S'E	4	z_0	42	92	39	6	5	-	8	2-3	4-6	4000	0	3
	Gorleston ...	94·2	−4	S'W	2	z_0	42	85	38	6	-	4	-	0	2-3	-	1	3
	Mildenhall ...	93·0	−12	S'E	3	z_0	41	85	37	5	-	-	6	0	9	-	1	*
	Cranwell ...	92·3	−6	SSW	3	z_0	37	92	35	6	-	3	1	0	2-3	-	1	*
3	Birmingham ...	91·9	−4	ESE	1	m	39	92	37	4	-	-	6	0	4-6	-	1	*
	Upper Heyford	92·1	−12	SSE	2	z_0	42	85	38	6	4	1	-	Tr	10	2500	1	*
4	Ross-on-Wye	90·7	−10	S	2	c	43	85	39	6	-	1	7	0	10	-	1	*
5	Hartland Point	87·6	−30	ENE	2	c	45	85	40	7	5	-	-	10	10	1500	1	4
	Bristol ...	90·8	−20	SE	1	c	42	92	39	6	5	1	-	2-3	10	4000	2	*
	Portland Bill ...	91·7	−18	S	5	r+	48	92	46	7	5	-	-	10	10	2500	1	5
	Plymouth ...	87·3	−38	ESE	3	r+	44	92	43	6	-	2	-	10	10	2000	1	2
	The Lizard ...	84·9	−48	SE	7	r+	44	97	44	6	5	-	-	10	10	1000	2	5
	Scilly (St. Mary's)	83·7	−46	E'S	5	r+	44	92	42	6	5	-	-	10	10	1000	1	5
	Guernsey ...																	
6	Pembroke ...	88·8	−6	SE'S	3	c	47	92	46	8	8	7	-	4-6	9	4000	1	3
7	Holyhead (Valley)	89·2	−4	S	3	c-bc	43	97	41	8	4	1	6	1	7-8	2500	1	2
	Chester (Sealand)	90·3	−2	-	0	b	40	85	39	5	4	8	-	Tr	1	2500	1	*
8	Manchester ...	90·8	−6	SE'S	3	z_0	40	85	36	6	4	6	-	2-3	7-8	2500	1	*
10	Spurn Head ...	92·5	0	S'E	3	z_0	39	92	37	6	-	3	-	0	2-3	-	0	3
	Catterick ...	90·2	−2	SW	2	m	40	85	36	4	5	4	-	1	2-3	2500	1	*
	Tynemouth ...	89·4	−6	SW	3	z_0	41	85	38	5	2	3	-	2-3	4-6	2500	1	3
11	St. Abbs Head	87·3	+6	SSW	3	bc	39	92	36	7	5	4	-	4-6	4-6	2500	1	3
	Leuchars ...	85·7	+2	SW	1	z_0	39	92	36	5	8	-	-	2-3	2-3	2500	1	*
12	Renfrew (Abbots I.)	86·5	+2	WSW	2	i+	39	85	36	6	5	2	-	9+	10	2000	2	*
	Eskdalemuir ...	87·3	+2	SSW	2	c-bc	37	92	34	8	8	-	-	7-8	7-8	1400	1	*
	Point of Ayre...	87·8	−2	W'S	1	bc	39	92	38	8	2	-	-	4-6	4-6	3000	1	2
13A	Tiree	83·2	+8	W	3	c/r	42	85	37	7	5	2	-	9	10	2500	1	3
13B	Stornoway ...	81·9	+10	NW	1	c	41	97	41	7	5	7	-	2-3	9+	3500	1	1
15	Dalwhinnie ...	83·5	+2	S	3	pr	36	92	33	7	5	7	-	4-6	9+	1500	1	*
	Aberdeen ...	85·1	+2	SSW	3	b-bcf+	40	85	37	3	5	-	8	Tr	2-3	5700	1	3
	Wick ...	82·3	+2	SSW	2	c-bc	42	85	37	7	5	7	-	2-3	7-8	3000	1	*
16	Sumburgh ...	84·4	+2	SSE	5	id	43	97	43	6	6	2	-	9	10	700	1	6
17	Blacksod Point	86·4	+2	W	3	bc	42	75		8	9	-	-	4-6	4-6	2500	1	3
18	Malin Head ...	84·7	+6	W	4	c/phr	41	85		8	9	-	-	9	9	1500	2	4
	Aldergrove ...	87·3	+4	S'E	1	bc	37	92	34	8	5	-	-	4-6	4-6	2000	1	*
19	Birr Castle ...	86·3	−2	S	1	b-bc	37	92		8	5	-	-	2-3	2-3	2500	1	*
20	Valentia Obsy.	87·7	−2	NE'E	2	c-bc/+	43	85		8	2	7	-	4-6	7-8	2500	1	1
	Roches Point	87·6	−8	ENE	2	bc	42	92		8	5	-	5	2-3	4-6	1500	1	4

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 13th (39)	13h.—18h. 13th (40)	18h. 13th to 1h. 14th (41)	1h.—7h. 14th (42)
1	London (Kew)	bwbcm$_0$	bcem$_0$	cr$_0$r	rrr$_0$rrr$_0$c
	Croydon ...	bcm$_0$	cz$_0$cm$_0$	cm$_0$cm$_0$rr	cm$_0$rrr$_0$r$_0$
	S. Farnborough	bbcc	ccm$_0$	cm$_0$c$_0$r$_0$rR	cm$_0$Rrcm$_0$
	Boscombe Down	bbcc	c	cr$_0$r$_0$m$_0$	cr$_0$r$_0$m$_0$c
	Thorney Island	bbm$_0$bc	bcc	ccrrm$_0$	crrm$_0$
	Lympne ...	b	bprc	ccrrRm$_0$	cR$_0$rrm$_0$
	Manston ...	b	bcpr$_0$	cpr$_0$rrm$_0$	cRRm$_0$
2	Shoeburyness ...	bm$_0$	bcm$_0$	bcm$_0$cr$_0$r	cm$_0$rr
	Felixstowe ...	bcm$_0$bm$_0$	bm$_0$bcm$_0$	cmm$_0$rr$_0$	Rcrrm$_0$
	Gorleston ...	bcbz	bz$_0$	cz$_0$w	orr
	Mildenhall ...	bm$_0$b	bbcm$_0$	cm$_0$	cm$_0$r$_0$r$_0$cm$_0$
	Cranwell ...	bm$_0$	bbcm$_0$	bcm$_0$cf	cid$_0$fef
3	Birmingham ...	bbc	bcm	bccm	cbm
	Upper Heyford	bm$_0$bcb	bcccm$_0$	cm$_0$m$_0$rf	or$_0$r$_0$fm
4	Ross-on-Wye	bcbbc	cbcc	c	c
5	Hartland Point	bc+tc	c	cir$_0$c	cbc
	Bristol ...	bcb	ccm$_0$	cm$_0$	com$_0$
	Portland Bill ...	c	o++	orr	oc
	Plymouth ...	cjpcm$_0$c	cpr$_0$cr$_0$r$_0$	cr$_0$r$_0$m$_0$	cbcm$_0$
	The Lizard ...	bcc	cit++	orrq	rrbcb
	Scilly (St. Mary's)	bccit	c++	crrq	cbc
	Guernsey ...				
6	Pembroke ...	bc	c	c	bcq
7	Holyhead (Valley)	bcb	bcc	cjpbc	cbcwm$_0$b
	Chester (Sealand)	bcc	cbcb	bc$_0$cmf	cffffb
8	Manchester ...	bcm$_0$c	pr$_0$bcm$_0$	bcm$_0$cm	bcm
10	Spurn Head ...	bcm$_0$	bcm$_0$	cm$_0$	cm$_0$ir$_0$
	Catterick ...	bcm$_0$cpr$_0$	bcm$_0$	bfbcF	oFbfx
	Tynemouth ...	bcm$_0$	bcm$_0$	bcbm	bmbc
11	St. Abbs Head	bcc	cbc	bcbm$_0$	bbcm$_0$
	Leuchars ...	bcm$_0$cm$_0$	cm$_0$	pr$_0$bcbm$_0$	bm$_0$x
12	Renfrew (Abbots I.)	bcm$_0$cc	pr$_0$it	bcm$_0$pr$_0$	bcm$_0$xbccm$_0$
	Eskdalemuir ...	bccm$_0$	bcpr$_0$c	c	c
	Point of Ayre...	bbcc	cbbc	bcb	b
13A	Tiree	cpr$_0$	cr$_0$r$_0$c	Pr bcpr$_0$	cpr$_0$rcpr$_0$
13B	Stornoway ...	cr$_0$r$_0$r+r+	cp+p$_0$c	cbc	bcb
15	Dalwhinnie ...	cop+c	cpr$_0$		cpr$_0$bc
	Aberdeen ...	bcfcmz	cz$_0$bbf	bfbcb	bz$_0$x
	Wick ...	c	cpr$_0$c	cpr$_0$p	cr$_0$r$_0$ir$_0$
16	Sumburgh ...	cr$_0$r$_0$m$_0$	cr$_0$r$_0$id$_0$	cbcc	cpr$_0$c
17	Blacksod Point	bc	bc	bc	pr
18	Malin Head ...	r	pr	pr	pr
	Aldergrove ...	bwbc	bc	cbbx	frbx
19	Birr Castle ...	bc	b	•	b
20	Valentia Obsy.	bc	r	pr	pr
	Roches Point	bc	c	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday, 14th January, 1943.

Districts	Forecast
1 S.E. England 2 E. England ...	↑ Fresh northerly winds, strong on coast, backing towards west and moderating. ↑ Overcast with rain in the extreme east early, then fine conditions spreading from the west; cold with frost at night
3 E. Midlands ...	
4 W. Midlands 5 S.W. England 6 South Wales	Fresh to strong rather squally northwest winds backing westerly, moderating; a few coastal showers at first, otherwise fine and clear; rather cold with night frost inland.
7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man	Light westerly winds; considerable bright periods; a few local showers near the west coast; local fog patches by morning; rather cold, frost at night.
13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Light to moderate southwest to west winds; local showers, considerable bright periods; rather cold, frost at night.
16 Orkneys and Shetlands	As 12-15.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Moderate or fresh westerly winds; bright periods; showers especially in the west and north; rather cold with local night frost.

GENERAL INFERENCE

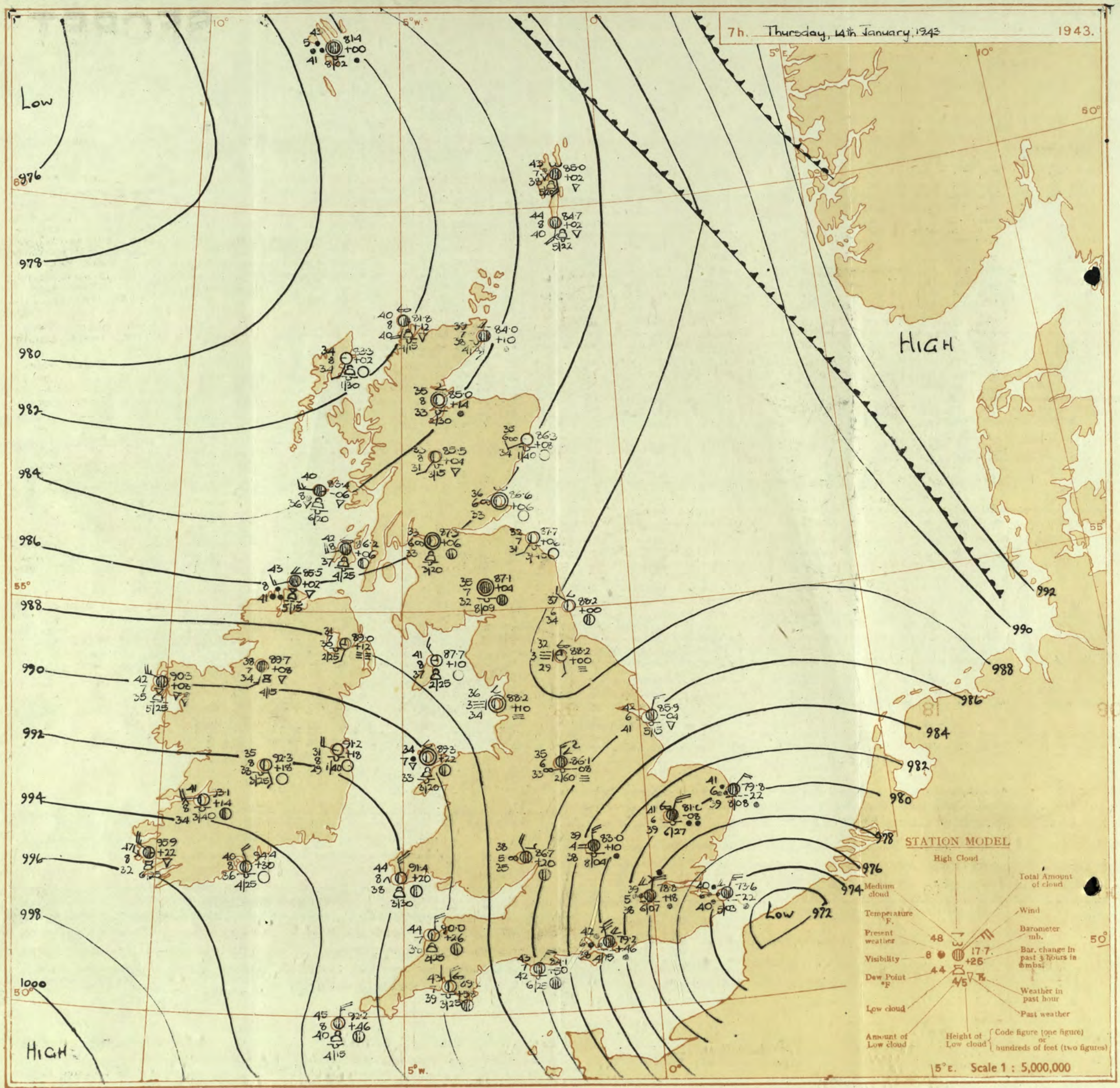
A deep and active depression near the Strait of Dover is expected to move eastnortheast and another depression south of Iceland will continue to fill up with a ridge of relatively high pressure developing over Britain. There will be a few showers in western and northern districts but conditions will be mainly fine in many areas after rain early in the extreme Southeast. Frost will occur at night.

FURTHER OUTLOOK

A mainly fine interval in the East with night frost; renewal of unsettled conditions in the Northwest and extreme West.
Gale warning in operation in districts 1 and 2. Time of issue 0145 14th January, 1943.

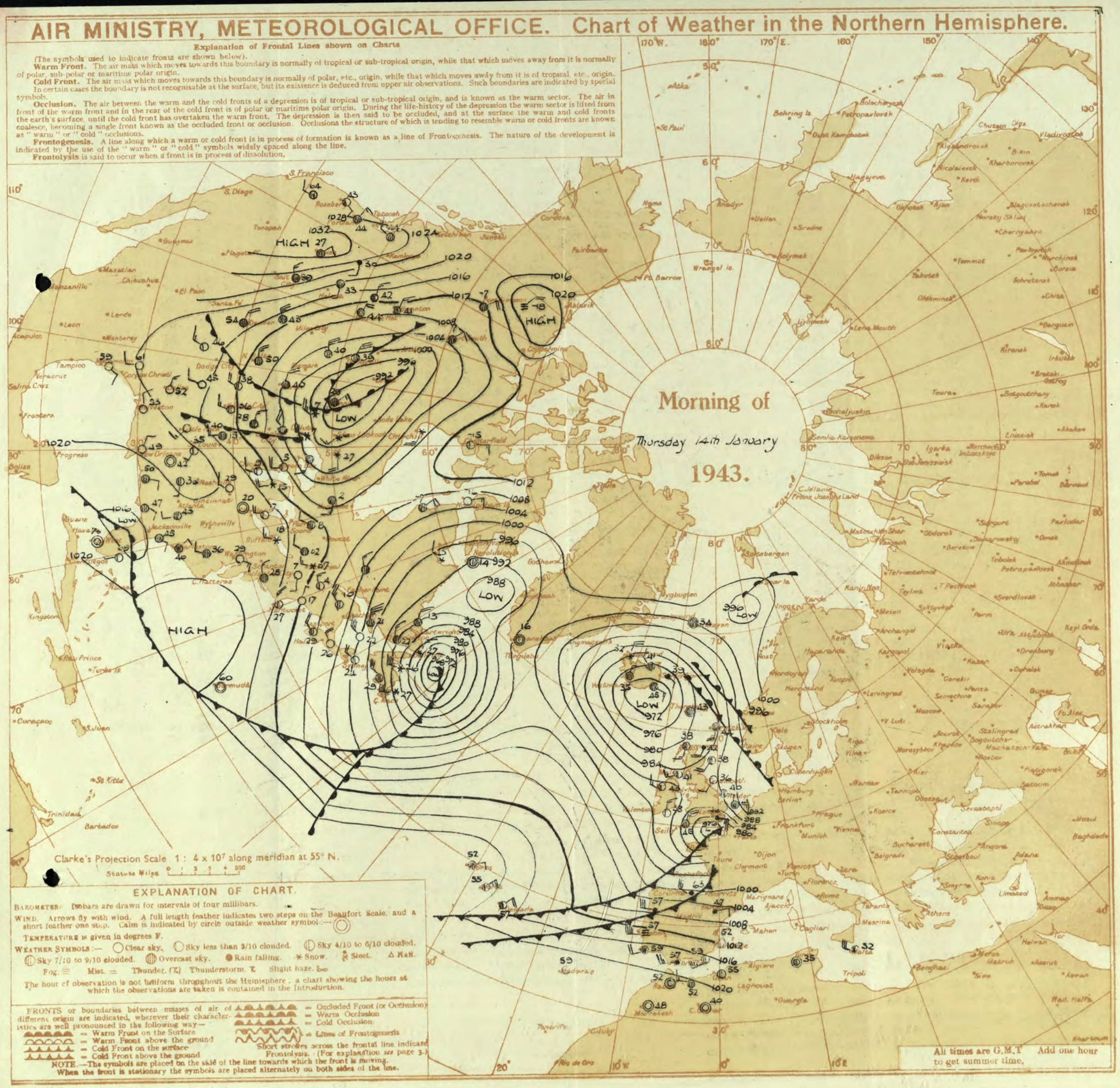
Forecasts issued at 1030

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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



Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

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. Δ Hail. Fog. Mist. Thunder. (T) 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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Wednesday 14th January 1943

No. 29638

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

District	Stations	Height above M.S.L. in feet	Baro. 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)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	41	*	*	*	*	*	*	*	*	*
	Croydon	290	81·3	-58	E'N	3	rr	41	97	40	5	-	2	-	10	10	2000
	S. Farnborough	226	80·1	-54	NE	5	RR	41	92	39	5	5	-	-	10	10	900
	Boscombe Down	417	80·4	-38	NE	6	r₀r₀	39	92	38	6	-	2	-	10	10	1700
	Thorney Island	10	77·8	-32	NE	4	rr	42	92	39	6	-	2	-	10	10	2000
	Lympne	283	79·9	-78	E'S	6	RR	41	97	41	5	6	2	-	9+	10	400
	Manston	154	82·5	-70	SE'E	4	rr	43	97	43	6	5	2	-	9	10	600
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	84·1	-54	E'S	5	r₀r₀	43	97	42	5	6	2	-	9	10	700
	Gorleston	5	87·4	-48	E	3	z₀	42	92	40	6	5	-	-	10	10	1500
	Mildenhall	15	85·4	-38	ENE	3	z₀	41	97	40	6	5	-	-	10	10	500
	Cranwell	203	87·4	-24	E	1	cf	34	97	34	3	-	2	-	0	10	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	83·8	-38	E	3	f+	40	97	40	2	-	-	-	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	82·4	-6	S	4	c/r	45	85	40	7	6	2	-	7-8	10	1500
	Bristol	209	83·0	-22	E	3	c/r	43	97	41	5	6	2	-	10	10	1200
	Portland Bill	32	77·9	-44	ESE	5	rr	46	92	44	7	5	-	-	10	10	2500
	Plymouth	82	79·8	+6	NE	5	r₀r₀	42	92	40	6	-	2	-	10	10	1000
	The Lizard	240	80·8	+22	N'E	7	r₀r₀	41	97	41	7	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	83·7	+34	NE'N	5	c/r	45	85	40	7	5	1	-	4-6	10	800
	Guernsey	175															
6	Pembroke	142	84·7	0	NE'N	3	c	43	97	41	8	8	7	-	4-6	9	4000
7	Holyhead (Valley)	32	87·1	-16	N	1	z₀	35	97	34	6	1	1	-	1	7-8	2500
	Chester (Sealand)	16	87·2	-10	-	0	cf+	34	92	32	3	-	-	8	0	9+	-
8	Manchester	235	87·2	-14	N'E	2	m	33	97	32	4	-	-	7	0	10	*
10	Spurn Head	29	88·0	-28	ESE	2	z₀	40	92	39	6	5	--	-	9+	9+	1500
	Catterick	175	88·5	-12	W	1	F+	31	97	31	0	-	-	-	10	10	<150
	Tynemouth	108	88·0	-14	SW	2	m	36	92	34	4	-	-	-	0	0	-
11	St. Abbs Head	280	86·6	+4	SW	4	b	36	97	35	7	5	-	-	1	1	4000
	Leuchars	36	85·9	-2	-	0	b	37	92	34	6	-	4	-	0	1	-
12	Renfrew (Abbots I.)	19	86·4	-2	-	0	z₀	36	92	33	6	5	1	-	4-6	7-8	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	86·7	-2	NW'N	2	b	41	85	35	8	2	-	-	Tr	Tr	2500
13A	Tiree	44	84·2	+6	W	2	pr	41	85	36	8	8	3	-	7-8	9	2500
13B	Stornoway	15	82·8	+2	SSW	3	bc	38	97	38	8	8	3	-	1	4-6	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	85·4	-6	SW'S	4	s/pr	38	92	36	7	-	7	-	0	9	-
	Wick	114	82·6	+2	SSW	4	pr	42	75	34	8	5	2	-	7-8	10	2000
16	Sumburgh	19	84·4	-6	ENE	5	c	44	85	41	7	2	3	8	4-6	9+	2000
17	Blacksod Point	18	88·3	+10	W'N	3	bc	43	75	36	8	9	-	6	2-3	4-6	2500
18	Malin Head	84	85·1	+2	WSW	3	bc/pr	41	85	37	8	9	-	-	4-6	4-6	2500
	Aldergrove	268	87·3	-2	-	0	b	33	92	31	8	5	-	-	1	1	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	90·8	+22	N'W	4	c	45	65	35	4	1	1	-	2-3	10	2500
	Roches Point	22	88·7	+14	N	4	b	38	92	36	8	-	4	-	0	1	-

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	79·0	+10	NNE	6	c/r	42	85	37	6	5	2	-	7-8	10	1500	1	*
Croydon	78·8	+18	NE'N	6	r₀r₀	39	97	38	5	6	2	-	9	10	700	1	*
S. Farnborough	79·7	+22	NNW	5	o/r	41	92	37	6	5	-	-	10	10	900	1	*
Boscombe Down	84·0	+42	NNW	5	c	41	92	39	7	6	2	-	9+	10	800	1	*
Thorney Island	79·2	+46	N'W	6	rr	42	85	38	6	6	2	-	4-6	10	1500	1	*
Lympne	73·1	-2	N	6	rr	38	97	38	6	6	2	-	9	10	500	1	§
Manston	73·6	-22	NE	5	RR	40	97	40	6	6	2	-	7-8	10	300	1	*
Shoeburyness	77·4	-12	NE	4	rr	39	92	37	5	5	-	-	10	10	1500	1	*
Felixstowe	77·3	-40	NNE	5	rr	39	92	37	5	6	2	-	9	10	900	2	5
Gorleston	79·8	-22	NE	4	rr	41	92	39	6	6	-	-	10	10	800	1	5
Mildenhall	81·0	-8	NE'N	5	c/r	41	92	39	6	5	7	-	9	10	2700	1	*
Cranwell	85·3	+4	NE	3	cf+	36	97	36	2	-	2	-	0	10	-	2	*
Birmingham	86·3	+10	NNW	3	m	36	92	34	4	-	-	-	0	0	-	1	*
Upper Heyford	83·0	+10	N	5	m	39	97	38	4	5	-	-	10	10	400	1	*
Ross-on-Wye	86·7	+20	NNW	4	z₀	38	85	35	5	-	-	8	0	7-8	-	1	*
Hartland Point	90·0	+26	N	5	bbc	44	75	38	7	2	-	-	2-3	2-3	2500	1	5
Bristol	86·6	+36	N	3	z₀	39	85	35	6	-	-	8	0	9	-	2	*
Portland Bill	84·1	+50	NE	5	c	43	92	42	7	5	-	-	9	9	2500	1	5
Plymouth	89·2	+58	N'W	4	bbc	43	85	39	7	5	7	-	2-3	2-3	2500	1	4
The Lizard	89·6	+44	NNW	6	bc	43	85	38	8	8	-	-	4-6	4-6	2000		5
Scilly (St. Mary's)	92·2	+46	N	5	bc	45	75	40	8	8	-	-	4-6	4-6	1500	1	5
Guernsey																	
Pembroke	91·4	+20	NNW	5	bbcq	44	85	38	8	2	-	-	2-3	2-3	3000	1	3
Holyhead (Valley)	89·3	+22	-	0	pr	34	97	33	7	8	4	-	2-3	2-3	2000	1	1
Chester (Sealand)	87·9	+6	NW	1	bf	35	92	34	2	-	-	-	0	0	-	0	*
Manchester	87·9	+10	W	2	m	31	97	31	4	-	-	2	0	4-6	-	1	*
Spurn Head	85·9	-4	NNE	3	ir₀	42	92	41	6	5	-	-	7-8	7-8	1500	1	3
Catterick	88·2	0	SSE	1	bF	32	85	29	3	-	7	-	0	1	-	1	*
Tynemouth	88·2	0	NW	2	bbc	37	85	34	6	-	4	-	0	2-3	-	1	3
St. Abbs Head	87·7	+6	SW	2	bc	32	97	31	7	5	-	-	2-3	2-3	4000	1	2
Leuchars	86·6	+6	-	0	z₀	33	97	33	6	-	3	-	0	2-3	--	3	*
Renfrew (Abbots I.)	87·3	+6	-	0	z₀	33	97	33	6	8	-	-	2-3	2-3	2000	2	*
Eskdalemuir	87·1	+4	-	0	c	35	92	32	7	5	-	-	10	10	900	1	*
Point of Ayre	87·7	+10	NW'W	3	b	41	85	37	8	2	-	-	1	1	2500	1	2
Tiree	83·4	-6	W	3	pr	40	85	36	8	8	-	-	9	9	2000	1	2
Stornoway	83·3	+2	SW	2	b	34	97	34	8	8	-	-	Tr	Tr	3000	3	1
Dalwhinnie	85·5	+4	SW	2	bbc	33	92	31	8	5	-	-	2-3	2-3	1500	1	*
Aberdeen †	86·3	+8	WSW	2	z₀	35	97	34	6	5	-	-	Tr	Tr	4000	1	2
Wick	84·0	+10	S'W	3	ir₀	39	92	38	7	5	2	-	4-6	7-8	2000	1	*
Sumburgh	84·7	+2	S'W	4	cbc	44	85	40	8	8	-	-	7-8	7-8	2200	1	5
Blacksod Point	90·3	+8	W'N	5	cbc/pr	42	75	35	8	9	-	-	7-8	7-8	2500	4	
Malin Head	85·5	+2	WSW	3	rr	43	92	41	8	9	2	-	7-8	10	1500	2	3
Aldergrove	89·0	+12	S'W	2	b/f	31	97	30	7	5	-	-	1	1	2500	1	*
Birr Castle	92·3	+18	SSE	1	bbc	35	92	33	8	5	-	-	2-3	2-3	2500	1	*
Valentia Obsy.	95·9	+22	WNW	5	c	47	55	32	8	3	-	-	9	9	2500	1	4
Roches Point	94·4	+30	N'W	4	bc	40	85	36	8	5	-	-	4-6	4-6	2500	1	4

PAST 24 HOURS

Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 13th Hrs. (38)
London (Kew)	46	39	37	-	20	4·0
Croydon	49	39	37	-	27	4·4
S. Farnborough	48	38	37	0·1	24	4·8
Boscombe Down	48	38	38	-	16	4·1
Thorney Island	49	38	38	-	27	*
Lympne	49	38	38	0·6	31	5·0
Manston	49	39	37	-	37	5·9
Shoeburyness	49	38	37	-	20	5·9
Felixstowe	47	38	36	-	15	[illegible]
Gorleston	47	39	35	-	11	[illegible]
Mildenhall	48	37	33		7	5·4
Cranwell	46	34	29	-	-	6·1
Birmingham	45	36	29	-	-	4·8
Upper Heyford	46	38	37	-	Tr	*
Ross-on-Wye	47	37	34	-	-	3·1
Hartland Point	47	42	42	0·4	0·2	1·9
Bristol	47	39	36	-	0·3	4·9
Portland Bill	49	48	*	0·4	18	*
Plymouth	50	41	39	3	9	1·5
The Lizard	49		*	5		0·1
Scilly (St. Mary's)	48	49	37	4	3	0·0
Guernsey						
Pembroke	48	41	*	2	-	1·2
Holyhead (Valley)	47	32	23	-	-	*
Chester (Sealand)	47	31	27	-	Tr	3·2
Manchester	45	31	26	0·1		*
Spurn Head	44	32	*	-	Tr	5·5
Catterick	46	26	22	Tr	-	2·6
Tynemouth	46	35	30	-	-	*
St. Abbs Head	41	31	*	-	-	*
Leuchars	42	33	28	-	Tr	0·2
Renfrew (Abbots I.)	44	33	*	*	0·2	2·4
Eskdalemuir	41	34	33	0·2	-	0·4
Point of Ayre	47	34	*	-	-	5·7
Tiree	46	39	36	8	0·4	0·0
Stornoway	46	33	28	6	-	0·0
Dalwhinnie	40	32	29	0·6	0·4	0·0
Aberdeen †	45	35	27	-		1·8
Wick	45	38		Tr	5	*
Sumburgh	43	43	38	5	0·1	0·0
Blacksod Point	48		*	1		*
Malin Head	44	38		3	2	0·4
Aldergrove	44	29	23	-	-	5·1
Birr Castle	46	28	23	-	-	4·4
Valentia Obsy.	45	40	37	Tr	Tr	0·7
Roches Point	46	37	*	-	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 13th January $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 14th January $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	57	02663	15326	57	02664	16526	5-	02845	18315	5-	62638	17368
115	51	02844	18327	52	62835	20488	52	64736	20368	87	02844	20486
203							5-	81845	20485	50	01953	20413
206	26	81854	10186	86	02856	24286	52	02855	22268	50	01862	00063
210	57	02973	18227	54	02962	17326	5-	62848	20168	20	01863	18163
220	52	65756	13268	52	66645	45189				80	81645	14215
230	92	81745	51488	32	02744	47428	9-	81858	00088	3-	25854	00084
245	70	05653	20216	54	05661	18313	57	01744	18224	50	05653	00013
260	5-	02755	20376	50	01862	20322	04	01790	16202	57	05663	16213
278	53	01861	21213	46	01852	20203	30	01752	20212	5-	01854	17114
279	83	02766	20487	53	05652	18324	20	01854	07214	5-	05657	00087
285	27	81626	22587	27	25626	24487				50	01853	30303
288	24	02854	17315	50	05661	79281	00	47390	00000	--	48209	00049
575	86	01852	22312	36	01842	18113	30	01843	20184	30	01744	18885
301	36	01753	18424	50	05561	14323	00	45390	10145	04	43390	00043
321	57	05563	23316	00	08490	16?2	01	47290	12146	--	46109	12349
2.3	54	05554	20314	50	05544	20214	00	05690	20200	5-	05658	02228
292	20	08453	19113	04	08490	17212	--	48009	00049	--	44209	32249
310	- -	01634	24314									
614	00	08490	22214	04	08490	18222	01	43390	04248	02	47290	65348
333	36	10854	19414	20	02751	19127	50	02862	22225	80	01754	00014
334	--	64647	28378	--	27646	28376						
340	44	01964	18314	46	01754	16225	01	08490	02126	--	48309	02249
136	04	05690	20300	00	05690	17203	--	48209	10249	62	62634	35468
336	53	01753	24414	51	02634	20428				50	01653	04414
350	08	05690	16312	4-	05653	14228	02	61328	06348	62	08446	34568
368	83	02965	20387	5-	05558	12228	57	02544	02327			
379	50	00743	18204	50	0271	20228	--	48103	16449			
390	00	05590	18200	00	08490	15388	5-	67348	08368	5-	62448	37668
382	10	01851	20313	00	05690	14128	52	64508	06368	5-	22438	34368
438	84	02764	22416	87	02844	20427	8-	64638	14668			
430				52	02644	17328	5-	66536	39668	5-	63635	65668
409	82	02753	17327	02	64746	08468	52	62645	32468	50	01753	30614

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N$_h$ = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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

LONDON OBSERVATIONS

For the 24 hours ending morning of ....
Day 7h—18h Kew and Croydon. 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew			
Croydon			
Greenwich	b	bc	crRRrco
Camden Square	bc	c	*
Kensington	bc	bcpo	*
Hampstead	bcp	bc	orbc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. [illegible] 0·4 18[illegible] hrs 13th. Min. Time <0·1 0-5 hrs 14th

Stations	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 % Yesterday	Humidity 9h % To-day
Kew							*	*
Croydon							*	*
Greenwich	49	38	34	-	21·8	4·8	73	84
Westminster	50	40	38	2	3·2	*	79	85
Regents Park	47	39	38	-	22·9	*	81	79
Camden Square	48	41	37	0·3	20·8	*	*	90
Kensington	50	39	37	1·0	23·0	*	93	85
Hampstead	47	36	35	Tr	22·6	*	*	95

SECRET

Friday 15th January 1943.

No. 29639

Page 1 BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	89·4	+50	NW'N	4	Zo	43	65	33	6	5	–	–	1	1	4000
	Croydon	89·1	+46	NW	4	Zo	42	75	36	5	2	3	–	2-3	4-6	1800
	S. Farnborough	90·6	+50	NW'N	6	Zo	43	75	36	6	1	–	1	1	1	2000
	Boscombe Down	92·8	+34	NW	4	b	44	75	36	7	1	–	1	Tr	1	2500
	Thorney Island	91·2	+46	WNW	5	bc	44	75	36	7	5	–	2	Tr	4-6	2500
	Lympne	89·3	+70	NW	6	c/r	41	85	38	6	5	–	–	10	10	1300
	Manston	84·2	+58	NW'N	6	roro	41	92	39	6	5	2	–	9	10	300
2	Shoeburyness	86·6	+52	NW	5	Zo	42	92	39	6	5	–	–	10	10	1500
	Felixstowe	83·3	+38	NW'N	6	c/r	42	85	38	7	5	7	–	7-8	9+	1200
	Gorleston	83·2	+20	N'W	6	roro	42	85	38	6	6	–	–	10	10	800
	Mildenhall	84·7	+34	NW	5	Zo	40	97	38	5	5	–	–	10	10	1200
	Cranwell	89·0	+20	NW	4	m	40	85	36	4	–	–	8	0	4-6	–
3	Birmingham	91·5	+20	WNW	4	Zo	42	75	34	6	1	–	–	4-6	4-6	1500
	Upper Heyford	91·2	+38	NW	5	Zo	41	92	37	6	5	–	–	7-8	7-8	1500
4	Ross-on-Wye	92·8	+18	WNW	5	bq	45	65	33	8	1	–	–	1	1	3000
5	Hartland Point	96·3	+18	NW'W	5	bc	46	65	36	8	2	–	2	4-6	4-6	2500
	Bristol	93·7	+26	WNW	4	b-bc	45	75	38	8	7	4	–	1	2-3	4000
	Portland Bill	94·7	+60	WNW	5	c-bc	47	85	43	8	2	–	–	7-8	7-8	4000
	Plymouth	97·3	+34	WNW	5	c-bc	48	65	37	8	2	–	2	4-6	7-8	3000
	The Lizard	98·3	+30	NW'N	6	c	48	65	38	8	8	2	–	7-8	10	1500
	Scilly (St. Mary's)	99·5	+26	NW'N	4	c/phr	45	85	40	8	8	6	–	7-8	9+	1200
	Guernsey															
6	Pembroke	95·3	+12	WNW	4	bcq	47	75	40	8	2	6	–	4-6	4-6	3000
7	Holyhead (Valley)	92·6	+4	WNW	5	b-bc	45	75	36	8	8	6	–	1	2-3	2500
	Chester (Sealand)	90·9	+16	W'S	4	b/pr	45	65	35	8	4	6	3	1	1	2000
8	Manchester	91·5	+2	S	2	bcf	35	97	34	3	2	–	–	4-6	4-6	2500
10	Spurn Head	87·2	+8	NW'N	5	Zo	40	85	37	5	3	2	–	9	10	800
	Catterick	99·0	+4	NW	1	b-bc	42	75	33	7	5	3	8	Tr	2-3	4000
	Tynemouth	89·9	+4	N	3	b-bc	37	92	34	6	–	4	–	0	2-3	–
11	St. Abbs Head	89·4	+4	SW	2	bc	37	85	33	7	4	4	–	2-3	4-6	3500
	Leuchars	89·1	+12	–	0	Zo	39	85	34	6	8	3	–	4-6	7-8	[illegible]500
12	Renfrew (Abbots I.)	87·9	+4	SW'S	2	roro	40	85	37	6	–	2	–	4-6	10	1200
	Eskdalemuir	88·1	0	SSW	1	o	35	97	34	6	5	–	–	10	10	200
	Point of Ayre	89·6	+2	WNW	5	cbc	45	75	38	8	4	–	4	Tr	7-8	2000
13A	Tiree	84·9	+20	NW'N	4	bc/pr	44	85	40	9	3	6	2	2-3	4-6	1800
13B	Stornoway	86·3	+14	–	0	bc	43	85	39	8	8	6	3	2-3	4-6	2000
15	Dalwhinnie	87·0	0	SSW	3	bc	35	85	31	8	8	–	–	4-6	4-6	1500
	Aberdeen	87·8	+6	S	2	m	41	75	34	4	–	3	8	0	Tr	[illegible]
	Wick	86·8	+10	S'W	1	bc	41	85	38	8	8	4	3	1	4-6	2500
16	Sumburgh	87·4	+14	S	4	c/pr	43	92	41	9	2	4	1	4-6	9+	2000
17	Blacksod Point	93·5	+12	N	5	pr	43	75	35	8	9	–	–	9	9	1500
18	Malin Head	87·9	+14	NNW	5	iro	43	85	39	8	9	2	–	7-8	10	2500
	Aldergrove	90·3	0	SSW	3	c	38	92	35	7	8	7	–	7-8	9+	2000
19	Birr Castle	94·6	+8	WSW	2	bc	43	75	35	8	5	–	4	2-3	4-6	2500
20	Valentia Obsy.	98·6	+10	WNW	5	c/phr	45	75	38	9	9	–	–	9	9	2500
	Roches Point	97·6	+10	NW'N	4	bc	44	85	40	8	3	–	3	2-3	4-6	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	95·1	+26	N	3	Zo	41	75	33	5	–	–	–	0	0	–	1	*
Croydon	96·3	+34	N	4	Zo	41	75	34	5	–	–	–	0	0	–	1	*
S. Farnborough	96·5	+30	N	4	b	40	75	32	8	7	–	–	1	1	2500	1	*
Boscombe Down	98·0	+30	WNW	3	b	39	85	35	7	2	–	3	Tr	Tr	2500	1	*
Thorney Island	97·5	+34	N'S	3	b	43	75	36	7	–	4	1	0	1	–	1	*
Lympne	95·3	+4	WNW	2	Zo	39	85	34	6	–	–	–	0	0	–	1	4
Manston	93·4	+34	NW'N	4	Zo	41	85	38	6	–	–	–	0	0	–	1	*
Shoeburyness	94·5	+42	NW	5	Zo	41	75	35	6	–	–	–	0	0	–	1	*
Felixstowe	92·5	+50	WNW	5	Zo	41	75	34	5	–	–	–	0	0	–	1	5
Gorleston	89·6	+30	NW	4	Zo	41	85	37	6	5	–	–	10	10	800	1	4
Mildenhall	93·1	+34	N	4	Zo	38	85	35	5	–	–	–	0	0	–	1	*
Cranwell	93·6	+28	N'N	4	m	37	85	33	4	–	–	5	0	2-3	–	1	*
Birmingham	95·6	+24	WSW	2	Zo	38	85	34	5	5	–	–	Tr	Tr	2500	1	*
Upper Heyford	95·2	+24	WNW	3	b	39	75	33	8	4	4	–	Tr	1	2500	1	*
Ross-on-Wye	96·5	+16	N	2	b	40	75	34	8	8	–	–	1	1	3000	1	*
Hartland Point	98·7	+16	NNW	4	c-bc	45	75	36	8	3	–	–	7-8	7-8	1800	1	4
Bristol	97·7	+20	WSW	3	b	39	85	35	7	2	6	–	Tr	Tr	4000	0	*
Portland Bill	98·6	+18	N	5	c-bc	45	85	40	8	5	–	–	7-8	7-8	4000	5	5
Plymouth	00·3	+14	N	2	Zo	42	92	40	5	9	–	3	7-8	7-8	2000	1	3
The Lizard	01·0	+10	NW	6	c-bc/pr	45	65	33	8	8	–	–	7-8	7-8	1500	1	4
Scilly (St. Mary's)	01·6	+22	NW	6	c-bc/phr	44	85	37	8	8	6	–	7-8	7-8	1500	1	5
Guernsey																	
Pembroke	97·8	+8	WNW	4	cq	45	85	40	8	8	7	–	4-6	9	3000	1	3
Holyhead (Valley)	95·2	+20	N'N	5	b-bc	43	75	37	8	8	4	–	2-3	2-3	3000	1	4
Chester (Sealand)	93·9	+22	N	2	b	41	75	35	7	4	6	–	Tr	1	2500	1	*
Manchester	93·6	+10	SSW	3	Zo	39	85	36	5	2	–	–	4-6	4-6	2000	1	*
Spurn Head	91·5	+14	W'N	4	Zo	38	85	34	6	1	–	2	1	2-3	4000	1	4
Catterick	92·2	+8	–	0	Zo	33	97	32	5	–	4	–	0	2-3	–	1	*
Tynemouth	91·7	+10	N	2	b-bcf+	37	92	34	3	2	3	–	2-3	2-3	2500	3	3
St. Abbs Head	91·0	+6	SW	3	c	38	85	34	7	5	–	–	9+	9+	4000	0	3
Leuchars	90·4	+18	SW	1	Zo	37	92	35	5	5	–	–	9+	9+	2500	1	*
Renfrew (Abbots I.)	89·7	+16	NE'N	1	iro	37	92	35	5	6	2	–	7-8	10	1800	2	*
Eskdalemuir	90·0	+8	SW'S	2	roro	34	92	33	5	–	2	–	10	10	200	1	*
Point of Ayre	91·2	+2	NW'W	6	iro	43	85	39	8	8	2	–	7-8	10	1500	1	4
Tiree	91·6	+38	NW	3	pr	43	85	39	7	8	–	–	4-6	10	1500	1	2
Stornoway	91·2	+34	SW	2	c	40	92	38	8	4	–	–	9+	9+	3500	1	2
Dalwhinnie	90·5	+22	S	1	cbc	29	85	26	8	8	–	–	7-8	7-8	2500	0	
Aberdeen	90·6	+20	–	0	bf+	34	97	33	3	–	–	1	0	Tr	–	1	2
Wick	90·3	+14	–	0	b-bc	35	92	32	7	–	7	–	0	2-3	–		*
Sumburgh	90·2	+18	S	4	bc	43	92	40	9	2	–	–	4-6	4-6	2000	1	4
Blacksod Point	98·0	+32	WNW	4	bc/phr	43	75	36	8	9	–	–	4-6	4-6	1500	1	3
Malin Head	92·0	+22	NNW	5	rr	44	85	40	8	–	2	–	10	10	2500	2	4
Aldergrove	93·4	+26	W	2	rr	39	92	36	6	4	–	–	10	10	1500	1	*
Birr Castle	97·9	+24	NW	2	b	38	85	34	8	–	–	–	0	0	–	1	*
Valentia Obsy.	03·4	+34	NW'N	3	bc/phr	44	75	37	8	3	–	–	4-6	4-6	2500	1	4
Roches Point	01·2	+28	NW'W	4	bc/pr	41	85	37	8	3	–	3	4-6	4-6	1500	1	4

PAST 24 HOURS.

Stations	Weather 7h.—13h. 14th (39)	Weather 13h.—18h. 14th (40)	Weather 18h. 14th to 1h. 15th (41)	Weather 1h.—7h. 15th (42)
London (Kew)	iromobzo	bzo	bmo	bbccromo
Croydon	cmocmcmo	bmo	bmbmo	bmirobmo
S. Farnborough	cbmo	bmobcb	bbcc	cbccpropr
Boscombe Down	cmobcb	b	bbmobcmo	bcbx
Thorney Island	crrcmobc	bcb	bbc	b
Lympne	crorromoc	bcbmo	bmo	bcidomopr
Manston	crrroromo	croromozo	bmo	bbccmo
Shoeburyness	cmorrc	bc	bmo	bcmocmoro
Felixstowe	crrcirocmo	crorobmo	bmobcmo	croro cmo
Gorleston	croro	cpro	cbcbzow	bcczo
Mildenhall	ccmoirocmo	cmobmo	bmocx	cirocirc
Cranwell	bfcmbcmo	bmobm	bfbccrrmo	crrroromocmo
Birmingham	bmcbc	bcbz	b,c	coirm
Upper Heyford	bfmocbmo	cmobc	bbcc	ccirocroromo bcb
Ross-on-Wye	czobcb	bcb	bccbc	
Hartland Point	bc	bccpo	cpr	cbc
Bristol	cmobc	bcc,bcb	bbccmo	cmobmo
Portland Bill	c	bcc	cbc	bcbc
Plymouth	bbc	bccproc	cmopro	bmopro
The Lizard	bccq	cproc	prebc	bcc
Scilly (St. Mary's)	bccphqc	cphq	cpo	cprobc
Guernsey				
Pembroke	bcq	c	bcq	bcq
Holyhead (Valley)	bcprob	bbc	bccproc	c,b
Chester (Sealand)	cpro	bbcb	b, cpro	cmoprororo
Manchester	bccf	cffpromo	bcpro	cbbcmo
Spurn Head	czo	cbcmo	cmo	bcmo
Catterick	bcmobc	bcb	roromcmo	cmoobmo
Tynemouth	bcmo	bcmff	bcfforr	obc
St. Abbs Head	bcmo	bc vcm	cbcmoo	ocbcb
Leuchars	bcmoxbmox	cmo	cmbcmo	bcbmox
Renfrew (Abbots I.)	cfprocmororo	cfiroRro	cmbmbcm	bomxcmxroro
Eskdalemuir	coido	orrro	orSSocbc	bcbx
Point of Ayre	bbcc	ciro	iroc	cbcrpr
Tiree	prcpro	bccvprocpr	cprbc	cprobc
Stornoway	bcxbc	bcc	cprobcb	bbccbc
Dalwhinnie	bc	bcc		cbcc
Aberdeen	bmoz	bzzoff	bff *	bfxmo
Wick	cbc	bc	b	bbccbcpro
Sumburgh	cproc	procbc	cbcc	cbcb
Blacksod Point	pr	pr	pr	bc
Malin Head	pr	r	r	pr
Aldergrove	bxbmoxbc	cprorr	rrcbcb	bbc
Birr Castle	bc	pr		b
Valentia Obsy.	pr	pr	pr	pr
Roches Point	pr	pr	pr	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 15th January 1943.

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Moderate northwest winds falling light, becoming southwest tomorrow; mainly fine, but chance of some showers tomorrow morning; fog in places tonight; rather cold; with frost at night.
4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England	Moderate to light northwest winds, backing southwest freshening tomorrow; considerable bright periods; some local showers today, becoming more general later; local fog tonight; rather cold with frost inland tonight.
9 N. Midlands; 10 N.E. England; 11 S.E. Scotland	As 1-3.
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Light west to southwest winds, beginning to freshen tomorrow; showers of rain perhaps sleet; brighter intervals; rather cold.
16 Orkneys and Shetlands	As 12-15.
17 N.W. Ireland; 18 N.E. Ireland; 19 S.E. Ireland; 20 S.W. Ireland	Light southwest winds increasing fresh to strong on the west coasts tomorrow; bright periods; showers at first; more general rain spreading northeast later; rather cold becoming milder slowly.

GENERAL INFERENCE

A ridge of high pressure is crossing the British Isles and will be followed by a well marked trough of low pressure aproaching Ireland from the Atlantic. There will be an interval of mainly fine weather in many districts apart from some showers chiefly in the West and North but rain will begin in West Ireland tomorrow and spread East. Conditions will be rather cold with frost at night.

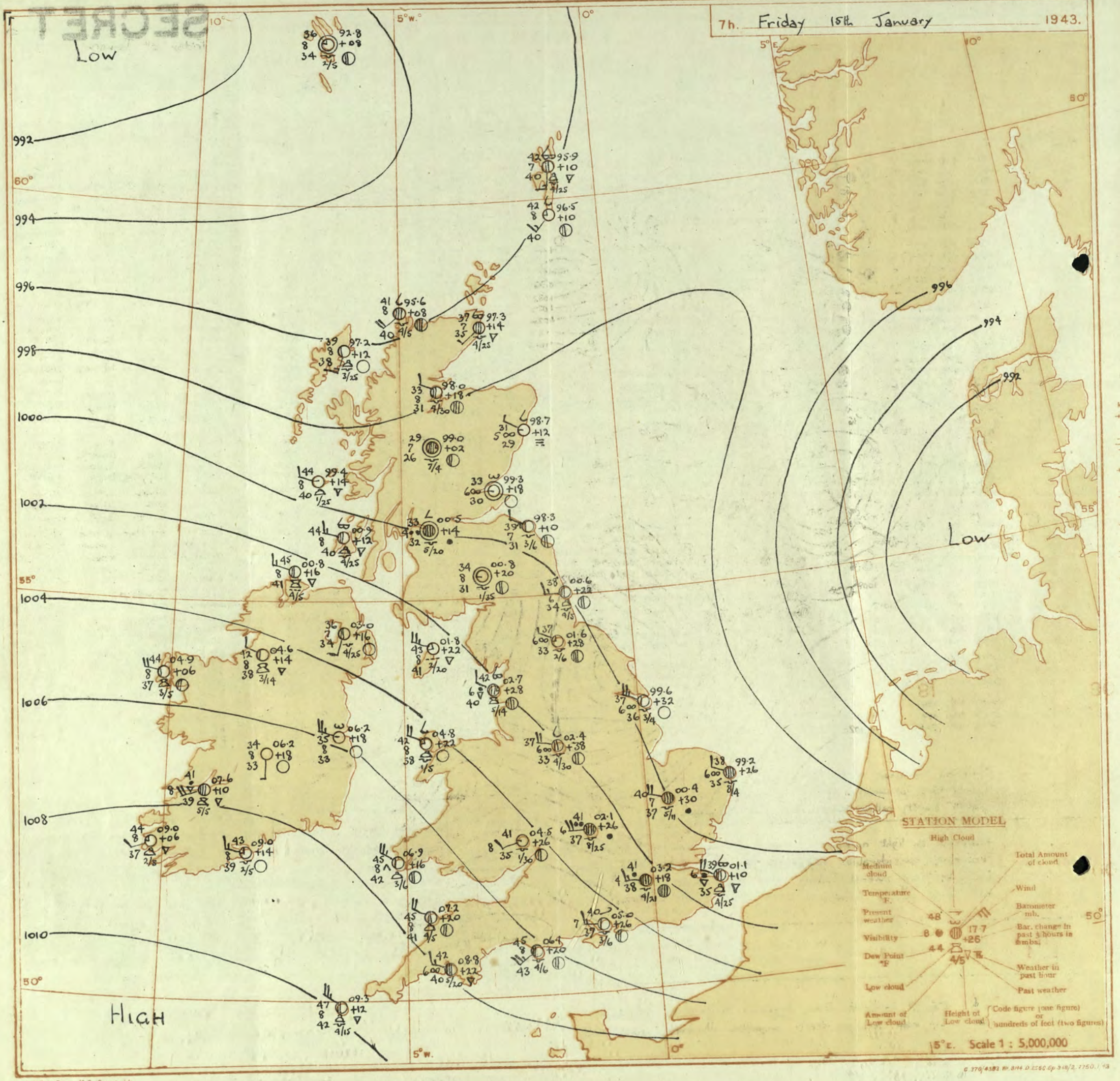
FURTHER OUTLOOK

Unsettled conditions probably spreading to all districts.

Forecasts issued at 10·30

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

Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

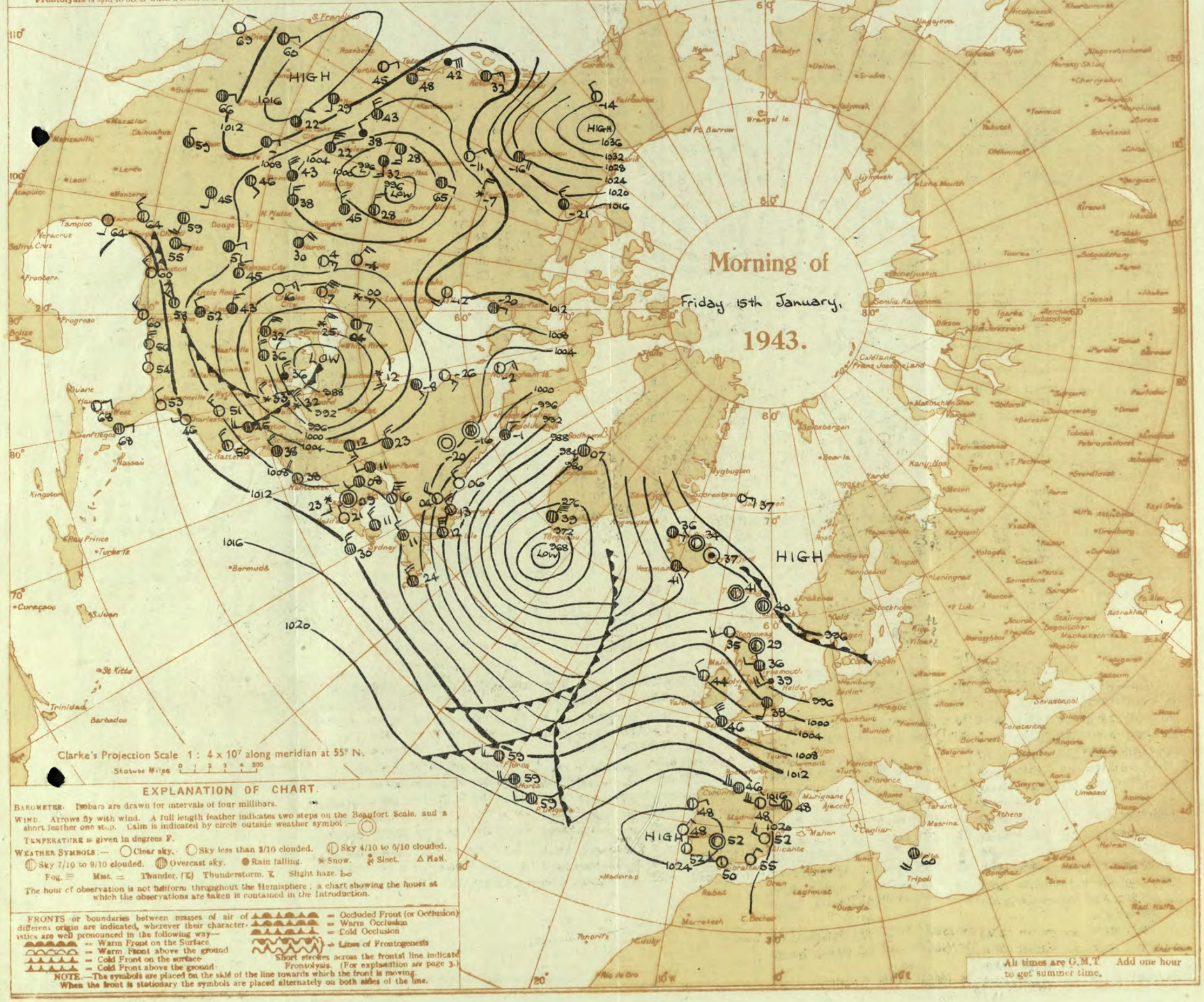
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis
- Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Friday 15th January 1943

No. 29639

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	37	*	*	*	*	*	*	*	*	*
	Croydon ...	290	00·4	+8	S'W	3	z0	38	85	34	5	-	4	6	0	7·8	-
	S. Farnborough	226	00·4	+14	W'S	4	c-bc	37	85	34	8	-	5	-	0	7·8	-
	Boscombe Down	417	01·9	+14	W'S	4	z0	37	92	35	6	-	7	6	0	4·6	-
	Thorney Island	10	01·3	+6	WNW	2	bc	39	85	35	7	5	5	3	2-3	4·6	4000
	Lympne ..	283	99·9	+12	W	2	z0	35	92	32	6	-	-	5	0	Tr	-
	Manston ...	154	98·9	+38	W	3	z0	36	85	33	6	-	3	-	0	Tr	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	97·2	+14	WSW	4	z0	37	85	34	6	-	3	-	0	4·6	-
	Gorleston ...	5	96·2	+20	W	5	b	36	85	32	6	-	-	-	0	0	-
	Mildenhall ...	15	96·7	+10	WSW	4	c-bc	36	85	33	7	-	3	-	0	7·8	-
	Cranwell ...	203	95·8	+4	WSW	4	c/r	37	92	35	5	5	-	-	9	9	3000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	98·4	+10	W'S	2	c-bc	35	92	33	7	-	3	8	0	7·8	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	03·2	+20	NW	5	c-bc	45	75	38	8	2	-	-	7·8	7·8	1500
	Bristol ...	209	01·8	+14	W	4	z0	39	92	37	6	5	-	6	1	7·8	1500
	Portland Bill ...	32	02·8	+20	WNW	5	b-bc	44	97	43	8	2	-	-	2-3	2-3	4000
	Plymouth ...	82	04·9	+22	W'N	3	bc/pr	43	92	40	7	8	7	3	2-3	4-6	2000
	The Lizard ...	240	05·8	+24	NW	6	bc	46	75	38	8	8	-	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	06·7	+30	NW'N	6	c-bc/pr	46	75	38	8	8	6	-	4-6	7·8	1500
	Guernsey ...	175															
6	Pembroke ...	142	03·0	+20	NW	5	bcq	45	92	42	8	2	-	-	4-6	4·6	3000
7	Holyhead (Valley)	32	00·0	+26	NW	5	c-bc	44	85	39	8	2	3	-	Tr	7·8	2500
	Chester (Sealand)	16	97·0	+2	W	4	pr	43	85	40	7	8	-	-	9	9	2500
8	Manchester ...	235	96·5	+14	W'S	5	c/pr	41	92	38	7	2	6	-	7·8	9+	2500
10	Spurn Head ...	29	94·1	+12	WSW	4	id0	39	85	36	5	3	7	-	7·8	10	1500
	Catterick ...	175	95·4	+24	NW	1	c/r	35	97	34	6	5	3	-	7·8	9	2100
	Tynemouth ...	108	94·6	+18	W	1	c/r	36	97	35	6	-	2	-	10	10	1500
11	St. Abbs Head	280	94·7	+20	WNW	2	o	39	92	37	6	5	-	-	10	10	2500
	Leuchars ...	36	95·6	+20	-	0	b-bc	33	97	33	6	-	4	-	0	2-3	-
12	Renfrew (Abbots I.)	19	97·1	+22	WSW	1	m	31	97	31	4	5	3	-	2-3	2-3	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	97·4	+36	NNW	4	c-bc	44	85	39	8	8	*	*	7·8	7·8	2000
13A	Tiree ...	44	96·9	+20	NNW	3	b-bc	42	85	37	8	2	6	-	Tr	2-3	3000
13B	Stornoway ...	15	95·4	+14	SW	3	b	35	92	33	8	1	-	-	Tr	Tr	3500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	96·1	+22	-	0	bc	29	85	26	8	-	3	6	0	4-6	-
	Wick ...	114	94·5	+14	SW	1	b	31	92	29	9	-	-	-	0	0	-
16	Sumburgh ..	19	94·3	+10	SSW	4	c-bc	42	85	39	9	5	4	2	Tr	7·8	3000
17	Blacksod Point	18	03·1	+22	WNW	3	bc/pr	44	75	37	8	9	-	-	4-6	4-6	2500
18	Malin Head ...	84	97·9	+18	WNW	3	b-bc	45	75	38	8	9	-	-	2-3	2·3	2500
	Aldergrove ...	268	98·8	+22	WSW	2	b	38	85	35	8	5	3	1	Tr	Tr	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	07·4	+18	NW'N	4	pr	47	75	40	8	3	-	-	9	9	2500
	Roches Point	22	05·9	+2	WNW	4	b-bc/pr	41	85	37	8	4	-	-	2-3	2-3	1500

OBSERVATIONS at 7 hr. G.M.T. 15th January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 14th Hrs. (38)
London (Kew)	03·0	+20	WNW	3	ir0	42	85	34	6	5	-	-	10	10	800	1	*	44	37	26	Tr	0·3	3·2
Croydon	03·2	+18	W	3	ir0	41	92	38	4	5	-	-	4-6	10	2100	1	*	43	38	34	Tr	0·5	2·8
S. Farnborough	03·9	+22	N	4	pr	40	85	35	8	7	7	-	7·8	7·8	2500	1	*	45	36	31	-	0·1	3·9
Boscombe Down	05·6	+20	W'N	5	b-bc	38	85	34	7	-	7	6	0	2-3	-	0	*	45	35	31	0·1	Tr	4·4
Thorney Island	05·0	+26	W	3	b-bc	40	85	37	7	5	-	1	2-3	2-3	4000	1	*	47	37	31	0·2	Tr	*
Lympne	02·3	+12	W	3	c/pr	35	97	35	5	7	-	-	9+	9+	1500	1	§4	43	34	30	3	0·1	1·0
Manston	01·1	+10	WNW	4	pr	39	85	35	6	8	7	-	4-6	7·8	2500		*	41	36	32	7	Tr	0·0
Shoeburyness	01·5	+18	W	4	z0	40	85	36	6	5	-	-	10	10	1500	1	*	44	37	30	3	0·1	0·8
Felixstowe	99·6	+14	WNW	4	c/r	39	92	36	6	6	-	-	10	10	1500	1	4	43	35	27	5	0·4	0·0
Gorleston	99·2	+26	W'N	2	z0	38	92	35	6	5	-	-	10	10	1500	1	3	43	35	32	7	1	0·[illegible]
Mildenhall	00·4	+30	WNW	4	c	40	85	37	7	5	-	-	7·8	10	1100	1	*	43	34	30	0·4	1	0·6
Cranwell	01·2	+38	WNW	3	z0	39	92	36	6	5	7	1	4-6	9+	3000	1	*	42	34	32	-	3	3·0
Birmingham	03·5	+24	WNW	2	ir0	40	92	38	4	6	-	-	10	10	800	1	*	43	37	33	-	3	2·5
Upper Heyford	02·1	+26	W	4	r0b	41	85	37	6	5	-	-	10	10	2500	1	*	44	35	34	-	0·6	*
Ross-on-Wye	04·5	+26	W'S	2	b	41	75	35	8	5	-	-	Tr	Tr	3000	1	*	46	38	33	-	-	4·9
Hartland Point	07·2	+20	NW	4	bc	45	85	41	8	2	-	-	4-6	4-6	2500	1	4	46	42	38	Tr	Tr	2·4
Bristol	05·9	+18	W	4	b	39	92	37	6	5	4	-	Tr	Tr	4000	2	*	46	38	30	-	-	5·6
Portland Bill	06·1	+20	SW	5	bc	45	92	43	8	5	-	-	4-6	4·6	4000	1	5	48	42	*	-	-	*
Plymouth	08·8	+22	W'N	3	z0	42	92	40	6	8	-	-	7·8	7·8	2000	1	3	49	40	35	1	1	5·0
The Lizard	09·1	+20	NW	5	c-bc	46	85	42	8	8	-	-	7·8	7-8	1500	1	4	48	41	*	0·3	1	3·5
Scilly (St. Mary's)	09·3	+12	NW	5	bc/pr	47	85	42	8	8	-	-	4-6	4-6	1500	1	5	48	43	*	1	2	2·0
Guernsey																							
Pembroke	06·9	+16	NW	5	b-bcq	45	92	42	8	2	-	-	2-3	2-3	4000	1	3	47	44	*	-	Tr	5·5
Holyhead (Valley)	04·8	+22	NW'W	4	b	42	85	38	8	8	4	-	Tr	1	2500	1	3	45	41	39	Tr	0·2	*
Chester (Sealand)	02·8	+32	NNW	2	r0r0	44	85	40	6	5	-	-	4-6	4-6	2000	1	*	45	39	34	Tr	5	5·0
Manchester	03·1	+28	W'S	3	pr	38	92	35	6	2	6	-	7·8	9+	2700	1	*	40	36	32	Tr	2	*
Spurn Head	99·6	+32	WNW	5	z0	37	92	36	6	5	-	-	2-3	2-3	1500	1	4	41	36	*	1	0·2	1·3
Catterick	01·6	+28	NW	1	z0	37	85	33	6	5	-	+	1	1	4000	1	*	42	32	27	-	0·4	4·5
Tynemouth	00·6	+22	W	3	bc	38	85	34	6	8	-	-	4-6	4-6	2500	1	3	39	36	33	-	2	*
St. Abbs Head	98·3	+10	WNW	2	b-bc	39	75	31	7	5	-	-	2-3	2-3	4000	0	2	38	37	*	-	-	*
Leuchars	99·3	+18	-	0	z0	33	85	30	6	-	3	-	0	Tr	-	3	*	41	32	27	-	-	2·8
Renfrew (Abbots I.)	00·5	+14	-	0	r0r0	33	97	32	4	5	1	-	7·8	10	2000	1	*	41	30	*	5	0·1	0·0
Eskdalemuir	00·8	+20	-	0	b	34	92	31	8	5	-	-	Tr	Tr	3500	3	*	37	29	22	4	3	0·0
Point of Ayre	01·8	+22	NN'W	5	b	43	92	41	8	6	-	-	1	1	2000	1	4	46	42	*	0·3	0·2	4·5
Tiree	99·4	+14	WNW	2	b	44	85	40	8	2	-	-	Tr	Tr	2500	1	2	44	42	35	2	1	1·4
Stornoway	97·2	+12	SSW	3	b-bc	39	97	38	8	8	-	-	2-3	2-3	2500	1	2	45	34	*	0·1	0·5	
Dalwhinnie	99·0	+2	-	0	c	29	85	26	7	5	-	-	9+	9+	1500	3	*	36	20	14	-	-	1·6
Aberdeen †	98·7	+12	NW	1	z0	31	92	29	5	-	4	-	0	Tr	-	3	2	41	29	22	-	-	4·2
Wick	97·3	+14	SW	1	c-bc/r	37	92	35	7	5	7	-	4-6	7·8	2500	1	*	43	30	*	Tr	0·4	*
Sumburgh	96·5	+10	SW	3	b	42	92	40	8	-	4	-	0	1	-	1	3	45	42	34	Tr	-	0·1
Blacksod Point	04·9	+6	W'N	4	b-bc	44	75	37	8	3	-	-	2-3	2-3	2500	1	3	47	41	*	2	1	*
Malin Head	00·8	+16	WNW	3	bc	46	85	41	8	9	-	-	4-6	4-6	2500	2	3	45	42		9	0·3	0·0
Aldergrove	03·0	+16	SSW	2	bc	36	97	34	7	5	-	-	4-6	4-6	2500	1	*	41	33	29	2	3	1·2
Birr Castle	06·2	+18	S	1	b	34	97	33	8	-	-	-	0	0	-	1	*	44	31	25	0·1	-	4·6
Valentia Obsy.	09·0	+6	SW'W	2	b/pr	44	75	37	8	2	-	-	1	1	2500	1	2	47	44	36	1	0·6	1·2
Roches Point	09·0	+14	WNW	3	b	[illegible]	85	39	8	5	-	-	1	1	2500	1	4	45	41	*	0·6	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 14th January $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 15th January $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109				52	02764	19217	50	01754	19224	8-	81665	18325
115	87	02844	20486				54	02954	29386	54	02854	20425
203	70	01953	16113	5-	03248	16228	54	02944	16426			
206	03	04890	24102	04	01690	28102	5-	01864	24114	5-	01864	28224
210	03	01990	20102	54	01873	00014	53	01871	20211	5-	01863	22213
220	80	01834	32184	83	25755	30217				80	25755	25285
230	9-	25946	12286	57	02965	04186	57	02963	00028	5-	61758	00068
245	04	05590	25144	03	08430	00014	04	05690	22113	50	01853	25103
260	57	01764	20316	5-	63548	04768	5-	05567	00027	00	05690	20100
276	57	02856	25427	61	63745	25668	8-	02847	26387	80	01853	26483
279	2-	05654	18225	52	62763	27468	83	02754	30386	50	05653	20313
285				35	-----	25635				5-	05627	28427
288	00	08490	16140	04	05530	18182	57	05545	28157	5-	05654	23124
575	86	02845	18286	36	25943	32384	20	01841	32201	30	01843	28283
30[illegible]	86	05654	26315	84	05654	26414	8-	02856	28486	37	81645	28227
321	00	08490	27441									
[illegible]	81	61655	30368	00	05530	30300	54	05654	30115	40	05654	30214
292	40	05661	31123	40	05662	24112	26	25644	00085	57	02756	26228
310				--	01635	26415						
614	00	05662	28312	00	08480	24323	56	64554	24386	50	05553	26213
333	20	01853	24313	80	01854	23314	03	02790	27526	50	01762	26202
334	--	02644	28215	--	68646	28377				--	02644	24216
340	40	5653-	62473	40	01851	24201	23	62754	26367	5-	22654	26364
136	5-	62518	31468	00	05590	26463	57	61546	22418	5-	05667	27467
336	10	01764	28514	50	01754	24414				57	02654	28516
350	80	02755	26345	04	05690	24311	04	01790	22324	54	05654	2-26
368	20	01853	25404	30	00862	24312	54	01863	24314	50	00861	24201
379	70	01743	28323	40	01762	24312	40	05664	14314	5-	25665	24499
390	51	08435	61567	00	41490	24440	07	08490	20315	5-	08458	24468
382	53	02755	62515	40	01861	24211	07	05690	23325	57	61757	25468
438				50	01653	22413	54	01753	24413	5-	01764	25414
430	10	01841	61513	01	01790	26322	00	02790	26107	50	02755	26215
409	8-	81845	26527	92	82645	24385	3-	25755	28585	26	00753	27413

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, Nh = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 15th January. Day 7h—18h Kew and Croydon, 9h—18h Kensington, 9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew ...	ir0m0 bz0	bz0	bm0r0m0
Croydon ...	cm0cmcm0	bm0	bmir0bm0
Greenwich ...	cqc	cbbcb	bcpcm
Camden Square	c	bc	*
Kensington ...	cbc	bc	*
Hampstead ...	bcp	bcor	bc

Atmospheric Pollution, Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. [illegible] Time: 0·3 [illegible]7h on 14th
Min. Time: <0·1 0-4h on 15th

Stations	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 % Yesterday	Humidity 9h % To-day
Kew ...	44	37	26	Tr	0·3	3·2	*	*
Croydon ...	43	38	34	Tr	0·5	2·8	*	*
Greenwich ..	44	36	29	-	0·3	2·1	72	82
Westminster ..	45	37	29	0·3			75	94
Regents Park ..	43	36	33	-	0·2		75	83
Camden Square	43	40	31	-	0·3	*	*	86
Kensington ...	45	36	31	-	0·4		71	84
Hampstead ...	42	34	29	Tr	0·2		*	93

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

SECRET

Saturday 16th January 1943

No. 25640

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	07·7	+20	WNW	3	2o	46	65	35	6	7	3	6	4-6	7-8	2500
	Croydon ...	08·3	+18	W'N	4	2o	45	75	37	6	5	4	–	4-6	7-8	3000
	S. Farnborough	08·8	+16	W	5	b	46	75	38	8	5	3	–	Tr	Tr	3500
	Boscombe Down	10·2	+14	W	4	b	46	75	38	7	2	–	–	Tr	Tr	4000
	Thorney Island	09·5	+14	WNW	4	b	47	75	38	7	–	–	–	0	0	–
	Lympne ...	07·6	+22	W'N	2	2o	42	85	38	6	5	–	–	7-8	9+	2000
	Manston ...	07·1	+22	NW'W	3	2o	42	85	36	6	5	–	–	9	9	4000
2	Shoeburyness ...	07·8	+20	WNW	1	2o	48	85	44	5	5	–	–	9+	9+	1500
	Felixstowe ...	05·9	+20	W'N	4	2o	43	75	34	6	1	7	–	1	2-3	4000
	Gorleston ...	04·6	+22	NW'W	3	bc	44	85	39	7	–	–	8	0	4-6	–
	Mildenhall ...	05·8	+14	W	3	2o	42	85	37	6	5	4	–	1	2-3	5000
	Cranwell ...	05·2	+10	W	4	2o	43	85	38	5	–	3	–	0	4-6	–
3	Birmingham ...	07·3	+10	W	3	b-bc	46	75	38	7	5	–	–	2-3	2-3	1500
	Upper Heyford	07·0	+10	W'N	4	b-bc	46	75	37	8	5	3	–	Tr	2-3	2500
4	Ross-on-Wye	08·5	+8	W'S	2	b-bc	48	65	38	8	1	–	–	2-3	2-3	3000
5	Hartland Point	10·6	+8	NNW	3	bc	48	75	42	8	2	–	–	4-6	4-6	2400
	Bristol ...	09·9	+6	W	4	b	46	75	39	7	1	–	–	Tr	Tr	4000
	Portland Bill ...	10·0	+12	W	4	bc	48	92	46	8	2	–	–	4-6	4-6	4000
	Plymouth ...	11·6	+4	WNW	2	b-bc	49	75	41	7	2	6	–	2-3	2-3	2000
	The Lizard ...	11·8	+6	WNW	5	bc	50	75	41	8	2	6	–	4-6	4-6	2000
	Scilly (St. Mary's)	12·2	+4	WNW	4	c-bc	50	65	39	8	8	7	8	4-6	7-8	1500
	Guernsey ...															
6	Pembroke ...	10·2	+12	WNW	3	b-bcq	48	85	45	8	2	–	–	2-3	2-3	3000
7	Holyhead (Valley)	07·6	+4	WNW	4	b	47	85	41	8	2	4	–	Tr	1	3000
	Chester (Sealand)	06·3	+10	NW	4	b-bc	47	75	40	8	2	–	–	2-3	2-3	2000
8	Manchester ...	06·2	+10	WSW	4	2o	44	97	42	6	2	6	–	7-8	9	2500
10	Spurn Head ...	04·2	+12	W	3	m	40	85	35	4	3	4	–	4-6	4-6	800
	Catterick ...	04·0	+6	W'S	2	bc	46	75	37	8	5	4	–	1	4-6	4000
	Tynemouth ...	03·0	+6	WSW	3	2o	43	85	38	5	–	4	–	0	4-6	–
11	St. Abbs Head	01·3	+6	WNW	3	c-bc	42	85	38	7	5	4	–	4-6	7-8	3500
	Leuchars ...	01·3	+6	SW	1	2o	38	85	35	6	5	3	2	2-3	4-6	4500
12	Renfrew (Abbots I.)	03·0	+10	SW	2	c	44	85	40	7	8	6	–	7-8	9	2000
	Eskdalemuir ...	03·2	+2	W	2	bc	39	92	37	6	5	4	–	4-6	4-6	1200
	Point of Ayre ...	05·1	+8	WNW	5	b	45	85	40	8	5	4	–	Tr	1	2000
13A	Tiree ...	02·6	+8	W'N	2	bc	47	75	38	8	2	6	–	2-3	4-6	3000
13B	Stornoway ...	99·8	+6	W	4	pr	45	92	42	8	3	6	–	7-8	9	1800
15	Dalwhinnie ...	01·2	+8	WNW	2	c	38	92	36	8	8	–	–	9+	9+	1500
	Aberdeen ...	00·3	+4	W	2	2o	39	75	33	6	5	–	–	9+	9+	3300
	Wick ...	98·9	+2	SW	1	c-bc	41	92	36	8	5	7	5	2-3	7-8	4000
16	Sumburgh	98·2	+2	ESE	3	c	45	92	42	9	8	6	–	9	9	2500
17	Blacksod Point	06·0	–6	SW	3	bc	48	65	36	8	8	–	6	2-3	4-6	2500
18	Malin Head ...	03·9	+6	W'S	3	bc	45	85	41	8	9	–	–	4-6	4-6	2500
	Aldergrove ...	05·7	+6	SW'W	2	bc	44	85	40	7	8	–	1	2-3	4-6	2500
19	Birr Castle ...	07·9	0	WSW	2	c-bc	46	75	38	8	5	–	5	4-6	7-8	2500
20	Valentia Obsy.	08·1	–18	S'W	4	c-bc	50	75	42	9	2	–	3	2-3	7-8	2500
	Roches Point	09·7	–10	W'S	1	bc	46	85	42	8	5	–	5	1	4-6	2500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	11·0	+16	SW	2	2o	42	85	37	5	–	–	–	0	0	–	1	*
	Croydon ...	11·7	+16	W	2	2o	42	85	37	5	–	4	–	0	Tr	–	1	*
	S. Farnborough	11·8	+18	WSW	3	b	38	85	35	8	–	4	–	0	Tr	–	1	*
	Boscombe Down	12·5	+16	W	3	b-bc	39	92	37	7	–	4	1	0	2-3	–	0	*
	Thorney Island	12·0	+14	W	3	2o	43	85	39	5	–	4	–	0	Tr	–	1	*
	Lympne ...	11·6	+22	W'S	2	2o	42	85	36	6	5	7	–	1	9	3000	1	3
	Manston ...	10·9	+24	W'S	3	2o	42	85	37	5	5	7	–	Tr	9+	2000	1	*
2	Shoeburyness ...	11·1	+26	NW	3	2o	43	85	38	5	5	–	–	9+	9+	2500	1	*
	Felixstowe ...	09·6	+22	WSW	3	2o	43	85	38	5	5	–	–	9	9	3700	1	3
	Gorleston ...	08·6	+14	WSW	2	2o	41	85	37	6	5	–	–	9+	9+	1000	0	2
	Mildenhall ...	09·0	+14	SW'W	3	2o	43	85	39	5	5	–	–	7-8	7-8	5700	1	*
	Cranwell ...	08·5	+20	W	3	2o	41	92	38	5	–	7	–	0	4-6	–	1	*
3	Birmingham ...	10·3	+14	SW	2	b-bc	41	65	29	6	–	3	–	0	2-3	–	1	*
	Upper Heyford	10·1	+18	W'S	2	b-bc	41	85	36	8	–	4	8	0	2-3	–	1	*
4	Ross-on-Wye	10·6	+10	SW	1	b	43	85	37	8	–	7	1	0	Tr	–	1	*
5	Hartland Point	11·1	+2	WSW	4	c-bc/pr	45	85	40	8	3	4	–	4-6	7-8	2500	1	3
	Bristol ...	11·6	+6	WNW	1	2o	42	92	40	6	–	7	1	0	2-3	–	1	*
	Portland Bill ...	12·2	+8	W	4	c-bc	47	92	46	8	5	–	–	7-8	7-8	4000	1	4
	Plymouth ...	13·0	+8	–	0	2o	45	85	43	6	4	7	6	1	4-6	2500	1	1
	The Lizard ...	11·9	0	WSW	4	c	47	85	43	8	8	7	–	7-8	9+	2000	1	4
	Scilly (St. Mary's)	11·3	–2	SW	3	c	47	85	44	8	8	7	2	4-6	9	1200	1	4
	Guernsey ...																	
6	Pembroke ...	11·1	+6	SW'W	2	c-bc/pr	47	85	42	8	8	6	–	4-6	7-8	3000	1	3
7	Holyhead (Valley)	09·1	+4	SW'W	3	c-bc	44	85	39	8	2	4	6	1	7-8	3000	1	3
	Chester (Sealand)	08·8	+18	W	2	b	41	85	36	6	5	–	–	Tr	Tr	2500	1	*
8	Manchester ...	08·7	+18	SW	3	2o	41	92	39	6	4	6	–	2-3	4-6	4000	1	*
10	Spurn Head ...	07·1	+14	W'S	3	2o	42	85	37	5	5	–	–	10	10	800	1	3
	Catterick ...	07·2	+18	WSW	2	bc	41	85	36	7	–	3	–	0	4-6	–	1	*
	Tynemouth ...	04·9	+14	W	2	2o	42	85	38	6	–	4	–	0	4-6	–	1	3
11	St. Abbs Head	03·2	+12	WNW	3	b-bc	44	75	42	7	4	1	–	1	2-3	3500	0	3
	Leuchars ...	03·3	+10	WSW	4	b	36	92	36	7	5	4	–	1	1	5000	1	*
12	Renfrew (Abbots I.)	05·1	+14	WNW	3	bc	40	92	37	8	8	4	8	4-6	4-6	2500	1	*
	Eskdalemuir ...	05·4	+10	WNW	2	bc	37	92	34	8	5	7	–	2-3	4-6	2200	1	*
	Point of Ayre ...	07·1	+12	W'N	3	b-bc	41	92	39	8	4	4	8	1	2-3	4000	0	3
13A	Tiree ...	04·0	+8	WSW	2	c-bc	39	85	35	9	8	3	5	4-6	7-8	2500	1	2
13B	Stornoway ...	02·4	+18	WSW	3	b	38	92	36	8	8	6	–	1	1	2200	1	*
15	Dalwhinnie ...	03·0	+10	W	2	bc	36	85	32	8	8	–	–	4-6	4-6	2500	1	*
	Aberdeen ...	02·8	+16	WNW	2	bF+	38	92	35	1	5	–	–	1	1	4000	3	2
	Wick ...	00·7	+14	SW	2	bc	38	92	37	8	3	3	–	2-3	4-6	3000	1	*
16	Sumburgh	99·9	+6	SW	2	b	43	92	41	9	–	3	–	0	1	–	1	3
17	Blacksod Point	03·6	–14	S	4	c-bc	47	85	43	8	6	–	6	4-6	7-8	1500	1	3
18	Malin Head ...	04·3	+2	S	2	b-bc	41	92	40	8	4	–	–	2-3	2-3	2500	2	3
	Aldergrove ...	07·1	+6	S	1	c	38	92	35	7	–	4	8	0	9	–	1	*
19	Birr Castle ...	06·9	–6	SSW	1	bc	38	85	34	8	5	–	–	4-6	4-6	2500	1	*
20	Valentia Obsy.	05·0	–20	S	4	c-bc	48	85	44	8	8	–	–	7-8	7-8	2500	1	3
	Roches Point	07·7	–10	SW'S	3	bc	47	85	43	8	3	–	5	4-6	4-6	1500	1	4

PAST 24 HOURS.

Stations	Weather. 7h.—13h. 15th (39)	13h.—18h. 15th (40)	18h.—24h. 15th to 1h. 16th (41)	1h.—7h. 16th (42)
London (Kew)	ciro bczo	bczobmw	bmow	xcirf
Croydon ...	cmoiromo	bczobmo	bcmocmo	bcmbcmcm
S. Farnborough	bcb	b	bbc	bcciromo
Boscombe Down	b	b	bbcmo	bcmocrroc
Thorney Island	bmb	bbmo	mofbmx	bmxcprrr
Lympne ...	cmo	cbmocmo	bccmo	bcmoprw
Manston ...	prcm.	cbmo	bmobcmo	cmobcmo
Shoeburyness ...	bcmo	bcmo	cmo	cmow
Felixstowe ...	cmobcmo	cmobmcmocmobcmo	cmbcmbcmo	
Gorleston ...	cbczo	czo	cbczozo	bbczo
Mildenhall ...	cbcmo	bcmoccmocmbmomo	bcmbmcm	
Cranwell ...	cbcbmo	bcmo	bmobcmo	bmbcmw
Birmingham ...	orbc	bbc	bbc	bco
Upper Heyford	crorobc	bbcb	bbcmocm	cmidircm
Ross-on-Wye	bbc	bcb	bbcc	cdoc
Hartland Point	bccpobc	bccpo	cbcc	cbc
Bristol ...	omob	bbmobcmo	bccmow	bccmow
Portland Bill ...	bc	bcc	c	c
Plymouth ...	cmocprbc	bcprcmo	cfcmroc	cproc
The Lizard ...	bcc	bcprc	c	cprc
Scilly (St. Mary's)	cbc	cpo c	c	crid
Guernsey ...				
Pembroke ...	bc	bccpro	bcc	c
Holyhead (Valley)	b	bcbbc	cpro	cro
Chester (Sealand)	mocprob	bcbmo	bccmo	c bc
Manchester ...	cpro mmo	cbcmo	bccmo	cmocm
Spurn Head ...	bcm	om	bcmo	bcmo
Catterick ...	bmbc	bc	bcc	bcmoF
Tynemouth ...	bcmo	bcmop	bbcmo	bcm
St. Abbs Head	bbccmo	cmoprbc	bcbcc	bccbc
Leuchars ...	bcbcmo	bcmobmb	bxbcx	bcmox
Renfrew (Abbots I.)	rorof pro	cbc	bcmocmo	cmocmoro
Eskdalemuir ...	cbcpro	cpro bc	bc	bcc
Point of Ayre ...	b	bccb	bbccw	bbcroro
Tiree ...	bcprobc	bcjpc	prbccbbc	bccorr
Stornoway ...	bccpro	cpro bc	bcc	bcpro
Dalwhinnie ...	c	cpro bc		bcpro
Aberdeen ...	bffxbczczo	cbcff	bFzx	bzfx
Wick ...	bc	bccbc	bcprobc	bc
Sumburgh	c	bc	bcb	cPRc
Blacksod Point	bc	c	r	r
Malin Head ...	pr	pr	c	r
Aldergrove ...	bc	c	cmobcmo	bccirororo
Birr Castle ...	c	bc	r	r
Valentia Obsy.	pr	bc	pr	r
Roches Point	bc	pr	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 16th January

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate southerly winds, becoming fresh locally, veering during tomorrow; cloudy to overcast, light rain or drizzle locally today, more general rain tomorrow morning; becoming mild.
4 W. Midlands 5 S.W. England 6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands ...	Fresh southerly winds, strong at times on the coast, veering westerly tomorrow; dull, rain and drizzle at times with some hill fog; brighter periods with some showers tomorrow; mild today, colder tomorrow.
10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland	Fresh southeast to south wind, falling light variable, finally westerly; dull, rain at times; rather cold.
15 N.E. Scotland	Light southwest winds freshening from south later; showers and bright intervals at first, becoming dull and rainy; rather cold.
16 Orkneys and Shetlands	Moderate to light southwest winds; showers, bright intervals, rather cold.
17 N.W. Ireland	Light indefinite winds, freshening from a westerly point tomorrow; dull, rainy today; bright periods and showers tomorrow; rather cold.
18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	

GENERAL INFERENCE

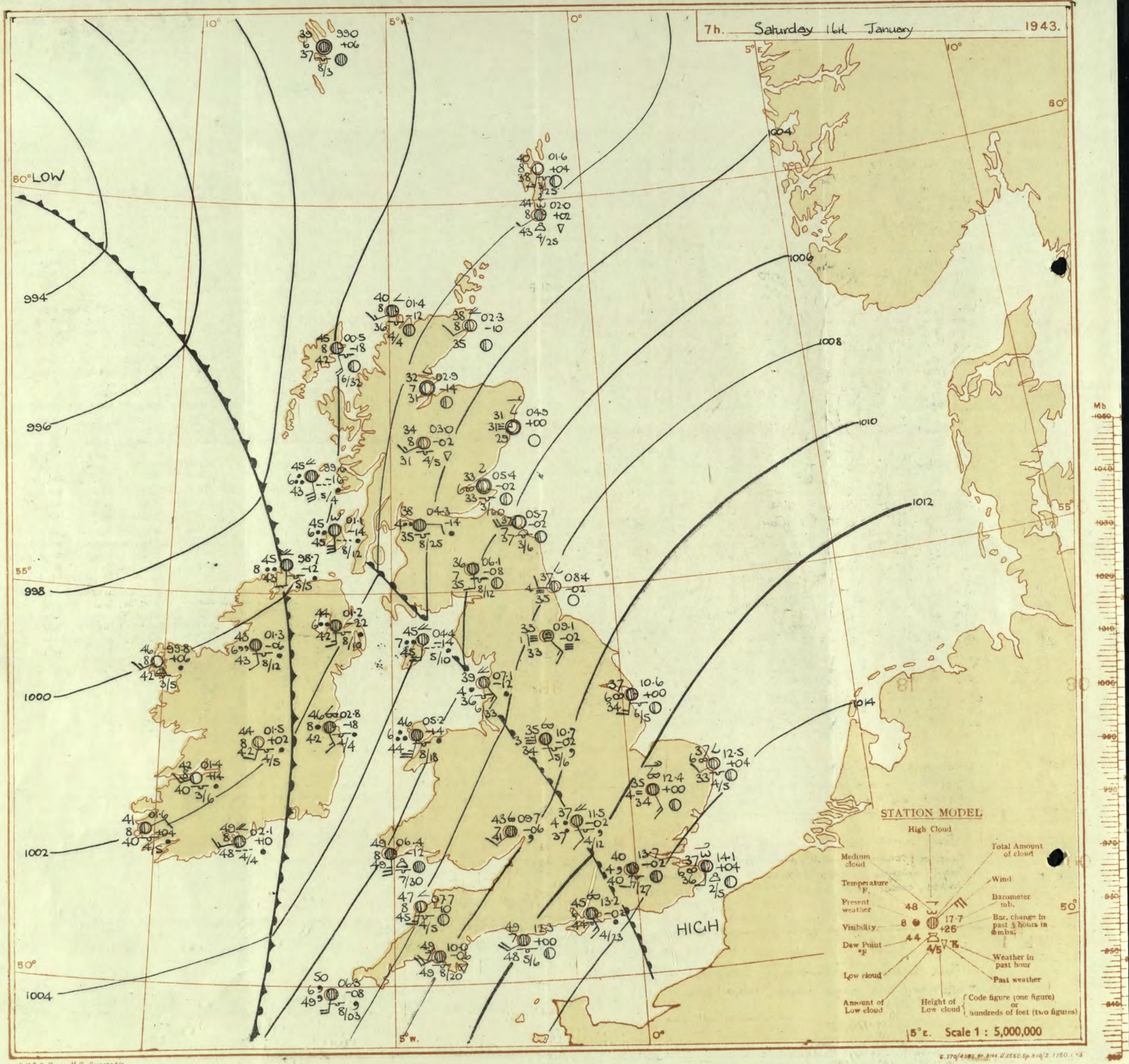
A depression southward of Iceland is moving slowly northnortheast and a secondary disturbance midway between Southwest Ireland and the Azores will move northeast in the neighbourhood of the Irish Sea. Weather will be mainly mild with rain in most districts but brighter conditions will spread eastwards tomorrow.

FURTHER OUTLOOK

The unsettled type continuing, but bright periods in most districts.

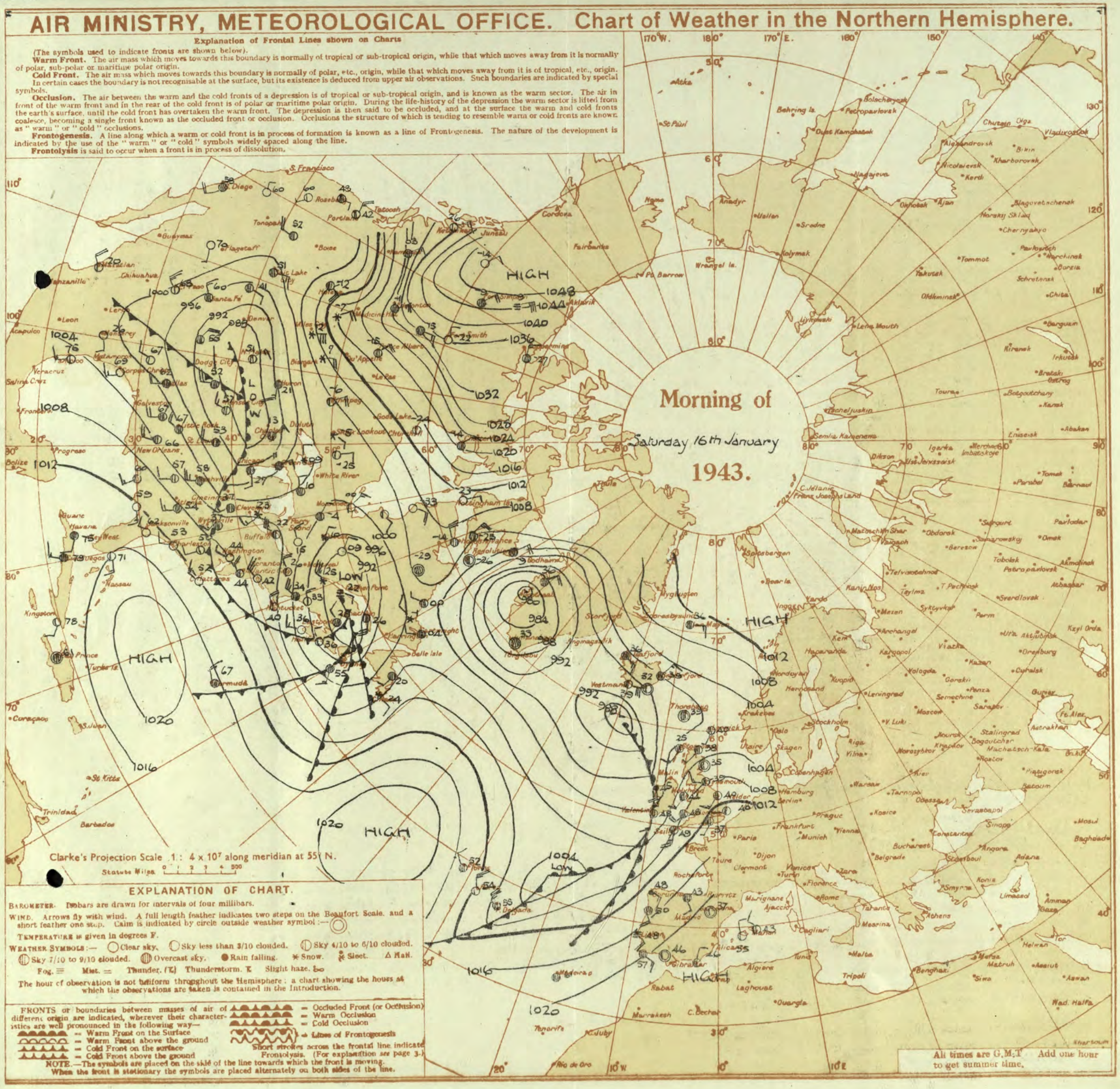
Forecasts issued at 1030.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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



Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday 16th January 1943

No. 29640

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	33	*	*	*	*	*	*	*	*	*
	Croydon	290	04·0	+4	SW	1	z0	37	92	36	9	–	3	–	0	9	–
	S. Farnborough	226	13·4	+2	SW'S	2	b-bc	36	97	35	8	–	7	8	0	2-3	–
	Boscombe Down	417	13·7	-2	SE'S	2	z0	35	97	34	6	–	4	1	0	2-3	–
	Thorney Island	10	13·5	+2	—	0	m/f	32	97	32	4	–	4	1	0	1	–
	Lympne	283	14·3	+6	W	1	z0	34	92	32	6	–	–	6	0	7-8	–
	Manston	154	13·6	+10	WSW	2	z0	35	97	34	6	–	–	6	0	7-8	–
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	12·3	+8	SW	2	z0	38	92	35	5	–	1	–	0	4-6	–
	Gorleston	5	11·5	+14	W	2	z0	40	85	34	6	5	3	–	2-3	4-6	1500
	Mildenhall	15	12·1	+6	SW'S	3	z0	37	92	34	5	–	3	2	0	7-8	–
	Cranwell	203	10·9	+6	WSW	3	z0	36	92	33	5	–	4	1	0	2-3	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	12·0	+4	SW	1	m	35	97	35	4	–	3	–	0	10	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	09·6	-12	S	3	c-bc	43	92	41	8	5	4	5	2-3	7-8	2500
	Bristol	209	12·5	+2	SW'S	2	z0	40	85	37	6	5	4	5	Tr	4-6	4000
	Portland Bill	32	12·8	0	S	4	c	47	92	45	8	5	–	–	10	10	4000
	Plymouth	82	11·8	-10	SSW	3	c	48	92	46	8	8	1	–	4-6	10	2500
	The Lizard	240	10·0	-10	SSW	5	c-bc	49	85	46	8	8	2	–	7-8	7-8	1500
	Scilly (St. Mary's)	163	08·5	-16	SSW	5	cjp	49	85	45	7	8	–	–	9	9	1200
	Guernsey	175															
6	Pembroke	142	08·6	-14	SW	4	c-bc	48	97	48	8	8	–	–	7-8	7-8	4000
7	Holyhead (Valley)	32	07·4	-14	SSW	3	c-bc/pr	44	92	42	8	2	6	8	4-6	7-8	2000
	Chester (Sealand)	16	09·3	0	S	1	c-bc	38	85	35	7	–	–	6	0	7-8	–
8	Manchester	235	09·9	+2	SSE	3	z0	37	92	35	6	–	3	2	0	9+	–
10	Spurn Head	29	09·8	+10	SW'S	3	z0	40	85	35	5	5	4	–	2-3	4-6	1500
	Catterick	175	09·3	+10	SSW	1	c	34	97	33	7	–	–	7	0	10	–
	Tynemouth	108	08·3	0	W	3	z0	39	85	38	6	–	4	–	0	4-6	–
11	St. Abbs Head	280	05·5	+6	W	3	bc	39	92	36	7	5	–	–	4-6	4-6	4000
	Leuchars	36	05·6	+4	W	1	z0	36	97	34	6	–	4	–	0	4-6	–
12	Renfrew (Abbots I.)	19	06·1	+2	SSW	1	z0	37	97	36	5	8	1	–	2-3	9	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	06·9	-6	SSW	2	c-bc	38	92	35	8	2	4	8	Tr	7-8	2000
13A	Tiree	44	02·8	-10	S	4	bc	44	85	39	8	1	8	6	Tr	4-6	3000
13B	Stornoway	15	03·0	-2	SSW	3	c-bc	35	97	35	8	4	3	–	2-3	7-8	3200
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	04·4	+4	—	0	bc	35	85	31	9	–	4	–	0	4-6	–
	Wick	114	02·9	+6	SW	1	c-bc	38	92	35	9	–	3	–	0	7-8	–
16	Sumburgh	19	01·3	+6	SW	1	b	41	97	41	9	4	–	–	Tr	Tr	2500
17	Blacksod Point	18	98·7	-22	SSE	4	rr	45	92	43	7	6	2	+	7-8	10	1500
18	Malin Head	84	01·2	-22	SSE	3	c-bc	41	73	34	8	5	–	7	4-6	7-8	2500
	Aldergrove	268	05·0	-18	S'E	2	z0	40	92	37	6	5	7	–	2-3	7-8	3500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	00·1	-18	S'W	4	c/r	48	92	46	7	5	7	–	9	10	2500
	Roches Point	22	03·6	-18	S	6	rr	49	97	48	7	6	2	–	4-6	10	800

OBSERVATIONS at 7 hr. G.M.T. 16th January — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 15th Hrs. (38)
London (Kew)	12·8	-2	—	0	rf	37	97	35	2	5	–	–	10	10	<150	1	*	47	31	21	0·1	Tr	2·8
Croydon	13·7	-2	SSW	2	id0	40	97	40	4	5	–	–	9+	9+	2700	1	*	48	35	32	0·5	0·2	2·2
S. Farnborough	12·9	-2	SSE	3	r0r0	39	97	38	6	5	7	–	7-8	10	2500	1	*	47	35	25	Tr	1	5·6
Boscombe Down	12·8	-6	SE'S	3	z0	40	97	39	6	5	2	–	4-6	10	1100	1	*	47	33	27	–	0·3	6·8
Thorney Island	13·2	-2	S'E	3	c/r	45	92	44	6	5	7	–	4-6	10	2300	1	*	48	30	23	–	1	*
Lympne	15·0	+6	S	1	z0	41	97	40	6	2	1	–	4-6	4-6	2000	1	§3	43	32	24	–	0·1	0·9
Manston	14·1	+4	SSW	2	z0	37	97	36	6	2	3	1	1	7-8	2500	1	*	43	34	30	Tr	–	0·6
Shoeburyness	14·0	0	—	0	z0	38	97	37	5	5	–	–	9	9	4000	1	*	46	35	33	–	Tr	2·8
Felixstowe	13·3	+2	SSW	3	z0	36	92	33	5	–	7	–	0	2-3	–	1	2	44	34	26	–	–	[illegible]
Gorleston	12·5	+4	SW'W	2	z0	37	85	33	6	5	4	–	4-6	4-6	2500	0	1	44	37	31	–	–	[illegible]
Mildenhall	12·4	0	S'E	3	m	35	92	34	4	–	7	2	0	7-8	–	1	*	44	33	17	–	Tr	1·7
Cranwell	10·6	-4	SW'S	3	z0	37	92	35	6	5	4	–	9	9+	5000	1	*	44	34	31	–	–	4·0
Birmingham	09·9	-8	SSE	3	z0	39	92	37	5	–	7	–	0	10	–	1	*	46	36	32	0·6	–	3·5
Upper Heyford	11·5	-2	S'E	2	ir	37	97	37	4	5	2	–	4-6	10	1200	1	*	47	33	31	0·1	0·4	*
Ross-on-Wye	09·7	-6	SW'S	2	c	43	92	41	7	–	7	–	0	10	–	1	*	49	37	27	–	Tr	5·9
Hartland Point	07·7	-10	SSW	3	bc	47	92	45	8	5	1	–	4-6	4-6	2500	1	3	48	42	39	Tr	–	3·7
Bristol	10·9	-6	SW	3	c	45	85	41	7	5	7	–	2-3	10	2500	1	*	47	39	33	Tr	–	6·0
Portland Bill	12·3	0	SW	4	c-bc	49	85	48	7	5	–	–	7-8	7-8	4000	1	4	48	45	*	–	–	*
Plymouth	10·0	-6	SW	4	c	49	97	49	7	5	–	–	10	10	2000	1	3	50	37	36	1	3	3·9
The Lizard	08·6	-6	SW	4	c	50	92	48	7	5	2	–	9	10	1500	1	4	50	46	*	Tr	0·5	5·0
Scilly (St. Mary's)	06·3	-8	S'W	4	id	50	92	49	6	5	–	–	10	10	1000	1	4	51	47	*	0·2	0·1	5·8
Guernsey																							
Pembroke	06·4	-12	S	5	c	49	97	49	8	8	–	–	9+	9+	3000	1	3	49	45	*	Tr	0·5	4·6
Holyhead (Valley)	05·2	-14	SSW	5	rr	46	97	44	6	5	–	–	10	10	1800	1	3	48	42	38	–	1	*
Chester (Sealand)	08·4	-6	S	1	r0r0	38	92	36	7	5	–	–	10	10	2500	1	*	47	41	30	Tr	0·2	5·4
Manchester	09·1	-4	SE	4	z0	40	85	37	5	5	3	–	7-8	10	4700	1	*	44	35	31	0·2	–	*
Spurn Head	10·6	0	S'W	3	z0	37	92	34	6	5	–	–	9	9	2500	1	3	42	36	*	–	Tr	5·3
Catterick	09·1	-2	SE	3	F+	33	97	33	1	–	–	–	10	10	<150	1	*	47	32	25	–	–	5·8
Tynemouth	08·4	-2	W	2	m	37	92	35	4	–	4	–	0	4-6	–	1	3	45	36	29	Tr	–	*
St. Abbs Head	05·7	-2	W	4	b-bc	37	97	37	7	4	–	–	2-3	2-3	4000	0	3	44	35	*	Tr	–	*
Leuchars	05·4	-2	—	0	z0	33	97	33	6	5	–	6	2-3	4-6	6000	3	*	43	33	22	–	–	4·6
Renfrew (Abbots I.)	04·3	-14	E	2	r0r0	38	92	35	4	5	–	–	10	10	2500	1	*	47	35	*	0·2	0·1	2·2
Eskdalemuir	06·1	-8	S	2	c	36	97	35	7	5	–	–	10	10	1200	1	*	42	33	28	1	–	1·1
Point of Ayre	04·4	-14	S'W	4	r0r0	45	97	45	7	6	2	–	7-8	10	1000	1	4	46	36	*	–	0·2	5·4
Tiree	99·6	-16	S'E	6	rr	45	92	43	6	6	2	–	7-8	10	1500	1	5	47	39	39	0·4	2	4·5
Stornoway	00·5	-18	SSE	5	c	45	92	42	8	5	–	–	9	9	3200	1	3	46	35	27	1	–	2·4
Dalwhinnie	03·0	-2	SW	3	bc	34	85	31	8	5	–	–	4-6	4-6	2500	3	*	39	31	25	0·2	0·1	0·0
Aberdeen †	04·9	0	—	0	bf+	31	97	29	3	–	4	8	0	1	–	3	1	42	31	24	–	–	3·2
Wick	02·3	-10	SW	2	bc	38	92	35	8	–	2	–	0	4-6	–	1	*	43	35	31	Tr	Tr	*
Sumburgh	02·0	+2	SW	1	c	44	97	43	8	2	3	6	4-6	9+	2500	1	1	45	39	37	–	0·3	0·1
Blacksod Point	99·8	+6	SW	3	b-bc	46	85	42	8	8	–	–	2-3	2-3	2500	2	3	49	44	*	0·3	5	*
Malin Head	98·7	-12	S	2	r0r0	45	92	43	8	5	2	–	7-8	10	2500	2	3	46	37		1	0·6	1·5
Aldergrove	01·2	-22	SSE	3	r0r0	44	92	42	6	5	–	–	10	10	1000	1	*	44	35	29	–	1	5·1
Birr Castle	01·5	+2	SSW	2	bc	44	92	42	8	5	–	–	4-6	4-6	2500	1	*	47	37	34	–	1	4·6
Valentia Obsy.	01·6	+4	NE'E	2	bc	41	97	40	8	5	–	–	4-6	4-6	2500	1	2	50	41	34	0·4	10	2·3
Roches Point	02·1	+10	W'S	3	c	49	97	48	8	6	2	–	4-6	9+	1500	1	5	50	47	*	0·3	6	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 15th January $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 16th January $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	07	01763	18213	37	05664	23415	37	02754	23415	5-	01754	18214
115	37	25844	98745							51	02844	20327
203				50	02955	24425	83	25954	16425	5-	02947	16427
206	86	01864	24314	40	01861	20411	07	01890	24214	04	01790	00013
210	53	22575	20357	53	01862	20214	04	01890	18213	04	01890	13113
220	83	01854	23214	83	01754	20215	53	01851	18114	52	61645	12528
230	86	81356	24386	93	02855	00087	46	25842	24186	02	58648	14288
245	5-	02865	24115	50	01872	23102	54	01851	22104	54	01651	22114
260	14	05561	20361	50	05661	00011	03	00790	20203	52	05655	20206
278	86	01852	25412	43	01862	22315	07	02890	10317			
279	53	02853	55313	44	01751	22312	41	02761	16228	57	02765	09217
285				23	05635	28416				5-	05627	08327
288	04	05630	19215	04	05690	19313	00	05690	17116	50	05663	14123
575	84	25844	20284	53	01853	20214	57	02844	16217	5-	52648	14268
301	56	01762	26413	53	05654	20215	07	05590	14328	52	61466	12368
321												
[illegible]	40	01762	24212	57	22654	24266	50	05552	24212	50	05553	24213
292	50	01764	23314	40	05663	22213	03	08490	23126	00	47290	18140
310	--	02628	26328	--	01625	24415				--	42428	20428
614	5-	25656	22186	5-	05562	24312				52	51464	18128

III	13h. G.M.T. 15th January $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 16th January $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	83	01843	24314	83	02752	21316	87	02755	16327	62	62644	16468
334	--	02616	28217	--	25646	28387						
340	26	01764	24214				04	01690	18214	52	62663	16228
136	50	05564	23324	5-	05667	23327	00	05590	23113	5-	05676	20116
336	57	02754	24417									
350	2-	25755	26385	04	01790	21221	50	05562	17122	54	05664	17115
368	86	01753	24313	83	02653	24115	53	05664	16227	52	51654	14416
379	57	05661	26213	40	05662	24202	50	05663	20244	5-	25638	14388
390	5-	05665	27425	53	08451	24212	00	45390	22244	03	45290	20245
382	80	01861	26311	07	05690	23211	57	05683	00015	57	05657	14128
438	54	05663	24413	54	01763	24313				50	02656	20326
430	10	00861	22311	50	05652	0002	07	05590	00013	5-	05657	00068
409	36	01954	25305				50	02363	15327	57	02753	17456

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, Nh = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 16th January
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	cirbcz	bczbmw	bmw
Croydon	cmir m	bczbm	bcmcm
Greenwich	cir	cbcb	bcrcm
Camden Square	c	c	*
Kensington	crbc	bc	*
Hampstead	bcp	cr	o

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ending 7h. Max. 0·4 [illegible] -19h 15th. Min. Time 0·1 3·5h 16th.

Stations	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 % Yesterday	Humidity 9h % To-day
Kew	47	31	21	0·1	Tr	2·8	*	*
Croydon	48	35	32	0·5	0·2	2·2	*	*
Greenwich	46	33	27	0·3	0·3	1·0	69	95
Westminster	48	32	25	0·9			70	97
Regents Park	47	33	25	–	1·5		77	96
Camden Square	46	33	27	–	1·5	*	*	97
Kensington	48	33	27	Tr	1·5		79	95
Hampstead	46	35	28	Tr	0·9		*	97

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

SECRET

Sunday 17th January 1943.

No. 296.44

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Cloud. Height of Base (feet) (15)
1	London (Kew)	12.3	-10	SSW	2	z	45	92	43	6	5	-	-	9+	9+	1500
	Croydon ...	13.7	-6	SSW	3	z	47	92	44	6	5	-	-	9	10	1000
	S. Farnborough	12.4	-10	S'E	4	id	47	92	45	6	5	-	-	9+	9+	600
	Boscombe Down	11.8	-8	S	5	id	46	97	46	6	5	2	-	9+	10	600
	Thorney Island	13.3	-4	S'E	3	c/r	46	97	45	7	5	-	-	7-8	10	1500
	Lympne ...	14.6	-8	SSE	2	c/d	46	97	45	7	5	-	-	4-6	9+	500
	Manston ...	14.4	-6	SSW	3	c-bc	46	85	43	7	5	3	-	4-6	7-8	800
2	Shoeburyness ...	14.4	-4	S	3	z	47	85	43	6	5	7	-	2-3	7-8	4000
	Felixstowe ...	13.7	-4	S'W	4	z	45	92	43	6	1	7	2	1	7-8	4000
	Norleston ...	12.8	-10	SW'S	4	c/pr	43	92	40	6	8	7	-	7-8	10	1500
	Mildenhall ...	12.3	-6	S'W	4	z	47	85	42	6	1	3	2	Tr	9	3000
	Cranwell ...	10.1	-14	S	4	z	43	92	41	6	5	2	-	9+	10	300
3	Birmingham ...	09.3	-8	S	3	c	46	92	44	7	5	-	-	10	10	1500
	Upper Heyford	10.6	-14	S	3	c	46	97	45	7	6	2	-	7-8	10	700
4	Ross-on-Wye	08.9	-8	SSW	3	c	50	85	46	7	5	-	-	9+	9+	1500
5	Hartland Point	06.7	-12	SW	4	c/p	50	92	48	8	5	2	-	4-6	9+	1500
	Bristol ...	10.0	-14	S'W	4	id	50	92	47	7	6	7	-	9	9+	700
	Portland Bill ...	11.7	+12	S	4	c	49	92	47	7	5	-	-	10	10	4000
	Plymouth ...	09.5	-10	S'W	4	id	50	97	50	6	5	7	-	9	10	2000
	The Lizard ...	07.4	-16	SW	6	c	51	92	48	8	5	6	-	7-8	9+	1500
	Scilly (St. Mary's)	06.0	-10	SSW	5	c	51	92	48	7	5	-	-	9+	9+	1000
	Guernsey ...															
6	Pembroke ...	05.5	-6	S'W	6	ir	50	97	50	6	5	-	-	10	10	1500
7	Holyhead (Valley)	04.5	-8	S	5	dr	47	97	47	5	5	-	-	10	10	200
	Chester (Sealand)	06.6	-14	S	3	c	46	65	33	6	5	7	-	7-8	10	2500
8	Manchester ...	07.7	-18	SE	4	c/r	45	92	43	6	5	7	-	4-6	10	1000
10	Spurn Head ...	10.4	-4	S'E	4	ir	40	92	39	6	5	-	-	10	10	2500
	Catterick ...	07.9	-14	S'E	1	r-f	35	97	35	1	-	-	-	10	10	<150
	Tynemouth ...	07.9	-10	SW	3	ir	39	97	38	4	5	-	-	10	10	700
11	St. Abbs Head	04.9	-14	S	3	c	39	92	37	6	5	-	-	9+	9+	1200
	Leuchars ...	04.2	-12	-	0	r	40	97	40	6	5	7	-	2-3	10	5000
12	Renfrew (Abbots I.)	03.3	-10	ENE	1	r	42	97	41	4	5	2	-	9+	10	2000
	Eskdalemuir ...	03.9	-12	SSE	3	r	39	92	38	6	6	-	-	10	10	700
	Point of Ayre...	02.8	-6	W'S	3	c/r	49	97	49	7	6	2	-	7-8	10	800
13A	Tiree	01.1	+10	SSW	3	bc/pr	45	85	40	8	2	6	2	1	4-6	2500
13B	Stornoway ...	99.3	-4	SW	4	ir	45	92	43	7	5	2	-	7-8	9+	800
15	Dalwhinnie ...	02.0	-4	SSW	3	c	37	85	35	7	5	-	-	9+	9+	1500
	Aberdeen ...	04.3	-14	SSW	2	c/r	40	92	39	5	-	7	-	0	9+	-
	Wick ...	02.5	-8	SSE	3	c	40	75	34	8	-	7	-	0	9	-
16	Sumburgh ...	03.3	-6	S	3	c	45	92	42	8	4	7	6	1	9	2500
17	Blacksod Point	01.8	+2	S'E	1	c	46	92	44	8	-	1	-	0	10	-
18	Main Head ...	01.0	+2	S'W	1	c	45	92	43	8	5	-	-	9+	9+	2500
	Aldergrove ...	02.4	+2	W	2	c	44	92	42	7	2	2	-	Tr	10	2500
19	Birr Castle ...	02.4	-6	SE	1	c	44	97	44	7	5	1	-	2-3	10	2500
20	Valentia Obsy.	01.5	-10	-	0	c	47	92	45	8	1	1	-	Tr	10	2500
	Roches Point	02.2	-6	E	1	c	49	92	47	8	5	-	-	9+	9+	1500

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

District	Stations.	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Cloud. Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	12.3	+4	S'W	3	z	45	92	43	6	5	-	-	9+	9+	1500	1	*
	Croydon ...	13.1	+2	S'W	3	z	46	92	44	6	5	-	-	7-8	10	800	1	*
	S. Farnborough	12.0	+2	S	3	z	46	92	44	6	5	-	-	9+	9+	1200	1	*
	Boscombe Down	11.6	+2	S	4	z	45	97	44	6	5	-	-	9	10	900	1	*
	Thorney Island	12.1	-6	S'E	3	bc	45	92	44	7	-	3	-	0	4-6	-	1	*
	Lympne ...	14.3	+2	S'W	2	ir	44	97	43	7	5	-	-	7-8	7-8	2000	1	§
	Manston ...	14.2	+2	SSW	3	c	44	92	43	7	5	-	-	9+	9+	1000	1	*
2	Shoeburyness ...	14.0	-2	SSW	3	z	44	92	42	6	5	-	-	9+	9+	2500	1	*
	Felixstowe ...	13.5	+2	S'E	4	z	42	92	40	6	5	-	-	9	9	4000	1	3
	Norleston ...	13.1	0	SSW	4	z	42	92	39	6	-	7	-	0	2-3	-	1	
	Mildenhall ...	11.5	-4	S	3	z	46	85	43	6	5	-	-	10	10	1800	1	*
	Cranwell ...	09.2	0	S'E	5	z	45	97	44	6	5	-	-	4-6	10	700	1	*
3	Birmingham ...	08.6	0	S	3	z	47	97	47	6	6	-	-	10	10	800	1	*
	Upper Heyford	10.3	+2	S'E	3	z	46	97	44	5	5	2	-	9	10	800	1	*
4	Ross-on-Wye	08.6	0	SSW	4	c	48	85	44	6	5	3	4	Tr	9	2500	1	*
5	Hartland Point	06.3	0	SSE	3	c	48	85	44	7	1	4	8	2-3	9	2000	1	4
	Bristol ...	09.7	-2	SSW	2	c-bc	48	97	45	7	5	3	-	4-6	7-8	2500	1	*
	Portland Bill ...	11.1	+6	S	4	c	47	92	45	8	5	-	-	10	10	4000	1	4
	Plymouth ...	08.6	-10	SSE	4	c	49	92	46	6	5	7	-	1	4-6	1500	1	3
	The Lizard ...	05.6	-10	S'E	6	c-bc	50	85	44	8	8	6	-	7-8	7-8	1500	1	4
	Scilly (St. Mary's)	03.1	-20	S'E	5	c	50	85	46	7	8	7	-	2-3	10	1200	1	5
	Guernsey ...																	
6	Pembroke ...	05.0	0	S'E	5	c	49	92	48	7	8	-	-	10	10	1500	1	3
7	Holyhead (Valley)	03.9	-2	S	5	c/d	48	97	48	6	5	2	-	9	10	500	1	3
	Chester (Sealand)	05.9	-2	S	2	c	49	85	44	7	5	7	-	9+	10	2600	1	*
8	Manchester ...	06.7	0	SE	4	z	48	85	45	6	5	7	-	7-8	10	2200	1	*
10	Spurn Head ...	09.3	-2	S'E	4	z	43	97	41	5	5	7	-	7-8	10	2500	1	3
	Catterick ...	06.4	-6	S	3	df	41	97	41	1	-	-	-	10	10	<150	1	*
	Tynemouth ...	05.8	0	S	4	rr	42	97	40	4	-	2	-	10	10	800	1	3
11	St. Abbs Head	03.8	0	S	3	c	41	92	39	5	5	-	-	9+	9+	1500	1	3
	Leuchars ...	03.3	-2	-	0	z	40	92	39	5	5	-	-	10	10	5000	1	*
12	Renfrew (Abbots I.)	03.2	+4	NE'E	1	cf	42	97	41	3	5	2	-	4-6	10	2000	1	*
	Eskdalemuir ...	03.4	0	-	0	f+	41	97	41	1	-	-	-	10	10	<150	1	*
	Point of Ayre...	02.3	-4	S'W	2	r	47	97	47	6	6	2	-	10	10	3000	1	3
13A	Tiree	01.3	+2	S	1	c	45	92	42	7	5	1	-	1	10	3000	1	3
13B	Stornoway ...	01.8	+22	-	0	c-bc	39	97	38	8	2	-	6	Tr	7-8	2800	1	-1
15	Dalwhinnie ...	02.4	+2	S	2	o	37	92	35	6	5	-	-	10	10	1500	1	*
	Aberdeen ...	03.9	+2	SW'S	2	cf+	40	92	40	2	5	7	-	9+	10	800	1	1
	Wick ...	02.6	+4	SW	3	bc	41	75	34	8	-	3	-	0	4-6	-	1	*
16	Sumburgh ...	03.2	-6	S'E	4	c	44	92	43	8	5	7	-	7-8	10	2000	1	2
17	Blacksod Point	99.1	-14	-	0	c	45	85	41	8	-	1	-	0	10	-	1	2
18	Main Head ...	00.5	-6	S'W	1	c	41	92	39	8	5	1	-	7-8	10	1500	2	2
	Aldergrove ...	02.0	-4	-	0	z	40	97	39	6	-	1	-	0	10	-	1	*
19	Birr Castle ...	00.0	-18	SSE	2	ir	45	92	43	7	5	-	-	10	10	1500	1	*
20	Valentia Obsy.	96.2	-34	E	3	ir	46	92	44	7	5	2	-	4-6	10	2500	1	1
	Roches Point	99.1	-18	S	5	rr	49	97	49	6	6	2	-	4-6	10	800	1	4

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 16th. (39)	Weather. 13h.—18h. 16th. (40)	Weather. 18h. 16th to 1h. 17th. (41)	Weather. 1h.—7h. 17th. (42)
1	London (Kew)	r.rfcm.	cir.cm.	cm.c	c
	Croydon ...	dcm.	cm.id.cm.	cm.c	c
	S. Farnborough	cd.mfid.ir.id.cid.irm.	c	c,cm.	
	Boscombe Down	cbcid.cmbm.	ed.d.ccm.	cm.c	ccir.
	Thorney Island	cm.ccir.m.	cbc	bcc	bcb,co
	Lympne ...	cmoid.c	cid.c	circm.	c
	Manston ...	bcm.c	c	cbcm.cm.	cm.
2	Shoeburyness ...	cm.	bcm.cm.	cm.	bcm.bcm.
	Felixstowe ...	cir.m.cm.	bcm.bccm.	bm.cm.	cm.bcm.
	Norleston ...	cpr.	bcc	cbcq	
	Mildenhall ...	cir.m.cm.	cm.	cm.bcc	cm.c
	Cranwell ...	cm.ir.cm.	cm.	cm.	cm.cir.m.
3	Birmingham ...	oc	co	oir.c	cir.c
	Upper Heyford	rmidc	id.ccm.	cm.	cm
4	Ross-on-Wye	cd.c	ccd.c	c	cir.
5	Hartland Point	bcirc	cir	cr.r.c	r.r.c
	Bristol ...	ccd.	xid.cidc	cbcc	cr.r.m.
	Portland Bill ...	c	c	c	o
	Plymouth ...	cid.m.	cid.bcc	cr.r.m.rr	cr.r.rrm.
	The Lizard ...	c	cbcc	corrc	corr
	Scilly (St. Mary's)	cidc	c	crr	crr.r.r.
	Guernsey ...				
6	Pembroke ...	cir.	cm.	crrq	crrq
7	Holyhead (Valley)	orrd.d.m.	od.d.m.	cm.	or.r.m.
	Chester (Sealand)	r.r.m.c	cm.ir.	cm.z.	cir.r.m.
8	Manchester ...	r.r.m	r.m.	cm.	cr.r.
10	Spurn Head ...	om.ir.	cm	cm.	om.
	Catterick ...	oFir.orr	or.r.F	d.r.Fmcm.	cmirr.r.m
	Tynemouth ...	bccmoir.	omrr	orrir.m	omoir.
11	St. Abbs Head	bcirm.	cm.ir.o	odcm	cr.oiR
	Leuchars ...	bcxcr.m.	cr.r.m.cir.m.	cmcr.r.m	cr.r.mcrr.
12	Renfrew (Abbots I.)	cm.r.r.	cm.r.r.cmf	fr.m	cm.r.r.
	Eskdalemuir ...	cr.r.	cr.fF	fRR	orrm.
	Point of Ayre...	r.r.c	cr.r.	crrc	crr
13A	Tiree	prrcprbc	bcc	cir.	rrr.r.m.
13B	Stornoway ...	ccr.r.ir.	cir.bc	c	cr.r.
15	Dalwhinnie ...	bcir.c	cir.o		ocir.o
	Aberdeen ...		cm.r.ff	cffm.	cr.r.
	Wick ...	bcc	cbc	cbc	cr.r.
16	Sumburgh ...	cpr.bcc	c	cir.cbc	cid.c
17	Blacksod Point	c	c	r	bc
18	Main Head ...	r	c	r	r
	Aldergrove ...	c	ccmz	cr.r.rm.	crr.r.m.
19	Birr Castle ...	c	r		r
20	Valentia Obsy.	bc	r	r	bc
	Roches Point	r	r	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. SUNDAY 17th JANUARY 1943.

Districts.	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate southerly winds, fresh at times, cloudy, some rain tonight; rather cold in the East, less cold toward the West.
4 W. Midlands 5 S.W. England 6 South Wales	Winds mainly southerly, fresh to strong at times on the coast, dull, rain at times; brighter intervals tomorrow; rather mild.
7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Wind southerly fresh veering southwest, backing south again; rain early with a short fair period, further rain later; changeable temperature.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland	Moderate to fresh southerly winds, strong locally on the coast; showers and bright periods today, dull, rain at times later; changeable temperature.
15 N.E. Scotland	Strong southerly winds; dull, rain at times; rather cold.
16 Orkneys and Shetlands	As 15.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Light to moderate southwest winds becoming very variable; bright periods generally at first, becoming overcast with rain spreading up from the South; rather cold becoming somewhat ~~milder~~.

GENERAL INFERENCE

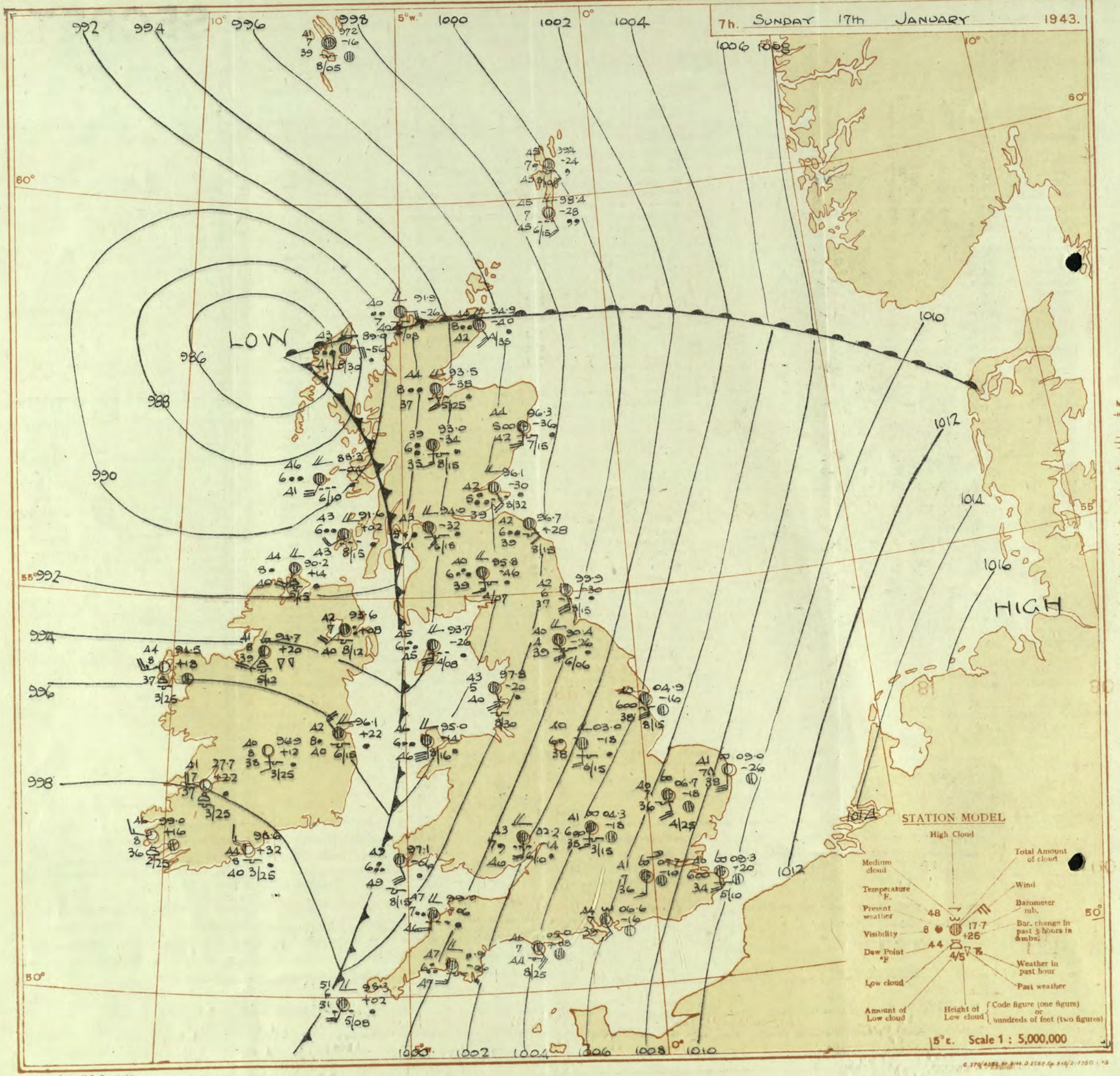
A rather deep depression over the Hebrides will move away toward Iceland and another depression is expected to move northnortheast from off Northwest Spain. There will be rain at times in many districts but in the South and Southeast of England the falls are expected to be mainly small and to occur during tonight. Temperature conditions will be changeable.

FURTHER OUTLOOK

Continuing unsettled generally.

Forecasts issued at 1030

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

Page 4.

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

BRITISH SECTION

Sunday 17th January 1943. No. 29641

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	42	*	*	*	*	*	*	*	*	*
	Croydon	290	11·4	-10	S'E	3	c	42	85	39	7	5	–	6	9	9+	1100
	S. Farnborough	226	09·6	-16	SSE	4	c	42	92	40	7	5	7	–	9	10	1200
	Boscombe Down	417	08·6	-14	SE'S	5	c	41	92	40	7	5	3	7	1	10	1500
	Thorney Island	10	10·3	-14	SE	5	c-bc	45	85	39	8	5	3	2	Tr	7-8	1500
	Lympne	283	12·6	-18	SE'S	4	c	40	92	36	7	5	3	–	9	9+	500
	Manston	154	13·0	-10	S'W	3	c	39	92	37	7	5	7	–	2-3	9+	1000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	12·5	-8	S'W	5	z_0	40	92	38	6	5	1	–	7-8	9	1200
	Gorleston	5	12·2	-8	SSW	5	c	42	92	39	7	5	–	–	9+	9+	1500
	Mildenhall	15	10·1	-12	SSE	4	c	42	85	39	7	5	1	–	2-3	10	2500
	Cranwell	203	08·0	-14	S	5	z_0	42	92	40	6	5	7	–	4-6	10	2000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	08·3	-12	SE'S	3	z_0	42	92	39	6	5	7	–	1	10	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	00·8	-24	SSE	5	r_0r_0	44	97	43	7	5	2	–	7-8	10	1500
	Bristol	209	06·7	-22	SSE	4	c	44	85	39	7	5	7	–	1	9+	2500
	Portland Bill	32	07·7	-12	ESE	5	c-bc	45	92	43	8	5	7	–	4-6	7-8	4000
	Plymouth	82	04·3	-8	SE	6	r_0r_0	45	97	45	6	5	2	–	7-8	10	1500
	The Lizard	240	00·7	-50	S	7	c/r	49	92	49	7	5	2	–	9	10	1000
	Scilly (St. Mary's)	163	99·6	-10	S'W	6	rr	50	97	50	6	6	2	–	7-8	10	1000
	Guernsey	175															
6	Pembroke	142	99·7	-10	SSE	7	rr	46	97	45	7	5	2	–	4-6	10	1500
7	Holyhead (Valley)	32	00·8	-20	S'E	7	ir_0	47	75	40	6	5	1	–	2-3	9+	2500
	Chester (Sealand)	16	03·0	-24	SSE	4	c	46	75	39	7	5	7	–	4-6	10	2000
8	Manchester	235	04·7	-16	SE	4	c	45	85	40	7	5	2	–	1	10	2500
10	Spurn Head	29	08·4	-6	S	4	z_0	42	92	40	6	5	1	–	7-8	10	2500
	Catterick	175	05·1	-8	S'E	4	z_0	45	92	42	5	5	1	–	1	10	1500
	Tynemouth	108	04·9	-6	SSW	5	m	46	92	43	4	5	–	–	10	10	1500
11	St. Abbs Head	280	02·3	-18	SSW	3	c	42	97	41	6	5	–	–	10	10	1500
	Leuchars	36	01·5	-16	–	0	r_0r_0	38	97	38	4	5	–	–	10	10	1500
12	Renfrew (Abbots I.)	19	00·5	-20	SSE	3	r_0r_0	46	85	42	4	5	2	–	7-8	10	1500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	00·2	-12	S'W	5	•	47	92	45	7	6	2	–	2-3	10	1000
13A	Tiree	44	95·8	-8	SSE	4	ir_0	44	92	43	7	5	2	–	4-6	10	2000
13B	Stornoway	15	99·0	-26	ESE	4	c	42	92	41	7	–	1	–	0	10	–
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	02·0	-14	–	0	b-bcf	35	97	35	3	–	7	–	0	2-3	–
	Wick	114	01·8	-10	–	0	bc	40	92	38	9	–	–	6	0	4-6	–
16	Sumburgh	19	02·8	-4	S	3	b-bc	43	97	42	8	–	4	2	0	2-3	–
17	Blacksod Point	18	91·5	-46	WSW	5	r_0r_0	42	97	41	7	6	2	–	4-6	10	1500
18	Malin Head	84	91·8	-50	SE	3	rr	46	92	44	8	–	2	–	7-8	10	1500
	Aldergrove	268	95·7	-26	SSE	4	rr	47	92	44	5	6	2	–	9	10	1500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	95·9	+18	NW	4	bc/r	45	85	41	8	1	3	–	2-3	4-6	2500
	Roches Point	22	93·6	-14	S'E	5	rr	43	97	48	6	6	2	•	4-6	10	800

OBSERVATIONS at 7 hr. G.M.T. 17th January — PAST 24 HOURS

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 16th Hrs. (38)
1	London (Kew)	06·1	-2	SSE	4	c	41	85	36	7	5	–	–	9+	9+	2500	1	*	46	41	38	1	–	0·0
	Croydon	07·7	-10	S'E	3	c	41	85	36	7	–	7	2	0	9+	–	1	*	47	40	38	0·5	–	0·0
	S. Farnborough	05·4	-18	SE'S	4	c	42	88	38	6	–	7	8	0	10	–	1	*	47	40	38	0·3	0·1	0·0
	Boscombe Down	05·8	-8	SE	3	ir_0	41	92	38	7	5	7	–	4-6	9+	2000	1	*	47	40	38	0·5	–	0·0
	Thorney Island	06·6	-16	SE'S	3	c-bc	44	85	39	7	–	3	–	0	7-8	–	1	*	47	42	38	0·1	–	*
	Lympne	09·2	-14	SE	4	c	39	85	35	7	5	–	–	9	9+	3500	1	§5	47	39	36	0·1	0·1	0·3
	Manston	09·3	-20	S'E	4	z_0	40	85	34	6	5	7	–	7-8	9	1000	1	*	47	39	36	–	–	0·7
2	Shoeburyness	09·3	-10	SSW	5	z_0	40	85	36	6	5	–	–	7-8	7-8	2500	1	*	48	40	35	–	–	1·1
	Felixstowe	08·7	-16	SSE	5	z_0	40	88	35	6	5	1	–	4-6	4-6	1500	1	4	48	39	36	0·2	–	2[illegible]
	Gorleston	09·0	-26	S'E	6	bcq	41	85	38	7	–	7	–	0	4-6	–	1	5	46	40	38	Tr	–	0[illegible]
	Mildenhall	06·7	-18	SSE	5	c	40	85	36	7	5	7	–	4-6	9	2500	1	*	48	39	35	0·5	–	0·5
	Cranwell	04·9	-14	SSE	5	ir_0	39	92	38	6	5	–	–	10	10	4600	1	*	46	38	33	–	Tr	0·1
3	Birmingham	03·2	-10	S	3	ir_0	42	85	38	7	6	7	–	4-6	4-6	1500	1	*	47	40	38	–	1	*
	Upper Heyford	04·3	-18	S'E	3	z_0	41	92	38	6	5	7	–	2-3	10	1500	1	*	47	41	39	0·2	–	*
4	Ross-on-Wye	02·2	-14	S'E	4	id_0	43	85	40	7	6	2	–	9	10	1000	1	*	51	42	40	Tr	1	0·2
5	Hartland Point	99·0	-6	S	4	r_0r_0	47	97	46	7	6	2	–	4-6	10	1500	1	4	51	43	42	0·3	2	6·2
	Bristol	03·0	-10	SSW	4	ir_0	44	85	41	6	5	2	–	2-3	9	1500	1	*	50	44	41	–	0·1	0·0
	Portland Bill	06·0	+8	SE	5	o	46	92	44	7	5	–	–	10	10	2500	1	4	49	43	*	0·1	–	*
	Plymouth	01·9	-6	S'W	5	rr	47	97	47	6	5	2	–	7-8	10	1500	1	4	51	45	43	1	9	0·0
	The Lizard	99·4	-8	SSW	5	rr	50	97	50	6	5	–	–	10	10	1000	1	5	52	46	*	–	7	1·2
	Scilly (St. Mary's)	98·3	+2	SSW	4	r_0r_0	51	97	51	6	6	2	–	7-8	10	800	1	5	52	49	*	0·1	9	1·1
	Guernsey																							
6	Pembroke	97·1	-6	SSE	6	rr	49	97	49	6	5	–	–	10	10	1500	1	5	50	43	*	3	9	0·0
7	Holyhead (Valley)	95·0	-14	S	8	r_0r_0	46	97	46	6	–	2	–	10	10	1600	1	5	49	44	43	7	3	*
	Chester (Sealand)	99·3	-12	SSE	3	ir_0	44	85	39	6	5	7	–	9	9+	1600	1	*	49	43	39	0·1	0·1	0·1
8	Manchester	00·6	-18	SE'E	5	ir_0	43	85	39	6	5	2	–	4-6	10	1500	1	*	48	42	40	3	0·5	*
10	Spurn Head	04·9	-16	SSE	6	z_0	40	92	38	6	5	–	–	10	10	1500	0	4	43	39	*	0·2	–	0·0
	Catterick	00·4	-26	SSE	4	r_0r_0	40	92	39	4	5	2	–	9	10	600	1	*	42	40	39	4	2	0·0
	Tynemouth	99·9	-30	SSE	6	ir_0	42	85	37	6	6	–	–	10	10	1500	1	4	42	42	39	4	1	*
11	St. Abbs Head	96·7	+28	SE	4	r_0r_0	42	92	39	6	5	–	–	10	10	1500	1	3	41	39	*	0·1	0·4	*
	Leuchars	96·1	-30	SE	3	rr	42	85	39	5	6	2	–	10	10	3200	1	*	41	36	36	1	5	0·0
12	Renfrew (Abbots I.)	94·0	-32	SSE	3	r_0r_0	43	92	41	5	5	2	–	9	10	1800	2	*	44	41	40	2	11	0·0
	Eskdalemuir	95·8	-46	S'E	3	rr	40	92	39	6	5	2	–	4-6	10	700	1	*	42	39	39	6	13	0·0
	Point of Ayre	93·7	-26	S	6	rr	45	97	45	6	6	2	–	4-6	10	800	1	4	49	43	*	3	7	0·0
13A	Tiree	88·3	-4	SSW	6	r_0r_0	46	85	41	6	6	2	–	9	10	1000	1	5	46	44	39	3	6	0·6
13B	Stornoway	89·0	-56	E	6	r_0r_0	43	92	41	6	–	2	–	10	10	3000	1	4	46	35	*	1	2	
15	Dalwhinnie	93·0	-34	S	3	ir	39	85	35	6	5	–	–	10	10	1500	1	*	38	33	30	2	6	0·0
	Aberdeen †	96·3	-36	S	5	z_0	44	92	42	5	5	–	–	9+	9+	1500	1	3	42	35	30	0·1	0·5	0·0
	Wick	94·9	-40	SSE	5	r_0r_0	44	92	42	8	5	2	–	4-6	10	3500	1	*	43	36	29	Tr	2	*
16	Sumburgh	98·4	-28	SE	4	c/d	45	97	45	7	6	2	–	9	10	1500	1	3	45	43	38	0·3	0·2	1·6
17	Blacksod Point	94·5	+18	W'S	5	b-bc	44	75	37	8	8	–	–	2-3	2-3	2500	2	4	47	42	*	–	6	*
18	Malin Head	90·2	+14	SSW	5	ir_0	44	85	40	8	8	2	–	7-8	10	1500	2	3	45	41		0·1	4	0·1
	Aldergrove	93·6	+8	SW	4	o/r	42	92	40	7	5	–	–	10	10	1200	1	*	45	39	36	1	8	0·0
19	Birr Castle	96·9	+12	SSE	2	b-bc	40	92	38	8	5	–	–	2-3	2-3	2500	1	*	45	39	36	0·2	13	0·0
20	Valentia Obsy.	99·0	+16	WNW	3	b	46	65	36	8	2	–	–	1	1	2500	1	4	48	44	37	2	23	0·0
	Roches Point	98·6	+32	NW	3	b-bc	44	85	40	8	5	–	–	2-3	2-3	2500	1	5	50	43	*	6	9	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III $C_L C_M$ (13h. G.M.T. 16th Jan.)	wwVhN$_h$	DDFWN	$C_L C_M$ (18h. G.M.T.)	wwVhN$_h$	DDFWN	$C_L C_M$ (01h. G.M.T. 17th Jan.)	wwVhN$_h$	DDFWN	$C_L C_M$ (07h. G.M.T.)	wwVhN$_h$	DDFWN
109 57	01752	14314	57	02755	18465	00	00790	16410	5-	62648	45568
115						51	02962	12227	52	62736	08468
203			8-	02846	16426	0'	0890	08428	5-	02848	08468
206 07	22690	00067	00	05590	00017	00	05690	00028	62	62855	14468
210 52	62873	14157	07	02890	18116	57	05652	14228	52	61656	08368
220 50	01854	19284	00	00790	14203				62	22645	17568
230 82	22955	18167	11	02852	00068	02	62690	14268	62	62747	14368
245 52	62765	16268	52	45335	00068	02	61438	00068	62	61636	14468
260 02	22756	04168	52	08465	00028	52	22663	32268	52	22666	45368
278 5-	02757	23267	51	08442	15228	52	66644	47468	02	64643	45568
279 5-	22758	17368	52	21745	18258	52	02763	12668	02	64658	14468
285 6-	63628	12268	6-	63628	20368						
288 02	61568	15268	02	52590	14358	5-	05545	49558	62	62555	47668
576 01	09790	00028	01	45390	00028	5-	64638	45468	87	25845	53483
301 52	64447	47468	51	61447	47468	51	05655	47428	5-	61568	47568
321											
2.9 5-	22548	24368	5-	05548	16328	5-	05648	20428			
292 02	57358	14268	62	62446	16368	51	05542	17268	62	62634	17368
310									--	63862	62645
614 52	61547	16268	3-	05544	17328	52	05544	15428	57	22544	14468

III $C_L C_M$ (13h. G.M.T. 16th Jan.)	wwVhN$_h$	DDFWN	$C_L C_M$ (18h. G.M.T.)	wwVhN$_h$	DDFWN	$C_L C_M$ (01h. G.M.T. 17th Jan.)	wwVhN$_h$	DDFWN	$C_L C_M$ (07h. G.M.T.)	wwVhN$_h$	DDFWN
333 62	54625	18568	52	21635	51458	52	61643	48568	02	62658	49667
334 --	25647	28288	--	63647	26388						
340 57	05654	14328	52	05646	*	52	05654	49428	5-	05648	16368
136 57	22534	16466	5-	05847	18327	01	05690	17328	57	05663	15427
336 62	62526	20368	52	22656	20568						
350 53	05635	17327	5-	05638	16228	51	05645	14428	57	05664	47528
368 57	61745	16268	53	02744	16226	5-	61748	39528	62	62645	32468
379			5-	05625	51458	53	05645	49527			
390 5-	41546	16147	52	45346	16358	5-	08547	14327	5-	05657	14327
382 5-	05637	18467	52	05646	16423	57	02744	48528	52	05643	14328
438 87	25744	20487	57	01754	20417				57	02745	14517
430 5-	22635	18368	07	05690	16325	57	02743	31427			
409 57	02746	17567	54	02842	16527	52	62646	47768	6-	62626	16668

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 17th January
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	fotfcm₀	cir₀cm₀	cm₀cc
Croydon	dcm₀	cm₀id₀cm₀	cm₀cc
Greenwich	cr₀c	c	c
Camden Square	o	c	*
Kensington	oc	oco	*
Hampstead			

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended [illegible]h. Max. [illegible] 0·3 7-8hrs 16th. Min. Time 0·1 0-7hrs 17th.

Stations	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 % Yesterday	Humidity 9h % To-day
Kew	46	41	38	1	–	0·0	*	*
Croydon	47	40	38	0·5	–	0·0	*	*
Greenwich	47	39	34	Tr	–	0·0	*	86
Westminster	48	39	37	–	–	*	85	83
Regents Park								
Camden Square	47	41	37	–	–	*	*	83
Kensington	49	41	37	Tr	–	*	89	75
Hampstead							*	

SECRET

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BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Monday 18th January 1943.

No. 29642

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	05·3	-6	SSE	3	z	45	75	38	5	5	7	8	4-6	9+	4000
	Croydon ...	06·1	-10	SSE	3	z	45	75	38	6	5	7	-	2-3	10	5000
	S. Farnborough	05·1	-4	S'E	4	c	46	85	40	7	-	7	-	0	9+	-
	Boscombe Down	04·9	-6	SE'S	4	c	45	85	40	7	5	7	-	2-3	9+	2500
	Thorney Island	06·1	-8	SSE	2	c	46	85	42	7	-	7	8	0	10	-
	Lympne ...	07·4	-12	SE	3	c-bc	42	75	36	8	-	7	2	0	7-8	-
	Manston ...	07·3	-14	S'W	4	c-bc	41	85	36	7	5	7	6	1	7-8	5700
2	Shoeburyness ...	08·4	-6	SSE	3	c	42	85	37	8	5	7	-	1	9	2500
	Felixstowe ...	07·4	-6	S'E	4	z	41	85	38	6	-	7	6	0	9	-
	Gorleston ...	07·2	-14	S'W	5	c-bc	41	85	36	7	5	7	2	2-3	7-8	2000
	Mildenhall ...	05·4	-10	SSE	4	c	43	75	35	7	-	9	8	0	9+	-
	Cranwell ...	03·5	-10	S	4	z	43	85	37	6	5	9	-	4-6	10	4500
3	Birmingham ...	03·3	0	S	3	c	43	97	42	3	6	7	-	2-3	10	800
	Upper Heyford	03·8	-6	S'E	3	z	43	85	39	6	5	7	-	9	10	4000
4	Ross-on-Wye	02·7	0	S	3	c	46	85	42	6	5	1	-	9	10	1000
5	Hartland Point	02·3	+18	NNW	3	r r	46	97	46	5	5	-	-	10	10	500
	Bristol ...	03·3	-4	S'E	4	ir	46	85	43	7	5	7	-	2-3	10	1500
	Portland Bill ...	04·3	-14	S	4	ir	47	92	45	7	5	-	-	10	10	2500
	Plymouth ...	02·4	-2	SE'S	2	r r	50	97	50	6	5	7	-	4-6	9+	1000
	The Lizard ...	01·4	+6	S	4	c	51	97	51	7	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	01·2	+6	NE'N	4	d d	47	97	47	6	5	-	-	10	10	500
	Guernsey ...															
6	Pembroke ...	02·4	+8	N'W	2	c	46	85	42	8	8	6	-	7-8	9+	2000
7	Holyhead (Valley)	02·1	+24	W	2	b-bc	48	75	42	8	2	7	1	Tr	2-3	3000
	Chester (Sealand)	01·5	+22	NW	1	c/r	44	85	40	7	5	2	-	9	10	1500
8	Manchester ...	01·9	+12	S	3	rr	44	97	43	4	9	-	-	10	10	1500
10	Spurn Head ...	03·0	-14	S'E	6	c	40	92	38	7	5	2	-	4-6	10	2500
	Catterick ...	00·3	+6	S	3	rf	42	92	41	3	6	2	-	9	10	800
	Tynemouth ...	99·3	+6	SSW	5	rr	42	92	39	6	-	2	-	10	10	1200
11	St. Abbs Head	95·8	+10	SW	4	c	43	75	36	7	3	4	-	7-8	9+	2500
	Leuchars ...	94·0	+2	SW	4	bc/r	43	92	40	6	8	3	-	1	4-6	3500
12	Renfrew (Abbots I.)	96·4	+22	SW'W	3	bc	46	65	36	8	8	-	-	4-6	4-6	3000
	Eskdalemuir ...	97·6	+30	SW	4	c-bc	42	92	39	7	8	-	-	7-8	7-8	1800
	Point of Ayre...	99·7	+30	W	4	b	48	75	41	8	2	-	4	Tr	Tr	3000
13A	Tiree	92·2	+16	SW'W	6	c-bc/p	45	75	36	8	3	6	3	4-6	7-8	2200
13B	Stornoway ...	85·8	-10	SSW	8	b-bc/pr	43	92	41	8	3	-	-	2-3	2-3	1800
15	Dalwhinnie ...	92·0	+2	SSW	3	prs	36	85	32	7	5	-	-	7-8	7-8	2500
	Aberdeen ...	92·6	-20	S'W	4	rr	43	97	42	6	5	2	-	7-8	10	900
	Wick ...	91·1	-16	S'E	5	r r	43	97	42	8	5	2	-	9+	9+	1400
16	Sumburgh	93·1	-30	SE'S	6	r r	44	92	42	6	5	2	-	9+	10	1200
17	Blacksod Point	99·3	+18	WSW	4	b-bc	48	55	33	8	2	-	-	2-3	2-3	2500
18	Main Head ...	95·3	+22	SW	5	bc/pr	45	65	34	8	2	-	1	4-6	4-6	1500
	Aldergrove ...	98·6	+14	SW	4	b	44	75	37	8	2	-	-	Tr	Tr	2500
19	Birr Castle ...	01·4	+14	S	2	b-bc	47	75	40	8	5	-	-	2-3	2-3	2500
20	Valentia Obsy.	02·7	+10	W'S	2	b	49	75	42	9	1	-	-	1	1	4000
	Roches Point	03·2	+18	SSW	2	bc	46	85	42	8	-	-	5	0	4-6	-

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

District	Stations.	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	06·6	-10	SE	1	z	43	85	38	5	5	-	-	9+	9+	2500	1	*
	Croydon ...	05·9	+10	E'S	1	z	43	85	39	5	5	7	-	7-8	10	6000	1	*
	S. Farnborough	06·1	+8	SSE	3	ir	43	85	40	6	5	7	-	4-6	10	5000	1	*
	Boscombe Down	06·2	+10	SE'E	2	z	42	85	39	6	-	7	8	0	10	-	1	*
	Thorney Island	06·1	+4	ESE	1	c	43	92	42	7	-	4	8	0	9+	-	1	*
	Lympne ...	07·8	+8	SE'S	3	c	41	85	37	7	-	7	1	0	9+	-	1	§ 3
	Manston ...	07·3	-2	S	4	c	42	75	35	7	-	7	-	0	9+	-	1	*
2	Shoeburyness ...	08·6	+4	SSE	3	c	42	85	37	6	5	7	-	4-6	9	2500	1	*
	Felixstowe ...	07·2	+2	SSE	3	z	40	85	36	6	-	7	-	0	9+	-	0	3
	Gorleston ...	07·3	+6	S'W	4	c-bc	41	85	36	7	-	7	-	0	7-8	-	0	4
	Mildenhall ...	06·6	+12	S'E	1	z	41	85	38	6	5	7	-	4-6	4-6	3000	1	*
	Cranwell ...	05·9	+14	S	2	z	43	92	41	6	-	1	-	0	10	-	1	*
3	Birmingham ...	05·5	+12	SW	1	m	43	97	42	4	6	-	-	10	10	800	1	*
	Upper Heyford	05·4	+12	S'W	2	z	44	85	39	6	5	7	-	7-8	10	1600	1	*
4	Ross-on-Wye	05·2	+12	SW	2	z	45	92	43	6	5	-	-	10	10	800	1	*
5	Hartland Point	04·2	+14	NNE	3	c	45	97	44	8	5	2	-	4-6	9+	1500	1	3
	Bristol ...	05·4	+18	-	0	d d	45	97	44	6	5	-	-	10	10	800	1	*
	Portland Bill ...	04·8	+4	S	4	c	46	92	44	8	5	-	-	10	10	4000	1	4
	Plymouth ...	04·2	+14	-	0	id	47	97	47	5	5	-	-	10	10	1000	1	2
	The Lizard ...	03·1	+8	SE	2	c	50	92	48	7	5	-	-	10	10	1000	1	4
	Scilly (St. Mary's)	02·5	+10	NE'E	4	c	47	97	47	7	5	-	-	10	10	1000	1	4
	Guernsey ...																	
6	Pembroke ...	05·1	+8	NNE	2	c-bc	44	85	41	8	8	-	-	7-8	7-8	2500	1	1
7	Holyhead (Valley)	05·5	+24	SW	1	bc	39	97	38	8	1	7	2	Tr	4-6	3500	1	1
	Chester (Sealand)	05·1	+22	-	0	c	39	92	36	7	-	4	2	0	9	-	1	*
8	Manchester ...	05·6	+22	SE'S	2	m	40	97	39	4	-	3	1	0	7-8	-	1	*
10	Spurn Head ...	05·7	+16	S'W	3	z	41	85	37	6	5	2	-	7-8	10	2500	1	4
	Catterick ...	04·8	+18	SW	1	bc	41	85	36	8	5	-	8	1	4-6	2000	1	*
	Tynemouth ...	03·7	+24	SSW	2	b-bc	42	75	36	6	2	-	-	2-3	2-3	2500	1	2
11	St. Abbs Head	00·1	+28	SW	3	b	40	85	36	7	5	-	-	Tr	Tr	4000	0	3
	Leuchars ...	98·3	+22	SSW	3	b	40	85	35	8	5	-	-	Tr	Tr	3000	1	*
12	Renfrew (Abbots I.)	01·0	+30	SW	4	b-bc	41	75	35	8	5	-	-	2-3	2-3	2500	2	*
	Eskdalemuir ...	02·1	+34	SW	4	b	38	85	33	8	2	6	-	Tr	Tr	3000	1	*
	Point of Ayre...	03·3	+8	W	3	b	39	92	37	8	4	-	-	Tr	Tr	2000	4	2
13A	Tiree	95·5	+30	W'S	6	pr	44	85	39	8	3	6	-	4-6	9	1500	1	6
13B	Stornoway ...	84·6	+6	WSW	7	pr	42	97	42	7	9	-	-	10	10	1100	1	6
15	Dalwhinnie ...	95·8	+12	SSW	3	prs	37	85	33	7	5	-	-	9+	9+	1500	1	*
	Aberdeen ...	95·8	+18	SSW	4	b-bc	41	75	35	8	5	-	-	2-3	2-3	4000	1	3
	Wick ...	89·7	-12	E	5	c-bc	42	75	34	9	5	7	-	4-6	7-8	3000	1	*
16	Sumburgh	90·4	-6	SSW	4	c	43	92	40	8	2	-	-	9	9	2000	1	4
17	Blacksod Point	02·8	+16	WSW	2	c-bc	44	75	37	8	8	3	-	4-6	7-8	4000	1	2
18	Main Head ...	99·8	+26	SW'S	3	bc	43	75	36	8	2	-	-	4-6	4-6	2500	2	4
	Aldergrove ...	03·1	+24	S'W	1	b	39	85	35	8	5	-	-	Tr	Tr	2500	1	*
19	Birr Castle ...	03·6	+12	SSW	1	b	38	92	36	8	-	-	-	0	0	-	1	*
20	Valentia Obsy.	04·6	+14	ENE	1	b	39	92	37	8	1	7	-	Tr	1	4000	1	1
	Roches Point	04·9	+14	E	1	b	43	85	39	8	5	-	-	1	1	2500	1	4

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 17th. (39)	13h.—18h. 17th. (40)	18h. 17th to 1h. 18th (41)	1h.—7h. 18th (42)
1	London (Kew)	c z	c z c m	c m c m	c f f e
	Croydon ...	c c m, z	c m	c f b c m	b c m b c f x
	S. Farnborough	c m b c m c	c c m i r	c m i r m	n c m c b c f x
	Boscombe Down	c r r m c	c c m	c m b c m c	c m
	Thorney Island	c	c w	c w r c m	c m b c b
	Lympne ...	c b c	b c c	c b c	b c c b c
	Manston ...	c m c	c v c	c m	c
2	Shoeburyness ...	c m c m c	c c m	c i r m	c m c b c
	Felixstowe ...	b c c c m	b c m c c m	c m b c m	c b c m c m
	Gorleston ...	c b c	b c c	c z o w	c b c z o
	Mildenhall ...	c	c b c m	c m	c m b c m f
	Cranwell ...	c m	c m c i r r c m	c i r m c m	c m o f f
3	Birmingham ...	c i r	c i r o m	o m c	c o f
	Upper Heyford	c d d o m	m d d c m	i d m c m	c m c m f
4	Ross-on-Wye	c r c d	c o d o	o p o m	c m b c m
5	Hartland Point	c r r m	a d d i d m	c m	c b c c
	Bristol ...	c r	c r c d c c d	c d d c m	c c m b c m
	Portland Bill ...	p r i r	c	c	c
	Plymouth ...	c r r r r m	c r d m	c m	c m
	The Lizard ...	r r c	c o	c w	c o w
	Scilly (St. Mary's)	c r c r o d d	o d d c	c f c c	c i r b c
	Guernsey ...				
6	Pembroke ...	o r r r r c	c	c p r	c
7	Holyhead (Valley)	o r r r m b c	b b c	b c	b c c f g
	Chester (Sealand)	c r r r r	c	b c F F	c f f
8	Manchester ...	c r r m	r r r r m	b c m f f	c F F x
10	Spurn Head ...	c	c m	b m	c m
	Catterick ...	r r m f	c r f c b c	b c m j f x	b c f
	Tynemouth ...	o i r m	b c m	b c	b b c
11	St. Abbs Head	o i r m c	b c b	b b c	b c
	Leuchars ...	r r b c	b e r m b	b	b b c c b c
12	Renfrew (Abbots I.)	c m o r r c b c	b e p r b c b	b c	b c z o
	Eskdalemuir ...	R R m c	c b c b	b b c x	b c c x
	Point of Ayre...	r r c b	b	b	b x
13A	Tiree	r p r b c p r	b c p r b c p r	c p r b c	b c
13B	Stornoway ...	c r r r p r b	b c p r P R m	b c	b b c c
15	Dalwhinnie ...	o i r c	c p r s c	*	c o p r b c
	Aberdeen ...	c r r r r m	c i r m b	b c b x	b c z o x
	Wick ...	c r r.	c b c c	b c r r c p r c	b
16	Sumburgh	c r r.	c r r m c	c r r p r	c p r c
17	Blacksod Point	b c	b c	b c	b c
18	Main Head ...	p r	p r	b c	b c
	Aldergrove ...	b	b	b b c x	b x b c x c x
19	Birr Castle ...	b	b	*	b
20	Valentia Obsy.	b c	b	b c	b c
	Roches Point	b c	b	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 18th January 1943.

Districts.	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Light southeast wind; fog persisting locally today, and becoming rather general tonight; rather cold.
5 S.W. England 6 South Wales	Moderate east or southeast winds; fair at first, some rain later; rather cold.
7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England	As 1-4.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man 13A W. Scotland ...	Light southwest wind backing southeast; fair apart from some fog in industrial areas; rather cold.
13B N.W. Scotland ↓ 14 Mid Scotland 15 N.E. Scotland ↓	Fresh west-southwest wind becoming light variable; local showers at first, otherwise fair; rather cold.
16 Orkneys and Shetlands ↓	As 13B-15.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland	Light to moderate southeast wind; fair; rather cold.
20 S.W. Ireland	As 5-6.

GENERAL INFERENCE

A ridge of high pressure is moving northeast across the British Isles and a trough is slowly approaching our southwest districts from the Atlantic. It will be rather cold and dry apart from some showers at first in North Scotland and some rain later in Southwest Ireland, Southwest England and South Wales. There will be considerable fog over a large part of England.

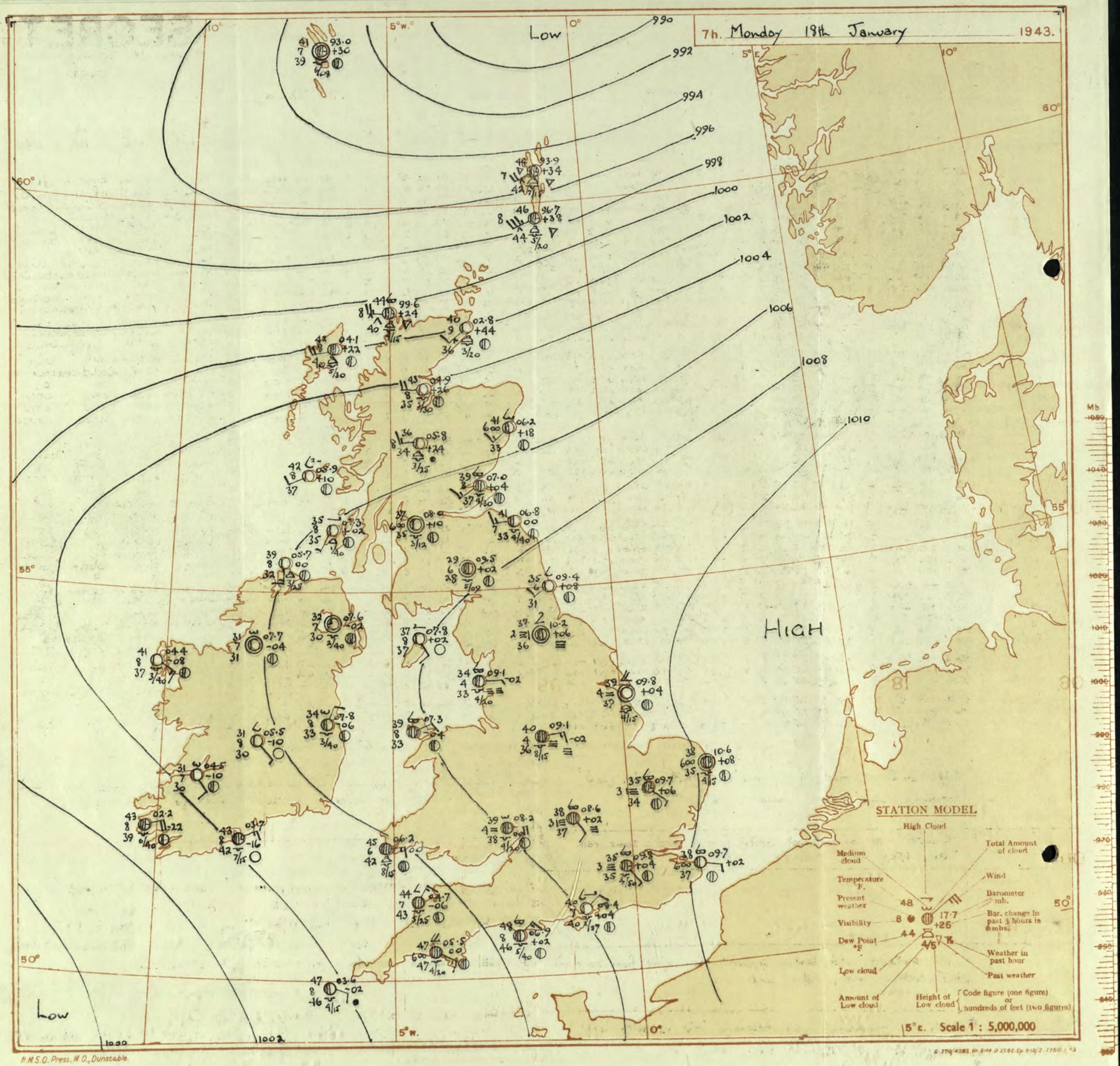
FURTHER OUTLOOK

Occasional rain in Southwest. Mainly fair elsewhere

↓ Gale warning in operation in districts 13B, 15, 16. Time of issue 17·15 G.M.T. 17th Jan. 1943

Forecasts issued at 10·30

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

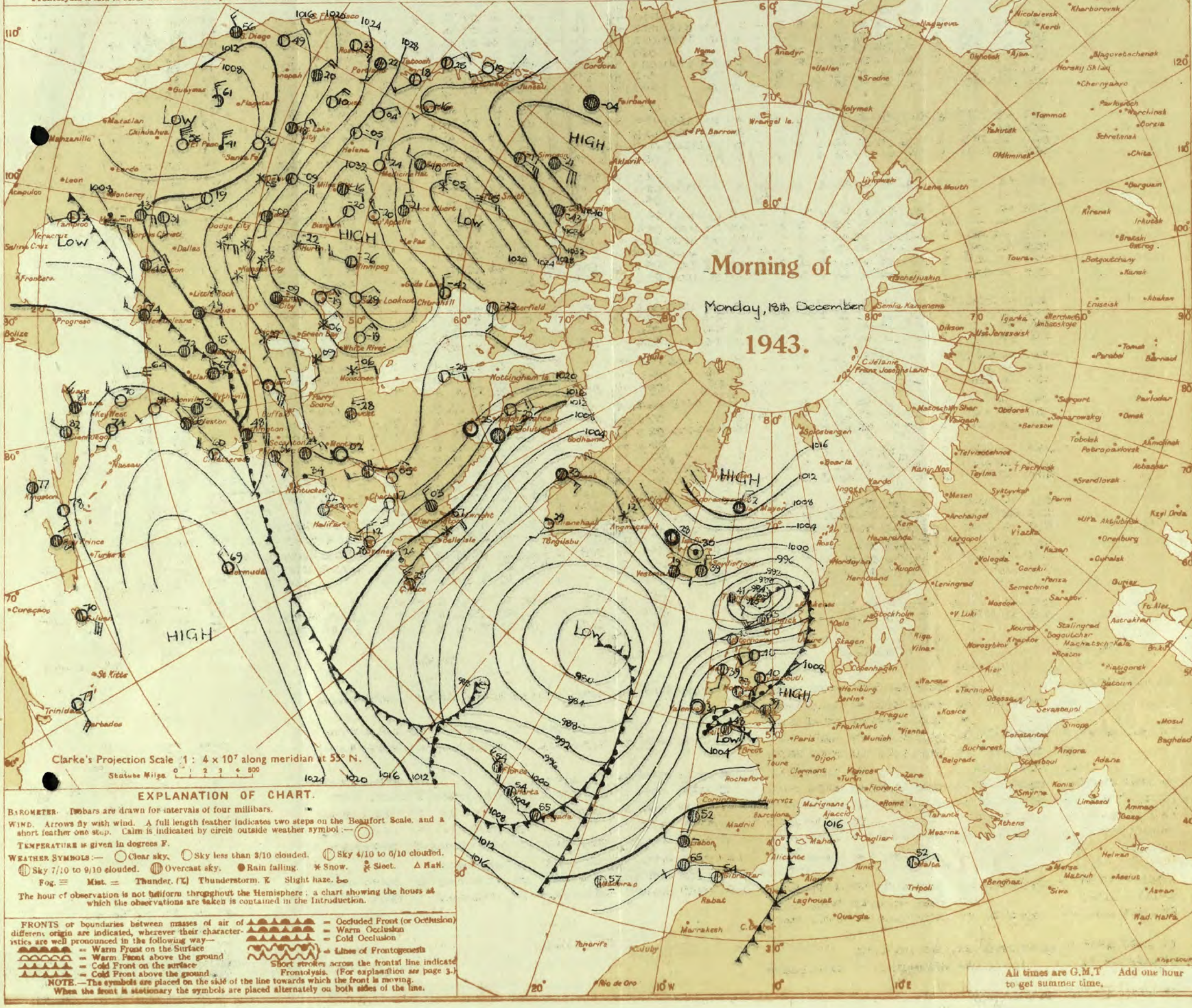
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—
- = Warm Front on the Surface
- = Warm Front above the ground
- = Cold Front on the surface
- = Cold Front above the ground
- = Occluded Front (or Occlusion)
- = Warm Occlusion
- = Cold Occlusion
- = Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T Add one hour to get summer time.

Page 4.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Monday 18th January 1943

No. 29642

OBSERVATIONS at 1 hr. G.M.T. 18th January — OBSERVATIONS at 7 hr. G.M.T. 18th January — PAST 24 HOURS.

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)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 17th Hrs. (38)
1	London (Kew)	18	*	*	*	*	*	40	*	*	*	*	*	*	*	*	*	09·0	+6	E	2	cf	36	97	35	2	S	–	–	9+	9+	2500	1	*	45	36	27	–	Tr	0·1
	Croydon	290	09·0	+2	SE	2	20	39	97	38	5	S	3	–	2-3	7-8	4000	09·8	+4	SE	1	cf	35	97	35	3	S	7	–	4-6	9	5000	1	*	45	35	30	–	Tr	0·0
	S. Farnborough	226	08·1	+2	ESE	2	20	39	92	38	5	–	3	–	10	10	5700	09·3	+6	EN	3	bcf+	34	97	33	2	S	7	–	Tr	2-3	2500	1	*	46	33	27	Tr	Tr	0·2
	Boscombe Down	417	08·0	+6	EN	3	20	38	97	37	6	–	7	7	0	10	–	08·7	+2	EN	3	20	38	97	37	6	–	7	–	0	7-8	–	1	*	46	36	33	1	Tr	0·0
	Thorney Island	10	07·7	–2	E	2	20	41	92	39	6	S	3	–	2-3	7-8	5700	08·4	+4	NEE	2	b-bc	40	97	40	7	S	4	1	1	2-3	5700	1	*	48	38	32	Tr	Tr	*
	Lympne	283	09·2	+2	S	2	c-bc	41	92	39	7	–	3	2	0	7-8	–	10·2	+6	ESE	1	c-bc	40	92	39	7	–	3	–	0	7-8	–	1	§ *3	43	38	34	–	–	1·8
	Manston	154	09·1	+2	SE	2	c	41	92	38	7	–	3	–	0	9	–	09·7	+2	ESE	1	20	38	92	37	6	–	7	–	0	4-6	–	1	*	42	38	32	–	–	0·3
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10·1	+2	SE	3	bc	39	97	38	7	S	–	–	4-6	4-6	4000	1	*	44	36	27	•	0·1	0·3
	Felixstowe	12	08·7	+2	SE	2	c/f	41	92	37	6	S	7	–	4-6	9+	2500	09·9	+6	–	0	m	37	97	36	4	–	7	–	0	7-8	–	1	1	43	35	29	•	Tr	0[illegible]
	Gorleston	5	08·9	+2	SWS	1	20	40	85	36	6	S	–	–	9	9	2500	10·6	+8	–	0	20	38	85	35	6	S	–	–	4-6	9+	1500	0	2	42	37	32	–	–	0[illegible]
	Mildenhall	15	08·7	+6	SES	2	20	39	92	37	6	S	–	–	10	10	1500	09·7	+6	SEE	1	f+	35	97	34	3	–	7	–	0	9+	–	1	*	44	35	31	–	–	0·3
	Cranwell	203	08·5	+6	NNW	1	m	41	97	41	4	–	7	–	0	10	–	09·6	+4	NE	2	f–	39	97	39	2	–	–	·	10	10	<150	1	*	46	39	36	0·4	1	0·0
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	08·9	0	ESE	3	of	42	97	41	2	S	–	–	10	10	800	1	*	44	41	41	1	–	0·0
	Upper Heyford	408	07·6	+2	–	0	20	41	97	40	5	S	3	–	Tr	9+	1500	08·6	+2	SE	2	cf+	38	97	37	3	–	7	–	0	10	–		*	45	38	36	0·3	Tr	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	08·2	0	EN	2	m	39	97	38	4	S	3	–	4-6	9	2000	1	*	46	39	36	0·3	0·6	0·0
5	Hartland Point	299	05·3	+4	E	2	c	45	97	44	6	S	1	–	7-8	10	1500	04·7	–6	NE	3	c	44	97	43	7	S	1	–	7-8	10	2500	1	4	50	43	41	4	–	0·0
	Bristol	209	07·6	+6	–	0	20	40	97	39	6	S	3	–	4-6	9+	4000	08·4	0	SE	1	m	39	97	39	4	S	7	–	2-3	10	4000	2	*	47	39	33	0·4	0·1	0·0
	Portland Bill	32	06·7	+14	NE	3	c-bc	46	92	44	8	S	–	–	7-8	7-8	4000	06·9	+2	NE	3	c	48	92	46	8	S	7	–	7-8	10	4000	1	4	48	45	*	5	–	*
	Plymouth	82	05·5	+2	ENE	1	20	43	97	43	6	S	–	6	2-3	9	2000	05·5	0	ESE	3	20	47	97	47	6	S	2	–	4-6	10	2000	1	2	50	43	35	6	0·1	0·0
	The Lizard	240	04·1	+2	ESE	3	c-bc	47	97	46	8	8	7	–	4-6	7-8	1500	04·1	0	ESE	3	o	49	92	47	7	S	–	–	10	10	1500	1	4	52	47	*	2	–	0·8
	Scilly (St. Mary's)	163	03·9	+4	ESE	2	c	48	97	48	8	S	–	–	9+	9+	1500	03·6	–2	ESE	2	bc	47	97	46	8	S	–	–	4-6	4-6	1500	1	3	51	47	*	4	–	0·0
	Guernsey	175																																						
6	Pembroke	142	06·0	+2	ENE	3	c	44	97	44	7	S	–	–	10	10	2500	06·2	0	E	3	c	45	92	42	6	8	–	–	10	10	1500	1	1	49	43	*	4	Tr	0·0
7	Holyhead (Valley)	32	07·5	+2	E	1	b-bc	33	92	31	8	–	4	–	0	2-3	–	07·3	–4	ENE	1	c	39	85	33	8	–	7	–	0	10	–	1	1	49	31	28	4	–	*
	Chester (Sealand)	16	08·2	+8	–	0	bcf	28	97	27	1	–	–	6	0	4-6	–	08·6	–2	–	0	cf	35	92	34	3	S	7	–	7-8	10	2000	1	*	46	28	23	2	–	0·6
8	Manchester	235	08·6	+8	N	2	bc f	31	97	30	3	–	3	2	0	4-6	–	08·8	–6	NE	2	cf	36	97	35	3	S	–	–	10	10	1800	1	*	44	30	24	1	–	*
10	Spurn Head	29	08·4	+4	NWW	1	m	39	97	39	4	7	3	–	4-6	4-6	4000	09·8	+4	–	0	m	39	92	37	4	7	2	–	4-6	10	1500	1	1	42	37	*	Tr	–	*
	Catterick	175	08·8	+14	SSE	1	mjf	33	97	33	4	–	4	–	0	4-6	–	10·2	–6	–	0	c-bcf	37	97	36	2	–	–	6	0	7-8	–	1	*	45	25	19	2	–	0·8
	Tynemouth	108	07·6	+10	SSW	3	bc	40	75	32	6	–	4	1	0	4-6	–	09·4	+8	SW	2	b-bc	35	85	31	6	–	4	–	0	2-3	–	S		45	35	30	1	–	*
11	St. Abbs Head	280	04·7	+28	SW	4	bc	39	85	34	7	S	–	–	4-6	4-6	4000	06·8	0	W	3	bc	41	75	33	7	S	–	–	4-6	4-6	4000	1	1	44	37	*	1	–	*
	Leuchars	36	03·6	+24	SW	3	b	40	85	36	8	–	–	5	0	1	–	07·0	+4	SW	3	c-bc	39	92	37	8	S	7	–	4-6	7-8	3000	1	*	45	38	33	5	–	1·4
12	Renfrew (Abbots I.)	19	05·1	+22	SWW	3	bc	42	85	37	8	1	–	1	2-3	4-6	3000	08·0	+10	–	0	20	37	92	35	6	S	–	–	2-3	2-3	1200	1	*	46	37	32	3	–	3·5
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	09·5	+2	–	0	c-bc	29	97	28	6	S	–	–	7-8	7-8	900	3	*	43	27	22	11	–	1·6
	Point of Ayre	30	07·3	+14	SWW	2	b	35	97	35	8	–	–	1	0	1	–	07·8	+2	SE	2	b	37	97	37	8	–	–	S	0	1	–	0	1	48	34	*	2	–	5·0
13A	Tiree	44	03·3	+22	WS	4	bc	44	75	36	8	8	3	–	4-6	4-6	3000	05·9	+10	WSW	2	b-bc	42	85	37	8	–	4	S	0	2-3	–	1	4	47	39	33	1	Tr	3·0
13B	Stornoway	15	99·0	+52	WSW	5	b	43	92	40	8	2	–	–	1	1	2200	04·1	+22	WSW	4	c-bc	42	92	40	8	8	–	–	7-8	7-8	3000	1	3	46	41	37	4	2	1·1
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	05·8	+24	W	3	b-bc	36	92	34	8	8	–	–	2-3	2-3	2500	1	*	39	34	31	9	3	0·5
	Aberdeen †	79	01·1	+14	SWW	4	b	40	75	33	9	–	4	–	0	Tr	–	06·2	+18	SWW	3	20	41	75	33	6	–	S	–	0	4-6	–	1	2	45	38	32	4	–	1·6
	Wick	114	95·8	+50	SWW	5	bc	42	92	40	9	3	7	–	2-3	4-6	1500	02·8	+44	SW	2	b-bc	40	85	36	9	8	–	–	2-3	2-3	2000	1	*	45	39	36	5	2	*
16	Sumburgh	19	87·5	–4	SWW	8	pr	45	92	43	8	8	–	–	9+	9+	2000	96·7	+38	WSW	7	c	46	92	44	8	8	6	–	7-8	9	2000	5	5	46	40	40	7	3	0·0
17	Blacksod Point	18	05·3	+10	SW	2	bc	45	85	41	8	S	–	6	4-6	4-6	4000	04·4	–8	ESE	3	b-bc	41	85	37	8	S	–	–	2-3	2-3	4000	0	3	49	40	*	0·6	–	*
18	Malin Head	84	04·5	+18	SW	2	bc	39	85	35	8	2	–	6	2-3	4-6	2500	05·7	0	S	3	b-bc	39	75	32	8	2	–	–	2-3	2-3	2500	2	3	47	37		1	–	5·6
	Aldergrove	268	07·0	+14	–	0	c-bc	33	92	31	8	–	7	1	0	7-8	–	07·6	–2	–	0	b	32	92	30	7	S	–	–	1	1	4000	3	*	44	28	22	–	–	6·5
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	05·5	–10	SE	1	b-bc	31	97	30	8	–	4	–	0	2-3	–	1	*	48	28	23	•	–	5·4
20	Valentia Obsy.	30	05·7	+4	–	0	c-bc	34	92	32	9	–	7	1	0	7-8	–	02·2	–22	EN	4	c	43	85	38	8	S	–	–	9	9	4000	1	2	49	33	26	–	Tr	6·3
	Roches Point	22	06·3	+2	ENE	2	b	36	92	34	8	–	–	–	0	0	–	03·7	–16	ENE	3	c	43	97	42	8	S	–	–	9+	9+	1500	1	4	49	34	*	•	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 17th Jan. $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 18th Jan. $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	62	61635	47668				80	81745	56785	5-	22755	55685
115				52	64735	53588	52	01844	95687	87	14844	91586
203							8-	02846	20736	88	02945	24615
206	20	01963	20463	51	64753	53688	20	01862	53512	50	01863	24413
210				36	02853	52615	06	02890	55611	53	22862	53563
220				83	25745	23685				50	01753	19203
230	9-	27865	52485	3-	25856	51686	36	02864	53485	6-	27754	00084
245	57	22654	19367	20	01951	20301	54	01851	52501	54	02752	07117
260	53	02753	20224	50	01761	53412				52	02754	20325
278	80	01842	23462	00	00890	23300	03	01890	21312	53	01763	14213
279	26	01854		20	01851	21411	04	01890	16212	04	01890	32102
285												
288	62	62644	47468	00	01890	14123	00	02790	13115	00	47190	19144
575	86	01851	22202				03	01890	00014	03	01790	00013
301	57	05655	22266	07	02790	21226	00	45290	12142	57	41454	08146
321												
2.9	8-	61647	18467	5-	05538	20328	44	05653	20314	54		
292	62	62536	16368				00	45390	00042	--	44190	00049
310												
614	57	61547	16228	5-	08448	20128						

III	13h. G.M.T. 17th Jan. $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 18th Jan. $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	5-	02855	24156	07	04790	00026	03	04890	00017	5-	02758	00028
334												
340	5-	05648		57	04652	00025	53	02473	32247	07	02690	12328
136	09	02790	16427	5-	61754	18328	5-	05648	18158	01	22690	18168
336												
350	07	05690	17428	57	05664	15128				54	45264	08145
368	57	22645	14368	02	52438	14168	57	05544	10257	9-	42257	61375
379	57	05653	16468	5-	05548	16158	5-	55643	18145	57	05563	08316
390	07	05590	12326				57	45374	10147	57	45374	00046
382	57	02864	15368	57	05665	15227	07	05690	00028	07	08490	08128
438	5-	02756	14416	5-	02767	16417	43	02763	18215			
430	57	02764	14327	04	05690	14126	07	05690	10126	07	05690	10123
409	5-	05628	16368	5-	51308	04228	57	01742	01124	5-	02734	07428

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 18th January
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	czcm	cmcm	cffc
Croydon	cm	cfbcm	bcmbcfx
Greenwich	c	c	bccm
Camden Square	c	c	*
Kensington	bcz	cm	*
Hampstead	o	bc	om

Atmospheric Pollution, Milligrams of solid impurity per cubic metre. Kew 24 hours ended [illegible]. Max. [illegible]e 05 18-20h 17th. Min. Time 0·2 9-15h 17th

Stations	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 % Yesterday	Humidity 9h % To-day
Kew	45	36	27	–	Tr	0·1	*	*
Croydon	45	35	30	–	Tr	0·0	*	*
Greenwich	45	34	28					
Westminster	47	40	32		–		79	95
Regents Park	45	37	31	–	–		77	97
Camden Square	45	36	29	–	–	*	*	96
Kensington	47	36	–	–	Tr		79	94
Hampstead	44	36	31		–		*	84

Page 1 BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

SECRET

Tuesday 19th January 1943.

No. 23,643.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	08·9	-6	E'N	1	cf	45	85	42	3	-	7	-	0	9+	-
	Croydon	10·1	-6	SE	2	z0	43	88	39	6	5	7	1	1	9+	1000
	S. Farnborough	08·9	-6	SE	3	z0	45	92	43	6	5	7	-	7-8	9	2500
	Boscombe Down	08·2	-6	E'S	4	z0	47	92	44	6	5	3	2	2-3	7-8	600
	Thorney Island	08·4	-6	E	3	c	48	92	46	7	5	3	-	4-6	9+	5700
	Lympne	10·3	-6	SE	2	z0	46	92	44	7	-	3	1	0	9+	-
	Manston	10·5	-2	S'E	3	c/r	45	92	43	7	-	9	-	0	9+	-
2	Shoeburyness	11·2	-10	SE	1	id0	43	92	41	5	5	-	-	9	9	4000
	Felixstowe	10·3	-2	SE	2	ir0	42	92	41	6	5	7	-	7-8	9	7200
	Gorleston	10·9	0	-	0	z0	42	92	39	6	5	7	-	4-6	7-8	2000
	Mildenhall	10·0	-4	SE'S	1	z0	46	85	41	6	5	7	2	2-3	9+	4000
	Cranwell	09·6	-6	SSE	1	z0	43	88	40	6	-	7	9	0	4-6	-
3	Birmingham	08·1	-8	ESE	3	o	45	92	43	6	5	-	-	9	9	4000
	Upper Heyford	08·8	-4	SE'E	2	m	47	85	42	4	-	3	1	0	4-6	-
4	Ross-on-Wye	08·3	-6	NE'E	1	z0	43	92	41	5	-	7	-	0	9+	-
5	Hartland Point	04·3	-4	E	3	c	49	92	47	7	5	6	-	4-6	9+	1200
	Bristol	08·0	-6	ESE	1	z0	46	92	43	6	5	7	-	2-3	10	4000
	Portland Bill	07·9	+4	SSW	3	c	48	92	46	8	5	-	-	10	10	4000
	Plymouth	05·8	+2	ESE	3	c	50	92	48	7	5	7	-	9	10	1500
	The Lizard	04·3	-2	S'W	3	c	51	92	49	8	8	2	-	7-8	10	1500
	Scilly (St. Mary's)	04·1	-2	S'E	2	c	50	92	47	8	8	-	-	10	10	1000
	Guernsey															
6	Pembroke	05·3	-6	ESE	4	o	46	92	41	6	5	2	-	4-6	10	1500
7	Holyhead (Valley)	06·6	-2	-	0	fg	50	75	42	7	-	4	2	0	1	-
	Chester (Sealand)	08·6	-4	S	1	m	45	92	41	4	5	-	-	10	10	1500
8	Manchester	09·0	-8	NE	2	m	46	85	42	4	-	3	-	0	7-8	-
10	Spurn Head	10·8	0	-	0	z0	41	92	40	5	5	2	-	4-6	10	1500
	Catterick	11·0	-4	-	0	c-bc/f	35	85	30	5	-	9	-	0	7-8	-
	Tynemouth	11·4	+2	SSW	2	bcf	41	75	34	3	-	4	1	0	4-6	-
11	St. Abbs Head	09·3	+2	SW	2	bc	42	75	36	7	5	4	-	4-6	4-6	4000
	Leuchars	09·2	+10	-	0	c	45	85	42	6	-	7	-	0	9+	-
12	Renfrew (Abbots I.)	09·2	-2	-	0	cF	36	97	34	1	5	3	-	7-8	10	2000
	Eskdalemuir	09·7	0	-	0	bcf-	36	97	35	2	-	-	6	0	4-6	-
	Point of Ayre	08·1	0	SE	4	c	43	85	38	8	5	-	-	10	10	2500
13A	Tiree	07·6	+2	SSE	3	bc	46	95	41	8	1	3	2	Tr	4-6	2500
13B	Stornoway	06·9	+10	SSW	3	bc	45	85	42	8	8	6	2	2-3	4-6	2500
15	Dalwhinnie	08·0	+10	SW	3	c-bc	38	85	32	8	5	3	1	2-3	7-8	4000
	Aberdeen	09·0	+10	SSE	2	z0	46	65	36	5	-	-	5	0	1	-
	Wick	05·7	+10	SW'S	3	bc	41	85	36	9	8	4	9	2-3	4-6	3000
16	Sumburgh	01·7	+18	WSW	7	c	47	85	43	8	8	6	-	4-6	9	2500
17	Blacksod Point	02·7	-14	ESE	4	c	41	85	37	8	5	-	-	10	10	4000
18	Malin Head	05·8	-2	ESE	3	b-bc	45	75	38	8	-	-	1	0	2-3	-
	Aldergrove	07·3	-2	ENE	1	z0	46	75	40	6	5	7	-	1	7-8	3000
19	Birr Castle	04·3	-6	ESE	2	c	45	92	43	8	5	1	-	7-8	9+	2500
20	Valentia Obsy.	00·3	-12	SSE	5	c/pr	51	85	47	8	5	2	-	9	10	1500
	Roches Point	03·1	-2	SSE	4	c	49	92	47	7	5	-	-	9+	9+	800

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	09·0	+2	E'NE	2	of	46	92	44	2	5	-	-	10	10	2500	1	*
Croydon	09·8	-2	SE	2	m	47	85	44	4	5	7	-	1	9+	5000	1	*
S. Farnborough	08·6	+2	E'S	2	f/r	45	92	43	5	5	7	-	9	9+	3000	1	*
Boscombe Down	08·3	-2	ESE	3	id0	45	97	44	6	5	2	-	7-8	10	600	1	*
Thorney Island	08·6	0	E	2	z0	46	92	44	6	5	3	-	4-6	9+	7200	1	*
Lympne	10·4	+2	E'S	2	z0	45	92	43	6	-	3	8	0	9	-	1	§3
Manston	10·1	0	SE'S	2	c/r	46	92	44	6	5	7	-	7-8	9+	6300	1	*
Shoeburyness	10·9	+2	SE	2	ir0	43	92	41	5	-	9	-	0	10	-	1	*
Felixstowe	10·4	+4	-	0	r0r0	43	97	42	5	5	7	-	9	10	4300	1	2
Gorleston	10·9	+2	SE	2	z0	42	92	40	6	5	-	-	9+	9+	1500	0	2
Mildenhall	10·0	+2	ESE	3	m	44	85	41	4	5	7	-	7-8	9+	6000	1	*
Cranwell	09·9	0	E'S	2	m	41	97	41	4	5	7	-	7-8	10	3000	1	*
Birmingham	08·5	0	E	2	oft	45	92	43	3	5	-	-	10	10	1600	1	*
Upper Heyford	08·6	+2	SE'E	1	df	45	92	42	3	5	-	-	10	10	5700	1	*
Ross-on-Wye	07·9	0	S	1	of+	45	92	43	3	5	-	-	10	10	800	1	*
Hartland Point	04·9	0	ESE	3	c	47	97	46	7	5	2	-	7-8	10	1500	1	4
Bristol	07·7	-2	SE	1	m/d	47	97	45	4	5	-	-	10	10	1500	1	*
Portland Bill	07·2	0	E	2	o	48	92	46	7	5	-	-	10	10	2500	1	4
Plymouth	06·2	+6	SE	2	z0	49	97	49	6	5	-	-	10	10	1500	1	2
The Lizard	05·4	+4	S'E	1	c	49	92	47	8	8	2	-	7-8	9+	1500	1	3
Scilly (St. Mary's)	03·6	+2	SSE	3	c	49	97	48	8	8	3	-	4-6	9+	1200	1	3
Guernsey																	
Pembroke	04·3	-4	ESE	4	c	46	97	45	6	5	-	-	10	10	1500	1	1
Holyhead (Valley)	06·4	0	NE	2	z0	46	85	43	6	5	3	-	7-8	9+	3000	1	1
Chester (Sealand)	08·1	-6	SSE	1	m	43	92	41	4	5	-	-	9	9	4000	1	*
Manchester	09·1	0	-	0	cf+	42	92	39	3	5	-	-	9+	9+	5000	1	*
Spurn Head	10·9	0	ESE	2	z0	41	92	39	6	5	3	-	4-6	9	1500	1	2
Catterick	10·9	-2	-	0	ft	36	92	33	2	-	-	-	10	10	<150	1	*
Tynemouth	11·3	+2	SSE	2	bc	40	85	36	6	-	4	-	0	4-6	-	1	3
St. Abbs Head	09·3	-8	SSE	3	c-bc	40	85	35	6	5	-	-	7-8	7-8	4000	0	3
Leuchars	09·8	+6	-	0	m/f	36	97	35	4	-	-	-	0	0	-	1	*
Renfrew (Abbots I.)	08·8	0	NE	1	cft	33	97	33	2	5	7	-	4-6	9	2000	1	*
Eskdalemuir	09·6	+4	-	0	b-bc	36	85	32	8	5	3	1	1	2-3	2500	1	*
Point of Ayre	07·7	+4	SE'E	3	z0	43	92	41	6	5	3	-	4-6	9	800	0	
Tiree	07·5	-2	SE	4	bc	43	85	39	8	4	3	2	2-3	4-6	2500	1	3
Stornoway	08·7	+10	-	0	c-bc	36	97	36	7	2	3	-	Tr	7-8	2200	1	1
Dalwhinnie	09·5	+6	W	1	b	30	85	27	8	5	-	-	Tr	Tr	4000	3	
Aberdeen	10·0	+4	-	0	bf+	36	92	35	2	-	-	-	0	0	-	1	*1
Wick	08·9	+20	SW	3	c-bc	39	85	34	8	-	3	8	0	7-8	-	1	*
Sumburgh	04·7	+18	W	6	c	46	92	43	8	8	6	-	7-8	9+	2500	1	5
Blacksod Point	01·4	-6	SE'S	5	c	45	92	43	8	5	-	-	9+	9+	2500	1	4
Malin Head	04·7	-4	SE'S	3	c-bc	43	86	39	7	5	-	-	7-8	7-8	2500	2	2
Aldergrove	06·9	+2	E'S	2	m	43	92	40	4	5	-	-	10	10	1000	1	*
Birr Castle	03·2	-4	SE	2	c	45	92	43	7	5	-	-	10	10	1500	1	*
Valentia Obsy.	98·2	-14	SE	5	c	51	75	43	8	5	-	-	7-8	10	2500	1	3
Roches Point	01·8	-4	SSE	4	c	49	92	47	8	5	-	-	9+	9+	800	1	4

PAST 24 HOURS.

Stations	Weather 7h.—13h. 18th (39)	Weather 13h.—18h. 18th (40)	Weather 18h. 18th to 1h. 19th (41)	Weather 1h.—7h. 19th (42)
London (Kew)	bcFefw	cffw	cffw	cffr0
Croydon	cfcm0	cm0cm	cmcm	cmircmdd
S. Farnborough	bcrbfcm0	cm0id0	cmirmmid	cmr0d0m0
Boscombe Down	cm0cm	cm0ir0m0	cidm0m0	omorF
Thorney Island	bcm0c	cir0cm0id0	cm0	cm0idcm
Lympne	bccm0r0	zir2m0	cmc	cr0oFd0
Manston	cpr0ir0m0	cm0ir0	cm0ir	ofdd0
Shoeburyness	cid0c	cid0r0m0	cirm0x	cirm0...
Felixstowe	cm0cir0m0	cir0m0	r0rid0cm	cmof
Gorleston	cbccz0	cz0	czw	cz
Mildenhall	cm0	ir0cm0cm	cmcm	cmw
Cranwell	fcm0bc	cm0cm	cmcfoFF	bfF
Birmingham	foc	cof	ofmx	omfd0
Upper Heyford	cfbcm	bcmir0cf	irfcf	idfid
Ross-on-Wye	cm0	cm0om		om
Hartland Point	c	c	c	cbcs
Bristol	cmm0	cm0pr0ir0	cmcm	cmcidm0of
Portland Bill	c	cprc	oc	cc
Plymouth	c	ccm0	cidm0c	cidir0m0
The Lizard	oc	cbcc	cprcp	bccrr
Scilly (St. Mary's)	bcc	cbcc	cd0c	r0orrc
Guernsey				
Pembroke	com0	com0r0r0	m0c	cq
Holyhead (Valley)	bccbfg	b,cfgm0	cirm0	cm0
Chester (Sealand)	ofom	ocm	offr0r0	oFFr0
Manchester	cffm	bccm	cffm	ir0mff
Spurn Head	cm	cm0	pr0c	ofc
Catterick	cfx	bcm0of	fidF	idoF
Tynemouth	bcff	bcfbc	om0	om
St. Abbs Head	bccbc	bccm0	cmbbcom0	omf
Leuchars	bccm0cf	cmbifw	bcmw	cwc
Renfrew (Abbots I.)	bcm0cf	bcfcfx	bff	bfcfcm0
Eskdalemuir	cxFbcf	bcfb	bcc	bcm0
Point of Ayre	Fbcc	bz	cz0	circz
Tiree	i z	bc	ucbbc	bcccz0
Stornoway	ccpr0bc	bc	bcbmx	bcwcw
Dalwhinnie	b,c	cb		bc
Aberdeen	bcxzcbz0	bz0bbf	bffx	bfcffx
Wick	bc	bcc	bcbbc	bc
Sumburgh	pr0c	cjprc	cpr0bc	bcc
Blacksod Point	c	c	c	bc
Malin Head	bc	bc	c	c
Aldergrove	brcxbcm0	cm	omof	ofom0
Birr Castle	c	c	•	bc
Valentia Obsy.	pr	r	r	r
Roches Point	d	c	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 19th January 1943

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Light to moderate southeast wind; dull and misty with local fog, slight local rain; mild.
5 S.W. England ✝; 6 South Wales ✝	Fresh southeast winds, strong locally; cloudy with rain at times; mild.
7 North Wales ✝; 8 N.W. England; 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland	As 1-4.
12 S.W. Scotland & Isle of Man ✝; 13A W. Scotland ✝; 13B N.W. Scotland	Moderate to fresh southeast wind; cloudy, some rain later; mild.
14 Mid Scotland; 15 N.E. Scotland	Light variable to southeast wind; fair at first becoming dull with slight local rain or drizzle and local fog; mild.
16 Orkneys and Shetlands	As 14-15.
17 N. W. Ireland ✝; 18 N. E. Ireland ✝	As 12-13B.
19 S. E. Ireland; 20 S. W. Ireland ✝	As 5-6.

GENERAL INFERENCE

A depression is centred about 500 miles southwest of Ireland, and associated troughs are moving slowly northeast. Weather will be generally mild and dull with rain at times in the West and Southwest, and slight local rain elsewhere. Over much of the country there will be mist or fog.

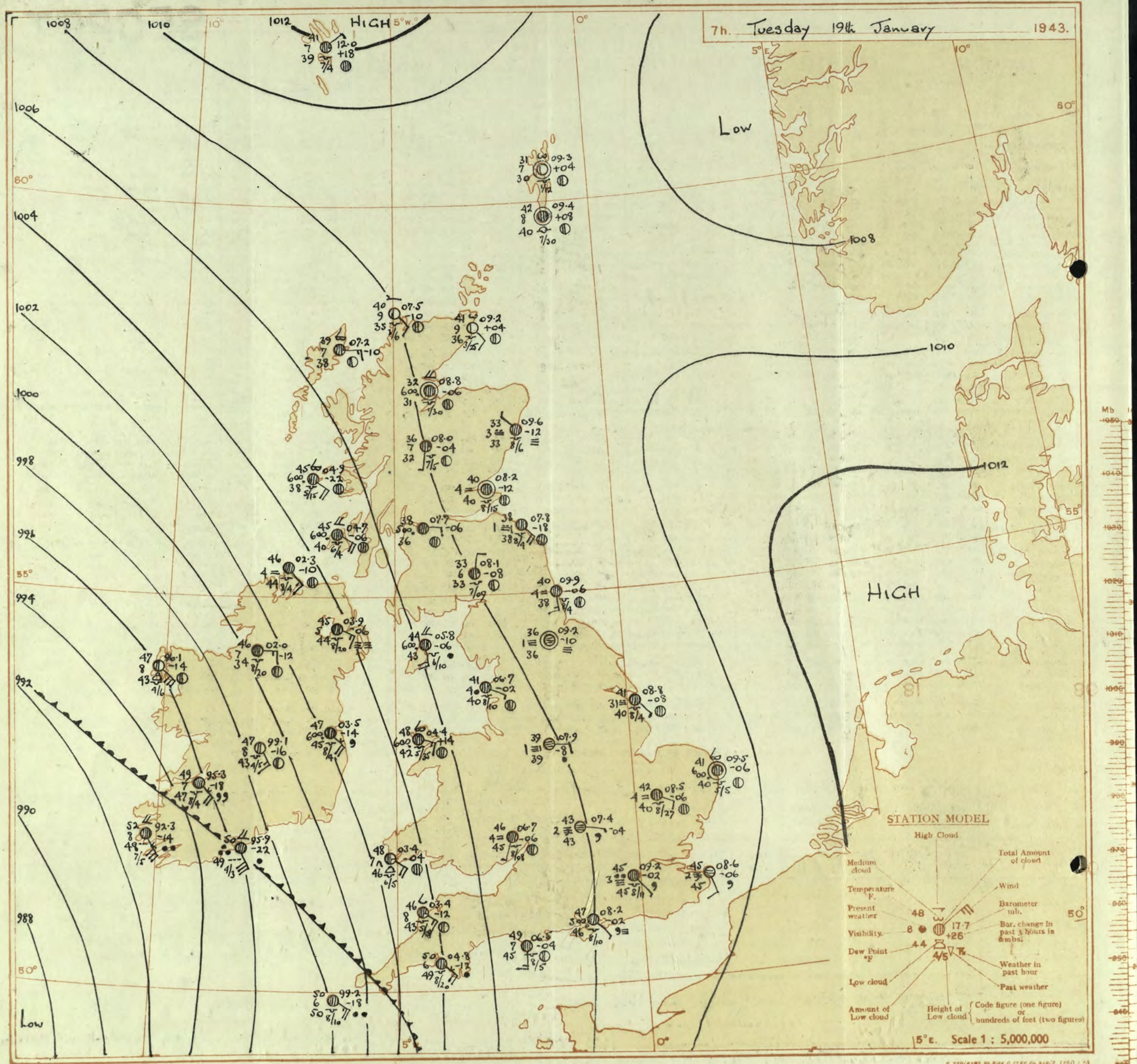
FURTHER OUTLOOK

Mild and unsettled with rain at times in most districts.

✝Gale Warnings issued 0140h districts 17 18(part of) 20; and 0525h in districts 5, 6, 7, 12 & 13A on 19 January 1943.

Forecasts issued at 10·30

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

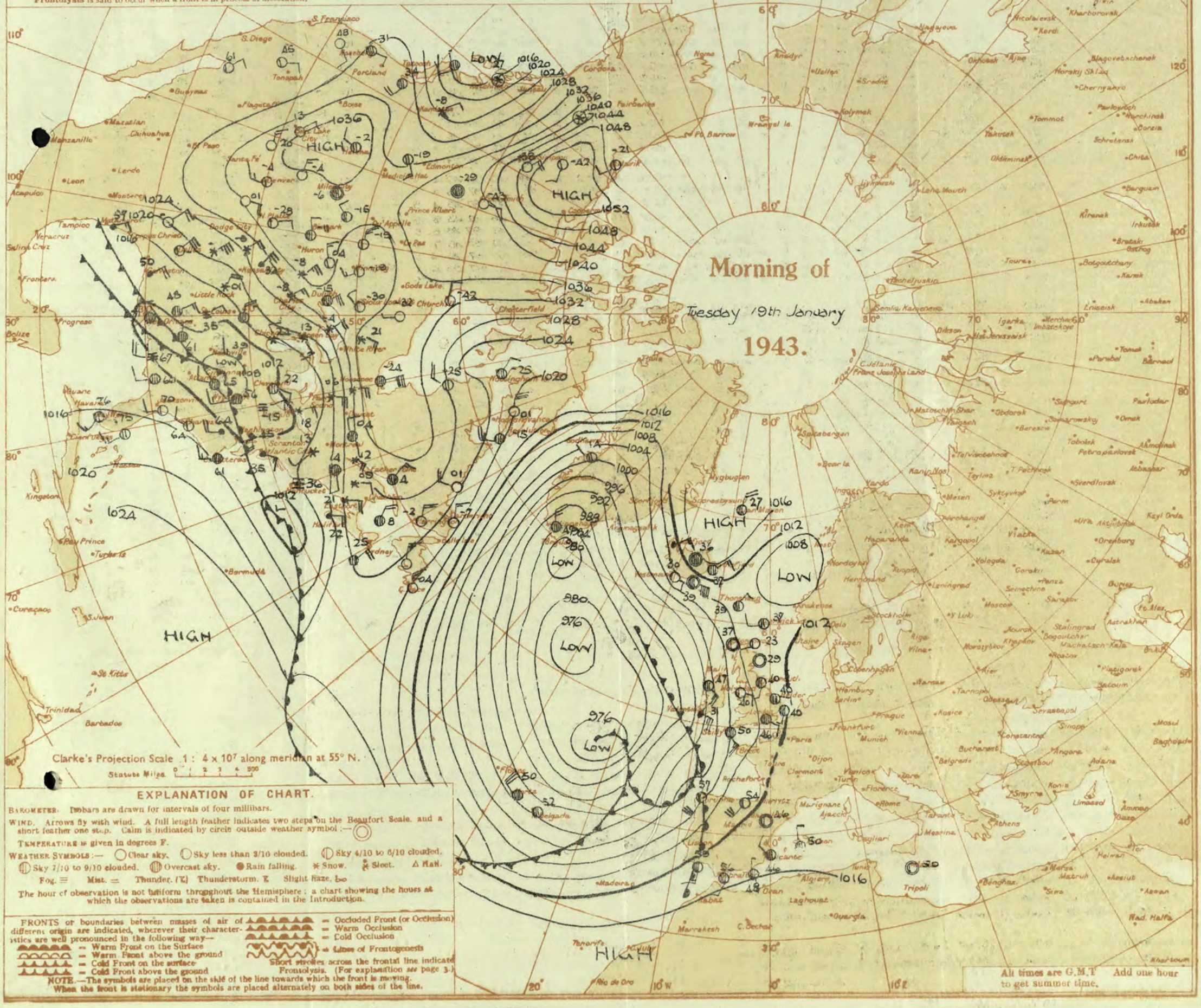
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add one hour to get summer time.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Tuesday 19th January 1943

No. 29,643.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	45	*	*	*	*	*	*	*	*	*
	Croydon	290	09·4	-4	SE'S	2	z0	46	92	44	5	5	7	-	7-8	10	2500
	S. Farnborough	226	08·2	-6	SE'E	2	id0	45	97	44	5	5	-	-	10	10	2000
	Boscombe Down	417	08·0	-6	E	3	z0	45	97	44	5	5	-	-	10	10	800
	Thorney Island	10	08·3	-2	E'N	2	z0	47	92	46	6	5	2	-	4-6	10	1700
	Lympne	283	09·6	-6	E'S	2	c	45	85	42	7	-	7	-	0	10	-
	Manston	154	09·5	-6	SSE	1	z0	44	92	42	6	-	9	-	0	9+	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	09·7	-4	SSE	1	m	42	97	42	4	-	7	-	0	9	-
	Gorleston	5	10·7	+4	S'W	2	z0	40	97	40	6	-	3	8	0	9+	-
	Mildenhall	15	09·4	0	ESE	2	m	41	97	40	4	-	3	-	0	7-8	-
	Cranwell	203	09·1	-6	ESE	2	F	38	97	38	1	-	-	-	10	10	<150
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	08·1	-2	E'S	1	df	42	97	41	2	5	-	-	10	10	800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	04·6	-6	ESE	3	c-bc	47	97	46	8	2	6	-	1	7-8	1500
	Bristol	209	07·7	-2	SE	1	m	46	97	45	4	5	-	-	10	10	500
	Portland Bill	32	06·7	-4	S	3	c	48	92	46	5	2	4	-	4-6	10	4000
	Plymouth	82	06·0	-4	SSE	2	c	50	97	49	7	5	7	-	9	10	2500
	The Lizard	240	03·9	-4	SSE	4	bc	49	92	47	8	8	3	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	02·3	-8	SSE	5	c	50	92	47	8	5	-	-	10	10	1500
	Guernsey	175															
6	Pembroke	142	04·5	-4	SE'E	4	c	48	97	47	7	8	2	-	7-8	10	2500
7	Holyhead (Valley)	32	06·2	-2	ESE	2	zq	44	92	42	6	5	-	-	Tr	Tr	4000
	Chester (Sealand)	16	07·8	-2	SE	1	rf	43	92	41	2	5	-	-	10	10	2000
8	Manchester	235	08·1	-6	NE	3	m	43	92	41	4	5	3	-	2-3	9	2500
10	Spurn Head	29	10·2	-2	ESE	2	c	40	97	40	6	5	3	-	4-6	9	1600
	Catterick	175	09·5	-10	-	0	df	37	97	37	1	5	-	-	10	10	600
	Tynemouth	108	10·8	-4	SSW	2	z0	40	85	36	5	5	-	-	10	10	1500
11	St. Abbs Head	280	08·8	-6	S	3	o	39	92	36	5	5	-	-	10	10	1500
	Leuchars	36	09·2	-6	-	0	m	35	97	35	4	-	-	7	0	10	-
12	Renfrew (Abbots I.)	19	08·4	-6	-	0	bf	31	97	30	3	-	-	-	0	0	-
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	06·4	-8	SSE	5	z0	44	92	42	6	3	-	-	9+	9+	4000
13A	Tiree	44	06·4	-6	SE'E	4	b-bc	44	65	33	7	-	-	5	0	2-3	-
13B	Stornoway	15	08·8	0	-	0	z0	37	97	37	6	-	-	2	0	2-3	-
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	10·3	-2	-	0	fg	29	92	27	6	-	-	-	0	0	-
	Wick	114	09·8	0	WSW	1	b	32	92	32	9	-	-	5	0	Tr	-
16	Sumburgh	19	08·5	+10	W	3	b-bc	45	92	43	9	1	6	-	1	2-3	2500
17	Blacksod Point	18	99·4	-10	SE	5	c	47	85	43	8	8	-	-	9+	9+	500
18	Malin Head	84	08·7	-4	SE	3	c	44	85	40	6	5	-	-	9+	9+	1500
	Aldergrove	268	05·3	-6	SE	2	of	44	92	42	3	5	-	-	10	10	1800
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	95·7	-20	SE'E	6	ir0	51	75	44	8	6	2	-	9	10	2500
	Roches Point	22	99·9	-10	SSE	5	bc	49	92	47	8	5	-	5	2-3	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 19th January

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	08·0	-4	ESE	1	rf	44	97	43	2	6	2	-	7-8	10	1500	1	*
Croydon	09·2	-2	SSE	1	r0r0	45	97	45	3	5	-	-	10	10	1100	1	*
S. Farnborough	07·9	-2	SE'S	2	d0/d	46	97	45	4	5	-	-	10	10	600	1	*
Boscombe Down	08·0	-2	SE	2	F	45	97	45	1	-	-	-	10	10	<150	1	*
Thorney Island	08·2	-2	SE'S	1	d/f	47	97	46	5	5	-	-	10	10	1000	1	*
Lympne	08·7	-2	-	0	df	46	97	46	2	-	-	-	10	10	<150	1	§3
Manston	08·6	-6	S'E	2	df	45	97	45	2	-	-	-	10	10	<150	1	*
Shoeburyness	09·7	-8	SE	2	z0	43	97	41	5	5	-	-	10	10	2500	1	*
Felixstowe	09·0	-6	E'N	2	of+	43	97	42	3	5	-	-	10	10	700	1	2
Gorleston	09·5	-6	-	0	z0	41	92	40	6	5	7	-	7-8	9+	2500	0	2
Mildenhall	08·5	-6	ESE	2	m	42	92	40	4	5	-	-	10	10	2700	1	*
Cranwell	08·4	-6	ESE	1	o/f	39	97	39	1	-	-	-	10	10	<150	1	*
Birmingham	07·3	-4	ESE	2	df	43	97	42	2	6	-	-	10	10	450	1	*
Upper Heyford	07·4	-4	E'S	1	df	43	97	43	2	-	-	-	10	10	<150	1	*
Ross-on-Wye	06·7	-6	SSW	1	m	46	97	45	4	5	-	-	10	10	800	1	*
Hartland Point	03·4	-12	SE	3	c	46	92	43	8	5	4	-	7-8	9+	2500	1	3
Bristol	07·2	-2	-	0	z0	45	97	45	5	5	-	6	4-6	9	1400	2	*
Portland Bill	06·5	-4	S	3	c	49	85	45	7	5	-	-	10	10	2500	1	4
Plymouth	04·8	-12	SE	4	c/r	50	97	49	6	5	-	-	10	10	2000	1	3
The Lizard	01·5	-16	SSE	5	rr	50	97	50	6	5	-	-	10	10	1000	1	5
Scilly (St. Mary's)	99·2	-18	SE'S	5	c/r	50	97	50	6	5	-	-	10	10	1000	1	5
Guernsey																	
Pembroke	03·4	-4	ESE	4	cq	48	92	46	7	8	-	-	9	9	2500	1	3
Holyhead (Valley)	04·4	-14	E'S	3	z0	48	85	42	6	5	7	-	7-8	10	3500	1	2
Chester (Sealand)	06·9	-8	SE	2	of	43	97	42	1	5	-	-	10	10	500	1	*
Manchester	07·3	-6	NNE	1	of	42	97	41	3	5	-	-	10	10	1100	1	*
Spurn Head	08·8	-8	SE'S	1	of+	41	97	40	3	5	-	-	10	10	1500	1	1
Catterick	09·2	-10	-	0	F	36	97	36	1	-	-	-	10	10	<150	1	*
Tynemouth	09·9	-6	S	3	m	40	92	38	4	5	-	-	10	10	1500	1	3
St. Abbs Head	07·8	-18	SE	4	oF	38	97	38	1	5	-	-	10	10	1500	0	3
Leuchars	08·2	-12	-	0	m	40	97	40	4	5	-	-	10	10	1500	1	*
Renfrew (Abbots I.)	07·7	-6	E	2	z0	38	97	36	5	5	-	-	10	10	450	1	*
Eskdalemuir	08·1	-8	N'E	2	c	33	97	33	6	5	-	-	9+	9+	900	3	*
Point of Ayre	05·8	-6	S	4	z0	44	97	43	6	5	2	-	9	10	1000	1	4
Tiree	04·9	-10	SE'E	4	z0	45	75	38	6	5	7	-	7-8	10	1500	1	4
Stornoway	07·2	-10	E	3	c	39	97	38	7	-	7	*	0	9+	-	1	2
Dalwhinnie	08·0	-4	S	1	c	36	85	32	7	5	-	-	9+	9+	2500	3	*
Aberdeen †	09·6	-12	NW	1	of	33	97	33	3	5	-	-	10	10	4000	1	1
Wick	09·2	+4	SE	2	b-bc	41	86	36	9	5	3	-	2-3	2-3	2500	1	*
Sumburgh	09·4	+8	-	0	c	42	92	40	8	4	-	-	9+	9+	3000	1	3
Blacksod Point	96·1	-14	SE'S	6	bc	47	85	43	8	8	-	-	4-6	4-6	4000	0	4
Malin Head	02·3	-10	SE	3	m	46	92	44	4	5	-	-	10	10	1500	2	3
Aldergrove	03·9	-6	ESE	3	o/f	45	97	44	5	5	-	-	10	10	2000	1	*
Birr Castle	99·1	-16	SSE	3	bc	47	85	43	8	5	-	-	4-6	4-6	2500	1	*
Valentia Obsy.	92·3	-14	SE'S	6	c/r	52	85	48	8	6	2	-	9+	10	2500	1	5
Roches Point	95·9	-22	SSE	6	rr	50	97	49	7	6	2	-	4-6	10	800	1	*

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 18th Hrs. (38)
London (Kew)	46	43	36	Tr	0·3	0·0
Croydon	50	45	42	-	0·3	0·7
S. Farnborough	47	41	41	Tr	0·4	1·7
Boscombe Down	47	43	42	Tr	0·4	0·8
Thorney Island	45	44	42	Tr	0·1	*
Lympne	48	45	44	0·1	1	0·4
Manston	46	42	41	Tr	0·3	0·0
Shoeburyness	45	38	29	Tr	0·1	0·0
Felixstowe	48	40	33	1	0·2	0·[illegible]
Gorleston	44	40	36	-	-	0·[illegible]
Mildenhall	48	39	37	Tr	Tr	1·6
Cranwell	45	38	34	-	Tr	3·9
Birmingham	47	42	41	0·3	Tr	1·3
Upper Heyford	47	41	38	0·1	0·3	*
Ross-on-Wye	46	44	43	Tr	0·2	0·2
Hartland Point	45	46	44	-	-	0·0
Bristol	48	45	42	Tr	2·2	0·0
Portland Bill	48	45	*	0·5	-	*
Plymouth	50	48	44	-	0·2	0·0
The Lizard	52	49	*	-	1	0·8
Scilly (St. Mary's)	52	48	*	-	-	1·0
Guernsey						
Pembroke	47	44	*	2	Tr	0·5
Holyhead (Valley)	51	43	39	-	0·1	*
Chester (Sealand)	46	42	38	Tr	0·1	0·0
Manchester	47	41	36	Tr	0·6	*
Spurn Head	41	39	*	Tr	Tr	0·0
Catterick	37	36	34	0·1	0·5	1·1
Tynemouth	44	39	34	-	-	*
St. Abbs Head	44	36	*	-	-	*
Leuchars	46	35	24	-	-	3·1
Renfrew (Abbots I.)	38	29	26	-	-	0·0
Eskdalemuir	42	32	29	0·2	-	3·3
Point of Ayre	45	42	*	-	0·3	1·4
Tiree	47	41	37	-	-	5·1
Stornoway	46	32	23	Tr	-	5·4
Dalwhinnie	40	24	17	-	-	3·1
Aberdeen †	47	29	21	-	-	4·0
Wick	47	30		-	-	*
Sumburgh	47	40	33	2	Tr	0·3
Blacksod Point	45	44	*	-	-	*
Malin Head	46	42	42	-	-	4·9
Aldergrove	46	42	38	-	0·1	3·1
Birr Castle	46	44	42	-	-	0·2
Valentia Obsy.	54	50	47	0·1	1	0·0
Roches Point	50	*	*	0·1	3	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 18th Jan ... 18h. G.M.T. ... 01h. G.M.T. 19th Jan ... 07h. G.M.T.

III	13h $C_L C_M$	13h $wwVhN_h$	13h DDFWN	18h $C_L C_M$	18h $wwVhN_h$	18h DDFWN	01h $C_L C_M$	01h $wwVhN_h$	01h DDFWN	07h $C_L C_M$	07h $wwVhN_h$	07h DDFWN
109	84	25354	22685	5-	22755	55685	50	01752	17213	50	01661	0001
115	47	25344	57586	87	14844	91586	54	01964	08225	50	01563	12214
203				88	02945	24645						
206	24	02961	20115	50	01863	24413	00	01890	00001	52	05661	00028
210	03	01890	21415	53	22862	53563	00	01990	00011	53	01863	00013
220	83	01844	14285	50	01753	19203				51	02754	12318
230	53	02942	00086	6-	27754	00084	04	01890	00002	07	02890	07225
245	00	02690	24215	54	02752	07117	5-	05577	28117	5-	05538	25178
260	00	05690	28123	52	02754	20325	00	08490	00040	--	48109	15149
278	53	02832	09346	53	01763	14213	53	61664	11366	5-	05658	44468
279	54	02786	04227	04	01890	32602	5-	05677	06427	50	05563	04413
285				50	00852	32202				--	57309	14159
288	03	08490	18126	00	05681	12101	5-	47238	00048	--	48109	24149
575	07	02790	00027	03	01790	00013	5-	2648	01358	5-	02758	08328
301	--	44309	12349	57	41454	08146	02	22490	09368	5-	61448	10128
321												
[illegible]	5-	05656	12116	54	01753	16113	5-	05655	12115	5-	05646	12226
292	5-	38478	00048	--	44109	00049	03	4790	00045	--	48109	00049
310										--	37109	32349
614	5-	43344	04445									

III	13h $C_L C_M$	13h $wwVhN_h$	13h DDFWN	18h $C_L C_M$	18h $wwVhN_h$	18h DDFWN	01h $C_L C_M$	01h $wwVhN_h$	01h DDFWN	07h $C_L C_M$	07h $wwVhN_h$	07h DDFWN
333	00	01790	08113	5-	02758	00028						
334	--	01752	02214				5-	05558	09328	5-	05668	06228
340	03	08490	10225	07	02690	12328	--	46309	10359	--	57309	10259
136	53	05673	08127	01	22690	18168	--	48209	12269	53	21414	12246
336	53	02754	12316	--	46209	20349				--	46209	12349
350	57	05673	14125	54	45264	08145	57	47307	10248	5-	43478	14248
368	57	08444	08326	57	05563	08316	02	08438	12158	54	05553	12423
379	07	05590	12325	5-	05537	20127				—	57109	12269
390	57	41474	00067	57	45374	00046	57	45375	12167	5-	57328	08148
382	03	08490	14245	07	08490	08128	5-	45348	00048	5-	47228	13158
438	57	02765	12315				5-	51558	14358	--	57009	20349
430	53	05655	08227	07	05690	10123	5-	05548	08323	--	67109	00049
409	5-	02628	12328	5-	02734	07428	5-	61757	14467	52	62756	12568

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 19th January. Day 7h—18h Kew and Croydon, 9h—18h Kensington 9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	bcfefw	cffw	cffwr0
Croydon	efcm0	cm0cm	cm0d0
Greenwich	cr0m	cmf⊕	cm0cr0f
Camden Square	c	o	*
Kensington	cmbc	bc	*
Hampstead	bcm	odf	of

Atmospheric Pollution, Milligrams of solid impurity per cubic metre. Kew 24 hours ended [illegible]: Max. 1·2 8·5hrs 18th; Min. Time 0·3 3·5hrs 19th

Stations	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 % Yesterday	Humidity 9h % To-day
Kew	46	43	36	Tr	0·3	0·0	*	*
Croydon	50	45	42	-	0·3	0·7	*	*
Greenwich	47	43	36	Tr	0·8	0·0	89	97
Westminster	48	41	40		0·5	*	88	89
Regents Park	48	39	36	-	0·9	*	81	97
Camden Square	44	44	34	·	0·8	·	·	97
Kensington	48	44	39	-	-	*	93	95
Hampstead	45	41	38	-	0·8	*	·	98

Page 1 **BRITISH SECTION**

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

SECRET

Wednesday 20th January 1943.

No. 23644.

OBSERVATIONS at 13h. G.M.T. 19th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	08·0	-6	SE	2	ir_o	49	92	47	5	5	7	-	9	10	1500
	Croydon	09·3	-2	SSE	2	id_o	50	92	48	6	5	7	-	7-8	10	1400
	S. Farnborough	07·7	-10	SE'S	3	c/d	49	92	47	6	5	2	-	9	10	900
	Boscombe Down	07·2	-12	SE	3	z_o	48	97	47	6	5	-	-	7-8	9+	600
	Thorney Island	08·1	-8	SE'S	3	c	50	85	47	7	5	3	1	4-6	9	4000
	Lympne	09·8	-8	SE'S	2	z_o	47	97	47	5	5	7	-	2-3	9+	600
	Manston	09·3	-4	SW	3	z_o	49	97	47	6	5	5	-	9	9+	300
2	Shoeburyness	09·8	+10	SSW	1	z_o	46	97	45	5	5	-	-	10	10	4000
	Felixstowe	09·2	0	SSW	3	f	45	92	44	2	-	-	-	10	10	<450
	Gorleston	09·3	-2	SW	1	of-	42	97	40	2	5	-	-	10	10	400
	Mildenhall	08·7	-2	S'E	2	o/r	46	97	45	5	5	-	-	10	10	2500
	Cranwell	07·9	-10	SSE	2	of-	43	97	43	3	5	-	-	10	10	3000
3	Birmingham	06·8	-8	SSE	2	m	45	92	43	4	5	7	-	9+	10	1500
	Upper Heyford	07·3	-6	ESE	2	m	46	97	45	4	5	-	-	10	10	500
4	Ross-on-Wye	05·7	-12	S'E	2	c	48	85	45	7	5	-	-	10	10	1500
5	Hartland Point	01·0	-20	SE	3	c	51	85	47	8	5	4	-	4-6	9	2000
	Bristol	06·0	-14	SSE	3	c	49	92	47	6	5	7	-	9	9+	1200
	Portland Bill	05·8	-8	S	4	c	50	92	48	8	5	7	-	7-8	10	4000
	Plymouth	02·9	-14	SSE	6	ir_o	50	97	49	7	5	7	-	4-6	10	2000
	The Lizard	00·4	-10	SSE	7	rr	50	97	50	7	5	-	-	10	10	1000
	Scilly (St. Mary's)	96·4	-22	SE'S	6	rr	51	92	49	6	5	2	-	7-8	10	800
	Guernsey															
6	Pembroke	00·8	-16	SE'E	4	c	49	92	46	8	8	2	-	7-8	10	2500
7	Holyhead (Valley)	03·5	-14	ESE	1	c-bc	50	75	43	7	5	4	6	Tr	7-8	4000
	Chester (Sealand)	06·0	-10	SE'S	1	of-	45	92	43	2	5	-	-	10	10	800
8	Manchester	06·6	-10	ESE	3	z_o	49	85	44	5	5	3	2	4-6	9	1500
10	Spurn Head	08·8	-4	E'N	1	cf	41	92	40	3	5	2	-	4-6	10	1500
	Catterick	08·6	-6	-	0	F-	38	97	38	1	-	-	-	10	10	<150
	Tynemouth	09·6	-4	S	3	of	42	97	42	3	5	-	-	10	10	2000
11	St. Abbs Head	07·4	-8	SSE	3	F	41	97	41	1	-	-	-	10	10	<150
	Leuchars	08·1	-4	E	3	o/d	41	97	41	5	5	-	-	10	10	400
12	Renfrew (Abbots I.)	07·2	-8	E	1	of-	40	92	38	3	5	-	-	10	10	500
	Eskdalemuir	07·1	-4	NNE	2	z_o	38	92	35	6	5	-	-	9+	9+	3800
	Point of Ayre	04·2	-14	SSE	5	m	45	92	44	4	5	3	-	4-6	9+	1000
13A	Tiree	04·0	-8	ESE	5	z_o	47	75	40	6	5	3	-	4-6	7-8	4000
13B	Stornoway	06·6	-2	NE	2	c	45	92	43	9	5	-	-	9	9	4500
15	Dalwhinnie	07·0	-2	S	3	c	40	85	36	6	5	7	-	4-6	9+	1500
	Aberdeen	09·2	-8	S'W	1	f-	41	97	40	3	-	-	-	10	10	<150
	Wick	08·9	+2	SSE	4	c	43	85	38	6	5	-	-	9	9	1500
16	Sumburgh	09·4	-10	E	2	c-bc	45	92	43	8	8	7	6	4-6	7-8	3000
17	Blacksod Point	93·3	-22	SE'E	5	c	50	85	46	8	5	-	-	10	10	1500
18	Malin Head	00·5	-12	SE	4	z_o	47	85	43	4	5	-	-	7-8	7-8	800
	Aldergrove	02·8	-10	SE	3	m	47	85	44	4	5	7	-	4-6	7-8	1500
19	Birr Castle	96·0	-22	SSE	4	ir_o	50	92	48	7	6	2	-	7-8	10	800
20	Valentia Obsy.	87·2	-42	ESE	6	rr	52	85	48	7	5	2	-	9+	10	1500
	Roches Point	92·5	-26	SSE	9	ir	51	92	49	6	6	2	-	4-6	10	1500

OBSERVATIONS at 18h. G.M.T. 19th January

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	08·1	+6	SE'S	2	z_o	48	92	46	5	5	-	3	9	9+	2500	1	*
Croydon	08·9	0	SSE	2	m	48	92	46	4	5	7	-	4-6	10	1000	1	*
S. Farnborough	07·8	+4	SE'S	3	z_o	47	92	46	5	5	-	-	9+	9+	2000	1	*
Boscombe Down	07·2	-2	SE	4	r_or_o	46	97	46	6	5	2	-	Tr	10	800	1	*
Thorney Island	08·2	+6	SE'S	3	r_or_o	48	92	46	6	-	2	-	0	10	-	1	*
Lympne	09·8	+2	SE'E	2	z_o	46	97	45	6	-	7	-	0	9	-	1	§3
Manston	09·2	-2	SE	3	z_o	46	97	46	5	-	5	-	0	4-6	-	1	*
Shoeburyness	09·9	+2	SE	3	z_o	42	97	41	5	-	7	-	0	4-6	-	1	*
Felixstowe	09·2	+2	SE'S	3	z_o	44	97	43	5	-	7	-	0	9	-	1	2
Gorleston	09·9	+6	SSE	1	m	46	97	45	4	5	-	-	10	10	800	0	2
Mildenhall	08·2	-2	SE	3	of+	43	97	42	3	5	7	2	7-8	9	1000	1	*
Cranwell	07·7	+2	SSE	3	F	44	97	44	0	-	-	-	10	10	<150	1	*
Birmingham	06·0	0	SE	3	of+	46	97	45	3	5	7	-	9	9+	1500	1	*
Upper Heyford	07·2	-2	SE	2	z_o	46	97	45	6	4	7	6	2-3	9	3500	1	*
Ross-on-Wye	05·1	-6	SE	3	r_o	48	85	45	7	5	2	-	2-3	10	1500	1	*
Hartland Point	99·6	-10	SE	4	:	51	85	47	7	5	1	-	4-6	9+	1500	1	3
Bristol	04·9	-10	ESE	3	ir_o	48	97	47	6	6	2	-	7-8	10	1000	1	*
Portland Bill	05·7	-8	S	4	o	49	92	48	7	5	-	-	10	10	2500	1	5
Plymouth	01·9	-6	S	5	c	51	97	50	7	5	7	-	7-8	9+	2500	1	4
The Lizard	99·1	+4	SSE	5	c	52	92	50	7	8	1	-	9	10	1500	1	5
Scilly (St. Mary's)	98·2	+8	S'E	5	c	52	92	50	6	5	4	2	1	9	1200	1	5
Guernsey																	
Pembroke	98·6	-12	SE	6	r_or_o	48	97	48	7	5	-	-	10	10	1500	1	4
Holyhead (Valley)	00·5	-18	SE'E	3	ir_o	50	75	43	7	5	7	-	4-6	10	2000	1	2
Chester (Sealand)	04·4	-10	S	3	m	47	85	43	4	5	2	-	7-8	10	2000	1	*
Manchester	05·9	+2	E'S	3	m	46	92	43	4	5	-	-	10	10	1400	1	*
Spurn Head	08·4	+2	SE	3	of+	42	97	41	2	-	2	-	10	10	<150	1	3
Catterick	07·6	-2	-	0	dF	39	97	39	1	-	-	-	10	10	<150	1	*
Tynemouth	07·7	-2	SSE	2	oF	42	97	42	0	5	-	-	10	10	800	1	3
St. Abbs Head	06·8	-2	SE	4	F	41	97	41	0	-	-	-	10	10	<150	1	3
Leuchars	06·8	-6	E	3	o/d	43	97	42	5	5	-	-	10	10	300	1	*
Renfrew (Abbots I.)	04·9	-14	E	3	m	42	92	40	4	5	-	-	10	10	1600	1	*
Eskdalemuir	05·9	-2	-	0	c	40	92	39	5	5	-	-	9+	9+	400	1	*
Point of Ayre	02·6	-6	SE'S	6	m	45	92	43	4	5	3	-	4-6	4-6	800	1	4
Tiree	01·5	-14	SE	5	b-bc	46	86	41	7	5	4	-	1	2-3	3000	1	5
Stornoway	04·7	-2	ESE	3	b	42	97	41	9	5	-	-	1	1	4500	1	1
Dalwhinnie	05·5	-2	NNW	1	o	39	92	37	6	5	-	-	10	10	800	1	*
Aberdeen	08·0	-6	SE	2	df	42	97	42	3	-	2	-	10	10	450	1	1
Wick	08·2	0	SSE	4	m	42	92	41	4	5	-	-	10	10	400	1	*
Sumburgh	09·5	-6	-	0	b	42	92	40	9	2	6	1	Tr	1	2500	1	1
Blacksod Point	89·0	-26	SE	6	c/r	50	85	48	8	6	-	-	9+	9+	1500	1	5
Malin Head	97·9	+10	E'S	5	z_o	46	85	44	5	5	-	-	9+	9+	800	2	4
Aldergrove	99·7	-12	ESE	3	m	46	85	43	4	5	-	-	10	10	1500	1	*
Birr Castle	92·6	-12	SSE	5	c	50	92	48	7	6	2	-	7-8	10	800	1	*
Valentia Obsy.	87·0	+6	SSE	6	c/r	50	75	42	8	5	2	-	4-6	9+	2500	1	4
Roches Point	91·4	+6	S'E	6	c-bc/r	51	97	50	7	6	-	-	7-8	7-8	800	1	5

PAST 24 HOURS.

Stations	Weather 7h.—13h. 19th (39)	Weather 13h.—18h. 19th (40)	Weather 18h. 19th to 1h. 20th (41)	Weather 1h.–7h. 20th (42)
London (Kew)	$ofir_om_o$	ir_obccm_o	cm_o	cm_o
Croydon	$ir_ocm_oid_o$	cr_or_ocm	cir_om_o	cm_oir_o
S. Farnborough	$cmofid_om_o$	cm_o	cir_om_oc	cir_oc
Boscombe Down	$oFid_ocm_o$	$cm_or_or_o$	$cr_or_om_ocm_o$	$cm_ocir_or_or_o$
Thorney Island	cm_oir_oc	$cm_or_or_o$	$cm_or_or_oc$	cbcc rrc
Lympne	$ofFd_or_o$	$cm_oir_om_o$	$cm_oir_om_o$	cm_oir_o cm_o
Manston	$ofd_or_om_o$	$cm_oid_obcm_o$	cm_or_o	cm_or_o
Shoeburyness	cmr_or_ocm	$cir_om_ocm_o$	cir_ocm_o	cm_o
Felixstowe	$id_ofd_od_of$	$ir_om_ocm_o$	cm_obcmc	$cir_om_ocm_o$
Gorleston	czoffe	om	ofbccfw	czow
Mildenhall	$cmr_or_ocm_o$	cm_obcmcf	$cfcmcm_o$	cm_oir_o
Cranwell	$FFid_ocf$	oir_ofoF	$oFFeir_o$	cm_o
Birmingham	fod_od_oc	cmf	cfm	cor_o
Upper Heyford	d_od_oFm	$cmir_om_o$	$r_or_om_ocm_o$	$m_ocir_om_o$
Ross-on-Wye	cm_oc	c	r_occ	c
Hartland Point	r_or_obcc	cir_o	c	cir
Bristol	cm_o	$cm_oir_om_o$	cid_or_oc	cid_ocir_oir
Portland Bill	c	orro	c	co
Plymouth	cir_o	$crrm_oc$	cpr_oc	$cirrm_o$
The Lizard	crr	orrc	cpr_oc	co
Scilly (St. Mary's)	crr	cr_oc	circ	cir_o
Guernsey				
Pembroke	c	cerrq	c	cir_o
Holyhead (Valley)	cm_obbc	c	cr_or_o	cbcc
Chester (Sealand)	Fffo	offcm	mm_oid_oo	ocm_o
Manchester	$ffmid_o$	$bccm_om$	lr_omm_o	cm_oc
Spurn Head	cf	of	ofe	cm_o
Catterick	oF	Fid_o	$d_od_oid_oF$	id_oFid_of
Tynemouth	omff	off	OFF mir	oir_o
St. Abbs Head	oF	oF	dFd	oFd
Leuchars	$omom_oid_o$	$om_oid_om_o$	omedidf	$ofeir_ocm$
Renfrew (Abbots I.)	cmcmcf	$cmcm_ocf$	$cmir_o$	$cmir_ocm_o$
Eskdalemuir	cm_o	ocm_o	bcr_oc	cm_o
Point of Ayre	cffm	cm	r_om_ocz	$czir_o$
Tiree	cz_obccz_o	czcbc	cr_or_o	$cr_or_ocir_o$
Stornoway	c	bc	bbcbw	$bcwcir_obc$
Dalwhinnie	c	cir_oo		oir_of
Aberdeen	$ffid_o$	$ffid_omddfe$	oid_om	$oid_omDDffe$
Wick	bcfgcjp	cm	cir_oc	cid_ocm_o
Sumburgh	bcc	cbcb	bcc	cid_o
Blacksod Point	c	r	r	r
Malin Head	c	c	r	r
Aldergrove	cm	cm	$cmir_or_od_oid_o$	cr_or_ocbc
Birr Castle	r	r	pr	pr
Valentia Obsy.	pr	r	r	tlr
Roches Point	r	r		r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 20th January 1943

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Moderate southerly winds; cloudy; occasional slight rain; mild.
4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England	Fresh to strong southerly winds; bright intervals, occasional thundery rain or showers; mild.
9 N. Midlands; 10 N.E. England; 11 S.E. Scotland	A 1-4.
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland	Fresh or strong southeasterly winds; cloudy, occasional slight rain at first, local thundery showers later; mild.
14 Mid Scotland; 15 N.E. Scotland	Moderate fresh southeasterly wind; cloudy, occasional slight rain; fog patches; mild.
16 Orkneys and Shetlands	As 14-15
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	As 4-8

GENERAL INFERENCE

A deep depression is centred to west of Ireland. Weather will be cloudy in the North and East with occasional light rain. In the West and Southwest there will be instability rain and local thunderstorms but also some bright intervals. Fog will persist locally in East Scotland. It will be mild.

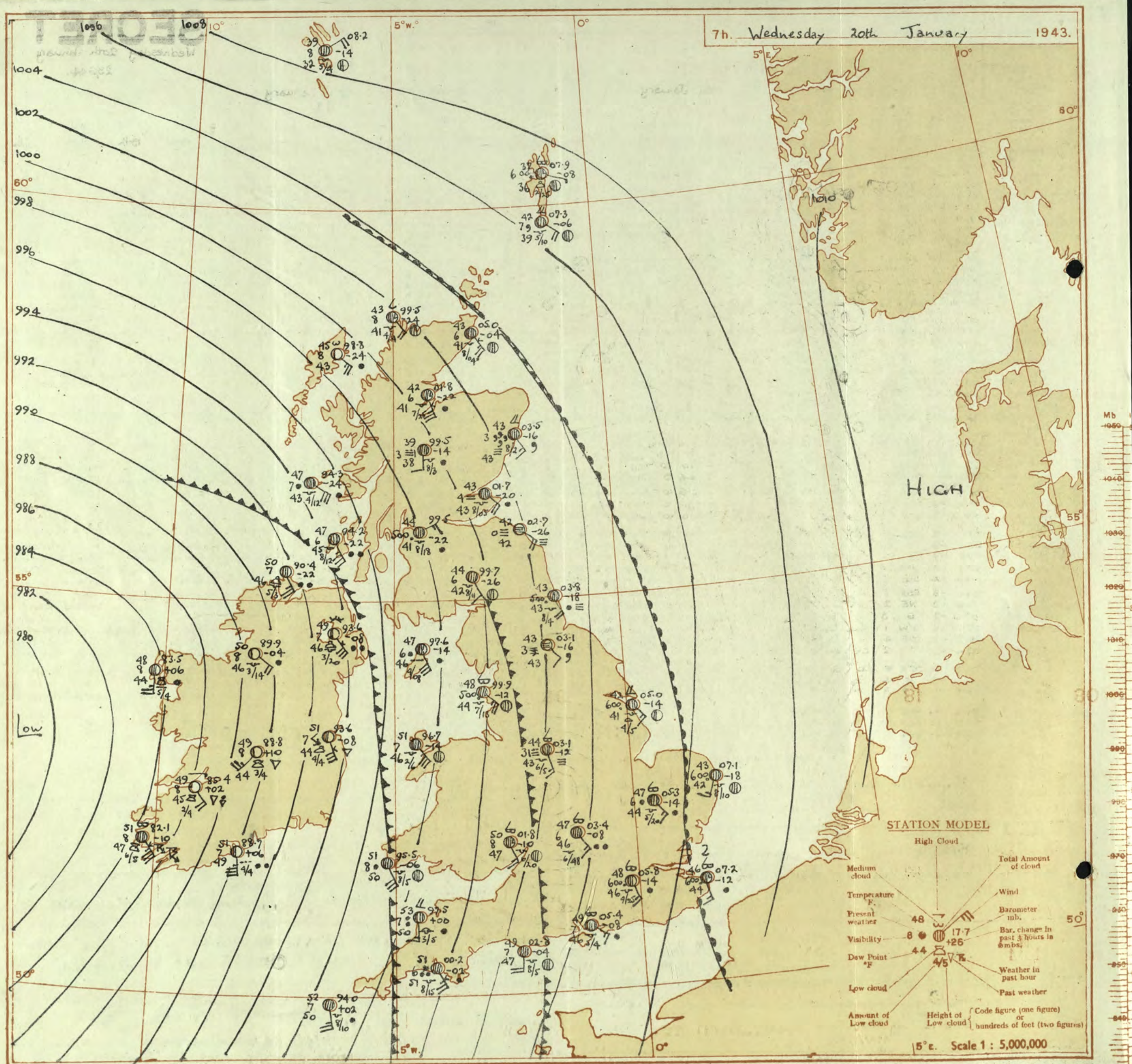
FURTHER OUTLOOK

Unsettled southerly type persisting.

✝ Gale warning in operation in districts 17,18 (part of), 20 time of issue 0140h. 19th Jan: and districts 5,6,7,12,&13A time of issue 0525 19th Jan: 1943

Forecasts issued at 10·30.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

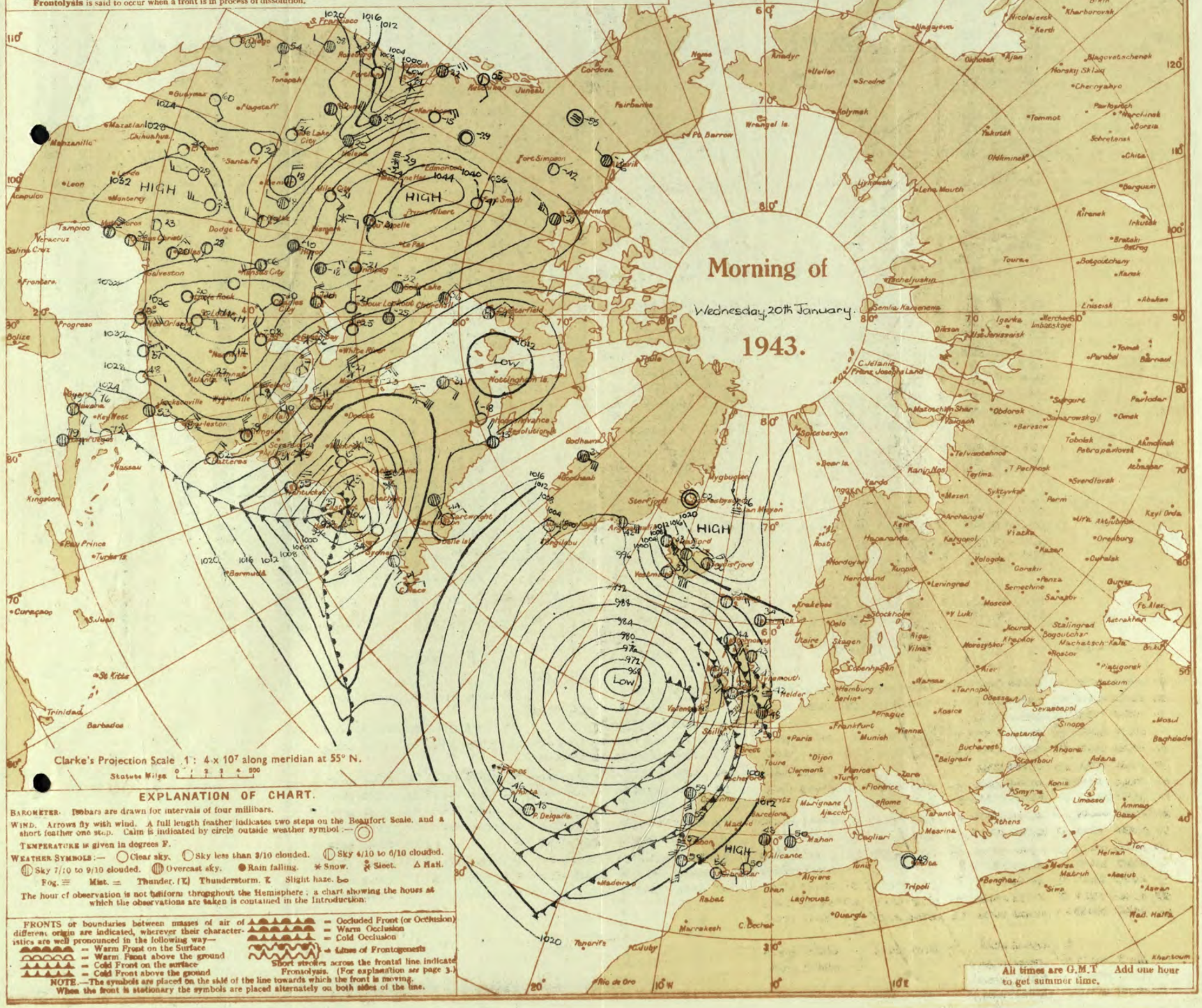
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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. (T) 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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

Page 4. BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Wednesday 20th January 1943

No. 29, 644.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	49	*	*	*	*	*	*	*	*	*
	Croydon	290	08·3	-2	S	3	Zo	48	92	46	6	S	7	-	9	10	3000
	S. Farnborough	226	06·2	-10	SE'S	4	c	48	92	45	8	S	-	-	9+	9+	3000
	Boscombe Down	417	05·4	-10	SE	4	Zo	48	85	44	6	S	2	-	7-8	9+	2500
	Thorney Island	10	06·8	-6	SE'S	3	c	49	85	45	7	S	-	-	4-6	10	4000
	Lympne	283	09·3	-2	SE	2	Zo	46	97	45	6	-	7	7	0	10	-
	Manston	154	08·8	-2	S	2	Zo	46	92	44	6	-	3	-	0	9+	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	08·9	-4	ESE	4	Zo	44	97	43	5	-	3	-	0	9+	-
	Gorleston	5	09·5	-4	S'E	3	Zo	42	92	40	5	S	-	-	9+	9+	1500
	Mildenhall	15	07·6	-6	SE'S	2	Zo	44	92	42	5	S	3	-	1	9+	3000
	Cranwell	203	06·5	-8	S'E	4	f-	44	97	44	3	-	-	-	10	10	<150
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	05·5	-10	SSE	2	Zo	45	97	44	6	S	-	-	10	10	5700
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	98·4	-14	SSE	4	c	52	92	49	7	4	3	-	1	9	2500
	Bristol	209	03·8	-14	SE	3	c	49	85	46	7	S	7	-	Tr	10	2500
	Portland Bill	32	04·3	-12	ESE	4	c	49	92	47	7	S	-	-	10	10	4000
	Plymouth	82	01·2	-6	SSE	5	c	52	97	51	7	S	3	7	2-3	10	2500
	The Lizard	240	97·5	-8	SE'S	6	c/pr	52	97	52	8	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	93·4	-22	SE'S	7	c/r	53	85	50	6	S	-	-	10	10	1000
	Guernsey	175															
6	Pembroke	142	96·4	-10	SE	6	c	50	92	50	8	S	1	-	10	10	2500
7	Holyhead (Valley)	32	98·9	-6	SE	5	c	51	75	45	7	S	3	-	4-6	9+	2500
	Chester (Sealand)	16	02·0	-18	SE	2	c	48	85	45	6	S	-	-	10	10	1500
8	Manchester	235	03·5	-14	SE	4	Zo	48	85	45	6	S	3	-	7-8	9+	2100
10	Spurn Head	29	07·4	-10	SE'S	4	oF	42	97	42	1	S	-	-	10	10	2500
	Catterick	175	05·8	-12	S	2	F-	43	97	43	1	-	-	-	10	10	<150
	Tynemouth	108	06·8	-10	S	3	iro	42	97	42	6	-	2	-	10	10	1500
11	St. Abbs Head	280	05·3	-12	SE	4	dF	42	97	42	0	-	-	-	10	10	<150
	Leuchars	36	05·1	-14	SE	3	F	43	97	43	2	-	-	-	10	10	<150
12	Renfrew (Abbots I.)	19	02·6	-14	E	3	iro	43	92	41	4	S	2	-	7-8	10	1800
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	99·8	-14	SSE	6	Zo	46	97	45	5	S	-	-	9+	9+	1000
13A	Tiree	44	98·9	-14	SE	6	roro	46	97	45	7	S	-	-	10	10	2500
13B	Stornoway	15	02·8	-10	ESE	4	b-bc	44	97	43	8	-	4	1	0	2-3	-
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	06·5	-12	SE	2	Zo	42	92	40	5	S	-	-	10	10	600
	Wick	114	06·7	-16	SE	4	c	43	92	42	7	S	1	-	4-6	10	500
16	Sumburgh	19	09·0	-4	SE'S	2	c	43	85	38	8	S	7	-	7-8	10	3000
17	Blacksod Point	18	86·9	-22	SE'E	5	c	49	85	45	8	S	-	-	9	9	1500
18	Malin Head	84	95·0	-6	SE	4	c-bc	49	85	45	7	S	-	-	7-8	7-8	800
	Aldergrove	268	07·1	-14	ESE	4	m	48	92	46	4	S	-	-	9+	9+	1500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	83·0	-34	SSE	5	pr	48	92	46	7	6	7	-	7-8	9+	2500
	Roches Point	22	86·6	-46	SE	7	ir	51	97	50	7	6	2	-	4-6	9+	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	04·8	-10	SSE	2	Zo	48	85	45	6	S	3	S	7-8	9+	4000	1	*
Croydon	05·8	-14	SSE	3	Zo	48	92	46	6	S	7	-	4-6	7-8	2500	1	*
S. Farnborough	04·4	-8	SE'S	4	c	48	92	46	8	S	7	-	7-8	9+	5000	1	*
Boscombe Down	04·0	-6	SE'E	3	roro	47	97	47	7	S	7	-	7-8	10	2500	1	*
Thorney Island	05·4	-8	ESE	3	c	49	85	46	7	S	7	-	7-8	10	1500	1	*
Lympne	07·2	-10	SE'E	2	Zo	47	92	45	6	-	7	8	0	9+	-	1	§3
Manston	07·2	-12	S'E	3	Zo	46	92	44	6	-	7	6	0	9+	-	1	*
Shoeburyness	06·7	-12	SSW	3	c	46	85	42	6	-	3	-	0	9+	-	1	
Felixstowe	07·1	-30	SE'S	3	Zo	42	97	41	5	S	7	-	2-3	9	2500	1	3*
Gorleston	07·1	-18	SSW	3	Zo	43	97	42	6	S	-	-	10	10	1000	1	3
Mildenhall	05·3	-14	SE'S	3	iro	47	92	44	6	S	7	-	7-8	10	2000	1	*
Cranwell	04·2	-10	S	4	Zo	43	97	43	6	S	7	-	2-3	10	900	1	*
Birmingham	03·0	-4	SSE	3	roro	47	92	45	6	6	-	-	10	10	800	1	*
Upper Heyford	03·4	-8	SSE	3	c/r	47	97	46	6	S	7	-	7-8	10	4800	1	*
Ross-on-Wye	0·8	-10	S'E	3	c	50	92	47	8	S	7	-	9	9+	2000	1	*
Hartland Point	97·5	0	S	3	ir	53	92	50	7	4	2	-	2-3	10	2500		4
Bristol	02·3	-6	SE	3	c/r	51	92	49	7	S	7	-	4-6	9+	2500	1	
Portland Bill	02·8	-4	S	4	o	49	92	47	7	S	-	--	10	10	2500	1	5*
Plymouth	00·2	-2	SSE	5	rr	51	97	51	6	S	-	-	10	10	1500	1	4
The Lizard	97·0	-6	SSE	7	o	52	97	52	6	S	-	-	10	10	1500	1	5
Scilly (St. Mary's)	94·0	+2	SE	5	c	52	92	50	7	S	-	-	10	10	1000	1	6
Guernsey																	
Pembroke	95·5	-6	SSE	6	iro	51	97	50	8	S	-	-	10	10	2500	1	4
Holyhead (Valley)	96·7	-4	SSE	7	c	51	85	46	7	S	7	-	1	10	4000	1	4
Chester (Sealand)	00·6	-2	S	3	c	49	85	45	6	S	-	-	10	10	1700	1	*
Manchester	01·5	-10	ESE	4	c	48	92	45	7	S	2	-	4-6	10	1700	1	*
Spurn Head	05·0	-14	SE'S	3	Zo	42	97	41	6	7	2	-	4-6	10	2500	1	3
Catterick	03·1	-16	SSE	2	df	43	97	43	3	-	-	-	10	10	<150	1	*
Tynemouth	03·8	-18	SSE	4	o/f	43	97	43	S	S	-	-	10	10	1500	1	3*
St. Abbs Head	02·7	-26	SE	4	F	42	97	42	0	-	-	-	10	10	<150	1	3
Leuchars	01·7	-20	SE	4	m	43	97	43	4	S	-	-	10	10	500	1	*
Renfrew (Abbots I.)	99·5	-22	ENE	3	Zo	44	92	41	5	S	-	-	10	10	1800	1	*
Eskdalemuir	99·7	-26	SSE	2	c	44	92	42	6	S	-	-	10	10	1100	1	*
Point of Ayre	97·6	-14	SSE	6	iro	47	92	46	6	6	2	-	4-6	10	800	1	4
Tiree	94·3	-24	ESE	6	iro	47	85	43	7	S	-	-	4-6	10	1200	1	6
Stornoway	98·8	-24	ESE	5	b-bc	45	97	43	8	-	3	-	0	2-3	-	1	3
Dalwhinnie	99·5	-14	S	2	of	39	97	38	3	S	-	-	10	10	800	1	*
Aberdeen †	03·5	-16	SE'S	3	df	43	97	43	3	-	2	-	10	10	450	1	
Wick	05·0	-4	SE'E	5	c	43	92	41	6	S	-	-	10	10	400	1	
Sumburgh	07·3	-6	ESE	4	ido	42	92	39	7	S	2	-	7-8	10	1000		2*
Blacksod Point	83·5	+6	S	5	c-bc	48	85	44	8	9	-	-	7-8	7-8	1500		4
Malin Head	90·4	-22	SE'S	5	c-bc/r	50	85	46	7	8	-	-	7-8	7-8	800		4
Aldergrove	93·6	-8	SSE	4	bc/r	49	92	46	7	8	6	-	2-3	4-6	2000		*
Birr Castle	88·8	+10	SW	5	b-bc	49	85	44	8	3	-	-	2-3	2-3	1500	1	*
Valentia Obsy.	82·1	-10	SSE	7	c/TLR	51	75	47	8	3	7	-	9	10	2500		5
Roches Point	88·7	+[illegible]	S	7	bc/r	51	92	49	7	6	-	-	4-6	4-6	1500		6*

PAST 24 HOURS

Stations	Temperature Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 19th Hrs. (38)
London (Kew)	51	47	42	0·1	-	0·4
Croydon	50	46	48	0·5	0·2	0·0
S. Farnborough	49	46	43	Tr	0·1	0·0
Boscombe Down	48	45	42	0·1	0·3	0·0
Thorney Island	50	45	43	Tr	Tr	*
Lympne	48	45	41	0·6	0·1	0·3
Manston	49	45	41	0·5	0·1	0·0
Shoeburyness	47	41	34	2	0·2	0·0
Felixstowe	47	41	37	1	0·2	[illegible]
Gorleston	48	41	37	Tr	-	0·0
Mildenhall	46	41	37	0·3	Tr	0·0
Cranwell	44	43	40	Tr	0·2	0·0
Birmingham	46	45	41	1	0·6	0·0
Upper Heyford	47	45	43	0·4	0·3	*
Ross-on-Wye	49	48	44	Tr	0·1	0·0
Hartland Point	51	50	47	1	Tr	0·9
Bristol	50	46	42	0·1	1	0·0
Portland Bill	50	50	*	1	-	*
Plymouth	51	49	49	6	1	0·0
The Lizard	52	51	*	3	2	0·0
Scilly (St. Mary's)	55	52	*	5	Tr	0·0
Guernsey						
Pembroke	49	48	*	4	0·5	0·0
Holyhead (Valley)	53	48	46	Tr	-	*
Chester (Sealand)	47	47	43	0·2	0·1	0·0
Manchester	49	46	41	0·2	0·4	*
Spurn Head	42	41	*	-	Tr	0·0
Catterick	39	39	38	Tr	0·4	0·0
Tynemouth	42	41	39	-	0·4	*
St. Abbs Head	44	41		-	0·3	
Leuchars	43	42	41	0·1	Tr	0·0
Renfrew (Abbots I.)	42	41	38	-	0·3	0·0
Eskdalemuir	40	37	33	-	1	0·0
Point of Ayre	47	44	*	-	2	1·0
Tiree	47	45	42	-	0·3	0·9
Stornoway	46	40	33	-	0·4	0·5
Dalwhinnie	40	39	34	0·2	0·1	0·0
Aberdeen †	42	42	40	Tr	0·5	0·0
Wick	43	41	41	-	Tr	*
Sumburgh	45	39	30	-	-	1·9
Blacksod Point	51	46	*	0·3	4	
Malin Head	47	45		-	0·1	0·7
Aldergrove	48	45	43	-	2	0·0
Birr Castle	50	46	43	4	8	0·0
Valentia Obsy.	53	48	44	7	9	0·1
Roches Point	52	50	*	5	4	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

IIIC_L C_M (13h. G.M.T. 19th Jan)	wwVhN_h	DDFWN	C_L C_M (18h. G.M.T.)	wwVhN_h	DDFWN	C_L C_M (01h. G.M.T. 20th Jan)	wwVhN_h	DDFWN	C_L C_M (07h. G.M.T.)	wwVhN_h	DDFWN
109 90	01864	12215	52	02654	13328	52	02655	13328	52	51645	10428
115 54	09864	12424	55	02854	12327	74	09854	12325	54	02844	12425
203 5-	02946	12326	20	02953	12323						
206 5-	04664	24115	40	08463	00013	5-	05464	00024	5-	02657	14567
210 03	05690	22112	04	01690	10241	53	02845	10426	52	02745	11368
220 57	01854	12315	43	06753	12314				57	02754	094·8
230 53	02765	08226	53	02764	00025	5-	21667	08257	5-	05658	10168
245 5-	21538	02158	5-	52528	08358	5-	05518	10328			
260 5-	43147	00047	--	46309	08149	5-	45348	00048	5-	45348	00048
278 5-	05538	13328	52	05538	47428	52	08437	14568	52	62647	45528
279 57	05545	07427	53	05562	08326	03	05590	06368	54	05643	99545
285 --	48109	10349	--	57109	12359				--	57109	08359
288 --	46109	20149	53	43264	14147	5-	61448	14368	5-	22445	14265
575 57	02846	12328	62	61734	09468	5-	02747	07327	50	01843	12463
301 --	44209	09259	5-	08428	12458	53	05566	47586	57	05547	12528
321											
2??			5-	05546	14216	--	46007	20249	5-	05655	20225
292 --	46109	00049	5-	43358	12148	--			5-	08438	10248
310 --	46109	08359	--	57109	20859						
614 5-	46108	08048	5-	45158	10148						

IIIC_L C_M (13h. G.M.T. 19th Jan)	wwVhN_h	DDFWN	C_L C_M (18h. G.M.T.)	wwVhN_h	DDFWN	C_L C_M (01h. G.M.T. 20th Jan)	wwVhN_h	DDFWN	C_L C_M (07h. G.M.T.)	wwVhN_h	DDFWN
333 57	02864	10327				5-	02744	45427	52	02755	14428
334 --	05545	16116	--	03646	12228						
340 --	46309	12249				57	05546	14568	52	05646	12327
136 5-	05557	20167	--	46109	15249	03	05590	13346	57	22663	14368
336 57	02754	12328	52	22655	12468						
350 52	08435	14248	5-	43324	14248	57	08465	13248	57	22566	14368
368 53	01644	08325	52	61645	12462	52	02644	14427	52	02645	12427
379			5-	61429	14428	5-	05624	14325	57	-1·25	14388
390 57	46245	14247	53	45324	12246	04	05590	14228	57	05555	14228
382 5-	61628	13368	57	05645	14328	0			57	05665	14327
438 5-	05656	16216	57	02645	18327	8-	61757	17387	8-	05647	16387
430 5-	05635	10127	51	22546	09267	5-	05655	14368	5-	05658	10428
409 52	62737	13528	81	02746	15568	53	02744	14727	52	22746	49668

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 20th January.
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	ofirm	irbccm	cmcm
Croydon	ircmid	crcm	cifm
Greenwich	cfcrm	cirm	circlik
Camden Square	o	e	*
Kensington	omdbc	dco	*
Hampstead	of	bc	orbc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0·5 Time 19h. Min. <0·1 Time 08h 20th.

Stations	Temperature Day Max °F	Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs (Yesterday)	Humidity 15h % (Yesterday)	Humidity 9h % (To-day)
Kew	51	47	42	0·1	-	0·4	*	*
Croydon	50	46	48	0·5	0·2	0·0	*	*
Greenwich	50	46	37	0·3	0·3	0·2	93	86
Westminster	52	46	40		0·2		88	85
Regent's Park								
Camden Square	50	49	39	-	Tr	*	88	
Kensington	52	47	40	Tr	Tr		91	84
Hampstead	49	45	41	-	0·3		91	

SECRET

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

BRITISH SECTION

Thursday 21st January 1943

No. 29645

OBSERVATIONS at 13h. G.M.T. 20th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	02·8	-14	SSE	3	zo	51	75	45	6	5	7	5	7-8	9+	4000
	Croydon	04·2	-14	SSE	3	c	52	85	46	6	5	7	-	10	10	3500
	S. Farnborough	02·6	-18	SSE	4	c	50	85	46	7	5	2	-	9	10	2000
	Boscombe Down	02·8	-10	SE'S	4	c/d	50	97	39	6	6	2	-	7-8	10	800
	Thorney Island	03·9	-14	SSE	4	c/d	49	85	46	7	5	7	-	4-6	9+	2500
	Lympne	05·5	-18	SE'S	2	c	48	92	47	8	-	7	7	0	10	-
	Manston	04·6	-24	SW	3	c	50	85	45	7	-	9	4	0	9+	-
2	Shoeburyness	05·6	-10	SSE	2	c	48	85	43	8	5	1	-	4-6	9+	4000
	Felixstowe	04·2	-30	SE'S	4	zo	45	92	43	6	5	7	-	7-8	9+	5700
	Gorleston	05·6	-14	SSE	4	zo	43	92	40	6	5	7	-	4-6	9	1800
	Mildenhall	03·5	-18	SSE	3	c	49	85	44	7	-	7	-	0	10	-
	Cranwell	03·1	-10	S'W	4	iro	46	92	44	5	5	-	-	10	10	3000
3	Birmingham	00·9	-14	SSE	3	++	47	97	46	6	6	-	-	10	10	800
	Upper Heyford	01·1	-22	SSE	3	ito	49	92	46	6	5	2	-	7-8	10	900
4	Ross-on-Wye	00·3	-8	SSE	3	c/+	50	97	49	7	5	1	-	9	10	1500
5	Hartland Point	97·1	+2	S	4	c	54	85	51	8	2	-	5	4-6	9	1700
	Bristol	01·3	-12	S'W	3	c/+	50	97	49	7	6	7	-	2-3	10	1500
	Portland Bill	02·6	-6	S	4	c	50	92	48	7	5	-	-	10	10	2500
	Plymouth	99·7	0	SSE	5	zo	53	97	52	6	5	7	-	9+	10	1000
	The Lizard	97·7	0	S'W	5	c	53	97	52	7	5	2	-	7-8	9+	1500
	Scilly (St. Mary's)	95·4	-4	S'E	5	c	54	85	51	6	8	-	-	9	9	800
	Guernsey															
6	Pembroke	96·2	+4	SE'E	4	bc	51	97	50	6	2	3	-	2-3	4-6	2500
7	Holyhead (Valley)	96·4	-14	SSE	5	c/pr	50	92	49	8	8	-	-	9+	9+	2000
	Chester (Sealand)	98·8	-14	SE	3	c	51	92	48	6	5	2	-	7-8	10	1500
8	Manchester	99·8	-18	E'S	5	toto	50	92	48	6	5	7	-	4-6	9+	2500
10	Spurn Head	03·2	-14	SE'S	4	zo	42	97	41	6	7	2	-	7-8	10	1700
	Catterick	01·6	-16	S	3	+f	44	97	44	2	-	-	-	10	10	<150
	Tynemouth	02·1	-16	SSW	3	+	46	97	45	4	5	-	-	10	10	800
11	St. Abbs Head	00·3	-10	SE	3	cF	43	97	43	0	-	-	-	10	10	<150
	Leuchars	99·1	-22	ESE	3	m	44	97	43	4	5	-	-	10	10	300
12	Renfrew (Abbots I.)	97·6	-18	E'N	3	*f	46	92	44	3	5	2	-	7-8	10	800
	Eskdalemuir	98·3	-14	SSE	3	++	47	92	45	6	-	2	-	10	10	900
	Point of Ayre	96·1	-16	S'E	6	++	48	97	48	6	6	2	-	7-8	10	800
13A	Tiree	92·8	-6	SE	5	zo	48	92	46	6	5	7	-	7-8	10	2500
13B	Stornoway	95·7	-8	ESE	4	c	46	97	46	7	5	7	-	7-8	9	4000
15	Dalwhinnie	97·0	-6	SW	2	iro	41	92	40	4	5	-	-	10	10	800
	Aberdeen	01·3	-20	SSE	3	dodo	44	97	44	4	-	2	-	10	10	450
	Wick	01·4	-10	SE	3	zo	44	92	43	6	5	-	-	10	10	700
16	Sumburgh	05·6	-10	ESE	6	c/+	43	92	41	6	3	-	-	10	10	1500
17	Blacksod Point	82·8	-2	S'E	6	++	48	85	44	7	6	2	-	4-6	10	1500
18	Malin Head	89·4	-8	SE'E	5	c-bc	51	78	44	8	8	-	-	4-6	7-8	1500
	Aldergrove	92·3	-10	SSE	6	c-bc	53	85	48	8	8	7	-	4-6	7-8	2500
19	Birr Castle	89·4	-2	SSW	3	c	53	65	·	8	5	1	-	7-8	10	2500
20	Valentia Obsy.	84·9	+8	S	7	iro	51	85	47	7	6	-	-	10	10	2500
	Roches Point	90·2	+6	S	6	b-bc	52	85	44	8	5	-	-	2-3	2-3	1500

OBSERVATIONS at 18h. G.M.T. 20th January

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	02·4	-6	ESE	3	roro	49	92	47	6	6	2	-	7-8	10	1500	1	•
Croydon	03·9	0	SSE	3	toto	49	92	47	5	5	-	-	10	10	1600	1	•
S. Farnborough	02·2	-2	SSE	3	RR	49	97	48	5	5	-	-	10	10	800	1	•
Boscombe Down	02·0	-2	S'E	3	++	48	97	48	6	-	2	-	10	10	300	1	•
Thorney Island	02·8	-2	SSE	3	++	48	97	47	5	5	-	-	4-6	10	1200	1	•
Lympne	04·4	-6	SE	2	c	48	85	45	7	-	7	-	0	9+	-	1	3
Manston	03·9	-4	SSW	3	c/+	49	85	44	6	5	9	-	4-6	9	6000	1	•
Shoeburyness	04·5	-6	SSE	2	zo	48	85	44	6	5	1	-	9	10	4000	1	•
Felixstowe	03·5	-2	SE'S	2	zo	43	92	41	5	5	-	-	10	10	2700	1	3
Gorleston	03·8	-10	S'E	3	m	44	97	43	6	5	-	-	9+	9+	1500	1	3
Mildenhall	02·0	-6	SSE	3	toto	49	85	45	6	5	7	-	7-8	10	4000	1	•
Cranwell	01·1	-6	S	3	m	46	97	46	4	-	2	-	0	10	-	1	•
Birmingham	00·0	-2	SSE	2	cf+	48	97	47	3	6	-	-	10	10	800	1	•
Upper Heyford	00·8	-2	S	2	toto	48	97	47	5	5	-	-	10	10	400	1	•
Ross-on-Wye	99·2	-6	S'E	3	ido	50	92	48	6	6	2	-	2-3	10	800	1	•
Hartland Point	95·5	-12	SE	4	c/+	52	92	50	7	8	2	-	4-6	9+	1500	1	4
Bristol	00·1	-2	S'W	3	c/+	51	92	49	6	6	2	-	7-8	10	800	1	3
Portland Bill	01·5	-6	S	4	++	49	92	47	7	5	-	-	10	10	2500	1	5
Plymouth	99·8	-20	SSE	5	zo	52	92	52	6	5	7	-	7-8	10	1200	1	4
The Lizard	95·0	-20	S'E	6	c	52	97	51	7	8	2	-	7-8	9+	1500	1	5
Scilly (St. Mary's)	91·5	-26	SSE	6	i+	52	97	51	6	6	2	-	7-8	10	500	1	4
Guernsey																	
Pembroke	94·6	-8	SE	4	c	50	97	50	7	8	2	-	7-8	9+	2500	1	3
Holyhead (Valley)	96·0	-6	SSE	5	bc	49	92	47	7	8	-	-	4-6	4-6	2500	1	4
Chester (Sealand)	98·6	+2	SSE	1	zo	51	85	47	5	5	2	-	7-8	10	500	1	•
Manchester	99·7	-2	ESE	3	zo	49	92	47	5	5	7	-	9	10	1100	1	•
Spurn Head	01·8	-6	SE'S	3	zo	43	92	41	5	5	-	-	10	10	1500	1	2
Catterick	00·0	-4	SE	2	cF	46	97	46	2	-	-	-	10	10	<150	1	•
Tynemouth	00·0	0	S	4	m	47	97	46	4	5	-	-	10	10	1500	1	3
St. Abbs Head	98·1	-8	S	3	fs	43	97	43	3	5	-	-	4-6	4-6	3000	1	3
Leuchars	97·4	-4	-	0	cF+	43	97	43	2	5	3	-	7-8	9	2000	1	•
Renfrew (Abbots I.)	96·2	-4	E'S	1	m	48	97	47	4	5	7	-	2-3	7-8	1000	1	•
Eskdalemuir	97·1	0	SSE	2	c	46	92	45	6	5	-	-	9+	9+	700	1	•
Point of Ayre	96·1	0	S'W	5	c	49	92	47	8	9	-	-	9+	9+	1500	1	4
Tiree	92·3	+4	SSE	5	c-bc	48	92	46	7	5	3	5	1	7-8	4000	1-	5
Stornoway	95·0	-6	ESE	4	iro	47	97	47	6	-	2	-	7-8	9+	3000	1	3
Dalwhinnie	96·5	-12	SSE	3	c	42	85	39	7	5	-	-	9+	9+	500	1	•
Aberdeen	98·3	-12	S	2	cF	45	97	45	2	-	-	-	10	10	<150	1	2
Wick	97·9	-14	SE	4	toto	44	97	44	5	5	-	-	10	10	400	1	•
Sumburgh	02·9	-16	ESE	6	iro	43	97	42	6	5	2	-	9+	10	800	1	4
Blacksod Point	85·9	+16	S	7	c	50	85	46	7	9	-	-	9	9	1500	2	5
Malin Head	89·4	+8	SE	4	bc	48	85	44	8	8	-	-	4-6	4-6	1500	2	3
Aldergrove	92·7	+6	SSE	4	bc	47	85	44	7	4	4	2	Tr	4-6	2500	1	•
Birr Castle	90·1	+6	SSW	3	c-bc	50	85	46	8	5	-	-	7-8	7-8	2500	1	•
Valentia Obsy.	88·0	+16	S'W	4	c	49	92	47	8	8	7	-	7-8	9+	2500	1	3
Roches Point	90·9	+6	S	5	ir	50	92	48	7	6	2	-	4-6	9+	1500	1	5

PAST 24 HOURS. WEATHER.

Stations	7h.–13h. 20th (39)	13h.–18h. 20th (40)	18h. 20th to 1h. 21st (41)	1h.–7h. 21st (42)
London (Kew)	cmo	croro	crorr cro c	cbcbmo
Croydon	irocmo	cmocmid	cmoiro	cmoiro
S. Farnborough	cmoiroc	cmidirroR	cmocir	ciro
Boscombe Down	crodocmo	[illegible]	crorocmo	bcb bccb
Thorney Island	cmoirocido	cido++mo	rrrobc	bcmobcb
Lympne	cmoirgc	c	cmoc	cbbcc
Manston	cmo	czomiro	cmoroor	cbcirob
Shoeburyness	ciromoc	ccmo	ciromo	cirobcmo
Felixstowe	cmo	ciromocm	crorom ocm	cmobmo
Gorleston	czo	coprocz o	corrzo	bczob
Mildenhall	cmororoc	ccroromo		bcprobcb
Cranwell	ciromo	cmocm	crorom o	cmobcmorrcmo
Birmingham	oi+	roofdo	foro	pmbc
Upper Heyford	cmo	cmocroro	rorocmoc	probcc
Ross-on-Wye	++	codoc	cer	crqe
Hartland Point	crc	cirocC	cirrbcpr	cbc
Bristol	ccmo++croro	ccir o+cmo	cbcc	cpromocbc
Portland Bill	prrc	of+	c	cbc
Plymouth	crorocmo	cmororocmo	cirproc	cbcbbc
The Lizard	pc	cidpr	cprbc	bc
Scilly (St. Mary's)	cbcc	coir	cRc	cbcb
Guernsey				
Pembroke	cqproh	c	cbcprcq	bccq
Holyhead (Valley)	crmo	bcjp	bcprirc	cirom o
Chester (Sealand)	cmororo	bcbmo	cmoroor+	bcproc
Manchester	crorom o	totomo	cmoiro	irirom o
Spurn Head	cmo	om	fe	bc
Catterick	idoo++f	o++fof	oF	ofcpro
Tynemouth	om+	om	om	omoir
St. Abbs Head	F	F+fbcf	bcfcmo	crrF
Leuchars	ommomom	pfecfe	cfFe	crofrrfe
Renfrew (Abbots I.)	cmfrocrf	cfrorocfcm	cmcf	fRRmo
Eskdalemuir	c+o++	o+ciroR	cmo	crorr
Point of Ayre	c++	++c	crr	rrcprrry
Tiree	circmo	cirobc	bcprc	crorr
Stornoway	bccirоc	crrorom o	croroc	bcc
Dalwhinnie	oRmo	om++c		cbciro o
Aberdeen	omdfcdodo	offdodofdof	fFF	FFrr
Wick	cmmo	croro	cmo	cmopF
Sumburgh	cirocmo	cirocroro	rroor	dorfdodo
Blacksod Point	+	+	pr	c
Malin Head	+	c	c	r
Aldergrove	cproc	bc	bccmoprcwo	cirocmo
Birr Castle	pr	c	•	pr
Valentia Obsy.	pr	pr	pr	tlr
Roches Point	bc	+	r	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 21st January

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands	Light southwest winds backing southeast to east fresh locally on south coast later, finally southwesterly; fine today and this evening; then dull and rainy, improving slowly tomorrow; mainly rather mild.
4 W. Midlands, 5 S.W. England, 6 South Wales, 7 North Wales	Winds southwest to west moderate or fresh, decreasing, finally north to northeast; mainly fair or fine apart from a few coastal showers; rather mild today, somewhat colder tomorrow.
8 N.W. England, 9 N. Midlands, 10 N.E. England	Moderate westerly wind, falling light variable or calm; mainly fine; fog forming during the night rather generally, mild today, frost locally tonight
11 S.E. Scotland	Light variable wind; dull with rain at first, becoming mainly fine but with fog at night; mild today, frost locally tonight.
12 S.W. Scotland & Isle of Man	As 8-10
13A W. Scotland, 13B N.W. Scotland	Light southwest winds, considerable fair periods, a few local showers, mainly rather mild; ground frost locally at night.
14 Mid Scotland, 15 N.E. Scotland	Calm to light variable or westerly winds; dull and rainy, finer conditions spreading to the southern part of area; rather cold.
16 Orkneys and Shetlands	As 14-15.
17 N.W. Ireland, 18 N.E. Ireland, 19 S.E. Ireland, 20 S.W. Ireland	As 13A -13B

GENERAL INFERENCE

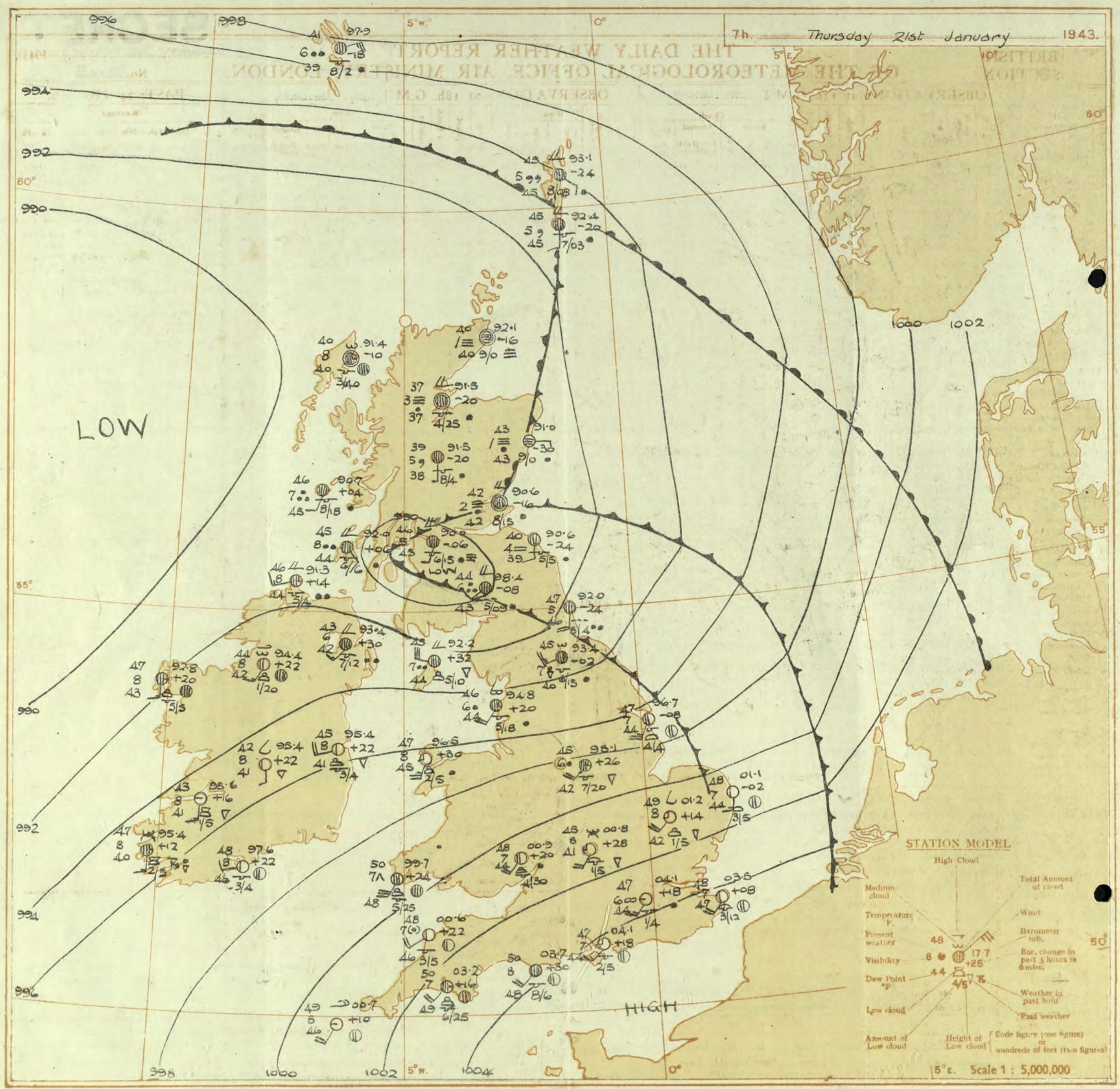
A small depression over Scotland is moving eastnortheast and a rather feeble ridge of high pressure is crossing the country, but a new depression off Portugal will move up to Southeast England. There will be rain in East Scotland at first but elsewhere the day will be mainly fine. Rain from the southwest will spread to the Southeast half of England tonight.

FURTHER OUTLOOK

The general situation remains very disturbed but there will be considerable fair to fine periods in many districts tomorrow except perhaps in East England

Forecasts issued at 1030

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable

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

Explanation of Frontal Lines shown on Charts.

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Thursday 21st January 1943

No. 29645

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	°F. Dew Point (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Med. (11)	High (12)	Amount Low 0–10 (13)	Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	48	*	*	*	*	*	*	*	*	*
	Croydon	290	02·1	-10	S'E	4	ir.	50	92	48	6	5	-	-	9	9	1500
	S. Farnborough	226	00·0	-12	SSW	4	ir.	50	92	48	7	5	-	.	9+	9+	800
	Boscombe Down	417	99·7	-10	S	5	z.	50	92	48	6	5	2	-	7-8	10	1000
	Thorney Island	10	01·9	-6	S'W	4	bc	49	92	47	7	5	4	-	2-3	4-6	4000
	Lympne	283	03·5	-6	SE	1	c	46	97	45	7	1	1	.	4-6	9+	2000
	Manston	154	02·8	-10	S'W	3	c	47	92	45	7	5	7	6	2-3	9+	3500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	02·4	-4	S'W	4	z.	44	97	43	6	-	3	.	0	9	-
	Gorleston	5	02·1	-8	S'W	4	c/r	47	92	45	6	6	-	-	10	10	800
	Mildenhall	15															
	Cranwell	203	99·1	-18	S	4	z.	48	97	47	5	5	-	.	4-6	10	3000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	98·4	-14	SSW	4	c	50	92	47	7	8	7	.	4-6	9	700
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	94·8	+12	W	5	c-bc/pr	48	92	47	7	2	6	.	4-6	7-8	1500
	Bristol	209	98·2	-16	S	3	pr	51	85	47	7	3	-	-	9	9	2500
	Portland Bill	32	00·3	-6	SW	4	c	50	92	48	7	2	-	.	9	9	4000
	Plymouth	82	98·2	+6	SW	5	c	49	97	49	7	8	-	.	9+	9+	4000
	The Lizard	240	98·1	+30	SW	6	bc	48	85	44	8	8	-	.	4-6	4-6	1500
	Scilly (St. Mary's)	163	96·5	+26	W	6	c-bc	49	85	44	8	8	6	-	7-8	7-8	1200
	Guernsey	175															
6	Pembroke	142	93·1	0	SW'W	7	c-bc/pr	47	92	44	7	8	6	-	4-6	7-8	2500
7	Holyhead (Valley)	32	90·8	-30	SE	7	b	50	75	44	7	-	3	.	0	Tr	-
	Chester (Sealand)	16	94·6	-22	SSW	2	b-bc/r	49	92	47	7	2	4	.	1	2-3	2000
8	Manchester	235	95·7	-24	ESE	5	ir	50	92	48	6	5	7	.	7-8	10	1000
10	Spurn Head	29	99·6	-14	S	4	f	43	97	43	2	.	-	.	10	10	<150
	Catterick	175	96·6	-18	SSE	2	rF	46	97	46	1	-	.	-	10	10	<150
	Tynemouth	108	97·2	-20	SSE	3	m	45	97	44	4	5	.	-	10	10	1500
11	St. Abbs Head	280	95·4	-22	S	1	z.	42	97	41	5	5	-	-	7-8	7-8	2500
	Leuchars	36	94·4	-18	-	0	cF	43	97	43	1	-	3	.	0	9	.
12	Renfrew (Abbots I.)	19	93·5	-26	NE'E	1	cf	46	92	44	3	5	2	-	7-8	10	1500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	91·3	-30	S'E	5	rr	48	92	48	6	6	2	.	2-8	10	1000
13A	Tiree	44	91·2	-10	SE	4	c-bc	47	97	46	8	5	3	8	1	7-8	4000
13B	Stornoway	15	93·2	-6	SE	2	c-bc	46	97	46	8	5	-	.	7-8	7-8	4500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	95·6	-26	-	0	F	39	97	39	0	-	-	-	10	10	<150
	Wick	114	95·6	-18	S	3	z.	43	97	43	5	5	1	-	9	10	400
16	Sumburgh	19	97·2	-28	ESE	5	dr	44	97	44	6	5	2	.	9+	10	600
17	Blacksod Point	18	89·3	+10	S	3	c	48	92	46	8	8	-	6	7-8	9+	1500
18	Malin Head	84	90·2	-2	-	0	c	47	85	43	8	5	.	.	9+	9+	1500
	Aldergrove	268	90·4	-22	-	0	c/pr	46	92	44	6	5	-	.	10	10	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	91·5	+18	SSW	4	c	48	92	46	8	3	6	-	9	9+	1500
	Roches Point	22	92·6	+24	S'W	4	c-bc	48	92	46	8	6	.	6	4-6	7-8	1500

OBSERVATIONS at 7 hr. G.M.T. 21st January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Med. (26)	High (27)	Amount Low 0–10 (28)	Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Temp. Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Night 18h–7h mm. (37)	Sunshine 20th Hrs. (38)
London (Kew)	03·1	+24	SW	3	z.	47	85	43	6	5	-	.	2-3	2-3	2500	1	*	51	46	42	1	5	0·1
Croydon	04·1	+18	SW	3	z.	47	85	44	6	5	-	-	Tr	Tr	1500	1	*	52	47	43	0·1	6	0·5
S. Farnborough	02·6	+26	SW'S	4	b	46	85	43	8	7	-	-	Tr	Tr	2000	1	*	51	46	41	2	5	0·0
Boscombe Down	03·6	+24	S'W	4	b	43	92	42	8	4	-	-	Tr	Tr	2500	1	*	50	42	39	6	1	0·0
Thorney Island	04·1	+18	SW	3	b	47	85	44	7	5	-	-	1	1	2500	1	*	50	46	41	*	5	*
Lympne	04·9	+16	SSW	2	c	48	92	45	7	5	-	-	9+	9+	2000	1	§4	49	46	42	Tr	3	0·2
Manston	03·5	+8	SW	4	b-bc	48	97	47	7	4	-	-	2-3	2-3	1200	1	*	50	46	44	Tr	1	0·1
Shoeburyness	03·6	+10	SW	4	b	48	75	41	6	-	4	.	0	1	-	1	*	49	45		Tr	2	
Felixstowe	02·6	+8	SW'S	4	z.	45	92	43	6	5	-	.	1	1	3100	1	4	45	42	40	Tr	2	0·[illegible]
Gorleston	01·1	-2	SSW	5	b-bc	48	85	44	7	1	-	-	2-3	2-3	2500	1	4	46	44	41	0·2	3	0·1
Mildenhall	01·2	+14	SW'W	4	b	49	75	42	8	2	4	-	Tr	1	2500	1	*	50	46	41	0·6	5	0·0
Cranwell	98·4	+12	SSW	6	z.	46	85	41	6	5	7	.	2-3	7-8	2000	1	*	48	45	42	Tr	5	0·0
Birmingham	00·2	+26	SSW	2	c-bc	46	85	42	8	5	-	-	7-8	7-8	1500	1	*	48	44	42	4	1	0·0
Upper Heyford	00·8	+28	SW	4	b	45	85	41	8	4	6	-	Tr	1	2500	1	*	49	45	41	1	3	*
Ross-on-Wye	00·9	+20	SW	4	bc	48	85	44	7	8	-	-	4-6	4-6	3000	1	*	51	47	43	7	3	0·0
Hartland Point	00·6	+22	WSW	4	b-bcjp	48	92	46	7	5	-	-	2-3	2-3	2500	1	4	55	47	45	1	1	0·8
Bristol	03·5	+24	W	4	b	46	85	41	7	-	-	.	0	0	-	1	*	51	45	41	4	1	0·0
Portland Bill	03·7	+30	SW	4	c	50	92	48	8	5	-	-	10	10	4000	1	5	50	47	*	8	0·2	*
Plymouth	03·2	+16	SW	4	c	50	97	49	7	8	-	.	9	9	2500	1	3	53	48	45	4	3	0·0
The Lizard	02·2	+10	SW	4	b-bc	49	92	47	8	7	-	.	2-3	2-3	2000	1	4	54	48	*	0·5	1	0·1
Scilly (St. Mary's)	00·7	+10	SW	4	b	49	92	46	8	-	.	2	0	Tr	-	1	4	54	48	*	0·2	3	2·4
Guernsey																							
Pembroke	99·7	+24	SW'S	6	c-bcq	50	92	48	7	8	-	-	7-8	7-8	2500	1	4	51	46	*	1	4	1·6
Holyhead (Valley)	96·5	+30	SSW	5	b	47	92	45	8	2	-	-	1	1	2500	1	3	53	45		1	6	*
Chester (Sealand)	96·5	+22	SW	2	c	50	85	46	7	8	4	3	7-8	9+	2500	1	*	52	47	43	0·1	4	0·0
Manchester	96·7	+22	SSE	4	c/r	45	92	43	6	5	7	-	7-8	10	2200	1	*	51	45	43	1	1	*
Spurn Head	96·7	-8	SW	5	bc	47	85	44	7	7	-	-	4-6	4-6	1500	1	3	43	41	*	1	4	0·0
Catterick	93·4	-2	WSW	5	pr	45	85	40	7	5	3	-	9	9+	1500	1	*	46	44	42	2	3	0·0
Tynemouth	92·0	-24	S	4	c/r	47	92	46	5	6	-	-	10	10	1500	1	4	47	44	43	3	1	*
St. Abbs Head	90·6	-24	S	2	m	40	97	39	4	5	-	-	7-8	7-8	2500	1	2	44	40	*	2	5	*
Leuchars	90·6	-16	-	0	rF	42	97	42	2	-	2	-	10	10	1500	1	*	44	37	35	3	4	0·0
Renfrew (Abbots I.)	90·0	-6	SSW	1	c/f	46	97	45	5	5	2	-	9	10	1500	2	*	48	45	38	4	10	0·0
Eskdalemuir	98·4	-8	SW	2	rr	44	97	43	6	6	2	.	7-8	10	900	1	*	48	43	41	4	7	0·0
Point of Ayre	92·2	+32	W'N	6	rr	45	97	44	7	8	2	-	7-8	10	1000	1	4	49	45	*	3	6	0·0
Tiree	90·7	+4	SSW	2	rr	46	97	45	7	5	-	-	10	10	1800	1	3	48	46	40	0·3	2	0·2
Stornoway	91·4	-10	-	0	c	40	97	40	8	5	3	-	2-3	9	4000	1	1	48	38	*	6	0·3	0·0
Dalwhinnie	91·5	-20	S	1	id.	39	97	38	5	5	-	-	10	10	1500	1	*	43	39	32	8	0·6	0·0
Aberdeen †	91·0	-30	E	1	rF	43	97	43	1	-	-	-	10	10	<150	1	2	45	41	40	2	3	0·0
Wick	92·1	-16	-	0	F	40	97	40	1	-	-	-	10	10	<150	1	*	44	40	37	3	-	*
Sumburgh	92·4	-20	S	2	id.	45	97	45	5	5	2	-	9+	10	300	1	3	48	43	41	0·3	12	0·0
Blacksod Point	92·8	+20	S	3	c	47	85	43	8	8	-	6	7-8	9	2500	1	3	52	46	*	0·4	Tr	
Malin Head	91·3	+14	W'S	3	c/r	46	92	44	8	5	2	-	7-8	9+	1500	2	2	52	45		0·2	1	1·6
Aldergrove	93·4	+30	SW'S	3	c/r	43	97	42	6	5	2	.	9+	10	1200	1	*	53	41	41	4	8	2·3
Birr Castle	95·4	+22	S	1	b-bc	42	97	41	8	-	4	.	0	2-3	*	1	*	54	42	39	2	1	2·3
Valentia Obsy.	95·4	+12	S	3	c/pr	47	75	40	8	3	6	-	1	9	2500	1	3	51	46	41	13	0·2	0·0
Roches Point	97·6	+22	W'S	2	b-bc	48	92	46	8	5	-	-	2-3	2-3	1500	1	5	55	47	*	1	3	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

IIII	13h. G.M.T. 20th January $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 21st January $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	52	21634	45558	52	61626	45568	5-	05538	15228	--	57209	00043
115	57	61734	45567	52	62734	12467						
203	52	02845	12428	5-	62848	08468						
206	5-	20766	06368	57	61644	04167	02	43190	28148	52	67354	00068
210	57	02733	09368	57	22744	10166	00	02790	000-5	03	51695	17158
220	57	02744	12567	83	01744	12485				81	81645	14218
230	62	61648	07268	50	01643	10123	5-	02765	00028	62	64645	12168
246	5-	58428	01368	5-	08428	00068	--	46209	04249	5-	42418	04368
260	5-	08448	04248	57	08455	12147	5-	08468	04128	52	61465	00068
278	62	22537	45468	82	05637	14468	02	66538	12488	02	62838	24468
279	52	22655	12467	83	05655	04366	52	62664	12268	5-	25837	19287
285				--	67209	68369				6-	64528	20668
288	52	62645	12168	02	08448	12168	5-	08448	14158	52	64645	18468
575	56	02856	14417	53	02854	14325	57	05656	00028	23	01851	18324
301	52	22547	14368	54	08454	14365	62	62545	47488	57	61645	20467
291												
2[illegible]	5-	226[illegible]3	70368	5-	67238	16168	5-	47148	14348	50	25754	20584
292				02	05422	14223	5-	61428	10248	57	61744	16468
310	--	63428	16568									
614				5-	08448	12228				7-	61457	05654

IIII	13h. G.M.T. 20th January $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 21st January $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	83	22848	14368	86	02754	14425	53	01763	16614	87	02754	20466
334	-	61647	26288	--	25647	26388				--	65647	24588
340	52	22635	14367	5-	05536	14428	73	22742	16464	14	01741	53462
136	57	05663	14367	52	22673	17067	62	61526	18368			
336	57	02754	16428	57	02655	16328				20	25754	24584
350	57	61665	14368	5-	62645	16368	57	02735	18367			
368	5-	02648	14468	52	61646	14328	8-	81747	22587	40	00862	22382
379	5-	62518	14468	5-	62418	16468	5-	05625	49585	50	05642	49642
390	57	05674	14327	5-	47367	16227	53	21445	16258	00	08490	53420
382	52	22746	15868	52	64737	14368	86	02734	52425	86	01851	22482
438				9-	62648	20368	5-	03648	23518	54	02744	22514
430	5-	61658	14268	5-	64448	16368	53	05654	49525	00	05690	24301
409	5-	02635	16556	8-	62728	49668	57	02842	53525	57	01951	18312

IIII = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, Nh = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 21st JANUARY
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Afternoon	Night
Kew	cm.	cr.r.	cr.rr.bm.
Croydon	ir.cm.	cm.cmoid.	cm.ir.
Greenwich	c	cr.	rrcbcb
Camden Square	c	c	*
Kensington	bc	ocr	*
Hampstead	bc	op	orbc

Atmospheric Pollution, Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·2 Time 17·15h 20th. Min. <0·1 Time 0·6h 21st.

Stations	Temperature Day Max °F	Night Min °F	Min on grass °F	Rainfall Day mm	Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	9h % To-day
Kew	51	46	42	1	5	0·1	*	*
Croydon	52	47	43	0·1	6	0·5	*	*
Greenwich	52	46	39	Tr	5	0·3	77	82
Westminster	53	45	40	5			79	86
Regents Park	52	47	43	-	5		76	85
Camden Square	51	50	41	-	6	*	*	86
Kensington	54	46	39	-	6		94	87
Hampstead	50	44	39	Tr	7		*	93

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SECRET

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Friday, 22nd January 1943.

No. 29646

OBSERVATIONS at 13h. G.M.T. 21st January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0-9 (9)	Cloud Form Low (10)	Med. (11)	High (12)	Amount Low 0–10 (13)	Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	05·3	+2	SW'S	3	z0	50	85	45	6	1	7	6	Tr	9	2500
	Croydon	06·5	+2	SW	3	c	53	75	46	7	1	4	6	1	9+	1800
	S. Farnborough	05·2	-6	SW'W	3	c-bc	53	75	47	8	1	-	6	1	7-8	2000
	Boscombe Down	05·4	-2	S'W	3	c	50	85	46	7	5	7	2	2-3	9+	2000
	Thorney Island	06·2	+2	S	2	bc	49	92	48	7	2	7	2	1	9+	1500
	Lympne	06·9	-2	W	2	c	49	92	47	8	5	-	7	9	10	800
	Manston	06·6	+2	WSW	3	c	51	85	45	7	1	-	7	2-3	10	2000
2	Shoeburyness	06·6	+2	SW	2	z0	53	75	45	6	-	4	6	0	7-8	-
	Felixstowe	05·4	+6	SSW	3	z0	46	92	44	6	-	8	9	0	9	-
	Gorleston	04·6	+14	SSW	4	b-bc	51	85	46	7	-	4	-	0	2-3	-
	Mildenhall	04·7	+14	SW	4	c-bc	53	65	43	8	1	-	2	1	7-8	4000
	Cranwell	02·0	+12	SWW	5	b-bc	51	75	42	7	-	-	3	0	2-3	-
3	Birmingham	03·8	+10	SSW	4	c	49	85	45	8	8	-	6	7-8	9	1500
	Upper Heyford	04·3	+6	SW'S	2	c	49	85	44	8	2	-	6	4-6	9	2000
4	Ross-on-Wye	03·7	0	SW	3	bc	51	75	44	7	1	-	6	2-3	4-6	3000
5	Hartland Point	02·6	-4	S	2	c	50	92	48	8	2	1	-	1	9	2000
	Bristol	04·6	0	S	2	c	51	85	46	8	5	1	7	1	10	2500
	Portland Bill	04·3	-4	SSE	3	c	50	92	48	8	5	-	-	10	10	4000
	Plymouth	03·6	-4	SE	3	c	51	97	50	7	5	2	-	7-8	10	1500
	The Lizard	02·6	+4	SE	4	o	51	97	51	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	00·9	-4	SE'S	3	c	51	92	48	7	8	2	-	4-6	10	1500
	Guernsey															
6	Pembroke	02·3	+4	SSE	3	bc	49	97	47	7	2	1	1	2-3	4-6	2500
7	Holyhead (Valley)	01·4	-20	S'W	4	bc	51	85	47	8	2	6	-	4-6	4-6	2000
	Chester (Sealand)	01·5	+10	W	2	c-bc	53	65	43	8	2	8	2	7-8	7-8	2500
8	Manchester	01·9	+30	SSE	4	c-bc	50	85	44	7	2	6	3	7-8	7-8	4000
10	Spurn Head	00·8	+18	SW	4	z0	49	75	42	6	-	3	-	0	2-3	-
	Catterick	99·1	+20	W	4	bc	51	75	42	8	8	3	1	4-6	9	2500
	Tynemouth	97·6	+30	W	4	c-bc	50	75	42	6	2	3	-	4-6	7-8	2800
11	St. Abbs Head	93·4	+20	W	4	bc	48	75	41	7	5	-	-	4-6	9+	3000
	Leuchars	93·9	+30	W	5	ir0	46	85	41	8	5	7	-	7-8	9	3000
12	Renfrew (Abbots I.)	96·1	+26	WSW	4	r	51	85	45	7	8	-	-	9	9	1200
	Eskdalemuir	96·8	+30	WSW	5	c	45	85	42	7	5	-	-	9+	9+	1100
	Point of Ayre	98·9	+22	W	4	b	50	85	46	8	4	4	1	Tr	1	2000
13A	Tiree	95·2	+24	W'S	2	bc	50	92	48	7	1	3	1	2-3	4-6	2500
13B	Stornoway	93·5	+18	SW	3	s/r	46	97	46	7	5	7	-	7-8	10	2500
15	Dalwhinnie	93·6	+22	SW	3	id0	41	92	39	8	5	2	-	4-6	10	1500
	Aberdeen	91·9	+16	WNW	2	rr	42	97	41	4	5	2	-	9	10	1500
	Wick	92·2	+4	WNW	2	cf-	40	97	38	2	5	1	-	7-8	10	3000
16	Sumburgh	91·7	0	-	0	c	44	97	44	6	5	2	-	9+	10	1000
17	Blacksod Point	95·8	+6	SSW	4	c-bc	51	75	44	8	8	-	-	7-8	7-8	2500
18	Malin Head	95·5	+14	SW'S	3	b-bc	49	75	42	8	-	-	1	0	2-3	-
	Aldergrove	98·3	+14	SW	2	b-bc	47	85	42	8	8	4	-	2-3	2-3	2000
19	Birr Castle	98·4	+6	SSW	2	b-bc	51	75	44	8	5	-	-	2-3	2-3	2500
20	Valentia Obsy.	97·8	+6	S'E	4	pr2	50	85	46	8	8	-	6	2-3	9	2500
	Roches Point	99·4	+6	S'W	3	bc	51	92	49	8	3	-	6	2-3	4-6	1500

OBSERVATIONS at 18h. G.M.T. 21st January

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0-9 (24)	Cloud Form Low (25)	Med. (26)	High (27)	Amount Low 0–10 (28)	Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0-9 (31)	Sea 0-9 (32)
London (Kew)	05·3	-2	SE	2	z0	48	88	44	6	5	2	-	7-8	10	1500	1	•
Croydon	06·1	-2	SSW	1	m	47	97	46	4	-	2	-	0	10	-	1	•
S. Farnborough	05·2	-2	ESE	1	z0	47	92	46	5	5	2	-	2-3	10	2000	1	•
Boscombe Down	04·8	-4	E'S	3	r0r0	46	97	45	5	-	2	-	10	10	600	1	•
Thorney Island	05·3	-4	E	3	rr	48	97	47	6	5	2	-	2-3	10	2500	1	•
Lympne	06·9	0	SE	2	ir0	46	97	46	5	5	7	-	4-6	10	1300	1	§
Manston	06·7	+2	S'E	2	z0	46	92	46	6	-	7	-	0	10	-	1	•
Shoeburyness	06·8	+4	SSW	2	z0	46	92	44	6	-	7	-	0	10	-	1	•
Felixstowe	06·1	+6	S'E	2	z0	44	97	43	6	5	2	-	4-6	10	5700	1	3
Gorleston	05·8	+4	S	2	z0	48	85	45	6	5	-	6	10	10	800	1	3
Mildenhall	05·5	+8	S'E	2	z0	48	85	44	6	5	2	-	4-6	10	4000	1	•
Cranwell	04·6	+10	S	3	z0	44	92	42	6	-	7	7	0	10	-	1	•
Birmingham	04·1	+6	S	2	z0	46	97	45	5	-	7	-	0	9	-	1	•
Upper Heyford	04·1	-2	SE	1	z0	47	85	44	6	-	7	-	0	10	-	1	•
Ross-on-Wye	03·7	0	E'S	1	z0	47	92	45	6	5	2	-	Tr	10	2500	1	•
Hartland Point	00·9	-14	ENE	3	c	49	92	46	8	5	2	-	7-8	10	2500	1	4
Bristol	04·0	+6	SSE	1	z0	46	92	44	6	5	2	-	7-8	10	2500	1	•
Portland Bill	03·1	-8	S	4	rr	50	92	47	7	5	-	-	10	10	2500	1	5
Plymouth	00·9	-18	ESE	2	r0r0	48	97	48	6	5	2	-	7-8	10	2500	1	2
The Lizard	99·4	-20	E	3	9/r	49	85	46	7	5	-	-	10	10	1500	1	4
Scilly (St. Mary's)	98·7	-12	SE'E	3	o/r	49	85	45	7	5	-	1	10	10	1200	1	4
Guernsey																	
Pembroke	01·8	0	E'S	3	c	48	97	48	7	8	2	-	7-8	10	2500	1	3
Holyhead (Valley)	01·9	+2	SE'S	2	z0	47	97	46	6	5	1	-	4-6	10	1100	1	3
Chester (Sealand)	02·4	+2	S'W	1	c	47	85	42	7	9	2	8	2-3	10	3000	1	•
Manchester	03·4	+4	SSE	3	z0	45	85	42	6	5	3	1	1	7-8	4000	1	•
Spurn Head	04·0	+12	SSW	3	z0	44	85	38	6	5	2	-	4-6	10	2500	0	3
Catterick	02·3	+10	WSW	3	c-bc	47	75	40	8	5	3	2	4-6	7-8	2000	1	•
Tynemouth	01·4	+16	W	2	m	46	75	40	4	2	-	-	4-6	4-6	2500	1	3
St. Abbs Head	99·5	+24	W	4	b-bc	45	85	40	7	4	-	-	2-3	2-3	4000	0	4
Leuchars	98·5	+18	WNW	2	b-bc	43	92	42	8	5	4	6	Tr	2-3	4000	1	•
Renfrew (Abbots I.)	00·3	+18	SW	2	m	44	92	42	4	4	3	2	2-3	7-8	2000	2	•
Eskdalemuir	00·5	+18	SW'W	2	c	42	92	40	6	5	-	-	9+	9+	900	1	•
Point of Ayre	00·8	0	SSW	2	b-bc	44	92	42	8	-	-	5	0	2-3	-	1	2
Tiree	98·0	+8	SSW	2	bc	45	97	44	8	4	4	1	1	4-6	4000	1	2
Stornoway	96·3	+26	WSW	3	bc	44	97	43	7	2	7	-	2-3	9	1200	1	2
Dalwhinnie	98·3	+22	W	1	bc	38	85	34	8	8	-	-	4-6	4-6	2500	1	•
Aberdeen	97·3	+30	W	1	ir0	45	85	42	6	5	2	-	1	9+	2500	1	2
Wick	95·8	+14	W'S	1	ir0	42	97	42	8	5	2	-	4-6	10	2500	1	•
Sumburgh	93·9	+20	W	3	ir0	44	97	44	6	5	2	-	9	10	1200	1	2
Blacksod Point	97·0	+10	S	4	bc	48	85	44	8	8	-	6	4-6	4-6	2500	1	3
Malin Head	97·7	+10	S	2	bc	46	75	39	8	8	-	-	4-6	4-6	2500	2	3
Aldergrove	00·2	+4	-	0	c	40	92	39	8	5	4	7	1	10	1800	1	•
Birr Castle	99·1	+2	SSE	1	c	47	85	43	8	5	-	-	10	10	2500	1	•
Valentia Obsy.	98·1	+6	SSE	3	c	49	85	45	8	2	7	-	1*	9+	2500	1	2
Roches Point	99·2	0	S	3	cr0	49	97	48	7	6	2	-	4-6	9+	1500	1	5

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 21st (39)	13h.—18h. 21st (40)	18h. 21st to 1h. 22nd (41)	1h.—7h. 22nd (42)
London (Kew)	b,cm0	cm0	cr,r,mr,c	cr,cm.
Croydon	bm bcz c	cm cm	ir,r,r,cm,	cir cm.
S. Farnborough	bc	ccm0	cm,r,cm,cr,r,cm,r,cm.	
Boscombe Down	bbm bcm	bcm cm r	cm,r,m,cr,r	cr,r,d,cm.
Thorney Island	bbbc	cm ir rr	rrcm,r,	cm.
Lympne	cmc	cm cm ir	cr,m cm,	cm,ir.
Manston	bc bc	c	cm,mir,	cm,ir,m.
Shoeburyness	bcmcz0	cir z cm0	cir,m.	cir,cm.
Felixstowe	bm cm0	cm	d,r,mir,	ir,mcm.
Gorleston	b	bcc	cz	or,r.
Mildenhall	bbc	bccm.	cm,cr,r,m,	cr,r,m,cm.
Cranwell	bbc	bccm0	cm,cir,m,	cr,r,m,oid,f
Birmingham	bc	c	poir	orrr.
Upper Heyford	bbcc-	cm	ir,rrf	cr,r,fcm
Ross-on-Wye	bc	bcc	ccr,r0	rcr
Hartland Point	bcc	c	irrid,c	crrir
Bristol	bcc	ccm0	cd,d,m,ir,m	cr,r,m,cm
Portland Bill	ce	orr	bcc	c
Plymouth	c	ir cr r0	cr,r,m,c	cm,r,r,cm.
The Lizard	bcco	prrro	crrc	crrbc
Scilly (St. Mary's)	bcc	cr,r,c	cr,r,	cr,cbc
Guernsey				
Pembroke	bc	c	cmorr	crrm.
Holyhead (Valley)	bcb	bccm0	cor,r,r,m	orrm.
Chester (Sealand)	cid bc	c	m,r,r,c	r,r,rrc
Manchester	cmbcc	cbc	m,fd,d,	ffddrr
Spurn Head	bcz	cm0	cm,	orr
Catterick	cprbc	bccbc	ccm,	orf
Tynemouth	bcmc	cbcm	bcmo	orr
St. Abbs Head	cmcprbc	bc	bcm,b	c
Leuchars	rrfcm	cir cbc	bbcc	ccm.
Renfrew (Abbots I.)	cir c	cbc	cmcm,	cmm,ir.
Eskdalemuir	cr c	cbccm0	offm.	or,r.
Point of Ayre	cbcb	b	bbccir0	cr,r fr,f
Tiree	bxcbc	bbc	bcc	cbc
Stornoway	ccr r m	cir bcc	bcc	bccpr
Dalwhinnie	oid	oirbc		bcpr,o
Aberdeen	~~Frrr~~crr	r,ir0	cpr,bcz	bczbfx
Wick	cf	c	cr,r,c	b,c
Sumburgh	cd,d,cm	cm ir m	cir,d,d,m,	crrprc
Blacksod Point	bc	bc	c	bc
Malin Head	r	bc	c	c
Aldergrove	cbcb	bcc	c	cpr,cr,c
Birr Castle	b	c	•	c
Valentia Obsy.	pr	pr	c	pr
Roches Point	bc	r	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 22nd January 1943

Districts	Forecast
1 S.E. England; 2 E. England	Moderate to light southerly winds; considerable fair periods, fog tonight probably persisting locally tomorrow, mild.
3 E. Midlands; 4 W. Midlands; 5 S.W. England	Light variable winds; dull, occasional rain or drizzle, some mist and fog especially at night; rather mild.
6 South Wales	As 1
7 North Wales	As 8-10
8 N.W. England; 9 N. Midlands	Light southerly winds, becoming light variable; fair periods, local rain at first, mild.
10 N.E. England; 11 S.E. Scotland	Light variable winds, mainly dull, some rain or drizzle; some mist and fog; rather mild.
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland	Light variable winds; considerable fair periods, a few local showers; rather mild.
15 N.E. Scotland	Light variable winds; cloudy, some occasional light rain or
16 Orkneys and Shetlands	Showers, probably becoming somewhat colder.
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	Light westerly to variable winds; mainly fair; local fog tonight and early tomorrow; rather mild.

GENERAL INFERENCE

Shallow depressions over the northern North Sea, and over Wales and Southwest England are filling up and pressure is likely to become very uniform over the British Isles. In Central and Eastern England there will be some further occasional rain, but in many other areas there will be considerable fair periods. Fog will probably become fairly general tonight.

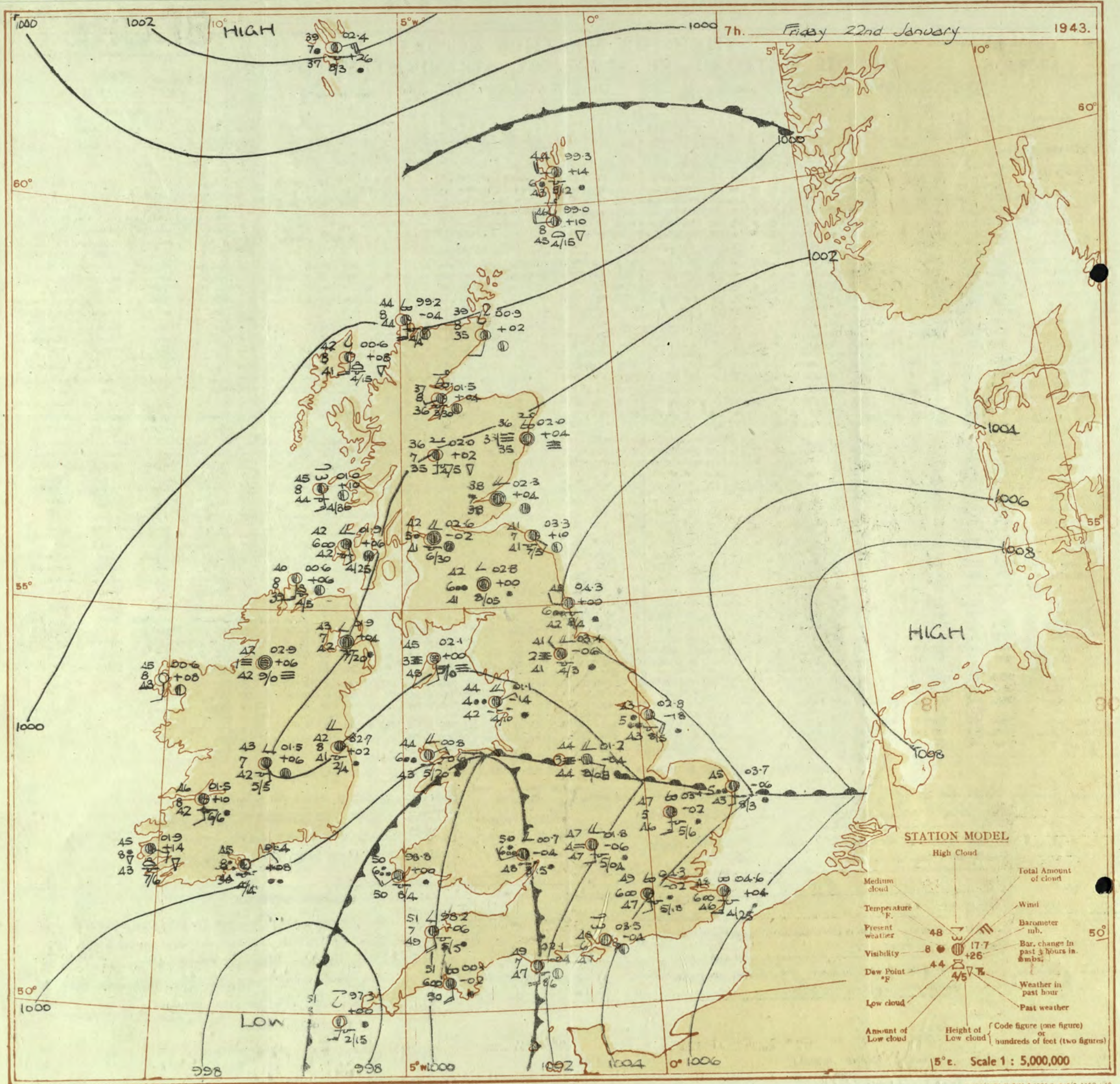
FURTHER OUTLOOK

Probably continuing mild and rather unsettled.

Forecasts issued at 1030.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Friday 22nd January 1943.



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

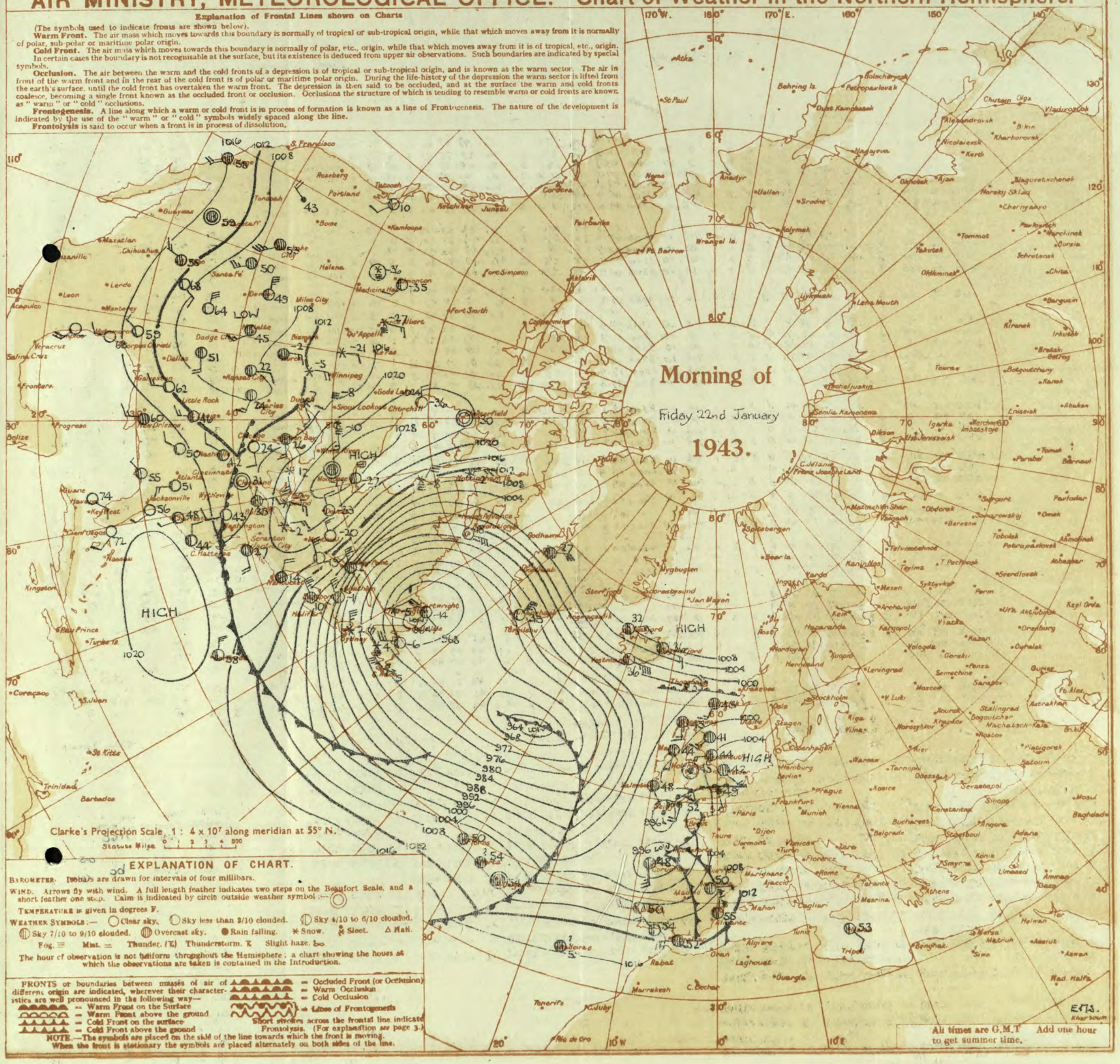
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Friday 22nd January 1943

No. 29646

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	48	*	*	*	*	*	*	*	*	*
	Croydon	290	04.4	-8	S'E	1	id.	49	97	48	5	5	3	-	9	9+	700
	S. Farnborough	226	03.4	0	S	2	r.r.	48	97	48	6	5	2	·	9	10	400
	Boscombe Down	417	02.7	-8	SE'S	4	r.r.	48	97	48	6	5	2	·	9+	10	600
	Thorney Island	10	03.8	0	SE'E	1	r.r.	49	92	47	7	5	1	·	4-6	10	4000
	Lympne	283	05.0	-6	S'E	1	z.	47	97	46	6	5	2	·	4-6	10	1800
	Manston	154	04.9	-6	S'E	3	ir.	47	97	46	5	5	7	·	7-8	10	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	05.2	-4	E	3	ir.	46	97	46	4	5	2	-	7-8	10	1600
	Gorleston	5	05.2	-6	SSE	2	z.	42	92	40	6	5	-	-	10	10	2500
	Mildenhall	15	04.3	-10	ESE	3	dr	45	97	45	5	5	-	-	10	10	3100
	Cranwell	203	04.4	-6	SSE	2	ir.	43	97	43	5	5	-	·	10	10	2500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	02.8	-8	ESE	2	rf	46	97	45	3	·	2	·	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	98.2	-14	S	3	id	51	97	51	5	5	2	-	7-8	10	1500
	Bristol	209	02.3	+10	SSE	3	ir.	50	92	48	5	6	2	-	9	10	800
	Portland Bill	32	02.2	+4	S	3	c	50	92	48	7	5	-	-	10	10	4000
	Plymouth	82	00.1	0	SSW	4	c/r	55	85	51	6	5	2	-	7-8	10	2700
	The Lizard	240	99.3	+6	S	5	c/r	52	97	52	7	5	6	·	7-8	9+	1500
	Scilly (St. Mary's)	163	96.9	+4	SSW	4	r.r.	52	97	51	7	5	2	·	9	10	800
	Guernsey	175															
6	Pembroke	142	99.8	-10	NE	4	rr	46	97	46	7	5	-	·	10	10	2500
7	Holyhead (Valley)	32	01.9	+2	-	0	r.r.	45	97	44	6	-	2	-	10	10	2000
	Chester (Sealand)	16	02.7	0	-	0	r.r.	45	92	43	6	5	2	-	2-3	10	2000
8	Manchester	235	03.9	0	NE	3	d.d.	45	97	44	4	5	2	·	7-8	10	1500
10	Spurn Head	29	04.7	-6	SE	2	z.	42	97	41	6	5	2	1	4-6	10	4000
	Catterick	175	04.4	-2	SSE	1	ir.	42	97	42	4	-	2	·	10	10	4000
	Tynemouth	108	04.2	+8	W	3	o	44	85	40	6	5	1	-	4-6	10	1500
11	St. Abbs Head	280	01.6	0	SW	4	c	43	92	41	7	5	-	·	9	9	2500
	Leuchars	36	02.4	+20	WSW	3	c	39	97	38	7	-	-	7	0	10	-
12	Renfrew (Abbots I.)	19	02.8	+14	E'S	1	z.	42	97	41	5	5	1	-	4-6	10	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	02.0	+4	S'W	3	ir.	47	97	46	7	6	2	·	10	10	4000
13A	Tiree	44	99.9	+10	S	3	c	45	97	44	8	-	3	7	0	10	-
13B	Stornoway	15	99.1	+10	S	3	c-bc	45	97	44	7	5	3	·	7-8	7-8	3000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	01.7	+20	SW'W	3	c	41	85	35	8	5	-	7	Tr	10	3000
	Wick	114	99.9	+20	SW'S	3	c	39	92	37	8	·	-	5	0	10	-
16	Sumburgh	19	96.9	+10	SW	3	d.d.	46	97	46	6	6	2	-	9	10	700
17	Blacksod Point	18	99.2	+8	SW	3	c-bc	47	85	43	8	8	-	6	7-8	7-8	2500
18	Malin Head	84	99.6	+10	S'W	1	c-bc	44	85	40	8	8	-	6	2-3	7-8	2500
	Aldergrove	268	01.2	+2	SSE	2	c	45	92	43	7	5	1	-	4-6	10	4000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	99.6	+6	SE	3	c	48	85	44	8	5	1	-	4-6	10	2500
	Roches Point	22	99.9	+2	S'E	3	r.r.	48	97	48	8	6	2	-	4-6	10	1500

OBSERVATIONS at 7 hr. G.M.T. 22nd January

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	02.8	-4	ESE	1	z.	47	97	46	6	5	-	-	9+	9+	2500	1	*
Croydon	04.3	-2	S'E	2	z.	49	92	47	6	5	7	·	7-8	9+	1800	1	*
S. Farnborough	03.1	0	SSE	3	z.	48	97	47	5	5	7	·	2-3	9+	1000	1	*
Boscombe Down	03.0	-2	SE'E	3	z.	47	97	46	6	5	7	·	7-8	10	3000	1	*
Thorney Island	03.5	-4	ESE	3	bc	48	97	47	6	-	3	1	0	4-6	-	1	*
Lympne	05.4	+2	SSE	1	z.	47	97	46	6	-	7	-	0	10	-	1	§ 3
Manston	04.6	+4	S'W	3	z.	48	92	46	6	5	7	·	4-6	9+	2500	1	*
Shoeburyness	05.3	+2	SSW	2	z.	46	92	44	5	-	4	-	0	9+	·		*
Felixstowe	04.8	+2	S'E	3	z.	44	97	43	5	·	7	·	0	9	-	1	2
Gorleston	03.7	-6	S	2	r.r.	45	92	43	5	6	-	·	10	10	800	1	2
Mildenhall	03.1	-2	S'E	3	c/r	47	97	46	5	5	7	-	7-8	9+	4000	1	*
Cranwell	01.8	-14	S'E	2	df	45	97	45	3	-	2	·	10	10	1000	1	*
Birmingham	01.5	0	SSE	2	r.r.	48	97	47	4	6	·	-	10	10	800	1	*
Upper Heyford	01.8	-6	S	2	m	47	97	47	4	5	2	-	7-8	10	400	1	*
Ross-on-Wye	00.7	-4	WSW	2	rr	50	97	48	6	6	2	-	2-3	10	1500	1	*
Hartland Point	98.2	-6	SSE	4	e	51	92	49	7	5	1	-	7-8	9+	2500	1	4
Bristol	01.3	-6	SE'S	3	e	50	92	48	6	5	2	·	4-6	10	4000	1	*
Portland Bill	02.1	-4	S	4	c	49	92	47	7	5	-	·	10	10	4000	1	5
Plymouth	00.1	-2	SSE	4	z.	51	97	50	6	-	7	·	0	10	·	1	4
The Lizard	98.9	-4	SSE	3	bc	51	97	51	8	7	-	·	4-6	4-6	2000	1	4
Scilly (St. Mary's)	97.3	0	S'W	3	be	51	97	50	8	5	4	3	1	4-6	1500	1	4
Guernsey																	
Pembroke	98.8	0	SW'W	3	rr	50	97	50	6	5	-	·	10	10	1500	1	3
Holyhead (Valley)	00.8	-6	ENE	2	r.r.	44	97	43	6	6	2	-	7-8	10	2000	2	1
Chester (Sealand)	00.7	-12	SE	1	r.r.	45	92	43	4	5	·	-	7-8	10	1200	1	*
Manchester	01.2	-14	NE	2	rf	45	97	44	3	·	2	-	10	10	900	1	*
Spurn Head	02.8	-18	ESE	4	rr	43	97	43	5	5	-	·	10	10	2500	1	3
Catterick	03.4	-6	NW	1	rf	41	97	41	2	5	2	-	4-6	10	900	1	*
Tynemouth	04.3	0	W	2	r.r.	45	92	42	6	5	-	-	10	10	1500	1	3
St. Abbs Head	03.3	+10	SE	2	c	41	97	41	7	5	-	·	9+	9+	2500	0	2
Leuchars	02.3	+4	-	0	c	38	97	38	7	-	2	-	0	10	-	1	*
Renfrew (Abbots I.)	02.6	-2	-	0	ir.	42	97	41	5	5	2	-	9	10	3000	2	*
Eskdalemuir	02.8	0	-	0	r.r.	42	97	41	6	-	1	·	10	10	500	1	*
Point of Ayre	02.1	0	S'E	2	rf	45	97	45	3	-	-	-	10	10	<150	1	2
Tiree	01.0	+10	S'E	3	bc	45	97	44	8	5	3	1	4-6	4-6	3000	1	2
Stornoway	00.6	+8	S	3	bc/pr	42	92	41	8	8	4	-	4-6	4-6	1500	1	2
Dalwhinnie	01.0	+2	S	1	c-bc	36	97	35	7	5	-	7	4-6	7-8	2500	1	*
Aberdeen †	02.0	+4	-	0	zf+	36	92	35	3	-	7	7	0	10	·	1	1
Wick	00.9	+2	SSW	2	c-bc	39	85	35	8	-	4	6	0	7-8	-	1	*
Sumburgh	99.0	+10	W'S	4	c	46	97	45	8	1	4	8	4-6	9+	1500	1	3
Blacksod Point	00.6	+8	S	2	b	45	92	43	8	-	-	·	0	0	-	1	2
Malin Head	00.6	+6	S'W	3	bc	40	97	39	8	8	-	-	4-6	4-6	2500	2	3
Aldergrove	01.9	+4	-	0	c	43	97	42	7	5	1	-	9+	10	2000	1	*
Birr Castle	01.5	+6	SSE	1	c	43	97	42	7	5	1	-	7-8	10	2500	1	*
Valentia Obsy.	01.9	+14	E'S	2	pr	45	92	43	8	8	-	·	9+	9+	4000	1	1
Roches Point	01.4	+8	E'S	2	bc/r	45	97	44	8	6	-	·	4-6	4-6	1500	1	5

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 21st. Hrs. (38)
London (Kew)	51	46	41	-	3	4.7
Croydon	54	45	43	-	1	5.3
S. Farnborough	53	46	44	-	2	5.0
Boscombe Down	50	45	44	Tr	3	1.5
Thorney Island	50	46	43	1	2	*
Lympne	51	46	44	Tr	1	1.2
Manston	52	46	44	-	Tr	4.1
Shoeburyness	53		38	0.1		4.1
Felixstowe	48	42	40	-	1	4[illegible]
Gorleston	52	41	39	-	2	6.[illegible]
Mildenhall	53	43	40	Tr	2	5.8
Cranwell	51	40	35	-	5	5.8
Birmingham	49	44	40	-	5	3.7
Upper Heyford	50	45	43	-	7	*
Ross-on-Wye	51	45	43	-	6	2.6
Hartland Point	50	46	46	-	3	0.1
Bristol	51	46	43	-	1	3.2
Portland Bill	50	50	*	1	·	*
Plymouth	51	48	47	1	1	0.0
The Lizard	52	48	*	1	·	0.0
Scilly (St. Mary's)	51	47	*	Tr	1	0.0
Guernsey						
Pembroke	50	45	*	2	Tr	0.3
Holyhead (Valley)	51	44	43	-	10	*
Chester (Sealand)	55	45	42	Tr	8	2.6
Manchester	51	43	37	-	5	*
Spurn Head	50	40	*	-	4	5.9
Catterick	52	40	39	Tr	5	3.2
Tynemouth	50	49	43	-	3	*
St. Abbs Head	49	44	*	Tr	-	*
Leuchars	49	38	31	2	-	1.8
Renfrew (Abbots I.)	51	40	37	0.5	Tr	1.8
Eskdalemuir	47	39	36	1	4	2.0
Point of Ayre	50	42	*	0.1	2	6.0
Tiree	50	45	41	0.4	-	3.6
Stornoway	47	39	35	1	0.3	0.0
Dalwhinnie	42	32	24	5	0.4	0.0
Aberdeen †	45	34	28	10	Tr	0.0
Wick	42	37	33	-	2	*
Sumburgh	45	45	41	0.3	3	0.0
Blacksod Point	51	42	*	-	·	*
Malin Head	49	40		Tr	-	5.3
Aldergrove	49	41	33	-	0.4	4.2
Birr Castle	52	42	39	-	-	3.7
Valentia Obsy.	51	44	41	0.4	Tr	1.5
Roches Point	52	45	*	0.2	4	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 21st Jan: $C_L C_M$	wwVhN_h	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN	01h. G.M.T. 22nd Jan: $C_L C_M$	wwVhN_h	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN
109	--	08409	26149	57	05645	22328	52	02741	24524	52	01753	20313
115	57	02744	20227	52	62626	20368	57	02844	20425	57	02844	16427
203	6-	64738	26428							80	02945	16415
206	57	02854	24367	57	02863	22266	50	02861	22115	57	02863	22127
210	53	02761	22367	02	22890	21366	00	02890	16216	01	02890	20128
220	53	01734	22214	43	01744	17214				53	02754	17215
230	92	64755	16267	93	02854	18265	53	02763	00028	5-	02855	00028
245	52	61568	26268	54	02552	28265	04	02880	23118	00	05690	25118
260	57	02746	20426	00	05590	24220	57	05664	00028	57	08465	20148
278	87	01743	22363	54	05631	15214	51	05644	12128	52	62435	13268
279	80	01744	22384	54	05653	21324	57	02754	02128	62	62634	06168
285				23	02745	32516						
288	26	01854	53414	24	02854	20226	51	05653	19128	02	67238	00068
575	54	01852	00013				57	02853	00027	--	46109	00049
301	84	05652	18284	04	05590	20118	62	62435	14168	62	62434	06168
321												
2.3	27	05663	20413	5-	05658	00015	5-	05558	20228	5-	43348	12148
292	2-	62846	21366	40	02853	21328	02	67368	00068	62	67334	12168
310	--	01634	24414							--	67209	20249
614	10	05554	20315	51	08454	18228	02	61390	26148	5-	64148	06168

III	13h. G.M.T. 21st Jan: $C_L C_M$	wwVhN_h	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN	01h. G.M.T. 22nd Jan: $C_L C_M$	wwVhN_h	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN
333	8-	25634	17385	82	02644	14228	52	62656	32168	52	22657	00068
334	--	01743	26413	--	05546	26217				--	63437	22288
340	80	02944	20225	42	02652	20228	5-	67348	08268	5-	64438	14368
136	04	01790	20404	07	05690	20218	52	61574	15268	02	62427	09268
336				57	02753	63285				--	67209	20369
350	20	02843	20425	52	05655	15127	5-	67328	10168	57	05645	15166
368				57	02753	12228	02	62428	14368	62	62538	16168
379	8-	02747	20427	5-	05648	14228	02	62108	16368			
390	50	05552	18215	5-	45368	18248	05	45348	10168	53	67355	14266
382	17	02853	20326	57	05543	12128	02	64438	14268	57	05667	15168
438	57	02745	22418	8-	64538	12368	54	02754	20327	57	02754	18326
430	50	05653	18326	5-	62477	10268	57	21645	08268	5-	05647	12227
409	57	02745	14328	52	62741	06168	52	62745	17468	57	02751	46525

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 22nd January
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	bcm.	cm.	cr.cm.
Croydon	bm.bcz.	cm.cm	ir.,cir.cm.
Greenwich	bbc	bc⊕bc	crrr.c
Camden Square	b	b	*
Kensington	bc	c	*
Hampstead	bc	bcor	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 0.5 Time 2[illegible]h 21st
Min. <0.1 Time 2-5h 22nd

Stations	Temperature Day Max °F	Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	51	46	41	-	3	4.7	*	*
Croydon	54	45	43	-	1	5.3	*	*
Greenwich	53	47	42	-	2	4.6	77	90
Westminster	53	47	44	3			69	92
Regents Park	51	47	44	-	3		73	82
Camden Square	53	47	42	-	3	*	*	90
Kensington	49	47	43	-	3		85	91
Hampstead	51	45	42	-	3		*	92

SECRET

Page 1 BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday, 23rd January, 1943.

No. 29647

OBSERVATIONS at 13h. G.M.T. 22nd January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	02·6	-8	SSW	4	c	52	85	47	8	5	3	-	9	9+	2500
	Croydon	03·8	-6	SSW	3	c	54	85	49	7	5	7	-	7-8	9	2000
	S. Farnborough	02·4	-8	SSW	3	c	52	85	47	7	5	3	-	9+	10	1900
	Boscombe Down	02·8	-2	S	2	c	51	92	49	7	5	-	-	10	10	1400
	Thorney Island	03·6	-6	S'E	3	c	49	92	46	7	5	-	-	10	10	4000
	Lympne	04·7	-10	SSE	2	b-bc	53	75	46	8	-	4	2	0	2-3	-
	Manston	04·5	-10	SW'S	5	c-bc	55	75	47	8	-	7	1	0	7-8	-
2	Shoeburyness	04·9	-12	S	4	bc	52	75	45	8	-	7	-	0	4-6	-
	Felixstowe	03·4	-14	S	3	zo	45	92	43	6	-	3	-	0	9	-
	Gorleston	03·4	-10	SW'S	3	zo	47	88	44	6	5	-	-	9	9	1500
	Mildenhall	02·4	-12	S	3	zo	52	85	47	6	-	3	-	0	9	-
	Cranwell	02·2	-6	SSW	2	c/f	50	97	49	6	5	2	-	7-8	10	2500
3	Birmingham	01·8	0	SSW	1	zo	49	92	47	5	5	-	-	10	10	1500
	Upper Heyford	01·3	-8	S'W	3	zo	50	92	47	6	5	-	-	10	10	1200
4	Ross-on-Wye	01·0	0	S'W	2	zo	51	92	49	6	5	-	-	10	10	800
5	Hartland Point	99·8	+6	SW	3	id	53	92	52	7	5	2	-	10	10	2000
	Bristol	01·3	-2	S'W	4	c	53	85	49	7	5	3	-	4-6	9+	1500
	Portland Bill	02·6	0	S	4	c	51	92	49	8	5	4	-	4-6	10	4000
	Plymouth	00·8	-4	SSW	3	zo	53	97	52	6	5	2	-	9	10	1000
	The Lizard	00·0	+2	SW	3	c/pr	52	97	52	8	8	2	-	7-8	10	1500
	Scilly (St. Mary's)	00·3	+10	N'W	5	c/pr	49	97	48	7	5	-	-	10	10	1000
	Guernsey															
6	Pembroke	01·2	+12	N'W	4	rr	46	97	46	6	8	2	-	4-6	10	1000
7	Holyhead (Valley)	02·9	+10	NNE	3	c	46	85	42	7	5	7	-	7-8	9+	2000
	Chester (Sealand)	01·6	+2	W	1	rf	45	92	43	3	-	2	-	10	10	1000
8	Manchester	01·6	-2	-	0	rF	47	97	47	1	-	2	-	10	10	450
10	Spurn Head	02·5	0	SSW	1	Ft	45	97	45	1	-	-	-	10	10	<150
	Catterick	03·9	-2	NNE	2	roro	43	97	43	7	5	-	-	10	10	600
	Tynemouth	04·6	0	NNE	3	ir	44	92	43	6	-	2	-	10	10	1500
11	St. Abbs Head	04·2	+4	SW	1	roro	45	92	43	7	5	-	-	10	10	2000
	Leuchars	04·2	+4	-	0	m	42	92	41	4	5	7	6	2-3	10	7000
12	Renfrew (Abbots I.)	04·6	+6	-	0	of	44	97	44	3	5	-	-	10	10	3000
	Eskdalemuir	03·9	+2	-	0	c/pr	44	85	41	8	5	7	-	4-6	9	1400
	Point of Ayre	03·7	+6	NE	3	c	46	92	44	7	5	3	-	2-3	9	1800
13A	Tiree	04·1	+12	SW	2	c	47	92	45	8	8	-	-	9+	9+	3500
13B	Stornoway	03·8	+10	SW	2	b	49	92	46	8	8	6	-	Tr	1	2000
15	Dalwhinnie	04·4	+16	S	1	c-bc	39	92	36	8	8	-	-	7-8	7-8	2500
	Aberdeen	03·7	+4	WNW	1	cf	38	92	36	3	5	7	-	Tr	9+	4000
	Wick	03·3	+6	SW	1	c-bc	44	85	39	9	5	7	-	4-6	7-8	4500
16	Sumburgh	02·2	+16	NW'N	3	c/pr	46	92	44	8	8	-	-	9+	9+	1800
17	Blacksod Point	03·8	+10	S'W	1	pro	48	85	44	8	9	-	3	7-8	9	2500
18	Malin Head	03·4	+10	S	2	b	46	85	42	8	-	-	-	0	0	-
	Aldergrove	04·3	+8	SW	1	df	45	97	44	3	5	-	-	10	10	500
19	Birr Castle	04·5	+6	WNW	1	b-bc	51	85	47	8	5	-	-	2-3	2-3	2500
20	Valentia Obsy.	05·4	+10	S	2	bc	51	85	47	8	2	-	-	4-6	4-6	1500
	Roches Point	04·7	+6	N	3	b	49	85	45	8	2	-	-	1	1	2500

OBSERVATIONS at 18h. G.M.T. 22nd January

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	03·8	+10	SW'S	3	iro	50	92	48	5	5	-	-	10	10	1500	1	*
Croydon	04·4	+10	SSW	3	roro	51	92	49	5	5	-	-	10	10	1000	1	*
S. Farnborough	03·7	+6	S	2	rorf	50	92	48	3	5	-	-	10	10	900	1	*
Boscombe Down	03·7	+6	S'E	3	dodo	49	97	49	4	5	-	-	10	10	200	1	*
Thorney Island	04·2	+6	S'W	2	iroo	50	92	47	6	5	2	-	4-6	10	1500	1	*
Lympne	04·8	-2	S	3	c	50	92	47	7	5	-	-	2-3	10	1700	1	§4
Manston	04·1	+2	SW	4	c	53	85	47	7	5	-	-	10	10	2000	1	*
Shoeburyness	04·4	+4	SSW	3	zo	51	85	46	6	5	-	-	10	10	2500	1	*
Felixstowe	03·6	+6	SSW	1	zo	46	85	43	6	5	-	-	10	10	2100	1	2
Gorleston	03·5	+2	SSW	3	zo	49	85	45	6	5	-	-	10	10	1500	0	3
Mildenhall	02·8	+6	SSW	2	zo	52	85	47	5	5	-	-	10	10	1700	1	*
Cranwell	02·8	+2	NW	2	df	45	97	44	3	-	-	-	10	10	<150	1	*
Birmingham	02·7	+4	NW	2	df	45	97	44	3	6	-	-	10	10	450	1	*
Upper Heyford	02·0	+4	SSW	2	dod	49	97	49	3	5	-	-	10	10	200	1	*
Ross-on-Wye	02·2	+10	E	1	iro	50	92	48	5	5	-	-	10	10	800	1	*
Hartland Point	02·7	+24	N	3	id	46	97	46	6	5	2	-	7-8	10	800	1	4
Bristol	02·5	0	SW	2	m	51	92	49	4	5	7	-	4-6	7-8	1500	1	*
Portland Bill	03·2	+6	SW	4	o	50	92	48	7	5	-	-	10	10	2500	1	4
Plymouth	02·4	+10	W	4	ido	51	97	51	5	5	-	-	10	10	400	1	3
The Lizard	04·2	+38	NNW	5	c	47	92	45	7	8	2	-	9	10	1500	1	4
Scilly (St. Mary's)	06·2	+36	NW'N	4	c	48	85	43	8	8	-	-	10	10	1500	1	4
Guernsey																	
Pembroke	05·6	+26	NNW	6	bc	45	85	42	8	8	2	-	4-6	4-6	2500	1	3
Holyhead (Valley)	05·2	+16	N	2	b	43	92	41	8	8	4	-	Tr	Tr	2000	1	2
Chester (Sealand)	04·1	+10	NNW	3	rf	44	97	43	3	-	2	-	10	10	1200	1	*
Manchester	03·5	+14	N	3	rf	43	97	43	3	6	2	-	10	10	1900	1	*
Spurn Head	03·1	+2	NNW	2	oft	43	97	42	3	5	-	-	10	10	2500	1	3
Catterick	05·6	+16	N	1	roro	42	97	42	4	6	2	-	7·8	10	800	1	*
Tynemouth	06·0	+10	NNE	3	c	43	97	42	7	8	-	-	9+	9+	1500	1	6
St. Abbs Head	04·6	+2	-	0	bc	43	92	41	6	5	-	-	4-6	4-6	2500	0	3
Leuchars	05·0	+6	-	0	m	38	97	37	4	-	-	-	0	0	-	1	*
Renfrew (Abbots I.)	05·7	+8	WNW	1	Ft	39	97	39	0	5	1	-	4-6	9	2000	1	*
Eskdalemuir	05·4	+10	-	0	c	41	97	40	8	5	-	-	9+	9+	1200	1	*
Point of Ayre	05·4	+12	NE'E	1	c	45	92	43	8	5	-	-	9+	9+	3000	1	2
Tiree	05·2	+6	S	2	c	45	97	44	8	8	-	-	9+	9+	3000	1	2
Stornoway	05·5	+10	-	0	fg	41	97	41	6	2	6	-	1	1	2500	1	1
Dalwhinnie	05·3	+14	S	1	c	35	92	32	8	5	-	-	9+	9+	2500	1	*
Aberdeen	05·2	+8	-	0	bf+	36	97	36	2	-	-	-	0	0	-	1	1
Wick	04·8	+6	WNW	2	c-bc	45	92	40	8	5	-	-	7-8	7-8	2500	1	*
Sumburgh	04·6	+10	ENE	4	iro	43	85	39	7	5	7	-	7-8	10	1500	1	3
Blacksod Point	05·7	+18	W	3	Dr	46	92	44	7	6	2	-	4-6	10	800	1	3
Malin Head	04·7	+10	S'W	1	c-bc	43	85	39	8	5	-	-	7-8	7-8	2500	1	2
Aldergrove	06·3	+16	W'S	1	zo	44	92	42	6	5	-	-	10	10	1500	1	*
Birr Castle	06·7	+12	S	1	b	41	92	39	8	-	-	-	0	0	-	1	*
Valentia Obsy.	08·0	+18	S'E	2	c	48	92	46	8	8	-	-	9	9	2500	1	1
Roches Point	07·8	+22	NE	1	b	45	85	41	8	5	-	-	1	1	1500	1	3

PAST 24 HOURS.

Stations	Weather 7h.–13h. 22nd (39)	13h.–18h. 22nd (40)	18h. 22nd – 1h. 23rd (41)	1h.–7h. 23rd (42)
London (Kew)	cmwe	cmirm	irormc	irrcm.
Croydon	cmbcc	cmcmrr	r.r.cidm	id.d.d.cm
S. Farnborough	cbccmc	cmirfr	cfrd.d.rm.	cm.d.rc
Boscombe Down	c	cmddm	cmd.d.rm	cm.d.d.cm.
Thorney Island	bcc	bccirm	cir.cddcm.	cmc
Lympne	cmcbc	bcc	cr.cir.m.	cmoirofir.
Manston	c	c	cm.ir.	cd.z.c
Shoeburyness	cmcbc	ccm	cm.	cr.r.cm.
Felixstowe	cm	cmbccm	cr.r. m.cm.	cd.d.cr.r.m.
Gorleston	cz	cz	o.r.r.z.	orr
Mildenhall	cm	cmircmcm	cm. cd.d.m	cr.d.mcm.
Cranwell	crrmcm	cmoidf	orrm.	cm.cidpmp
Birmingham	oirc	cof	frRr	omc
Upper Heyford	cidmcm	cmddm	ofcidd.d.m	r.r.mcm.
Ross-on-Wye	rcco	cmcircm	cmrr	cm.
Hartland Point	rbcidr	idirdfdfc	idcbbcc	cbc
Bristol	cjpcir	cm	bcmid.iRrrcm	cmcm.
Portland Bill	c	opro	oc	c
Plymouth	cm	cidirm	cbc	cbm.
The Lizard	cprc	coidc	c	cbc
Scilly (St. Mary's)	bccp.	cpc	cbcw	bccwc
Pembroke	crrm	bc	c	bcc
Holyhead (Valley)	crrmc	cb	c	b.cpRm.
Chester (Sealand)	rrfc	rrffo	r.r.fcm.	cm.cm
Manchester	rrfrrF	rrFF	r.r.	cm.m
Spurn Head	cmrrfrr	cfd.ofd.	cmr.	c
Catterick	orrf	orrrr	irmcfm.	cm.
Tynemouth	orrrrm	oirc	c	c
St. Abbs Head	crmc	cbcm	cmF	Fcm.
Leuchars	cFcfcm	cmbmm	bFgfx	bcm.
Renfrew (Abbots I.)	irff	cff	cFbfofcfc	cfccm
Eskdalemuir	ordr	cpr	c	cm.
Point of Ayre	rfrfc	c	c	crr
Tiree	bcmc	cbcc	cbc	bcc
Stornoway	bcczbcb	bfg	cir.c	cbc
Dalwhinnie	cc	c		cbcc
Aberdeen	cff	cfbczbff	bffbc	bcmcm.
Wick	c	cbc	bcc	cr.r.
Sumburgh	cprc	rrir	cir.bc	bcb
Blacksod Point	pr	d	bc	c
Malin Head	bc	c	r	r
Aldergrove	cmcf	cdfc	cfgcm.	bcm.cpr.
Birr Castle	b	b	*	bc
Valentia Obsy.	pr	bc	pr	bc
Roches Point	bc	bc	b	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 23rd January

Districts	Forecast
1 S.E. England; 2 E. England	Light northwest wind becoming variable. Cloudy with local rain at first; little cloud later but fairly general fog tonight and tomorrow morning; rather cold: night frost
3 E. Midlands; 4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England; 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland; 12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland	Light northwest or west wind becoming variable. Fair or fine at first, fairly general fog later; rather cold; night frost
14 Mid Scotland; 15 N.E. Scotland	Light or moderate east wind; cloudy; local rain or sleet: cold.
16 Orkneys and Shetlands	Light or moderate northeast wind; fair: cold.
17 N. W. Ireland	As 20.
18 N. E. Ireland	As 3-13b
19 S. E. Ireland; 20 S. W. Ireland	Light variable winds becoming southeast moderate or fresh; fine at first, rain to-morrow morning; rather cold, becoming milder.

GENERAL INFERENCE

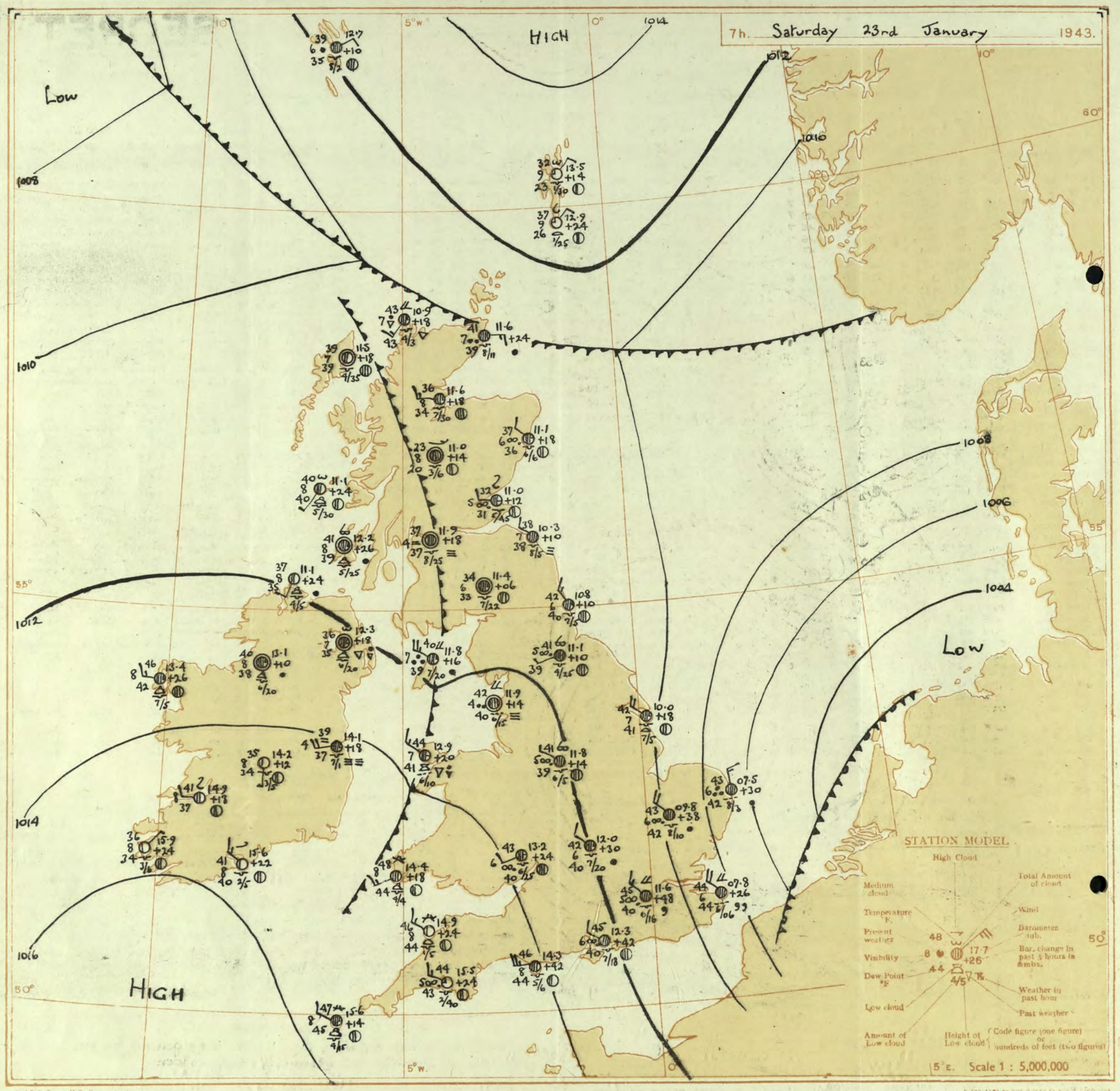
A ridge of high pressure is developing over the British Isles and a trough of low pressure is approaching West Ireland. Weather will become fair or fine later to-day over most of the British Isles but fog will become fairly general during the night, persisting in many districts to-morrow. There will be widespread fog tonight

FURTHER OUTLOOK

Rain in West Ireland spreading slowly east; fairly general fog over much of Great Britain at first; becoming slowly milder.

Forecasts issued at 1300 h.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press M.O., Dunstable

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

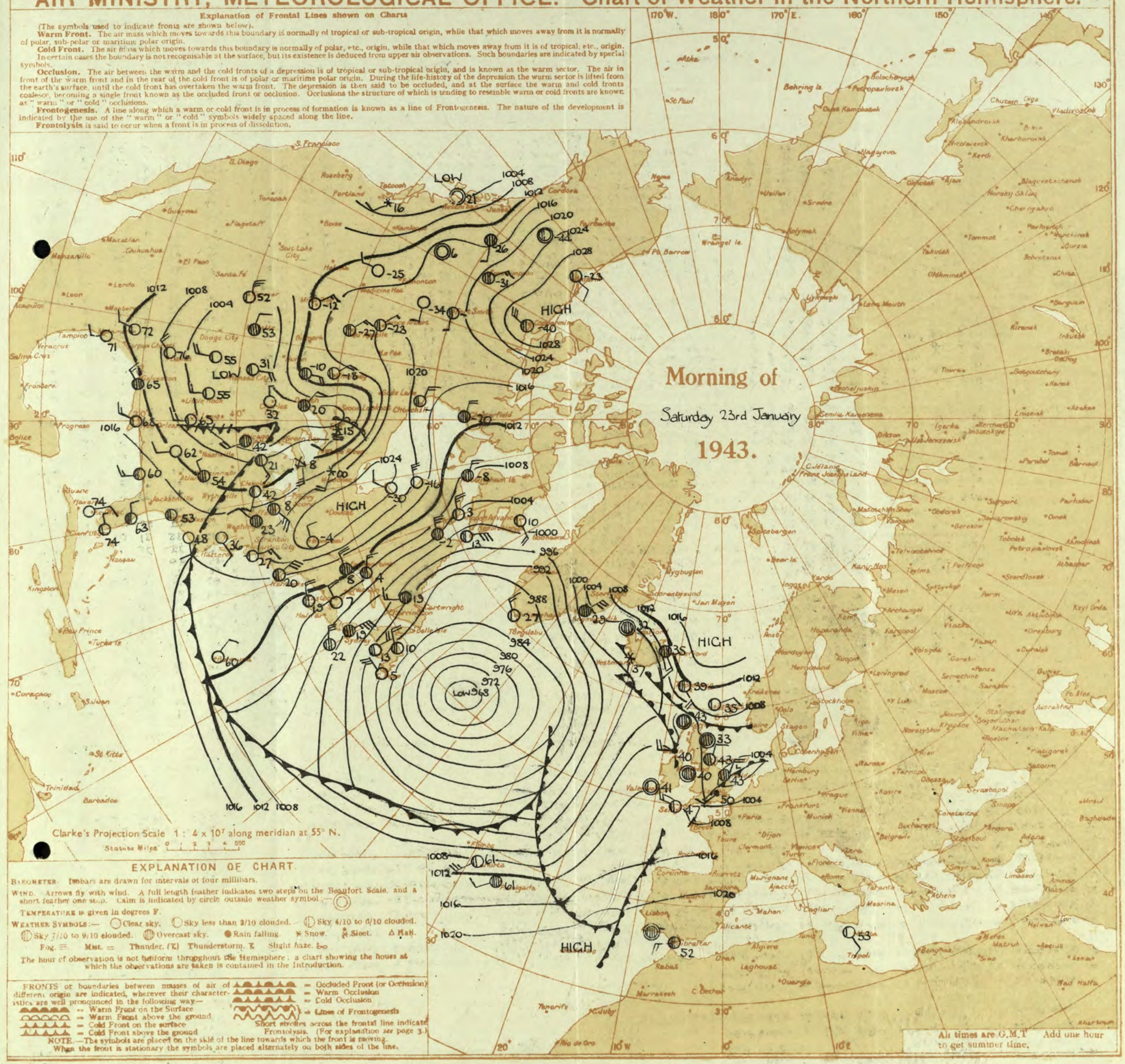
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday, 23rd January 1943

No. 29647

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	49	*	*	*	*	*	*	*	*	*
	Croydon ...	290	05.2	+6	SSW	3	id.	50	97	49	5	5	-	-	10	10	800
	S. Farnborough	226	04.4	+4	SW'S	3	dr	49	97	49	6	5	-	-	10	10	800
	Boscombe Down	417	05.4	+16	NW'N	3	nr.	45	97	45	4	5	2	-	9+	10	700
	Thorney Island	10	04.6	+4	SW'S	2	c/d	49	97	49	6	6	2	-	10	10	4000
	Lympne ...	283	05.6	-2	S	2	ir.	49	97	49	6	5	2	-	9	10	1000
	Manston ...	154	05.0	-2	SW'W	3	Zo	51	92	49	6	5	2	-	7-8	10	1000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	04.2	+2	S'W	3	Zo	44	97	43	6	5	-	-	9	9	3000
	Gorleston ...	5	03.9	+2	SW'W	2	nr.	48	97	48	6	6	-	-	10	10	800
	Mildenhall ...	15	03.8	+2	N'W	3	d.d.	46	97	46	4	5	-	-	10	10	300
	Cranwell ...	203	06.0	+18	N	3	nr	43	97	42	5	6	2	-	7-8	10	800
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	04.6	+18	N	4	r.r.	43	97	43	4	5	2	-	9	10	800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	09.9	+36	N	4	c	47	97	45	8	4	7	-	7-8	10	1500
	Bristol ...	209	07.4	+28	NNW	3	m	45	97	44	4	5	-	-	10	10	500
	Portland Bill ...	32	05.7	+20	W	4	c	49	92	47	7	5	-	-	10	10	2500
	Plymouth ...	82	10.2	+38	NNW	5	bc	47	85	43	8	5	-	-	4-6	4-6	2500
	The Lizard ...	240	11.0	+50	NW	4	c	49	85	45	7	8	6	-	7-8	9+	1500
	Scilly (St. Mary's)	163	11.9	+18	NW'W	3	bc	47	92	45	8	8	4	-	4-6	4-6	1500
	Guernsey ...	175															
6	Pembroke ...	142	09.9	+16	WNW	4	c-bc	48	75	41	8	8	-	-	7-8	7-8	2500
7	Holyhead (Valley)	32	09.3	+18	-	0	c/f	40	97	40	6	5	-	-	9+	9+	2500
	Chester (Sealand)	16	08.1	+18	W	1	Zo	43	92	40	5	5	-	-	10	10	4000
8	Manchester ...	235	07.9	+22	WNW	2	Zo	43	92	40	5	5	2	-	7-8	10	1700
10	Spurn Head ...	29	05.6	+10	N'E	4	Zo	43	97	42	6	5	2	-	4-6	10	2500
	Catterick ...	175	08.1	+12	NNW	2	Zo	42	92	40	6	5	-	-	9+	9+	2000
	Tynemouth ...	108	07.6	+4	NNE	2	c	43	92	40	6	8	-	-	9+	9+	1500
11	St. Abbs Head	280	07.6	+16	WNW	2	F	39	97	39	0	-	-	-	10	10	<150
	Leuchars ...	36	08.0	+10	NW	2	b	34	97	33	7	-	-	-	0	0	-
12	Renfrew (Abbots I.)	19	08.8	+12	-	0	c f	37	97	37	2	-	2	-	0	10	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	08.2	+10	NNW	2	c	46	97	45	7	5	2	-	9	10	2500
13A	Tiree ...	44	07.7	+10	SSE	2	b-bc	44	92	42	8	-	4	5	0	2-3	-
13B	Stornoway ...	15	08.3	+14	-	0	c/r	43	97	43	7	5	-	-	9+	9+	1800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	07.9	+4	-	0	c	33	92	30	8	-	7	-	0	9+	-
	Wick ...	114	08.0	+14	W	2	c	40	97	39	8	8	-	-	9+	9+	3500
16	Sumburgh ...	19	09.3	+18	ENE	4	b-bc	40	65	29	9	1	4	-	Tr	2-3	2500
17	Blacksod Point	18	09.5	+20	W	3	c	45	75	39	8	2	-	-	9	9	4000
18	Malin Head ...	84	07.9	+18	W'S	4	rr	40	92	36	8	-	2	-	10	10	1500
	Aldergrove ...	268	09.3	+14	S	1	Zo	41	97	40	6	5	-	-	10	10	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	11.3	+8	-	0	b-bc	41	97	40	8	5	-	-	2-3	2-3	4000
	Rockes Point	22	11.6	+18	N'E	2	b	43	97	42	8	5	-	-	1	1	2500

OBSERVATIONS at 7 hr. G.M.T. 23rd January

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	11.8	+44	NW'N	3	Zo	45	85	40	6	5	2	-	9+	10	1500	1	*
Croydon ...	11.6	+48	NNW	3	Zo	45	85	40	5	5	2	-	9	10	1600	1	*
S. Farnborough	14.2	+62	NW	3	c	44	92	41	7	5	-	-	10	10	1000	1	*
Boscombe Down	13.3	+30	SW'S	4	Zo	42	92	40	5	-	7	-	7	4-6	-	1	*
Thorney Island	12.3	+42	WNW	2	Zo	45	85	40	6	5	-	-	9+	10	1800	1	*
Lympne ...	08.7	+30	NW	7	ir.	43	97	42	6	5	2	-	7-8	10	500	1	§ 3
Manston ...	07.8	+26	NNW	4	c/d	44	97	44	6	6	2	-	9	10	600	1	*
Shoeburyness ...	09.9	+40	SW	4	Zo	44	92	42	5	5	-	-	10	10	1500	1	*
Felixstowe ...	08.0	+34	NW	4	r.r.	44	92	42	5	5	2	-	7-8	10	800	1	3
Gorleston ...	07.5	+30	N	3	nr	43	97	42	6	6	-	-	10	10	800	1	3
Mildenhall ...	09.8	+38	NNW	4	Zo	43	97	42	6	5	-	-	10	10	1000	1	*
Cranwell ...	10.9	+22	NW	3	id.	42	97	41	6	5	7	-	4-6	10	4000	1	*
Birmingham ...	12.8	+18	WNW	2	Zo	41	85	37	5	-	3	-	0	9	-	1	*
Upper Heyford	12.0	+30	NW	2	Zo	42	92	40	6	5	-	-	9+	9+	2000	1	*
Ross-on-Wye	13.2	+24	W'S	2	Zo	43	85	40	6	5	-	-	9	9	2500	1	*
Hartland Point	14.9	+24	WNW	3	b-bc	46	92	44	8	4	6	-	Tr	2-3	2500	1	3
Bristol ...	14.6	+32	WNW	3	Zo	44	92	41	6	5	7	-	4-6	9+	4000	1	*
Portland Bill ...	14.3	+42	W	5	c-bc	46	92	44	8	5	-	-	7-8	7-8	4000	1	5
Plymouth ...	15.5	+24	WNW	3	Zo	44	97	43	5	5	-	-	1	1	4000	1	3
The Lizard ...	15.3	+16	WNW	3	bc	48	92	46	8	2	6	-	4-6	4-6	2000	1	3
Scilly (St. Mary's)	15.6	+14	WNW	2	c	47	92	45	8	8	6	-	4-6	9+	1500	1	3
Guernsey ...																	
Pembroke ...	14.4	+18	WSW	3	c-bc	48	92	44	8	8	6	-	4-6	7-8	1500	1	2
Holyhead (Valley)	12.9	+20	NW'W	3	c/pr	44	92	41	7	9	-	-	9	9	1000	1	3
Chester (Sealand)	12.3	+14	-	0	m	43	92	41	4	5	2	-	9	10	3400	1	*
Manchester ...	12.1	+12	SE	1	m	41	92	39	4	5	2	-	4-6	10	3100	1	*
Spurn Head ...	10.0	+18	NW'W	4	c	42	97	41	7	7	-	-	9+	9+	2500	1	3
Catterick ...	11.1	+10	W'S	1	Zo	41	92	39	5	5	7	-	4-6	10	2500	1	*
Tynemouth ...	10.8	+10	NNW	3	c	42	85	40	6	5	-	-	9+	9+	2500	1	3
St. Abbs Head	10.3	+10	WNW	2	c	38	97	38	7	5	-	-	10	10	2500	1	2
Leuchars ...	11.0	+12	W	2	Zo	32	97	31	5	5	-	6	7-8	9	4500	1	*
Renfrew (Abbots I.)	11.9	+18	-	0	m	39	97	37	4	5	-	-	10	10	2500	1	*
Eskdalemuir ...	11.4	+6	-	0	c	34	92	33	6	5	-	-	9+	9+	2200	1	*
Point of Ayre ...	11.8	+16	WNW	5	rr	40	92	39	7	-	2	-	9+	9+	2000	1	4
Tiree ...	11.1	+24	SSW	1	c-bc	40	97	40	8	8	3	-	7-8	7-8	3000	1	2
Stornoway ...	11.5	+18	-	0	bc	39	97	39	7	5	-	-	4-6	4-6	3500	1	1
Dalwhinnie ...	11.0	+14	-	0	c-bc	23	85	20	8	5	-	2	2-3	7-8	4000	3	*
Aberdeen † ...	11.1	+18	NW	2	Zo	37	92	36	6	5	-	-	9	9	4000	1	1
Wick ...	11.6	+24	E	3	r.r.	41	92	39	7	5	-	-	10	10	1100	1	*
Sumburgh ...	12.9	+24	NE	2	b	37	65	26	9	1	4	-	Tr	1	2500	1	3
Blacksod Point	13.4	+26	W	3	c	46	85	42	8	8	-	-	9+	9+	2500	1	3
Malin Head ...	11.1	+24	SSW	2	bc	37	92	35	8	8	-	-	4-6	4-6	2500	2	3
Aldergrove ...	12.3	+18	-	0	c/pr	36	92	35	7	8	3	-	9	9+	2000	1	*
Birr Castle ...	14.2	+12	S	1	b-bc	35	97	34	8	5	-	-	2-3	2-3	2500	1	*
Valentia Obsy.	15.9	+24	NE	1	b-bc	36	92	34	8	5	-	-	2-3	2-3	4000	1	1
Rockes Point	15.6	+22	NW	3	b-bc	41	97	40	8	5	-	1	1	2-3	2500	1	3

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Temperature Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 22nd Hrs. (38)
London (Kew)	52	44	40	0.2	2	0.8
Croydon ...	55	43	42	0.4	1	1.9
S. Farnborough	54	43	42	0.3	2	1.4
Boscombe Down	51	41	38	Tr	3	0.2
Thorney Island	51	43	40	Tr	2	*
Lympne ...	53	43	41	-	1	4.4
Manston ...	55	44	43	-	0.1	2.8
Shoeburyness ...	53	44	43	-	2	0.9
Felixstowe ...	51	42	40	0.2	2	1
Gorleston ...	52	43	43	0.1	4	1.0
Mildenhall ...	54	42	42	0.1	6	0.3
Cranwell ...	50	41	40	2	7	0.0
Birmingham ...	49	41	38	1	9	0.0
Upper Heyford	50	42	40	0.1	2	*
Ross-on-Wye	51	43	40	0.1	6	0.1
Hartland Point	53	41	41	2	Tr	0.6
Bristol ...	53	44	42	0.1	6	0.3
Portland Bill ...	51	44	*	0.4	-	*
Plymouth ...	53	43	38	0.5	-	0.7
The Lizard ...	52	46	*	1	-	0.0
Scilly (St. Mary's)	52	46	*	-	-	0.0
Guernsey ...						
Pembroke ...	51	44	*	7	-	0.0
Holyhead (Valley)	47	38	29	0.6	4	*
Chester (Sealand)	45	42	40	4	Tr	0.0
Manchester ...	47	41	39	10	3	*
Spurn Head ...	46	41	*	6	2	0.0
Catterick ...	43	41	38	6	Tr	0.0
Tynemouth ...	46	42	39	7	-	*
St. Abbs Head	45	36	*	0.2	Tr	*
Leuchars ...	45	32	28	0.1	-	1.4
Renfrew (Abbots I.)	45	35	31	0.1	-	0.0
Eskdalemuir ...	45	32	25	1	-	0.0
Point of Ayre ...	46	40	*	1	*	1.0
Tiree ...	48	39	31	-	-	0.0
Stornoway ...	50	38	31	0.2	0.3	5.1
Dalwhinnie ...	44	29	15	-	-	1.8
Aberdeen † ...	41	33	25	-	-	1.4
Wick ...	46	36	33	-	3	*
Sumburgh ...	47	36	29	3	0.2	0.0
Blacksod Point	49	40	*	1	3	*
Malin Head ...	46	35		-	4	5.8
Aldergrove ...	45	35	29	0.3	Tr	0.0
Birr Castle ...	52	34	28	-	-	3.2
Valentia Obsy.	52	35	30	Tr	Tr	4.7
Rockes Point	52	38	*	-	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 22nd January $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	III	01h. G.M.T. 23rd January $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	8-	02656	20326	52	02746	25288	8-	81756	09356	52	61746	09328	
115	37	81844	20487	87	10844	20387	52	62834	20367	52	81734	20387	
203	84	01853	16424	80	02845	16425	8-	02946	16316				
206	54	05761	28123	54	05661	26112	5-	02765	24325	5-	02867	24327	
210	53	01873	23-87	03	01890	20114	5-	02867	21127	57	22866	21168	
220	50	01844	15214	53	01744	13214				57	02744	10117	
230	5-	05747	00027	50	05563	00023	53	05763	14225	53	05663	08226	
245	07	05690	24227	04	05690	24101	03	05690	23214	5-	02777	24127	
260	57	44346	00048	00	44008	00049	--	41409	24149	--	46309	00049	
278	62	51637	00068	52	05647	00058	50	05554	00024	52	62746	28267	
279	57	02763	05367	53	04666	03126	57	05552	22127	62	52434	17158	
285													
288	62	62446	02268	62	61436	32328	5-	08453	28267	57	08466	15168	
575	5-	02738	00048	--	57209	00049	5-	21854	00054	8-	02856	00066	
301	02	62438	04268	5-	47344	08163	00	45390	00040	62	62446	00048	
321													
2[illegible]	--	67209	20269	5-	61748	02568	54	02754	02415	5-	04758	32228	
292	62	62635	32268	62	62646	32268	50	05565	32125	5-	05648	00028	
310	--	57109	20259	--	53428	02348	.			--	02628	26328	
614	5-	45238	04168	62	67334	02358	62	22546	02468	57	05554	28226	

III	13h. G.M.T. 22nd January $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	III	01h. G.M.T. 23rd January $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	62	61635	01368	8-	05644	02224	5-	02665	24115	52	65155	00067	
334	--	63437	26288	--	25647	26288				--	01642	24214	
340	02	45248	28168	--	54209	30259	52	41445	32268	57	08454	20128	
136	03	05690	18366	5-	62548	24168	02	62418	32268	5-	05655	32368	
336	52	05545	12328	--	57303	08359							
350	57	05655	18328	02	62448	17168	62	52425	30458	53	05544	29357	
368	53	05554	14117				83	01554	24115	54	05654	24114	
379	62	05634	18468	--	57209	18359	5-	51428	34558	53	05644	30357	
390	53	05554	17365	5-	67348	18368	5-	08438	00048	5-	41646	30468	
382	52	02747	17428	5-	22638	19168	52	62635	35458	5-	05648	31368	
438	54	01753	20413	5-	62638	22448				8-	05648	30448	
430	5-	02757	16317	53	62647	18258	5-	52527	20358	5-	05647	28327	
409	5-	20736	2222-	52	21625	31558	57	02756	30428	20	02855	26325	

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 23rd January
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution, Milligrams of solid impurity per cubic metre.
Kew ...	cmjwc	cmirm	irrmc	
Croydon ...	cmjbc	cmcmrr	rrcajm	
Greenwich ...	cbc	bccr	rrcm	Kew 24 hours ended 7 Max. Time
Camden Square	c	c	*	0.3 17-20h 22nd
Kensington ...	bcc	cor	*	Min. Time
Hampstead ...	bc	or	o	<0.1 0-6h 23rd

Stations.	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 % Yesterday	Humidity 9h % To-day
Kew ...	52	44	40	0.2	2	0.8	*	*
Croydon ...	55	43	42	0.4	1	1.9	*	*
Greenwich ...	55	43	42	Tr	2.3	1.0	77	84
Westminster ...	55	44	42	1.6			77	86
Regents Park ...	54	43	41	-	1.6		74	84
Camden Square	55	44	41	0.3	1.8	*	*	85
Kensington ...	56	43	41	Tr	1.9		89	84
Hampstead ...	53	40	38	-	2.3		*	94

SECRET

Page 1 **BRITISH SECTION**

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

SUNDAY 24th January 1943.

No. 29648

OBSERVATIONS at 13h. G.M.T. 23rd January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	17·8	+18	WNW	2	Zo	48	65	36	6	1	-	6	Tr	4-6	2500
	Croydon	17·6	+22	WNW	1	Zo	47	75	39	5	-	-	5	Tr	2-3	2000
	S. Farnborough	18·2	+18	W	2	c	51	65	40	8	5	4	5	2-3	10	2000
	Boscombe Down	18·4	+14	W'N	3	c	48	75	39	7	1	3	-	1	9	2500
	Thorney Island	18·0	+18	WNW	3	b	49	75	41	7	1	-	1	1	1	2500
	Lympne	16·3	+24	NW	3	ido	45	85	42	6	5	-	-	7-8	9+	700
	Manston	16·8	+36	WNW	3	ido	45	97	44	5	5	-	-	9+	9+	1200
2	Shoeburyness	17·3	+24	NW	2	Zo	46	85	43	6	5	-	9	4-6	4-6	1500
	Felixstowe	16·0	+46	NW'W	3	bc/+	45	92	42	6	-	7	-	0	4-6	-
	Gorleston	15·3	+46	NW'N	3	c/+	44	85	41	7	8	-	-	9	9	900
	Mildenhall	15·8	+14	NW	2	Zo	48	85	42	6	5	4	-	2-3	2-3	2000
	Cranwell	16·0	+14	W	3	iro	46	85	42	4	5	-	-	9+	9+	2500
3	Birmingham	17·2	+20	NW	2	m	43	75	36	4	8	-	-	4-6	4-6	1500
	Upper Heyford	17·1	+8	WNW	3	c	47	85	41	7	8	7	-	7-8	9+	1500
4	Ross-on-Wye	17·9	+14	NW	3	bc	47	75	39	8	8	-	1	4-6	4-6	3500
5	Hartland Point	18·7	+16	WSW	2	bc	48	85	48	8	2	4	6	1	4-6	2500
	Bristol	18·0	+14	W	3	bc/pr	49	75	42	6	8	-	3	4-6	4-6	2500
	Portland Bill	18·9	+14	W	4	c	48	92	46	8	1	3	-	4-6	9	4000
	Plymouth	20·1	+20	W	3	c	53	85	48	7	8	7	5	4-6	9	3500
	The Lizard	19·7	+18	WNW	3	bc	54	85	48	8	8	4	-	4-6	4-6	2500
	Scilly (St. Mary's)	20·4	+18	W	2	bc	54	75	48	8	8	4	1	4-6	4-6	1500
	Guernsey															
6	Pembroke	19·8	+26	WNW	3	bc	49	75	42	8	2	7	-	4-6	4-6	2500
7	Holyhead (Valley)	17·5	+14	W	3	b-bc	47	75	41	8	2	6	-	Tr	2-3	2000
	Chester (Sealand)	17·2	+16	NW'N	2	pr	44	85	40	8	8	6	-	7-8	7-8	2000
8	Manchester	17·2	+16	SW	2	Zo	44	85	40	6	2	-	-	4-6	4-6	2500
10	Spurn Head	15·4	+0	W'N	3	Zo	43	92	41	5	7	3	-	7-8	9	1500
	Catterick	16·4	+22	-	0	Zo	45	85	40	6	5	7	-	4-6	9+	4500
	Tynemouth	15·9	+14	NNE	2	Zo	45	85	39	6	-	3	-	0	4-6	-
11	St. Abbs Head	14·8	+14	WNW	1	bc	41	97	40	6	1	4	-	2-3	4-6	3500
	Leuchars	15·5	+18	-	0	Zo	42	75	35	6	5	3	1	Tr	4-6	6000
12	Renfrew (Abbots I.)	16·2	+18	-	0	F-	37	92	37	1	-	-	-	10	10	<150
	Eskdalemuir	15·2	+10	SE'S	2	Zo	44	85	38	6	7	-	-	Tr	Tr	2500
	Point of Ayre	16·3	+18	NW	2	bc	46	85	40	8	8	-	-	4-6	4-6	2500
13A	Tiree	15·8	+20	SSW	3	bc	46	85	42	8	2	3	2	2-3	4-6	3000
13B	Stornoway	15·3	+18	SW	4	b-bc	46	92	44	8	1	4	5	Tr	2-3	2800
15	Dalwhinnie	15·5	+14	WSW	1	b	41	75	33	8	-	-	1	0	1	-
	Aberdeen	16·2	+20	NW	1	cf+	40	97	39	3	5	2	-	9	10	1500
	Wick	15·7	+12	ESE	3	ito	41	85	37	8	5	-	-	10	10	1500
16	Sumburgh	15·9	+14	N	2	bc	40	65	28	9	5	3	4	Tr	4-6	3500
17	Blacksod Point	17·1	+18	SW	2	c	49	75	41	8	-	-	7	0	9+	-
18	Malin Head	15·7	+20	SW	3	c/+	44	85	40	8	8	2	-	4-6	9+	2500
	Aldergrove	17·7	+22	S'W	2	bc	45	85	39	7	7	7	5	2-3	4-6	2000
19	Birr Castle	18·3	+20	S	2	c-bc	45	85	41	8	5	-	-	7-8	7-8	2500
20	Valentia Obsy.	19·0	+10	S	4	c-bc	49	75	41	8	-	-	2	0	7-8	-
	Roches Point	20·0	+16	N	2	bc	44	85	40	8	-	3	5	0	4-6	-

OBSERVATIONS at 18h. G.M.T. 23rd January

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	22·9	+36	NNW	2	Zo	44	75	37	5	6	-	8	1	2-3	2500	1	*
Croydon	22·7	+30	NW'W	2	m/pr	46	85	40	4	5	-	-	Tr	Tr	2500	1	*
S. Farnborough	22·7	+20	NW'N	2	Zo	45	85	39	6	4	7	-	2-3	2-3	3000	1	*
Boscombe Down	23·3	+34	N'W	2	Zo	42	85	39	6	-	-	8	0	2-3	-	1	*
Thorney Island	22·3	+18	WNW	1	Zo	44	92	42	5	-	4	1	0	1	-	1	*
Lympne	21·8	+26	W	1	Zo	43	92	41	5	-	7	-	0	7-8	-	1	§2
Manston	21·4	+16	W'N	1	Zo	43	92	41	5	5	-	-	9+	9+	6000	1	*
Shoeburyness	21·9	+28	N	2	++	45	92	42	5	-	2	-	10	10	800	1	*
Felixstowe	21·3	+34	WNW	3	pr	45	85	40	5	8	7	-	7-8	7-8	3000	1	3
Gorleston	20·2	0	NW	2	c/pr	45	85	40	5	5	-	-	9	9	800	1	2
Mildenhall	21·1	+30	SW'W	2	Zo	43	92	40	6	4	-	-	9+	9+	3900	1	*
Cranwell	21·3	+30	WNW	3	Zo	40	92	38	5	-	7	-	0	7-8	-	1	*
Birmingham	22·2	+22	NW	1	bf+	42	85	38	3	-	-	-	0	0	-	1	*
Upper Heyford	22·2	+30	WNW	1	b	39	92	36	6	4	-	-	Tr	1	4000	1	*
Ross-on-Wye	22·0	+30	S'W	1	b	43	75	37	8	5	-	-	1	1	3000	1	*
Hartland Point	22·5	+26	ESE	2	b-bc	46	88	41	8	4	-	-	2-3	2-3	2500	1	3
Bristol	23·5	+22	W	1	b-bc	40	92	37	5	8	-	5	Tr	2-3	4000	1	*
Portland Bill	21·7	+16	W	4	bc	49	85	45	8	5	-	-	4-6	4-6	4000	1	4
Plymouth	23·3	+22	WNW	2	Zo	47	97	46	6	8	7	-	2-3	4-6	2600	1	2
The Lizard	22·5	+14	WNW	3	bc	49	92	47	8	2	-	-	4-6	4-6	2000	1	3
Scilly (St. Mary's)	23·2	+14	SW'W	1	b-bc	49	92	46	8	8	-	3	2-3	2-3	1400	1	3
Guernsey																	
Pembroke	22·9	+16	W'S	2	b-bc	45	75	38	8	1	-	-	2-3	2-3	3000	1	2
Holyhead (Valley)	21·4	+20	-	0	bc	40	97	39	8	2	-	-	4-6	4-6	2000	1	1
Chester (Sealand)	21·7	+26	-	0	b-bc	38	92	37	6	5	4	-	1	2-3	3000	1	*
Manchester	21·9	+30	-	0	m	39	92	39	4	-	-	-	0	0	-	1	*
Spurn Head	20·8	+14	W'N	3	Zo	41	92	39	6	-	-	-	0	0	-	1	2
Catterick	21·6	+20	W	3	Zo	41	85	38	6	5	3	-	4-6	7-8	4500	1	*
Tynemouth	21·1	+36	NNE	1	m	42	85	39	4	2	4	-	2-3	4-6	2500	1	2
St. Abbs Head	19·3	+18	-	0	bc	42	92	40	6	5	-	-	4-6	4-6	4000	0	1
Leuchars	19·7	+22	-	0	m	36	92	34	4	-	4	1	0	1	-	1	*
Renfrew (Abbots I.)	19·8	+24	-	0	cf	35	97	35	0	-	-	-	10	10	<150	1	*
Eskdalemuir	21·1	+26	SSW	1	cf	38	97	37	2	5	-	-	10	10	<150	1	*
Point of Ayre	20·4	+8	-	0	b	41	85	37	8	-	-	8	0	Tr	-	1	1
Tiree	17·5	+4	S'E	4	c/d	45	92	44	8	5	-	-	9	9+	1800	1-	3
Stornoway	17·6	+18	S	2	c	45	97	45	8	5	-	-	10	10	2200	1	1
Dalwhinnie	19·0	+24	NE	1	b-bc	30	85	26	8	5	-	1	1	2-3	2500	3	*
Aberdeen	20·2	+26	SE	2	cf+	42	92	40	3	5	2	-	4-6	10	1500	1	r
Wick	18·3	+4	SE	3	c	42	92	40	8	5	2	-	9	10	900	1	*
Sumburgh	19·2	+20	-	0	c	36	85	31	9	5	7	7	Tr	9	5000	1	2
Blacksod Point	17·1	+2	SSW	4	bc	48	75	40	8	5	4	6	2-3	4-6	4000	1	3
Malin Head	16·7	-2	S'W	3	c-bc	44	85	40	8	8	-	-	7-8	7-8	2500	2	3
Aldergrove	20·1	+10	S	1	b-bc	36	97	35	8	5	7	1	1	2-3	2500	1	*
Birr Castle	19·6	+4	SSW	1	b-bc	38	85	34	8	-	4	-	0	2-3	-	1	*
Valentia Obsy.	19·3	+2	S'E	4	b-bc	48	92	46	8	1	-	1	1	2-3	2500	1	2
Roches Point	21·3	+6	S	2	c-bc	47	85	43	8	5	-	-	7-8	7-8	1500	1	3

PAST 24 HOURS.

Stations	Weather 7h.–13h. 23rd (39)	Weather 13h.–18h. 23rd (40)	Weather 18h. 23rd to 1h. 24th (41)	Weather 1h.–7h. 24th (42)
London (Kew)	iromobczo	cprobzo	oFox	bzofFx
Croydon	cmoccmobcmo	cmpro bm	bmfwx	bfebcm
S. Farnborough	cmobc	b ccbbcmo	bcmobmx	bmfFcbcfx
Boscombe Down	bcmocmoc	cbcbcmo	bcmobFxifg	bFbcFm
Thorney Island	cmofbcb	bccbmo	bmofxbmo	bbxmo
Lympne	cmotodo	cmoido	cmorbfo	bfm wx
Manston	ciro	ciromobc	cmobmf	bfFx
Shoeburyness	omocidomo	cmozcrrmo	bz	bmobm
Felixstowe	citoRmobcmo	cmobcprmo	bcmo bm	bmwfox
Gorleston	cpo oto	cpro	cbczo w	czo
Mildenhall	cm cro bcmo	bcmocprcmo	cmobmx	bmxbfx
Cranwell	cmcmoiro	cirbocmo	bmbf	bfbFx
Birmingham	cbc pro	bcmf		bxc
Upper Heyford	cmoprobcmo	bro8cmo	bmobm	bmbcmx
Ross-on-Wye	bccpobc	bcb	bb	bmox
Hartland Point	bccido	bccpobc	bcbbc	cbcw
Bristol	bcmopromo	bmo	bmox	bbccmx
Portland Bill	bcc	cbc	bcc	cc
Plymouth	bmo mbc	cpromo	bcmofm	cfbcmf
The Lizard	bc	bc	cbcw	bcw
Scilly (St. Mary's)	cbc	bccbc	bcbbw	bcbcW
Guernsey				
Pembroke	bc	bc	bc	c
Holyhead (Valley)	bcco	cbc	bc	c
Chester (Sealand)	cmpro		cmbFF	bcFcf
Manchester	rofp HR	bcmomc	bFF	bbcffcmo
Spurn Head	cm	bmo	bmo	cmo
Catterick	cbccmo	cmobmobcmo	bcmobf	bcff
Tynemouth	cbcmo	bcmo	bcmbcf	bcffm
St. Abbs Head	cmobcmo	bcmobbcmo	bcmifob	bifbc
Leuchars	cmcmcbcmo	bcmobm	bmofw	cm
Renfrew (Abbots I.)	Fidofe	oF	cFcFe	cFecm
Eskdalemuir	cmobcb	bzomf	ofm	ommo
Point of Ayre	cbc	bcb	cbccb	bbcc
Tiree	cbc	bccidmo	c	c
Stornoway	bccbbb	bo c	c	c
Dalwhinnie	c, b	bbcb	*	b, o
Aberdeen	c++cf	cFF	cfbczo	bcczo
Wick	cotodododoc	cdodoc	vbc	c
Sumburgh	bc	bcc	c	c
Blacksod Point	bc	bc	f	pr
Malin Head	+	+	f	c
Aldergrove	bcfbcmobc	bc	c	cbccmo
Birr Castle	c	bc	*	c
Valentia Obsy.	bc	bc	pr	pr
Roches Point	c	bc	c	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 24th January 1943

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Light or moderate south wind; mainly dry; local fog, rather cold.
4 W. Midlands; 5 S.W. England ✦; 6 South Wales ✦; 7 North Wales ✦; 8 N.W. England ✦	Moderate or fresh south wind, strong to gale locally on coasts; cloudy at first; occasional rain later, mild.
9 N. Midlands; 10 N.E. England; 11 S.E. Scotland ✦	Moderate south wind, freshening, strong locally later; cloudy; occasional rain later; local fog at first; mild.
12 S.W. Scotland & Isle of Man ✦; 13A W. Scotland ✦; 13B N.W. Scotland ✦; 14 Mid Scotland; 15 N.E. Scotland ✦	Moderate or fresh south wind, strong to gale locally on coasts; cloudy, occasional rain, mild.
16 Orkneys and Shetlands ✦; 17 N.W. Ireland ✦; 18 N.E. Ireland ✦; 19 S.E. Ireland ✦; 20 S.W. Ireland ✦	As 12-15.

GENERAL INFERENCE

Pressure is high to south and east of the British Isles and low to the northwest. A trough of low pressure west of Ireland is moving northeast. In the north and west of the British Isles weather will be cloudy and mild with occasional rain. In the southeast weather will be mainly dry and rather cold with local fog.

FURTHER OUTLOOK

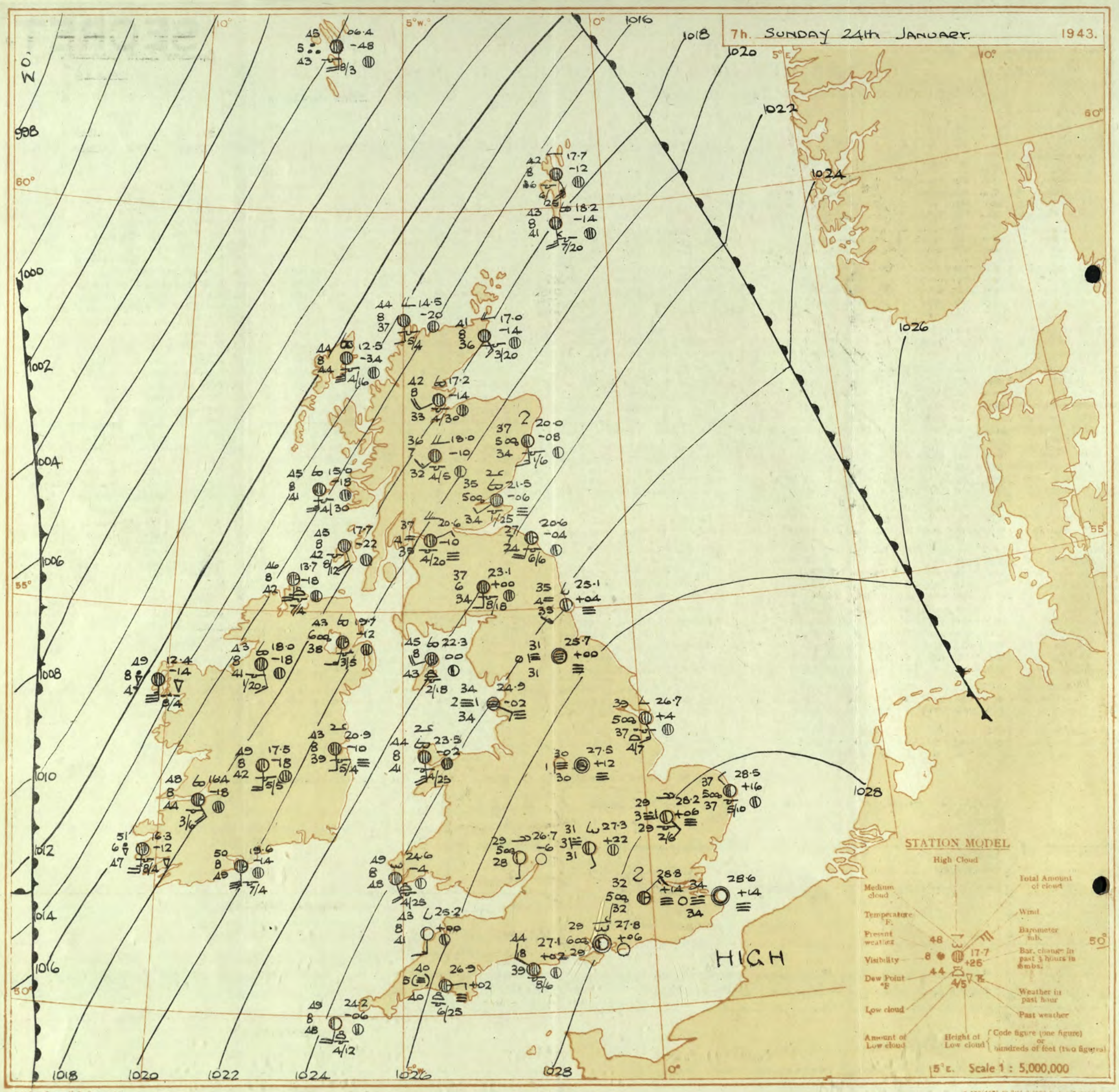
Unsettled and mild in the West and North with occasional rain. Cloudy and rather cold in the Southeast with slight rain locally.

✦ Gale warning in operation in districts 13A, 13B, 17, 18 time of issue 0730 G.M.T. 24. Jan. 1943
" " " " " 5 (part of) 6, 7, 8, 11, 12, 15, 16, 19, 20 time of issue 0930 G.M.T. 24. Jan. 1943

Forecasts issued at 1030.

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

Meteorological Office, Air Ministry, Kingsway, London, W.C.2


7h. SUNDAY 24th JANUARY 1943.
HIGH
STATION MODEL
High Cloud
Medium cloud
Temperature °F.
Present weather
Visibility
Dew Point °F
Low cloud
Amount of Low cloud
Height of Low cloud
Code figure (one figure) or hundreds of feet (two figures)
Total Amount of cloud
Wind
Barometer mb.
Bar. change in past 3 hours in 0·1 mbs.
Weather in past hour
Past weather
Scale 1 : 5,000,000
H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

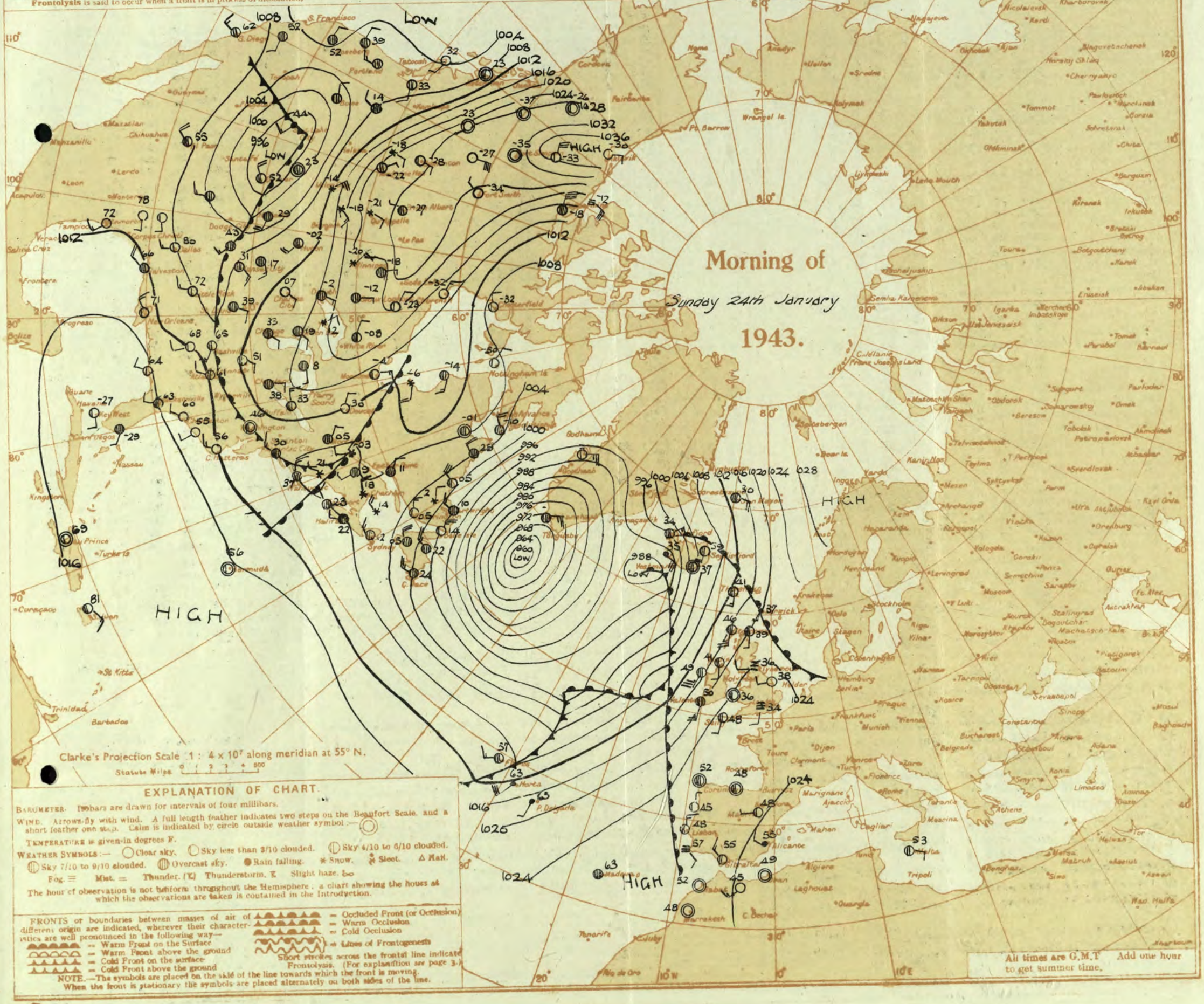
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

SUNDAY 24th January 1943
No. 29648

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	34	*	*	*	*	*	*	*	*	*
	Croydon	290	26·2	+14	S	2	bf	34	97	33	3	-	-	-	0	0	-
	S. Farnborough	226	26·8	+18	-	0	m	30	97	30	4	-	-	-	0	0	-
	Boscombe Down	417	26·8	+14	-	0	bF	34	97	34	1	-	-	-	0	0	-
	Thorney Island	10	26·3	+16	-	0	m	34	97	34	4	-	-	-	0	0	-
	Lympne	283	26·2	+18	WSW	2	bf-	34	97	34	3	-	-	-	0	0	-
	Manston	154	25·8	+16	NW	2	bf	37	97	37	3	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	25·3	+10	WNW	1	m	38	92	37	4	-	-	-	0	0	-
	Gorleston	5	24·9	+18	WNW	2	z_0	38	92	35	5	-	-	-	0	0	-
	Mildenhall	15	25·7	+18	SW'W	3	m	34	97	34	4	-	-	-	0	0	-
	Cranwell	203	25·1	+16	W	2	bf+	35	97	35	3	-	-	-	0	0	-
3	Birmingham	536	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	26·1	+16	SE	1	m	35	92	33	4	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	25·2	+8	SW	2	bc	47	85	43	8	5	-	4	4-6	4-6	2500
	Bristol	209	27·3	+18	-	0	z_0	33	97	32	5	-	-	5	0	Tr	-
	Portland Bill	32	25·9	+16	NW'N	2	c	45	85	40	8	2	-	-	9	9	4000
	Plymouth	82	26·4	+10	-	0	m	40	97	40	4	5	-	-	Tr	Tr	4000
	The Lizard	240	25·8	+10	WSW	3	bc	47	97	47	8	8	-	-	4-6	4-6	2000
	Scilly (St. Mary's)	163	25·3	+2	S'W	2	bc	48	97	47	8	8	-	-	4-6	4-6	1200
	Guernsey	175															
6	Pembroke	142	25·0	+4	SSE	2	bc	47	85	42	8	2	4	-	4-6	4-6	3000
7	Holyhead (Valley)	32	23·8	+10	SSE	4	=-bc	45	92	43	8	-	3	5	0	7-8	-
	Chester (Sealand)	16	25·1	+14	-	0	bF-	33	92	31	1	-	-	-	0	0	-
8	Manchester	235	25·7	+16	ESE	1	bF	32	97	32	1	-	-	-	0	0	-
10	Spurn Head	29	25·4	+24	WSW	1	z_0	38	92	37	5	-	-	-	0	0	-
	Catterick	175	25·6	+24	-	0	cbcf	32	97	32	3	-	7	-	0	7-8	-
	Tynemouth	108	25·2	+16	W	2	bf	36	97	34	2	-	-	-	0	0	-
11	St. Abbs Head	280	21·8	+18	SSW	4	b	36	97	36	7	5	-	-	Tr	Tr	4000
	Leuchars	36	23·2	+12	W	2	f-	34	97	34	3	-	-	-	10	10	<150
12	Renfrew (Abbots I.)	19	22·3	+4	ENE	1	vF-	36	97	36	1	5	2	-	9	9+	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	23·0	+8	S'W	2	b-bc	40	97	39	8	*	*	*	2-3	2-3	5000
13A	Tiree	44	18·0	-14	SSW	4	c	46	92	44	8	5	3	7	2-3	10	4000
13B	Stornoway	15	16·9	-14	S	5	c	46	97	45	8	5	1	-	4-6	10	1800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	20·9	-2	-	c	b	36	85	33	7	-	-	-	0	0	-
	Wick	114	19·4	+4	S	1	bc	39	92	38	8	4	-	-	4-6	4-6	2000
16	Sumburgh	19	20·7	+2	S	3	c	41	75	35	8	5	2	-	9+	10	2500
17	Blacksod Point	18	15·3	-10	S'W	7	c	49	85	45	8	9	-	-	9+	9+	2500
18	Malin Head	84	17·6	-2	S	3	bc	41	75	24	8	8	-		4-6	4-6	2500
	Aldergrove	268	21·4	-12	SSE	2	z_0	38	92	35	6	5	5	6	1	9	4000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	18·9	-6	S	5	ojp	50	85	46	7	5	-	-	10	10	1500
	Roches Point	22	21·7	-6	S	4	bc	49	92	47	8	5	-	6	1	4-6	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	28·8	+8	-	0	F	31	97	31	1	-	-	-	10	10	<150	1	*
Croydon	28·8	+14	NE	3	z_0	32	97	32	5	-	-	6	0	9	-	1	*
S. Farnborough	28·6	+6	SE'S	2	bcf+	29	97	29	2	5	4	1	1	4-6	2000	1	*
Boscombe Down	28·1	+4	E'N	1	bcf-	30	97	30	3	-	-	2	0	4-6	-	3	*
Thorney Island	27·8	+6	-	0	z_0	29	97	29	6	-	3	8	0	2-3	-	3	*
Lympne	28·9	+12	-	0	z_0	34	97	34	5	-	-	1	0	1	-	1	§ 1
Manston	28·6	+14	-	0	bF	34	97	34	0	-	-	-	0	0	-	1	*
Shoeburyness	28·3	+10	S	1	m	31	97	31	4	-	-	-	0	0	-	3	*
Felixstowe	27·9	+4	ENE	1	m/f	35	92	33	4	-	-	1	0	1	-	1	1
Gorleston	28·5	+16	NWW	2	z_0	37	97	37	5	6	-	-	7-8	7-8	1000	0	1
Mildenhall	28·2	+6	SE	2	bcf-	29	97	29	3	5	-	2	1	4-6	4000	1	*
Cranwell	27·0	+2	SW	2	bF	32	97	32	0	-	-	-	0	0	-	1	*
Birmingham	26·4	0	S	2	z_0	34	97	33	6	-	7	8	0	9	-	1	*
Upper Heyford	27·3	+22	S'E	1	bcF+	31	97	31	3	-	5	-	0	4-6	-	1	*
Ross-on-Wye	26·7	+6	S	1	z_0	29	97	28	5	-	-	2	0	2-3	-	1	*
Hartland Point	25·2	0	S	3	b-bc	43	92	41	8	-	4	1	0	2-3	-	1	3
Bristol	27·9	+4	ESE	1	m	34	97	33	4	-	4	2	0	4-6	-	3	*
Portland Bill	27·1	+2	WNW	3	c	44	85	39	8	5	-	-	10	10	4000	1	4
Plymouth	26·9	+2	E	1	cjf	40	97	40	5	8	-	-	9+	9+	2500	1	1
The Lizard	25·5	-4	SW	4	b-bc	49	92	47	8	7	-	-	2-3	2-3	2000	1	4
Scilly (St. Mary's)	24·2	-6	S'W	4	bc	49	92	48	8	8	-	-	4-6	4-6	1200	1	3
Guernsey																	
Pembroke	24·6	-4	SSE	4	c	49	92	48	8	8	3	-	4-6	10	2500	1	2
Holyhead (Valley)	23·5	-2	SSE	5	c	44	85	41	8	5	7	7	4-6	10	2500	1	4
Chester (Sealand)	25·0	-2	SE	1	cf	33	92	31	3	5	3	-	Tr	9+	4000	3	*
Manchester	26·7	+10	SE	3	z_c	35	97	35	5	5	3	6	4-6	9	2500	1	*
Spurn Head	26·7	+4	S'E	3	z_0	39	92	37	5	7	1	-	4-6	7-8	5700	1	3
Catterick	25·7	0	-	0	F+	31	97	30	0	-	-	-	10	10	<150	1	*
Tynemouth	25·1	+4	W	3	m	35	97	35	4	-	4	-	0	4-6	-	1	3
St. Abbs Head	20·6	-4	SSW	4	c	27	85	24	7	5	-	-	9	9	4000	0	3
Leuchars	21·5	-6	WSW	1	z_0	35	97	34	6	5	7	7	Tr	10	2500	1	*
Renfrew (Abbots I.)	20·6	-10	ENE	1	m	37	92	35	4	5	2	-	4-6	10	2000	1	*
Eskdalemuir	23·1	0	S	2	o	37	85	34	6	5	-	-	10	10	1800	1	*
Point of Ayre	22·3	0	W'S	4	c	45	92	43	8	8	7	7	1	10	1800	0	3
Tiree	15·0	-18	S	5	c	45	85	41	8	5	7	-	4-6	10	3000	1	5
Stornoway	12·5	-34	S	7	c	44	97	44	8	5	7	-	4-6	10	1600	1	5
Dalwhinnie	18·0	-10	SW	3	c	36	85	32	7	5	2	-	4-6	10	2500	0	*
Aberdeen †	20·0	-8	S	3	z_0	37	92	34	5	5	-	6	Tr	7-8	4000	1	2
Wick	17·0	-14	SSE	3	c	41	85	36	8	5	2	-	2-3	10	2000	1	*
Sumburgh	18·2	-14	S'E	5	c	43	92	41	8	5	7	-	9+	10	2000	1	3
Blacksod Point	12·4	-14	S	7	pr_0	49	92	47	8	6	-	-	10	10	1500	1	5
Malin Head	13·7	-18	S	5	c	46	85	42	8	8	-	-	9+	9+	1500	2	4
Aldergrove	19·7	-12	S'W	3	z_0	43	85	38	6	5	7	-	2-3	9+	2500	1	*
Birr Castle	17·5	-18	S	4	c-bc	49	75	42	8	5	-	-	7-8	7-8	2500	1	*
Valentia Obsy.	16·3	-12	S	5	pr_0	51	85	47	6	5	-	-	10	10	1500	1	4
Roches Point	19·6	-14	S	6	c	50	97	47	8	5	-	-	9+	9+	1500	1	5

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 23rd Hrs. (38)
London (Kew)	49	30	21	0·1	Tr	2·7
Croydon	49	31	28	0·1	-	1·8
S. Farnborough	51	26	20	-	-	3·2
Boscombe Down	49	27	21	Tr	-	3·4
Thorney Island	51	29	22	Tr	-	0·0
Lympne	46	30	24	Tr	3	1·3
Manston	46	34	29	0·1	2	2·8
Shoeburyness	49	30	23	0·3	0·4	[illegible]
Felixstowe	49	34	27	1	0·1	2[illegible]
Gorleston	45	37	33	2	-	0·2
Mildenhall	49	29	24	3	Tr	2·8
Cranwell	47	30	27	1	-	1·4
Birmingham	46	34	23	0·4	0·1	4·5
Upper Heyford	48	31	25	0·1	-	*
Ross-on-Wye	49	29	21	Tr	-	4·5
Hartland Point	48	40	30	Tr	-	1·3
Bristol	49	27	23	Tr	-	5·0
Portland Bill	50	43	*	-	-	*
Plymouth	54	39	31	Tr	-	3·9
The Lizard	54	46	*	-	-	7·9
Scilly (St. Mary's)	56	45	*	-	Tr	5·8
Guernsey						
Pembroke	49	43	*	-	-	3·2
Holyhead (Valley)	48	36	27	-	-	*
Chester (Sealand)	45	32	22	1	-	2·2
Manchester	44	30	24	3	*	*
Spurn Head	43	36	*	-	-	1·6
Catterick	47	31	23	-	-	2·2
Tynemouth	45	32	31	-	-	*
St. Abbs Head	43	27	*	-	-	*
Leuchars	46	32	23	-	0·1	4·8
Renfrew (Abbots I.)	38	32	30	*	-	0·0
Eskdalemuir	45	35	34	-	-	3·3
Point of Ayre	47	34	*	3	-	3·5
Tiree	47	44	39	0·1	-	4·6
Stornoway	47	44	42	-	Tr	4·2
Dalwhinnie	42	28	-18	-	-	5·8
Aberdeen †	42	34	31	2	-	0·0
Wick	42	37	32	1	-	*
Sumburgh	41	41	30	-	0·2	4·2
Blacksod Point	50	47	*	-	0·3	*
Malin Head	47	40		0·2	-	2·4
Aldergrove	46	35	23	*	-	4·5
Birr Castle	48	31	32	*	-	2·9
Valentia Obsy.	51	47	43	Tr	0·1	4·1
Roches Point	49	47	*	Tr	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III C_L C_M (13h. G.M.T. 23rd January)	wwVhNh	DDFWN	C_L C_M (18h. G.M.T.)	wwVhNh	DDFWN	C_L C_M (01h. G.M.T. 24th January)	wwVhNh	DDFWN	C_L C_M (07h. G.M.T.)	wwVhNh	DDFWN
109 37	02864	11366	5-	6648	14328	5-	01754	14324	51	02754	14428
115 51	61734	20367	57	02844	20225	54	02854	20225	52	02845	16228
203						82	02845	16428			
206 50	05761	28122	54	05662	00013	50	05763	24213	57	02864	22428
210 83	02865	16126	53	04763	14144	00	05690	1761	57	02763	19328
220 50	01853	13213	37	02745	14317				52	63635	14568
230 70	01864	18114	50	01863	00023	81	02864	16128	52	02863	14128
245 80	01864	22214	57	05554	14116	--	48109	22249	57	05663	20126
260 --	47109	00049	50	0552	20112	5-	45248	00048	52	05654	00028
278 14	01862	28263	54	05551	14213	57	02851	12127	52	02856	10326
279 5-	48457	18247	5-	04658	17248	57	05645	15227	57	02756	14328
285 13	01853	24314	27	05625	26418						
288 53	08464	22127	57	05565	23128	5-	45335	17345	04	08490	20348
575 5-	01863	00024	53	01882	00023	53	02751	00025	37	02851	14328
301 86	05653	28165	24	05661	00022	--	46009	10249	--	44209	10249
321											
2[illegible] 50	05655	30315	*			00	05690	00000	50	05552	20202
292 53	05664	24125	54	05653	24213	5-	08468	00018	--	46009	00049
310 --	01625	24815									
614 50	05654	26124	04	0559	26101	00	47390	24240	--	48009	22149

III C_L C_M (13h. G.M.T. 23rd January)	wwVhNh	DDFWN	C_L C_M (18h. G.M.T.)	wwVhNh	DDFWN	C_L C_M (01h. G.M.T. 24th January)	wwVhNh	DDFWN	C_L C_M (07h. G.M.T.)	wwVhNh	DDFWN
333 80	10864	25284				8-	05647	15227	8-	05657	14327
334 --	01743	28214	--	02646	28217						
340 86	81754	26286	4-	05652	30112	00	04690	16100	03	45390	16145
136 53	05655	26366	04	05590	25263	00	04490	06140	03	08490	04144
336 10	01764	28415	40	01753	24813						
350 2-	05665	26315	04	05590	00013	00	45390	00000	04	45390	16144
368 10	05561	20214	*	00690	24113	00	05690	00000	57	08445	00017
379			44	05653	28213	00	05690	26100	03	05690	16213
390 10	00551	26123	00	08490	28380	00	45390	26140	00	43290	16245
382 86	05664	25225	04	05690	00013	00	05590	00000			
438 5-	05648	24328	80	05654	24214	00	05690	32300	03	41490	00015
430 5-	01753	28114	5-	05552	24122	00	05590	28100	03	05590	32114
409 27	02855	24316	84	01854	25264	00	09790	16243	30	01841	16313

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C_L C_M = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 24th January
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	$i_o m_o bcz_o$	$cpr_o bz_o$	ofmffx
Croydon	$cm_o ccm_o bc$	$cmpr_o bm$	bmbcm
Greenwich	$cr_o c$	$cbccm_o$	bmffex
Camden Square	c	c	*
Kensington	cbc	bc	*
Hampstead	bc	bc	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre

Kew 24 h[illegible] ended [illegible]
Max. Time
0·8 22h 23rd
Min. Time
0·1 7-8h 23rd

Stations	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 % Yesterday	Humidity 9h % To-day
Kew	49	30	21	0·1	Tr	2·7	*	*
Croydon	49	31	28	0·1	-	1·8	*	*
Greenwich	48	29	23	Tr	-	1·1	69	98
Westminster	51	32	23	-	-	*	72	98
Regents Park								
Camden Square	50	33	25	-	-	*	*	98
Kensington	47	-	23	Tr	Tr	*	72	95
Hampstead	48	33	26	-	-	*	*	98

Page 1

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

SECRET

Monday 25th January 1943.

No. 29649

OBSERVATIONS at 13h. G.M.T. 24th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 8 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	28.5	-10	S	2	bcf	39	97	39	3	-	-	6	0	4-6	-
	Croydon	29.0	-6	S	3	z.	47	75	40	6	-	-	6	0	4-6	-
	S. Farnborough	28.4	-14	SSE	3	z.	46	85	42	5	-	7	2	0	4-6	-
	Boscombe Down	27.8	-14	SE'S	3	z.	45	92	43	6	5	-	2	1	7-8	4000
	Thorney Island	28.1	-10	NNE	3	z.	48	85	45	6	2	3	5	2-3	2-3	2500
	Lympne	30.0	-2	SE'S	2	z.	41	97	41	5	5	-	-	10	10	1500
	Manston	29.5	+2	S'E	3	c/f	46	75	39	6	-	-	8	0	9	-
2	Shoeburyness	29.3	-4	SSW	2	m	44	85	41	4	-	-	6	0	4-6	-
	Felixstowe	29.0	+4	S'W	3	m	44	85	41	4	-	7	3	0	7-8	-
	Gorleston	28.0	-14	SSE	4	z.	41	92	38	6	5	4	-	4-6	7-8	2500
	Mildenhall	28.4	-6	S'E	2	z.	45	85	40	5	-	-	2	0	4-6	-
	Cranwell	26.2	-16	S'W	3	z.	46	75	38	6	-	7	5	0	7-8	-
3	Birmingham	25.7	-4	SSW	3	z.	43	85	39	6	-	7	8	0	9	-
	Upper Heyford	27.3	-10	SSW	2	m	43	85	39	4	-	4	6	0	7-8	-
4	Ross-on-Wye	25.8	-16	SW'S	2	cbc/f	46	85	40	5	-	7	2	0	7-8	-
5	Hartland Point	24.4	-14	SW	3	bc	51	75	45	8	2	4	6	1	4-6	2000
	Bristol	26.7	-18	S	3	c-bc	50	75	43	7	1	-	2	2-3	7-8	4000
	Portland Bill	28.0	-8	SSW	3	o	49	92	47	7	5	-	-	10	10	2500
	Plymouth	27.0	-6	SSW	4	c	48	92	46	7	5	-	-	9+	9+	1500
	The Lizard	25.5	-4	SSW	5	c-bc	51	92	49	8	8	7	-	7-8	7-8	2000
	Scilly (St. Mary's)	23.7	-8	S	4	c	52	85	47	8	8	2	6	2-3	9+	1200
	Guernsey															
6	Pembroke	23.7	-10	S'E	5	c	49	97	47	7	8	6	-	7-8	9+	2500
7	Holyhead (Valley)	21.7	-14	S	7	c	47	85	44	8	5	-	-	4-6	10	1000
	Chester (Sealand)	23.3	-18	SE'S	3	bc	44	75	37	6	-	4	6	0	4-6	-
8	Manchester	24.3	-18	SE	4	z.	43	85	38	5	-	5	-	0	4-6	-
10	Spurn Head	26.7	-10	S'E	4	z.	41	92	39	5	7	1	-	4-6	9+	4000
	Catterick	24.0	-18	SE	2	F+	33	97	32	1	-	-	-	10	10	450
	Tynemouth	23.3	-16	SW	3	m	38	85	33	4	8	-	-	7-8	7-8	1600
11	St. Abbs Head	19.7	-8	SE	2	c-bc	45	85	40	7	5	4	-	4-6	7-8	2500
	Leuchars	18.5	-18	NE	1	z.	39	92	37	6	5	7	-	7-8	10	2500
12	Renfrew (Abbots I.)	17.4	-26	SSE	3	z.	49	85	44	6	5	3	2	4-6	10	1500
	Eskdalemuir	20.1	-22	SW'W	5	o	42	92	40	6	5	-	-	10	10	1500
	Point of Ayre	21.0	-12	SSW	*4	c	47	92	45	8	8	2	-	7-8	10	1500
13A	Tiree	11.1	-24	S	6	ir	48	85	45	7	5	7	-	7-8	10	1800
13B	Stornoway	08.9	-14	S	8	c/d	48	97	48	7	5	2	-	9	10	1500
15	Dalwhinnie	15.0	-8	SW	3	o	41	85	37	7	5	-	-	10	10	2500
	Aberdeen	18.0	-18	SSW	4	z.	43	85	39	6	5	2	-	7-8	10	1500
	Wick	13.5	-22	S'E	4	c/r	43	85	37	8	5	7	6	2-3	10	4000
16	Sumburgh	13.9	-26	S'E	5	c	44	85	41	7	5	1	-	7-8	10	1800
17	Blacksod Point	08.0	-30	S	7	c/r	52	85	48	8	6	-	-	10	10	1500
18	Malin Head	09.9	-22	S'E	5	c	50	75	43	8	5	2	-	7-8	10	1500
	Aldergrove	16.1	-26	S'E	4	c	50	75	43	9	5	4	8	4-6	9+	1600
19	Birr Castle	14.6	-16	S	4	c	52	75	45	8	5	1	-	7-8	10	2500
20	Valentia Obsy.	12.8	-24	S	6	id.	51	92	49	6	5	-	-	10	10	1500
	Roches Point	17.9	-16	S	6	c	51	85	47	8	5	-	-	9	9	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 8 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Weather 7h.–13h. 24th (39)	Weather 13h.–18h. 24th (40)	Weather 18h. 24th to 1h. 25th (41)	Weather 1h.–7h. 25th (42)
London (Kew)	28.4	+4	SSW	2	z.	42	92	40	5	5	-	-	4-6	4-6	2500	1	*	obcFfe	bcfebcm.	bccm.	cbcm.
Croydon	28.7	-2	S	2	m	44	92	42	4	5	-	-	10	10	1500	1	*	cmbcm.	bcz.cz.cm	cmd.d.cm.	cm.
S. Farnborough	28.5	0	S'W	3	z.	44	92	42	6	5	-	-	10	10	1000	1	*	bcefmbcm	zbccm.ccm	cm.c	bccw
Boscombe Down	27.8	-2	S'W	4	z.	44	92	42	6	5	-	8	7-8	9+	1200	1	*	bcoFbcbm.	cm.c	cm.	cm.cbcc
Thorney Island	28.6	+2	S	3	z.	45	92	43	6	5	3	-	9+	10	1600	1	*	cmbcm.	bcm.cm.	cm.	bccm.
Lympne	30.0	+4	S	2	cf-	42	97	42	3	5	-	-	10	10	100	1	§3	bm.xcm	om.Ff	ofcm.of	ofcm.c
Manston	30.1	+14	S'W	2	z.	41	97	39	5	5	-	-	9+	9+	400	1	*	bfxcf	cm.	cm.om	om.om.
Shoeburyness	29.5	+8	SSW	4	m	41	92	39	4	5	-	-	2-3	2-3	4000	1	*		cm.bcm	bcmcm.	cm.
Felixstowe	29.6	+18	SSW	4	z.	41	92	39	5	-	-	-	0	0	-	1	3	bfxcf	cmbc m.bm.	bm.cm.	cm.
Gorleston	28.8	0	S	3	z.	41	92	39	5	5	-	-	4-6	4-6	1500	0	3	bcczo	cbczo	bcmowc	eq
Mildenhall	27.6	-2	SSE	3	m	42	85	37	4	-	-	8	0	4-6	-	1	*	bcfbcm	bccm.bcm	cm.	cm.cbc
Cranwell	26.2	-2	S	3	z.	37	97	37	5	-	-	2	0	4-6	-	1	*	cm.xbcmcm.	cbcm.	cm.	cm.w
Birmingham	24.9	-4	S	3	z.	41	92	39	5	5	-	-	4-6	4-6	1500	1	*	c	cbcz	c	c
Upper Heyford	26.5	-2	S'W	2	z.	44	92	42	5	5	-	-	9+	9+	1200	1	*	bcfcm	cmcm.	cm.	cm.o
Ross-on-Wye	25.1	-4	SSW	4	bc	46	85	40	8	5	-	1	2-3	4-6	3000	1	*	bcmfcf	czbcc	bcp.c	bcc
Hartland Point	23.0	-4	S	3	c	47	85	43	8	5	4	8	2-3	9	1500	1	3	ccbc	bcc	cbcc	crr
Bristol	26.5	-4	S	3	c	46	85	41	7	5	-	8	1	9	2500	1	*	bcfgm.bcm.	bc.c	ccm.	bcc
Portland Bill	17.6	0	S	3	c-bc	47	92	45	8	5	-	-	7-8	7-8	4000	1	4	co	c	c	c
Plymouth	25.8	-6	SSW	4	c	49	85	46	7	8	-	8	7-8	9+	1500	1	3	cm.prfc	c	c	cirrrm.
The Lizard	24.0	-6	SSW	6	c	50	85	46	8	8	2	-	7-8	9+	1500	1	5	c	c	c	crrq
Scilly (St. Mary's)	20.8	-24	S'E	5	c	51	85	47	8	5	7	-	7-8	10	1200	1	5	bcc	c	c	crr
Guernsey																					
Pembroke	22.0	-12	SSE	6	cq	49	92	47	7	8	2	-	7-8	10	2500	1	3	cpr.	cq	cq	crrq
Holyhead (Valley)	19.0	-12	S	8	c	48	85	44	7	5	2	-	9	10	1500	1	6	c	cir.	ccm.	crrm.
Chester (Sealand)	21.8	-14	S	1	cbc	44	85	40	5	5	3	-	4-6	7-8	3000	1	*	cffm	bccm.	cm.c	cmoir.
Manchester	23.3	-14	SSE	4	z.	43	85	40	5	5	-	2	2-3	4-6	4000	1	*	cm.	cbcbm.	bccm.	cm.
Spurn Head	26.1	-4	S	5	z.	41	92	39	5	7	4	-	4-6	4-6	2500	0	3	cm	cm.	om.	c
Catterick	22.8	-6	S	4	bcf	40	92	38	3	5	7	-	4-6	4-6	1000	1	*	oFe	oFb f	oFcm.	cm.
Tynemouth	22.0	-4	S	4	m	40	85	36	4	5	-	-	4-6	4-6	1500	1	3	cm	cbcm	bcmcm.	b.
St. Abbs Head	16.2	-20	S	4	c	45	85	40	7	5	-	-	10	10	1500	0	3	c	cm.	c	cider.
Leuchars	15.6	-18	SSW	5	c	47	75	41	7	5	7	-	7-8	10	1400	1	*	cm.	cm.c	cm.wc	cr.rrm.
Renfrew (Abbots I.)	13.1	-36	SSW	6	z.	50	75	43	6	5	2	-	7-8	10	1000	1	*	cmid.m.	cm.ccm.	cz.cmrr	cmrrr.r.
Eskdalemuir	17.7	-10	SSW	7	ir.	45	85	41	6	5	-	-	10	10	1500	1	*	om.	oir.m.	oir.m.	ocrr
Point of Ayre	17.1	-20	SW'S	6	c	48	92	46	7	6	2	-	7-8	10	1000	1	4	c	cid.c	eq	cr.r.
Tiree	07.6	-24	S	6	c	49	85	44	7	5	7	-	9+	10	2000	1	6	cr.r.ir cir.	ir ir.oc	cir.orr	crrr.c
Stornoway	05.1	-18	S	9	rr.r.	49	85	44	6	5	2	-	9	10	1800	1	6	cir.cd.d.c	ddm.	cr.r.c	cd.r.c
Dalwhinnie	11.0	-18	SSW	3	ir.	43	85	35	7	5	-	-	10	10	2500	1	*	o	ocr.	*	oir
Aberdeen	14.8	-14	SSW	5	z.	45	85	42	6	5	-	-	10	10	1500	1	3	cz.	cz.	coz.	oz.cir.m.
Wick	10.6	-12	S	4	c/r	45	85	42	8	5	7	-	7-8	9+	3500	1	*	cir.c	cir.	c	cr.r.ccr.r.
Sumburgh	10.2	-22	S	6	ir.	45	92	43	7	5	2	-	9+	10	1000	1	4	c	cinir.	cm.	cr.r.m.
Blacksod Point	09.0	-28	S	8	RR	51	97	50	6	6	2	-	4-6	10	800	2	6	r	r	r	c
Malin Head	08.2	-2	S	5	c	50	75	43	8	5	2	-	7-8	10	2500	1	4	c	c	r	r
Aldergrove	13.4	-14	S'E	5	c	49	75	42	8	5	-	7	7-8	10	2000	1	*	c	c	cerr	crrcid.
Birr Castle	12.4	-12	S	5	c	51	75	44	8	5	2	-	7-8	10	1500	1	*	c	c	•	r
Valentia Obsy.	09.5	-22	S	6	d.d.	51	97	50	6	5	-	-	10	10	800	1	4	pr	r	r	r
Roches Point	15.1	-14	S	6	c	51	85	47	8	6	1	-	4-6	9+	1500	1	5	c	c	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 25th January

Districts	Forecast
1 S.E. England; 2 E. England	Fresh to strong southerly winds, gale locally on coasts, veering southwest to west and moderating. Cloudy; rain spreading from West, followed by brighter conditions to-morrow; rather cold, becoming milder.
3 E. Midlands; 4 W. Midlands; 5 S.W. England ↓; 6 South Wales ↓; 7 North Wales ↓; 8 N.W. England ↓; 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland ↓	Fresh or strong southerly wind, gale locally on coasts, veering southwest to west and moderating. Dull and rainy at first, bright intervals and showers later, local fog developing inland to-night: rather cold, becoming milder.
12 S.W. Scotland & Isle of Man ↓; 13A W. Scotland ↓; 13B N.W. Scotland ↓; 14 Mid Scotland; 15 N.E. Scotland ↓	Light or moderate west or southwest wind; local showers and bright intervals; rather cold; local frost and fog at night.
16 Orkneys and Shetlands ↓	As 3-11
17 N. W. Ireland ↓	As 12-15
18 N. E. Ireland ↓; 19 S. E. Ireland ↓; 20 S. W. Ireland ↓	

GENERAL INFERENCE

Pressure remains very low near Iceland, and a trough of low pressure is moving slowly east across Britain. A belt of rain is spreading slowly east across the country, followed by local showers and bright intervals. It will be mainly rather cold with local frost and fog at night in some districts.

FURTHER OUTLOOK

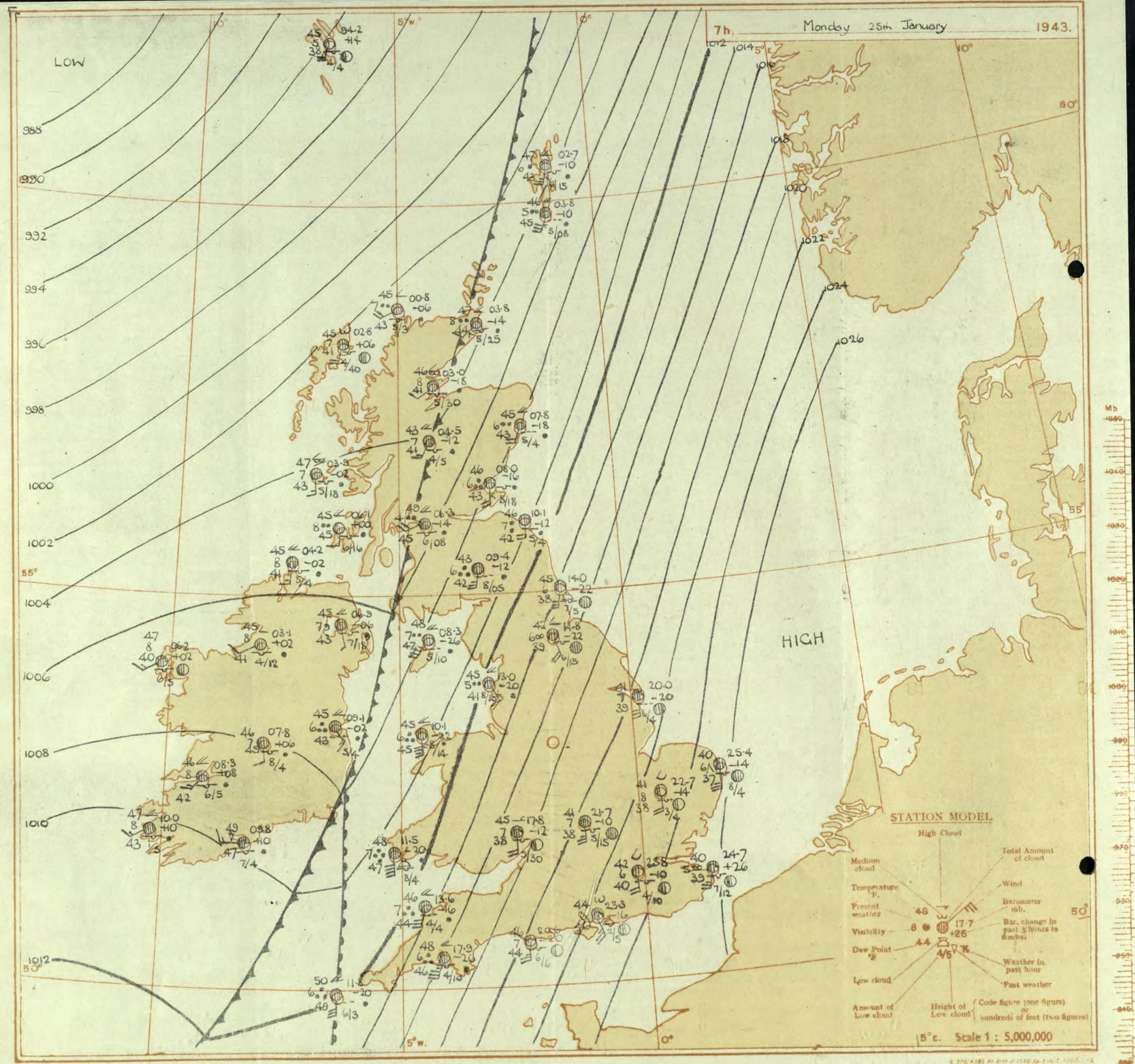
Unsettled southwesterly type with rain at times in most districts but some brighter periods; mainly mild.

↓ Gale warning in operation in districts 13A, 13B, 17, 18; time of issue 0730 G.M.T. 24th January 1943. In districts 5 (part of) 6, 7, 8, 11, 12, 15, 16, 19, 20; time of issue 0930 G.M.T. 24th January. In district 5 (part of) 2030 G.M.T. 24th January 1943.

Forecasts issued at 1300

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

Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

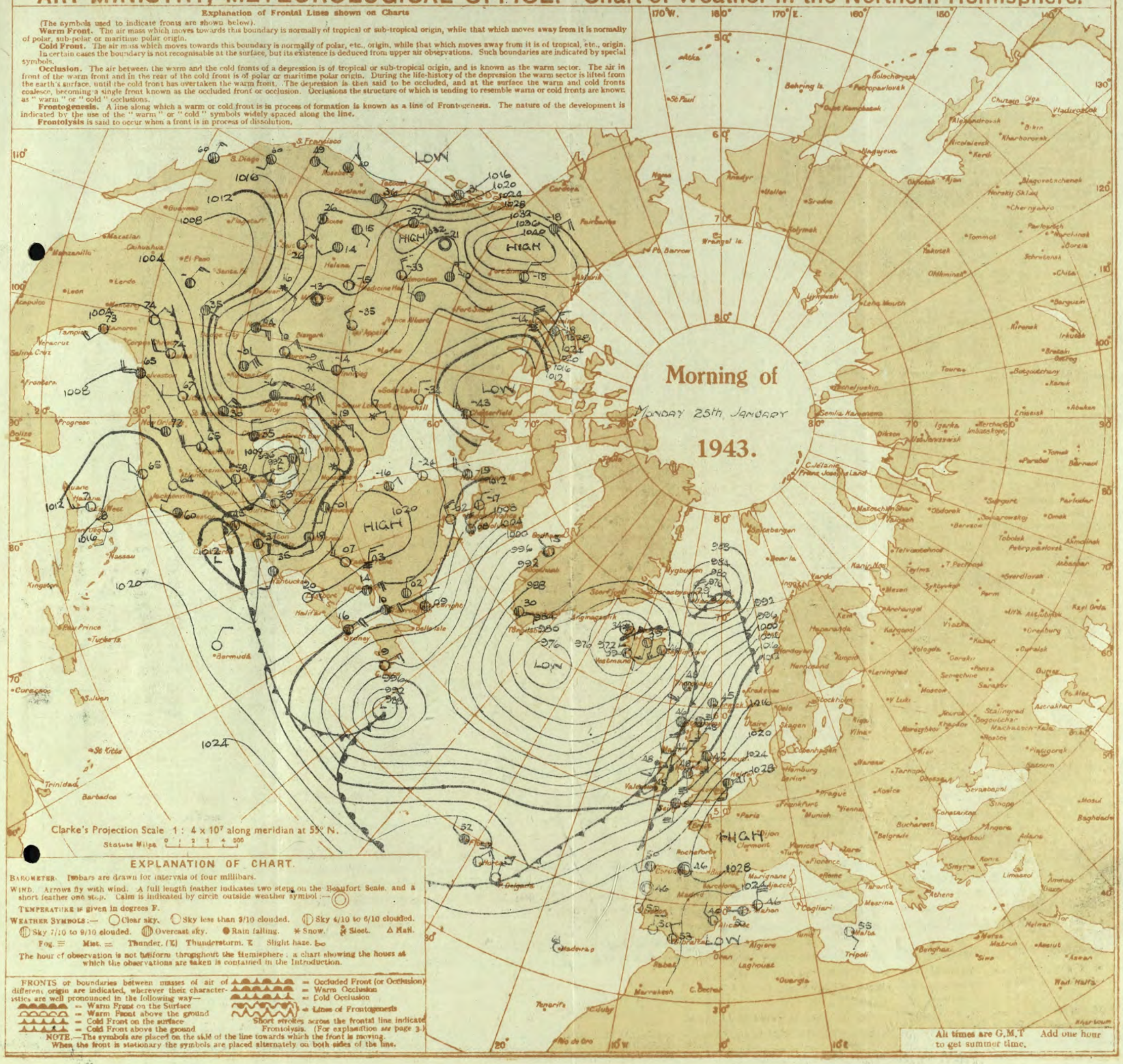
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Monday 25th January 1943

No. 29649

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	44	*	*	*	*	*	*	*	*	*
	Croydon ...	290	27·2	-6	S	3	c	44	92	42	6	5	7	-	9	10	1500
	S. Farnborough	226	26·1	-14	S	4	c	45	85	41	7	5	7	-	9	9+	1500
	Boscombe Down	417	24·9	-12	SSE	5	Z_o	43	92	41	6	5	-	-	9+	9+	1700
	Thorney Island	10	26·5	-14	SSE	4	Z_o	45	92	43	6	5	2	-	4-6	10	1500
	Lympne ..	283	28·9	-10	SSE	3	c f+	39	97	39	2	-	-	-	10	10	2150
	Manston ...	154	28·4	-14	SSW	4	m	37	97	36	4	5	-	-	10	10	800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	28·2	-8	S'E	4	Z_o	41	92	39	5	5	-	-	10	10	800
	Gorleston ...	5	27·6	-10	S'W	4	c	41	85	37	7	5	-	-	9+	9+	1500
	Mildenhall ...	15	26·6	-6	S'E	4	Z_o	42	92	39	6	5	-	-	10	10	2100
	Cranwell ...	203	24·8	-2	S'W	4	Z_o	40	97	40	6	5	-	-	9+	9+	800
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	24·9	-10	S'W	4	Z_o	43	92	40	6	5	7	-	Tr	9	2500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	18·1	-26	SW	5	c	49	85	44	8	5	5	-	7-8	9+	1500
	Bristol ...	209	23·0	-24	SSW	4	c-bc	47	85	42	7	5	-	-	7-8	7-8	2300
	Portland Bill ...	32	24·0	-14	SW	5	c-bc	47	92	45	8	2	-	-	7-8	7-8	4000
	Plymouth ...	82	22·5	-18	S	6	c	50	85	46	7	5	7	-	9	9+	2000
	The Lizard ...	240	19·2	-20	SSW	7	c	51	85	46	8	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	16·6	-24	S	6	c	51	85	48	7	5	2	-	7-8	10	1000
	Guernsey ...	175															
6	Pembroke ...	142	16·7	-12	S'E	7	cq	50	85	46	7	5	2	-	7-8	10	2500
7	Holyhead (Valley)	32	14·7	-22	S'W	8	Z_o	48	85	43	6	5	7	-	7-8	10	2500
	Chester (Sealand)	16	18·0	-30	S	4	c	46	95	39	7	5	7	-	4-6	10	2800
8	Manchester ...	235	19·8	-22	SE	4	Z_o	44	85	40	6	5	7	-	2-3	10	4000
10	Spurn Head ...	29	24·2	-6	SSE	5	o	40	92	38	5	5	-	-	10	10	1500
	Catterick ...	175	19·4	-22	S	4	Z_o	41	92	39	5	5	7	-	7-8	10	1200
	Tynemouth ...	108	18·0	-20	S	5	Z_o	42	85	38	6	8	-	-	9	9	2500
11	St. Abbs Head	280	11·1	-32	S	5	c	46	85	41	7	5	1	-	4-6	10	1500
	Leuchars ...	36	10·6	-30	SW	5	c	48	75	41	8	5	7	-	4-6	10	2000
12	Renfrew (Abbots L.)	19	09·2	-24	SSW	6	rr	49	92	47	4	5	2	-	9	10	1800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	12·8	-22	SSW	7	c	50	85	46	9	6	2	-	7-8	10	1400
13A	Tiree	44	05·6	+6	SSW	3	rr	46	92	44	6	-	2	-	10	10	1500
13B	Stornoway ...	15	02·9	+4	S	5	c/r	46	92	44	7	-	7	-	0	10	-
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	09·5	-18	S	6	c	46	85	42	7	5	-	-	10	10	2000
	Wick ...	114	06·1	-22	S'W	3	c	48	85	45	8	5	1	-	4-6	10	2500
16	Sumburgh ..	19	06·5	-14	SSW	6	c	47	85	44	6	5	2	-	4-6	10	1500
17	Blacksod Point	18	95·8	-6	SSW	3	$r_o r_o$	48	85	44	7	6	-	-	10	10	1500
18	Malin Head ...	84	06·0	+10	W'S	3	rr	46	92	44	7	-	2	-	10	10	1500
	Aldergrove ...	268	09·1	-6	S'E	4	rr	48	92	46	7	5	2	-	9+	10	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	09·7	+6	SW'S	2	ir	48	97	48	7	5	2	-	4-6	10	1500
	Rcches Point	22	09·1	-24	S	7	rr	50	97	50	6	6	2	-	4-6	10	800

OBSERVATIONS at 7 hr. G.M.T. 25th January

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	22·9	-14	S	4	Z_o	42	85	37	6	5	3	1	4-6	7-8	2500	1	*
Croydon ...	23·8	-10	S'E	4	c-bc	42	92	40	6	5	4	-	4-6	7-8	1000	1	*
S. Farnborough	22·8	-8	S	4	c	42	85	38	7	5	7	-	Tr	9	1000	1	*
Boscombe Down	21·4	-14	SSE	5	c	41	85	38	7	5	7	-	1	9	1500	0	*
Thorney Island	23·3	-16	SSE	5	c	44	85	40	6	1	3	-	1	9+	2500	1	*
Lympne ..	26·6	-6	S'E	4	c	41	92	39	7	5	3	-	7-8	9+	800	1	5
Manston ...	25·7	-18	S'W	5	Z_o	40	97	39	5	5	-	-	9+	9+	1200	1	*
Shoeburyness ...	25·4	-20	S'W	4	Z_o	43	85	39	6	5	7	-	4-6	7-8	1500	1	*
Felixstowe ...	25·4	-14	S'E	4	Z_o	42	85	38	6	5	7	-	9	10	1500	0	4
Gorleston ...	25·4	-14	S	5	cq	40	85	37	6	5	-	-	10	10	1500	0	5
Mildenhall ...	22·7	-14	S'E	4	bc	41	85	38	8	5	4	-	2-3	4-6	1500	1	*
Cranwell ...	19·6	-18	S	5	Z_o	40	92	38	6	5	7	-	7-8	9	1200	1	*
Birmingham ...	17·2	-12	SSE	4	Z_o	42	85	38	6	5	-	-	10	10	800	1	*
Upper Heyford	21·7	-10	S	5	c	41	85	38	7	5	7	-	7-8	10	1500	1	*
Ross-on-Wye	17·8	-12	S	4	c	45	75	38	7	5	-	8	7-8	9+	3000	1	*
Hartland Point	13·6	-16	SSW	6	rr	46	92	44	7	6	2	-	4-6	10	1500	1	4
Bristol ...	19·1	-26	S	5	Z_o	45	75	39	6	5	7	-	4-6	9	1500	1	*
Portland Bill ...	20·6	-20	S	5	c	46	92	44	7	5	-	-	9	9	4000	1	5
Plymouth ...	17·9	-26	SSW	7	rr	48	92	46	6	5	2	-	4-6	10	1000	1	5
The Lizard ...	13·4	-38	SSW	8	rr	49	97	49	7	5	-	-	10	10	1000	1	6
Scilly (St. Mary's)	11·8	-20	S	6	rr	50	97	49	6	6	2	-	9	10	800	1	5
Guernsey ...																	
Pembroke ...	11·5	-20	S'E	8	RR	48	97	47	7	8	-	-	10	10	1500	1	5
Holyhead (Valley)	10·1	-22	S	8	rr	45	97	45	6	-	2	-	10	10	1400	1	6
Chester (Sealand)	13·9	-20	S	3	$r_o r_o$	46	85	40	6	5	2	-	7-8	10	1800	1	*
Manchester ...	15·7	-18	SE	5	Z_o	45	85	41	6	5	2	-	4-6	10	1500	1	*
Spurn Head ...	20·0	-20	S	6	c	41	92	39	7	6	-	-	9	9	1500	1	4
Catterick ...	19·8	-22	SSE	4	Z_o	42	85	39	6	5	1	-	9	10	1500	1	*
Tynemouth ...	14·0	-22	SSW	6	c	45	75	38	6	8	-	-	9+	9+	2500	1	4
St. Abbs Head	10·1	-12	S	4	ir	46	85	42	7	5	-	-	7-8	10	1500	1	3
Leuchars ...	08·0	-16	SSE	4	rr	46	92	43	6	5	-	-	10	10	1800	1	*
Renfrew (Abbots L.)	06·3	-14	SW	4	$r_o r_o$	49	85	45	4	5	2	-	9	10	800	2	*
Eskdalemuir ...	09·4	-12	S'W	5	rr	43	97	42	6	6	-	-	10	10	500	1	*
Point of Ayre...	08·3	-26	SW'S	7	$r_o r_o$	48	97	47	7	6	2	-	7-8	10	1000	1	5
Tiree	03·9	-2	S	3	c	47	85	43	7	5	7	-	7-8	10	1800	1	4
Stornoway ...	02·8	+6	SSW	4	c	45	85	43	7	5	3	-	4-6	9+	4800	1	4
Dalwhinnie ...	04·5	-12	SSW	3	c	43	92	41	7	5	2	-	4-6	10	2500	1	*
Aberdeen † ...	07·8	-18	SSW	4	$r_o r_o$	45	92	43	6	6	2	-	7-8	10	1500	1	3
Wick ...	03·8	-14	SW'S	2	$r_o r_o$	47	85	44	8	5	2	-	7-8	10	2500	1	*
Sumburgh ..	03·8	-10	SSW	6	$r_o r_o$	46	92	45	5	6	2	-	7-8	10	800	1	5
Blacksod Point	06·2	+2	SW	3	c	47	75	39	8	5	-	-	9	9+	2500	2	3
Malin Head ...	04·2	-2	S'W	3	c	45	85	41	8	5	2	-	7-8	10	1500	2	3
Aldergrove ...	06·9	-6	S'E	1	id.	45	92	43	7	5	2	-	9+	10	1800	1	*
Birr Castle ...	07·8	+6	S	2	c	46	97	45	7	5	-	-	10	10	1500	1	*
Valentia Obsy.	10·0	+10	SW'W	3	c	47	85	43	8	5	2	-	Tr	10	2500	1	2
Rcches Point	09·8	+10	W	3	c	49	92	47	7	5	-	-	9+	9+	1500	1	*

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 24th Hrs. (38)
London (Kew)	45	41	37	Tr	-	1·2
Croydon ...	48	42	38	-	Tr	4·3
S. Farnborough	47	41	37	-	-	4·8
Boscombe Down	47	40	38	0·3	-	1·7
Thorney Island	48	40	39	Tr	Tr	0·0
Lympne ..	44	38	37	0·2	-	0·7
Manston ...	46	37	37	-	-	3·7
Shoeburyness ...	46	40	34	0·2	-	3·3
Felixstowe ...	45	39	35	-	-	4·2
Gorleston ...	45	38	35	-	-	3·0
Mildenhall ...	45	39	33	Tr	Tr	3·1
Cranwell ...	46	36	32	-	Tr	2·8
Birmingham ...	45	40	38	-	-	1·8
Upper Heyford	45	41	40	-	-	*
Ross-on-Wye	45	44	38	-	Tr	2·8
Hartland Point	51	45	44	-	1	4·6
Bristol ...	52	45	41	-	-	3·7
Portland Bill ...	49	44	*	-	-	*
Plymouth ...	50	42	45	Tr	1	2·2
The Lizard ...	52	48	*	-	1	4·9
Scilly (St. Mary's)	52	49	*	-	6	5·0
Guernsey ...						
Pembroke ...	50	47	*	Tr	13	0·1
Holyhead (Valley)	49	45	45	Tr	8	*
Chester (Sealand)	47	43	38	0·1	0·5	1·6
Manchester ...	45	42	33	-	-	*
Spurn Head ...	41	39	*	-	-	2·3
Catterick ...	40	37	35	Tr	-	0·0
Tynemouth ...	40	39	37	-	-	*
St. Abbs Head	49	44	*	-	Tr	*
Leuchars ...	47	46	43	-	1	0·0
Renfrew (Abbots L.)	50	48	46	Tr	15	0·3
Eskdalemuir ...	45	42	42	Tr	5	0·0
Point of Ayre...	48	47	*	0·1	3	0·0
Tiree	49	45	40	0·3	9	0·0
Stornoway ...	49	45	43	1	8	0·0
Dalwhinnie ...	44	41	40	0·1	9	0·0
Aberdeen † ...	45	44	42	-	0·2	0·0
Wick ...	46	45	44	1	Tr	*
Sumburgh ..	46	43	43	0·1	1	0·0
Blacksod Point	52	46	*	16	22	*
Malin Head ...	53	45		-	7	0·0
Aldergrove ...	50	44	42	-	10	0·0
Birr Castle ...	52	45	43	-	13	0·4
Valentia Obsy.	51	46	43	2	19	0·0
Rcches Point	52	48	*	Tr	70	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 24th Jan.	IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	18h. G.M.T.	C$_L$C$_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 25th Jan.	C$_L$C$_M$	wwVhN$_h$	DDFWN	07h. G.M.T.	C$_L$C$_M$	wwVhN$_h$	DDFWN
109	51	23665	24627	5-	57345	49668	51	05644	48428	5-	62638	48468			
115	52	02844	16388	52	62745	20368	52	64735	20568	52	62735	20468			
203	5-	03848	49628												
206	57	22866	20468	57	02765	20428	52	62757	55468	57	22865	20268			
210	59	02863	15327	57	02865	16328	57	02856	16328						
220	52	61735	15228												
230	52	61857	18488	52	02856	16268	52	64335	18468	52	53636	18258			
245	5-	05634	18328	57	05655	15428	57	02757	50428	62	62635	50568			
260	57	02764	20327	57	05645	51728	52	02753	51728	52	62653	51668			
278	57	02835	48426	5-	02748	47828	52	51637	48458	02	62528	20468			
279	5-	02847	17427	57	02755	16628	52	02755	17728	5-	64648	16768			
285										6-	64628	22568			
288	09	05590	16327	07	48390	15423	57	08433	48648	57	05655	47527			
575	67	02834	14428	52	02746	16528	5-	62738	00068	51	02844	20268			
301	04	05590	15424	57	05566	14526	57	05666	14528	02	62568	47468			
321															
2.)	56	05654	20414	50	05553	20413	5-	05658	20438	5-	02753	20618			
292	07	43290	12148	07	47290	16346	5-	05535	13448	5-	02748	16542			
310										--	02638	20528			
614	07	43390	16246	07	05590	18328	5-	08447	16428	57	05646	49528			

13h. G.M.T. 24th Jan.	IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	18h. G.M.T.	C$_L$C$_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 25th Jan.	C$_L$C$_M$	wwVhN$_h$	DDFWN	07h. G.M.T.	C$_L$C$_M$	wwVhN$_h$	DDFWN
333	57	02755	49527	57	02734	48527	52	03666	47628						
334										--	63537	20468			
340	00	05690	14225	07	05690	14328	57	02754	14428	52	02835	49528			
136	00	05590	19215	00	03530	19313	5-	05548	18418	54	02732	17626			
336															
350	00	05690	18315	50	08451	15316	57	05657	16428	54	02754	16425			
368	50	01643	12315	50	02753	14215	54	02766	16427	52	63650	16568			
379	--	48109	18419	5-	08416	18446	53	05634	20527	57	02735	18625			
390	00	08490	16240	00	48390	16240	5-	41446	16318	57	01843	49524			
382	17	05661	17325	57	05648	17428	53	02743	49427	5-	05555	24642			
438				5-	05657	18327	5-	03635	20428	54	02734	18515			
430	20	05653	16224	5-	05535	18328	50	05646	16327	57	05643	16516			
409	50	02855	17528	84	02854	16626	5-	02848	49628	52	64747	48768			

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 25th January
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. Time	Min. Time
Kew ...	$_o$bcFfe	bcfebcm$_o$	bccm$_o$	0·8 11-12hrs 24th	0·1 0-6hrs 25th
Croydon	cmbcm$_o$	bc$_o$czcm	cmd$_o$m$_o$		
Greenwich	bxf	fb	bcd$_o$cbc		
Camden Square	o	c	*		
Kensington	bcm	bc	*		
Hampstead	of	bc	bc		

Stations.	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 %	Humidity 9h %
						Yesterday	Yesterday	To-day
Kew ...	45	41	37	Tr	-	1·2	*	*
Croydon ...	48	42	38	-	Tr	4·3	*	*
Greenwich ...	48	41	37	-	Tr	4·0	77	83
Westminster	45	37	36	-	-	*	77	82
Regents Park ...	47	43	39	-	-	*	73	79
Camden Square	46	34	31	-	-	*	*	82
Kensington ...	48	41	35	Tr	-	*	91	80
Hampstead ...	46	39	35	-	-	*	*	86

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

~~SECRET~~

Tuesday 26th January 1943

No. 29650

OBSERVATIONS at 13h. G.M.T. 25th January

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18·7	-26	S'W	4	z_0	43	85	38	6	5	7	-	4-6	10	4000
	Croydon ...	18·1	-24	S	4	c	42	88	39	6	5	7	-	2-3	9+	2000
	S. Farnborough	18·2	-26	S	5	c	43	75	38	7	5	7	-	4-6	10	4000
	Boscombe Down	17·2	-12	SSE	6	rr	42	92	40	6	5	-	-	10	10	700
	Thorney Island	18·5	-28	SSE	4	ir_0	45	85	38	7	5	7	-	4-6	10	1500
	Lympne ...	22·4	-26	SSE	3	c	41	88	37	7	5	3	6	Tr	9+	800
	Manston ...	21·8	-30	S'W	5	z_0	41	85	37	6	5	9	-	2-3	9+	900
2	Shoeburyness ...	20·4	-24	SSE	4	z_0	42	85	37	6	5	7	-	7-8	9	2500
	Felixstowe ...	20·6	-36	S'E	6	z_0	42	85	37	6	-	7	2	0	9+	—
	Gorleston ...	19·6	-42	S'E	6	z_0	41	85	36	6	8	7	-	4-6	9	1200
	Mildenhall ...	17·9	-38	S'E	3	c	43	75	35	7	5	7	-	4-6	9+	6000
	Cranwell ...	14·9	-30	S	5	rr	41	92	39	6	5	7	-	4-6	10	2500
3	Birmingham ...	13·8	-24	SSE	4	rr	41	97	40	6	6	-	-	10	10	800
	Upper Heyford	16·8	-26	S'W	4	r_0r_0	41	85	37	6	5	2	-	7-8	10	600
4	Ross-on-Wye	13·1	-26	S	4	rr	45	92	43	6	6	2	-	9+	10	1000
5	Hartland Point	13·7	+24	WNW	4	rr	48	97	48	7	6	2	-	7-8	10	800
	Bristol ...	15·9	-14	S	3	rr	45	92	43	6	5	-	-	10	10	800
	Portland Bill ...	16·1	-20	S	6	rr	47	92	45	7	5	-	-	10	10	2500
	Plymouth ...	15·0	-6	WNW	5	c/r	50	97	50	6	5	1	-	4-6	10	1500
	The Lizard ...	15·2	+30	WNW	4	o/r	48	92	46	8	5	-	-	10	10	1000
	Scilly (St. Mary's)	15·9	+18	W	4	c	49	92	48	8	8	2	-	7-8	9+	1500
	Guernsey ...															
6	Pembroke ...	13·1	+12	W	5	c-bc/r	47	97	45	7	8	6	-	4-6	7-8	2000
7	Holyhead (Valley)	10·7	+10	SW	3	ir_0	47	97	46	6	-	2	-	10	10	1500
	Chester (Sealand)	11·4	-14	SSE	2	rr	45	92	43	5	5	2	-	2-3	10	1500
8	Manchester ...	12·3	-14	S'E	5	rr	43	97	41	6	6	2	-	7-8	10	800
10	Spurn Head ...	13·4	-20	S	6	pr	42	85	37	6	5	2	-	7-8	10	1500
	Catterick ...	10·8	-24	S	4	rr	41	97	41	4	5	2	-	10	10	400
	Tynemouth ...	09·4	-20	S	6	o/r	43	85	39	6	6	-	-	10	10	1500
11	St. Abbs Head	06·5	-16	SSW	4	rr	44	97	43	7	6	2	-	7-8	10	2000
	Leuchars ...	05·4	-10	SW	4	r_0r_0	46	92	43	6	5	7	-	4-6	10	1600
12	Renfrew (Abbots I.)	06·3	+2	WSW	2	c	47	85	42	8	5	2	-	4-6	10	2500
	Eskdalemuir ...	27·1	-10	SSW	5	rr	42	97	41	6	-	2	-	10	10	200
	Point of Ayre ...	08·4	+18	W'S	4	c/r	47	97	46	8	6	2	-	2-3	10	1700
13A	Tiree	03·5	-10	SSW	4	c-bc	47	85	43	8	8	-	-	7-8	7-8	2500
13B	Stornoway ...	01·0	-14	SSW	6	c	47	78	41	8	5	7	-	2-3	9	2000
15	Dalwhinnie ...	04·8	-2	SW	3	o	41	88	38	8	5	2	-	4-6	10	2800
	Aberdeen ...	04·8	-14	SSW	4	r_0r_0	44	97	43	6	6	2	-	9+	10	600
	Wick ...	03·0	-4	S	2	c	45	85	41	8	5	7	-	4-6	10	2000
16	Sumburgh	03·1	+2	SW'S	4	r_0r_0	46	97	45	6	8	2	-	2-3	10	1500
17	Blacksod Point	05·4	-10	SW'S	6	c-bc	50	78	42	8	8	-	-	7-8	7-8	2500
18	Malin Head ...	04·3	-6	S	3	b-bc	48	75	41	8	5	-	-	2-3	2-3	2500
	Aldergrove ...	08·1	+4	S'E	3	bc	45	92	43	7	5	-	1	2-3	4-6	3000
19	Birr Castle ...	09·8	+6	SW	2	b-bc	50	75	42	8	5	-	-	2-3	2-3	2500
20	Valentia Obsy.	11·8	+4	SW	6	bc	51	68	40	8	2	-	1	2-3	4-6	4000
	Roches Point	10·3	+14	W'S	3	bc	50	75	42	8	2	-	5	1	4-6	2500

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

District	Stations.	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	17·6	-2	SSW	3	c/r	43	97	42	6	5	2	-	7-8	10	1500	1	*
	Croydon ...	18·2	-2	S'E	5	r_0r_0	43	97	43	4	6	2	-	7-8	10	1200	1	*
	S. Farnborough	17·6	+6	SSW	4	r_0r_0	44	97	44	4	6	2	-	10	10	600	1	*
	Boscombe Down	18·0	+14	W'S	2	c/d	45	97	45	7	5	7	-	4-6	9+	1600	1	*
	Thorney Island	18·0	-2	SSW	4	c/r	46	97	45	5	6	2	-	4-6	10	800	1	*
	Lympne ...	20·0	-2	S	3	ir_0	43	92	39	6	5	7	7	Tr	10	2000	1	§5
	Manston ...	19·2	-6	SW'S	4	r_0r_0	43	85	41	7	5	-	-	9+	10	3500	1	*
2	Shoeburyness ...	18·7	-10	S	4	r_0r_0	43	85	40	6	6	2	-	4-6	10	1500	1	*
	Felixstowe ...	18·6	-6	S'W	5	ir_0	43	85	39	5	5	2	-	9	10	5700	1	4
	Gorleston ...	17·2	-8	S	6	rr	43	85	40	6	6	-	-	10	10	1500	1	5
	Mildenhall ...	16·4	0	S'W	4	c/r	43	92	40	6	5	2	-	9	10	1600	1	*
	Cranwell ...	14·7	+10	WSW	5	z_0	43	92	42	6	5	2	-	9	10	1200	1	*
3	Birmingham ...	15·8	+16	SW	3	z_0	43	92	41	6	5	7	2	2-3	7-8	1500	1	*
	Upper Heyford	16·2	+6	SW	1	z_0	43	97	42	6	5	2	-	7-8	9+	800	1	*
4	Ross-on-Wye	21·7	+34	WSW	3	bc	46	85	40	8	7	-	2	1	4-6	2500	1	*
5	Hartland Point	16·9	+20	W	4	c-bc	48	92	46	8	2	-	4	7-8	7-8	1800	1	4
	Bristol ...	18·0	+20	WSW	4	c	46	97	45	6	7	7	8	1	9	2500	2	*
	Portland Bill ...	17·7	+14	S	4	c	47	92	45	7	5	-	-	10	10	2500	1	6
	Plymouth ...	19·0	+18	WSW	3	z_0	48	97	47	6	4	4	-	1	2-3	2000	1	3
	The Lizard ...	18·9	+12	W	5	bc	48	92	46	8	8	-	-	4-6	4-6	1500	1	4
	Scilly (St. Mary's)	18·7	+18	WSW	4	bc	49	85	43	8	8	4	3	4-6	4-6		1	4
	Guernsey ...																	
6	Pembroke ...	16·9	+18	WSW	4	bc	49	75	42	8	8	7	1	2-3	4-6	2500	1	3
7	Holyhead (Valley)	13·3	+18	SW'S	4	b	46	92	44	8	-	4	3	0	1	-	1	3
	Chester (Sealand)	13·5	+18	SW'S	3	b	45	85	40	6	-	4	-	0	Tr	-	1	*
8	Manchester ...	13·9	+20	S'W	3	z_0	43	97	42	6	5	-	-	7-8	7-8	2000	1	*
10	Spurn Head ...	14·3	0	SSW	5	z_0	41	85	37	6	5	2	-	7-8	10	1500	1	4
	Catterick ...	12·4	+10	SSE	1	z_0	43	92	42	5	5	3	-	1	1	1800	1	*
	Tynemouth ...	09·9	+6	SSW	3	m	43	85	39	4	2	-	-	4-6	4-6	2500	1	3
11	St. Abbs Head	07·4	+4	SW	3	b-bc	42	85	36	7	5	-	-	2-3	2-3	2500	1	3
	Leuchars ...	07·1	+16	W	2	z_0	43	85	39	6	5	-	1	Tr	1	2000	1	*
12	Renfrew (Abbots I.)	07·4	+6	SW'S	2	z_0	45	85	40	6	8	4	-	2-3	4-6	2500	2	*
	Eskdalemuir ...	09·3	+16	SW	4	bc	41	85	37	7	5	-	-	4-6	4-6	1100	1	*
	Point of Ayre ...	10·6	+18	SW'W	4	b	45	92	43	8	4	-	-	Tr	Tr	2000	1	3
13A	Tiree	00·9	-12	SSW	6	c/pr	46	85	41	8	8	3	-	4-6	9	3500	1	5
13B	Stornoway ...	97·2	-24	SSW	8	tlr	45	85	41	6	9	-	-	10	10	1200	1	6
15	Dalwhinnie ...	03·5	0	SW	4	b-bc	40	85	35	8	5	-	-	2-3	2-3	2500	1	*
	Aberdeen ...	04·9	+2	SW	1	z_0	44	75	38	6	-	-	-	0	0	—	1	2
	Wick ...	01·5	-14	SSW	3	b-bc	43	85	38	9	4	-	-	2-3	2-3	4000	1	*
16	Sumburgh	00·2	-10	SW	4	c	45	92	43	8	5	-	-	9	9	2900	1	4
17	Blacksod Point	04·7	+2	SW	5	bc	48	97	47	8	9	-	-	4-6	4-6	1500	2	4
18	Malin Head ...	03·8	-4	S'W	5	c	45	85	41	8	6	2	-	4-6	9+	1500	2	4
	Aldergrove ...	08·2	-2	S'W	3	b-bc	46	75	39	7	5	-	-	2-3	2-3	2000	1	*
19	Birr Castle ...	10·6	+2	SW	4	bc	48	75	41	8	5	-	-	4-6	4-6	2500	1	*
20	Valentia Obsy.	12·8	+12	SW	6	pr	51	75	43	8	9	-	-	9+	9+	2500	1	4
	Roches Point	14·5	+14	W'S	3	bc	49	85	45	8	9	-	-	4-6	4-6	2500	1	5

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 25th (39)	13h.—18h. 25th (40)	18h.—1h. 25th/26th (41)	1h.—7h. 26th (42)
1	London (Kew)	bccm$_0$w	cir$_0$r$_0$r$_0$c	cirbw	bcmw
	Croydon ...	mm$_0$	cir$_0$crrm$_0$	cmrrcm	cmbm$_0$
	S. Farnborough	c	crkr$_0$m$_0$r$_0$mcr$_0$mddbcc	bcbbc	
	Boscombe Down	crr	cr$_0$m$_0$cd$_0$m$_0$	cbcm$_0$	bcm$_0$jcm$_0$
	Thorney Island	cir$_0$	cr$_0$r$_0$m$_0$	cmdbccm$_0$	cmcfbc
	Lympne ...	ccm$_0$c	cm$_0$r$_0$dr$_0$	rrfcm	cbm
	Manston ...	cm$_0$	cr$_0$	crrmbc	bcm$_0$bm$_0$
2	Shoeburyness ...	cm$_0$	ccir$_0$m$_0$	crrbcm$_0$	bcm$_0$
	Felixstowe ...	cm$_0$	cm$_0$cir$_0$m$_0$	crrcmbcm	bcmcmbcm
	Gorleston ...	cqz$_0$	cpr$_0$crr	cbcmw	bcb
	Mildenhall ...	bcc	cr$_0$r$_0$m$_0$cm$_0$	bcmcm$_0$	cmbmb
	Cranwell ...	cm$_0$cmrr$_0$m$_0$	crrm$_0$cm$_0$	cmbcm$_0$	bcmcmcm
3	Birmingham ...	cccr	crr$_0$c	cbc	bcpr$_0$
	Upper Heyford	cm$_0$	cr$_0$r$_0$rrcm$_0$	cm$_0$bcf	bcmbbc
4	Ross-on-Wye	cr$_0$rr	rrcc	bbcc	bbc
5	Hartland Point	rrm$_0$c	circbc	cbcc	cbc
	Bristol ...	cz$_0$r$_0$r$_0$m$_0$rm$_0$	crr$_0$r$_0$cm$_0$	cbcm$_0$r$_0$bc	ccbcpr
	Portland Bill ...	corr	oc	ccbc	bbc
	Plymouth ...	crrr$_0$r$_0$m$_0$	cr$_0$r$_0$cm$_0$	bcm$_0$	cbcm$_0$pr$_0$
	The Lizard ...	pr	rrcbc	bc	
	Scilly (St. Mary's)	cr$_0$	cbc	bcbw	bbcw
	Guernsey ...				
6	Pembroke ...	orrm$_0$c	bc	bcc	c
7	Holyhead (Valley)	crrm$_0$	r$_0$m$_0$bcb	bcc	bbcc
	Chester (Sealand)	cm$_0$r$_0$r$_0$rr	cm$_0$rrbm$_0$	bcm$_0$	bcz$_0$pr$_0$
8	Manchester ...	crrm$_0$	rrr$_0$r$_0$m$_0$	cbcm$_0$	pr$_0$m$_0$b
10	Spurn Head ...	cprm$_0$	cm$_0$	bcm$_0$	b
	Catterick ...	crrm	cm$_0$	bcm$_0$	cm$_0$rb
	Tynemouth ...	orrir	orrcbcm	bcmbc	bcb
11	St. Abbs Head	cr$_0$crrc	crbcb	b	bbcb
	Leuchars ...	crrm$_0$cir$_0$	cr$_0$r$_0$bm$_0$	bm$_0$bcb	bcprbc
12	Renfrew (Abbots I.)	mr$_0$r$_0$c	cbc	bcm$_0$prbcz$_0$	cprbc
	Eskdalemuir ...	cprrm$_0$	orrcbc	bc	bccr
	Point of Ayre ...	dr$_0$r$_0$rrc	cbbcb	bbccb	cbcc
13A	Tiree	c	cprc	bcjlprtlprtl	cpr$_0$bcc
13B	Stornoway ...	c	cprctlr	ctlcpr	cpr$_0$bc
15	Dalwhinnie ...	oir$_0$	oirbc		bcoirc
	Aberdeen ...	cr$_0$r$_0$m$_0$	cr$_0$r$_0$bz$_0$	bbcqc	cbcpr$_0$bc
	Wick ...	pr$_0$r$_0$c	cbcb	b	bcir$_0$
16	Sumburgh	crrr$_0$r$_0$m$_0$	r$_0$r$_0$c	bcc	cpr
17	Blacksod Point	bc	cprbc	pr	pr
18	Malin Head ...	c	r	r	pr
	Aldergrove ...	cbc	cbccbc	bcpr$_0$bl	ccpc
19	Birr Castle ...	bc	bc		pr
20	Valentia Obsy.	bc	pr	pr	bc
	Roches Point	c	bc	pr	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 26th January 1943

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands 5 S.W. England 6 South Wales	Light or moderate southwest wind; little cloud at first; cloud increasing later; local morning fog; mild.
7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland ↓ 12 S.W. Scotland & Isle of Man ↓ 13A W. Scotland ... ↓ 13B N.W. Scotland ↓ 14 Mid Scotland 15 N.E. Scotland ↓	Moderate or fresh southwest wind, strong locally backing south and increasing to strong to gale at exposed places; bright intervals and local showers at first; rain later; mild.
16 Orkneys and Shetlands ↓ 17 N.W. Ireland ↓ 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	As 7-15.

GENERAL INFERENCE

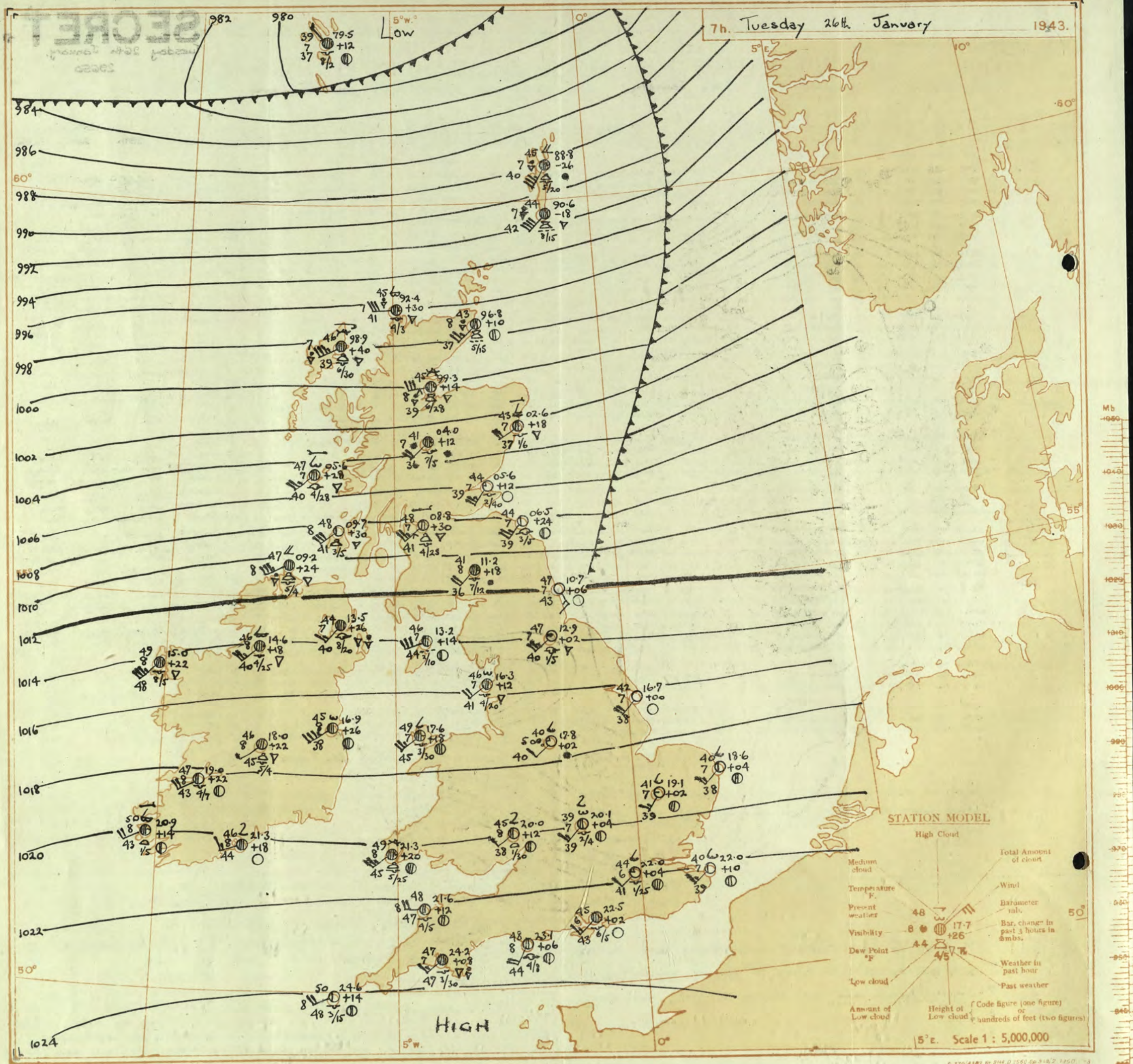
An anticyclone is centred to southwest of the British Isles and a trough of low pressure is approaching West Ireland.
Weather will be mainly fair in the South. In the North there will be bright intervals and showers at first and rain later.

FURTHER OUTLOOK

Unsettled in the North and West with rain or showers. Mainly dry in the Southeast. Mild. ↓ Gale warning in operation in district 11, issued at 0525h. 25th Jan: district 13 issued at 1645h. 25th Jan: also districts 12, 13a, 15, 16, 17 issued at 2330h. 25th Jan:

Forecasts issued at 10·30

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

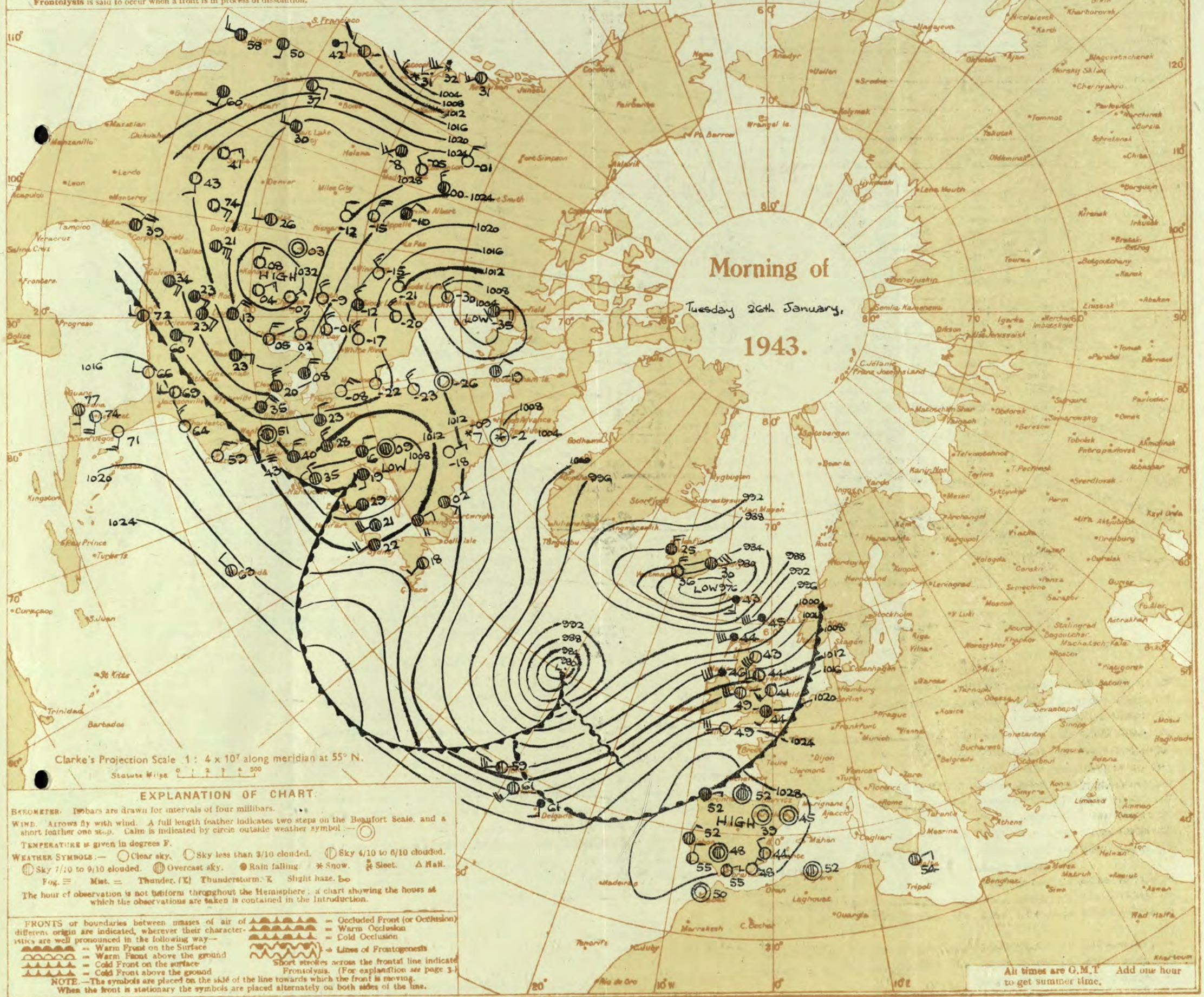
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add one hour to get summer time.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Tuesday 26th January 1943

No.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	41	*	*	*	*	*	*	*	*	*
	Croydon	290	20·7	+10	SSW	2	z0	44	97	42	6	-	7	7	0	10	-
	S. Farnborough	226	20·6	+8	SW'W	3	bc	42	97	41	7	-	4	7	0	4-6	-
	Boscombe Down	417	21·1	+8	WSW	3	z0	40	97	39	6	-	3	-	0	2-3	-
	Thorney Island	10	21·1	+10	WSW	1	z0	43	97	43	6	5	-	-	1	7-8	2500
	Lympne	283	20·5	+4	WSW	3	cjf	43	97	42	5	-	7	-	0	9	*
	Manston	154	19·9	+4	W'N	2	z0	46	97	45	5	5	-	-	10	10	500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	19·3	+2	WSW	1	z0	43	92	41	6	-	-	8	0	4-6	-
	Gorleston	5	17·5	0	SW'W	2	z0	42	92	40	6	-	7	-	0	4-6	-
	Mildenhall	15	18·5	+14	SW	3	z0	40	97	39	5	-	4	7	0	10	-
	Cranwell	203	17·2	+6	SW'S	4	z0	40	92	38	6	-	-	8	0	4-6	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	19·1	+4	SW	3	m	41	97	41	4	5	-	8	4-6	7-8	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	19·0	+2	WSW	5	c	48	92	45	8	5	6	-	4-6	9	2500
	Bristol	209	20·6	+14	SW	3	c-bc	45	85	41	8	-	-	6	0	7-8	-
	Portland Bill	32	21·5	+18	W	4	bc	48	92	46	7	5	-	-	4-6	4-6	4000
	Plymouth	82	22·6	+12	SW	4	z0	47	92	45	6	8	7	-	7-8	9	3000
	The Lizard	240	21·9	+8	W'N	5	b-bc	49	92	47	8	4	-	-	2-3	2-3	2000
	Scilly (St. Mary's)	163	21·9	+10	WSW	5	b	49	92	46	8	-	-	-	0	0	-
	Guernsey	175															
6	Pembroke	142	19·1	+8	SW	6	c	50	85	46	8	5	-	-	10	10	2500
7	Holyhead (Valley)	32	14·3	0	SW	6	c-bc	49	85	45	7	8	-	-	7-8	7-8	3000
	Chester (Sealand)	16	15·5	+2	SW	2	pr0	47	75	41	6	5	-	-	7-8	7-8	3000
8	Manchester	235	15·7	-6	S'W	4	b-bc	41	92	39	8	-	4	1	0	2-3	-
10	Spurn Head	29	16·0	0	SSW	3	z0	41	97	39	6	-	3	-	0	4-6	*
	Catterick	175	11·8	-10	SSW	3	z0	41	92	39	6	5	-	1	2-3	4-6	1500
	Tynemouth	108	10·8	-10	WSW	4	bc	44	85	39	7	-	4	2	0	4-6	-
11	St. Abbs Head	280	06·1	-2	SSW	5	b-bc	45	92	43	7	5	-	-	2-3	2-3	2500
	Leuchars	36	03·9	-14	SSW	5	b-bc	45	85	41	8	5	-	-	2-3	2-3	6000
12	Renfrew (Abbots I.)	19	05·9	-8	SW'S	5	c	47	85	41	7	8	-	*	10	10	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	10·3	+2	W'N	5	b	47	85	44	8	1	-	-	1	1	1800
13A	Tiree	44	99·8	+6	WSW	6	c-bc TLR	46	75	39	8	3	6	3	4-6	7-8	1500
13B	Stornoway	15	92·2	-10	SW	8	PR	44	97	44	7	3	6	-	7-8	10	3100
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	00·6	-26	SSW	6	b-bc	43	85	38	8	5	-	-	2-3	2-3	2500
	Wick	114	96·4	-20	SSW	5	b-bc	44	75	37	9	-	3	-	0	2-3	-
16	Sumburgh	19	96·0	-26	SSW	6	c	46	85	41	8	2	7	-	2-3	9+	3000
17	Blacksod Point	18	09·7	+28	W'S	7	b-bc	49	97	49	8	5	-	-	2-3	2-3	2500
18	Malin Head	84	04·3	+14	SW	8	rr	46	92	44	8	6	2	-	4-6	10	1500
	Aldergrove	268	08·8	+4	SSW	4	e	44	85	40	8	-	3	-	0	1	-
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	17·4	+22	WSW	4	b	49	75	42	8	1	-	-	Tr	Tr	2500
	Roches Point	22	17·6	+20	W'S	3	b	48	85	44	8	3	-	-	1	1	2500

OBSERVATIONS at 7 hr. G.M.T. 26th January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F. (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 25th Hrs. (38)
London (Kew)	21·2	+6	SW	2	z0	41	92	39	6	5	-	-	2-3	2-3	2500	1	*	44	40	28	3	0·3	0·1
Croydon	22·0	+4	SW	2	b	44	85	41	6	5	4	-	Tr	1	2500	1	*	44	42	38	3	0·6	0·1
S. Farnborough	22·1	+6	SW'W	4	c-bc	42	92	40	7	5	7	-	1	7-8	2000	1	*	44	39	34	3	0·3	0·0
Boscombe Down	22·4	+6	SW'W	2	z0	41	97	40	6	5	3	2	4-6	7-8	2500	1	*	46	37	31	6	0·3	0·0
Thorney Island	22·5	+2	WSW	3	z0	45	92	43	6	5	-	-	9	9	2500	1	*	46	38	30	5	0·3	*
Lympne	22·6	+6	SW	2	z0	40	97	40	6	-	4	-	0	1	-	1	§1	45	40	37	0·5	6	0·3
Manston	22·0	+10	SW'W	3	b-bc	40	97	39	7	-	5	-	0	2-3	-	1	*	45	38	33	Tr	3	0·3
Shoeburyness	21·7	+6	SSW	3	z0	40	92	38	6	-	4	-	0	2-3	-	1	*	45	39	31	1	1	1·3
Felixstowe	20·6	+6	SW	3	m	39	97	38	4	-	4	-	0	Tr	-	1	2	43	38	34	1	1	1·5
Gorleston	18·6	+4	SW	3	b-bc	40	92	38	7	-	4	-	0	2-3	-	1	3	44	39	35	2	3	0·2
Mildenhall	19·1	+2	SW	3	b	41	92	39	7	-	4	-	0	Tr	-	1	*	44	39	32	2	Tr	1·1
Cranwell	17·5	+10	SW'W	5	z0	43	97	42	6	5	4	-	1	7-8	2000	1	*	43	40	37	6	Tr	0·0
Birmingham	19·0	+12	SW	3	b	41	92	39	6	-	6	-	0	Tr	-	1	*	44	39	35	8	0·4	0·0
Upper Heyford	20·1	+4	SW	3	bc	39	97	37	7	5	3	6	1	4-6	1500	1	*	43	37	33	4	-	*
Ross-on-Wye	20·0	+12	WSW	2	bc	45	75	38	8	1	-	6	Tr	4-6	3000	1	*	48	43	35	12	-	0·0
Hartland Point	21·6	+12	W	4	bc	48	97	47	8	5	-	-	4-6	4-6	2500	1	4	50	47	45	12	-	0·4
Bristol	22·3	+12	WSW	3	z0	47	92	45	6	8	-	-	9+	9+	1500	2	*	47	44	39	7	1	0·0
Portland Bill	23·1	+6	SSW	4	bc	48	85	44	8	4	-	-	4-6	4-6	7200	1	5	48	49	*	1	-	*
Plymouth	24·2	+8	WSW	3	c/pr	47	97	47	7	5	-	7	2-3	10	3000	1	3	51	46	42	6	0·1	0·0
The Lizard	23·7	+4	W	5	bc	50	92	48	8	2	-	-	4-6	4-6	2000	0		51	48	*	6	-	0·2
Scilly (St. Mary's)	24·6	+14	W'S	4	b-bc	50	92	48	8	5	-	-	2-3	2-3	1500	1	4	52	48	*	6	Tr	1·5
Guernsey																							
Pembroke	21·3	+20	WSW	5	c	49	85	45	8	8	6	-	7-8	9+	2500	1	4	49	49	*	15	-	1·1
Holyhead (Valley)	17·6	+18	SW	5	c	49	85	45	7	5	4	-	2-3	9	3000	1	4	49	45	42	12	-	*
Chester (Sealand)	17·2	+14	WSW	3	b-bc	47	85	43	6	5	4	-	2-3	2-3	2500	1	*	48	44	32	6	1	0·2
Manchester	17·4	+14	SSW	4	c-bc	41	92	40	8	5	3	-	4-6	7-8	4000	1	*	45	40	35	11	0·2	*
Spurn Head	16·7	0	SW'S	4	b	42	85	38	7	-	-	-	0	0	-	1	3	42	39	*	8	-	0·0
Catterick	12·9	+2	WSW	5	b	47	75	40	7	4	-	-	Tr	Tr	2500	1	*	45	40	31	8	0·2	0·0
Tynemouth	10·7	+6	SE	3	b	47	85	43	7	-	-	-	0	0	-	1	3	48	42	42	5	-	*
St. Abbs Head	06·5	+24	SSW	5	b-bc	44	85	39	7	4	-	-	2-3	2-3	2500	0	4	46	43	*	5	-	*
Leuchars	05·6	+12	SW	5	b	44	85	39	7	5	-	-	1	1	4000	1	*	47	41	36	3	4	0·5
Renfrew (Abbots I.)	08·8	+30	WSW	5	bc	48	75	41	7	8	-	8	4-6	4-6	2500	2	*	49	45	41	1	*	1·3
Eskdalemuir	11·2	+18	SW	4	c	41	85	36	8	5	-	-	9+	9+	1200	1	*	43	40	38	*	1	0·0
Point of Ayre	13·2	+14	W'S	6	c-bc	46	92	44	7	6	-	6	1	7-8	1000	1	4	49	44	*	5	-	2·1
Tiree	05·6	+28	WSW	5	c-bc	47	75	40	7	4	5	5	4-6	7-8	2800	1	5	49	38	33	0·2	4	1·1
Stornoway	98·9	+40	WSW	7	pr0	46	75	39	7	8	6	3	9	10	3000	1	6	49	42	36	1	6	1·3
Dalwhinnie	04·0	+12	WSW	4	ir0	41	85	36	7	5	-	-	9+	9+	2500	1	*	43	38	33	5	12	0·1
Aberdeen †	02·6	+18	WSW	4	bc	43	85	37	7	5	9	8	Tr	4-6	4000	1	3	46	42	32	0·5	0·1	0·0
Wick	96·8	+10	SW'W	5	pr0	43	85	37	8	9	-	-	7-8	7-8	1500	1	*	49	40	38	0·5	1	*
Sumburgh	90·6	-18	SW	8	PR	44	92	42	7	9	-	-	10	10	1500	1	6	47	42	39	5	0·6	0·0
Blacksod Point	15·0	+22	WSW	7	c	49	97	48	8	5	-	-	10	10	2500	1	5	51	46	*	6	3	*
Malin Head	09·2	+24	W'S	7	pr0	47	85	43	8	8	2	-	7-8	10	1500	2	5	49	43		1	1	3·5
Aldergrove	13·5	+26	SW	3	c/pr	44	85	40	7	4	-	-	10	10	2000	1	*	48	43	39	0·1	0·3	2·7
Birr Castle	18·0	+22	WSW	1	c-b	46	97	45	8	8	-	-	7-8	7-8	1500	1	*	51	44	41	—	2	3·0
Valentia Obsy.	20·9	+14	WSW	4	c	50	75	43	8	1	7	6	Tr	9	2500	1	4	52	48	44	Tr	0·2	4·0
Roches Point	21·3	+18	W'S	3	c-bc	46	92	44	8	-	-	6	0	7-8	-	1	§	51	45	*	—	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 25th Jan. $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 26th Jan. $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	52	02655	18168	4-	01661	18521	57	01761	50614	8-	02755	58865
115	51	02844	53528	14	02864	53525	60	66738	87658			
203	52	03844	20528	8-	81847	16617						
206	57	02856	22168	80	01863	53513	36	81844	51687	36	81856	57687
210	57	02883	17268	07	01990	18312	03	07990	20402	8-	25887	20487
220	83	01854	44414	30	01745	18615						
230	82	02854	18227	9-	81648	18388	9-	93756	51697	3-	02755	53695
245	62	62644	17468	00	01790	20461	50	01751	51401	5-	02757	22387
260	52	22745	18368	50	01861	24211	57	01793	51413	50	01764	51414
278	52	05654	20368	57	01852	17213	50	07844	20414	57	02854	56425
279	62	64624	51768	50	05651	19461	80	02755	18725	8-	02755	21485
285				23	05624	24466				20	26744	28584
288	02	64638	14668	03	05590	17563	00	05590	18614	53	05681	53582
575	50	01863	18113	83	25844	51484	50	01854	51414	57	02854	55587
301	62	62535	48468	00	05690	18362	53	02763	20415	53	01754	21485
321												
2.9	5-	64648	20568	5-	03648	20468	50	05541	20311	5-	05656	20316
292	62	64746	16268	63	08444	18164	00	05690	16214	10	01743	20413
310	--	67428	20668	--	46109	20443						
614				57	08444	20325	07	08490	20216	30	05553	20313

III	13h. G.M.T. 25th Jan. $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 26th Jan. $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	62	64635	20468				6-	81646	20317	53	02762	22417
334	--	66537	22468	--	02743	24414				--	02646	20217
340	52	64633	49566	54	02852	18223	50	01884	16314	54	01864	22384
136	09	02690	14527	62	61533	16568	04	05690	20366	53	05651	21304
336	82	84626	20468	50	01754	24414				50	01753	24413
350	57	63664	49528	52	05645	20428	--	49409	20349			
368	52	62645	16468	50	01763	25363	54	05654	24315	80	00852	22483
379	5-	64628	495-8	5-	08418	20268	50	41404	20344	5-	47208	20348
390	57	05574	49427	52	67346	16368	00	47390	18266	00	08490	18240
382	69	52634	48568	67	22742	20265	57	01632	22313	54	01742	22303
438	54	02744	20626	87	62645	21668	--	48109	22349	50	01663	22513
430	56	05644	49428	5-	64528	53468	62	43104	00047	5-	08455	28105
409	52	22886	24368	37	01852	23423	55	02754	21424			

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, Nh = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 26th January
Day 7h—18h Kew and Croydon 9h—18h Kensington 9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	bccm0w	cir0r0r0c	cir0bcwm0
Croydon	mm0	cir0crrm0	cmr0rbm0
Greenwich	bcc	crr	rrcbbcm
Camden Square	c	c	*
Kensington	bccr	cor	*
Hampstead	bcor	or	bc

Atmospheric Pollution, Milligrams of solid impurity per cubic metre: Kew 24 hours ended 7[illegible] Max. Time 0·3 19-21h on 25th; Min. Time <0·1 0-5h on 26th

Stations	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 % Yesterday	Humidity 9h % To-day
Kew	44	40	28	3	0·3	0·1	*	*
Croydon	44	42	38	3	0·6	0·1	*	*
Greenwich	45	41	33	3	0·5	0·4	79	88
Westminster	46	39	31		3		84	97
Regents Park	44	40	36	3	1		79	91
Camden Square	45	42	33	3	0·3	*	*	95
Kensington	49	38	31	2	1		88	91
Hampstead	42	38	33	2	1		*	97

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BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Wednesday 27th January 1943. No. 29651

OBSERVATIONS at 13h. G.M.T. 26th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	°F. Dew Point. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	23.9	+6	W	4	z_0	50	75	41	6	1	-	6	2-3	9+	2500
	Croydon ...	24.5	+6	W'S	3	c	51	75	43	6	1	-	6	2-3	9+	3000
	S. Farnborough	23.3	-6	SW'W	4	c/p	49	85	44	7	5	7	8	4-6	9	2600
	Boscombe Down	24.6	-2	SW	3	c	48	85	45	8	5	7	6	4-6	9+	2500
	Thorney Island	24.9	+2	W'S	3	z_0	50	85	46	6	5	4	8	2-3	9+	1500
	Lympne ...	23.8	+6	WNW	2	c-bc	49	75	43	7	7	-	6	2-3	7-8	1000
	Manston ...	23.0	+2	W'N	4	c	49	75	43	7	-	-	7	0	10	-
	Shoeburyness ...	23.8	-8	W'S	2	z_0	43	85	38	5	-	-	6	0	4-6	-
	Felixstowe ...	21.7	+2	WSW	4	z_0	50	75	42	6	-	-	6	0	9	-
	Gorleston ...	20.2	+4	W'S	4	c	49	75	42	7	8	7	-	4-6	9	2500
	Mildenhall ...	21.2	+2	WSW	5	c	50	75	42	8	-	7	2	0	10	-
	Cranwell ...	19.3	+2	W'S	5	z_0	48	75	42	6	-	-	5	0	9	-
3	Birmingham ...	20.4	+4	WSW	3	c-bc	47	75	39	7	5	-	6	1	7-8	1500
	Upper Heyford	22.4	+2	WSW	3	c	48	85	44	7	5	-	6	Tr	9+	2500
4	Ross-on-Wye	22.4	0	W'S	3	c-bc	52	65	40	8	1	-	2	1	7-8	3000
5	Hartland Point	24.4	+4	W	4	c-bc	49	92	47	7	2	-	3	Tr	7-8	2000
	Bristol ...	24.6	+4	W	4	z_0	50	85	45	6	8	6	2	4-6	7-8	2500
	Portland Bill ...	25.4	+6	WSW	4	c	49	85	45	8	5	-	-	10	10	4000
	Plymouth ...	26.6	+2	WSW	4	z_0	51	92	49	6	2	-	6	4-6	9	2000
	The Lizard ...	26.9	+6	W	4	c-bc	53	92	51	7	5	-	-	7-8	7-8	2000
	Scilly (St. Mary's)	27.1	+8	SW'W	4	c	52	92	50	7	8	7	2	7-8	9+	1200
	Guernsey ...															
6	Pembroke ...	24.0	+12	WSW	5	c	50	85	46	7	5	-	-	9+	9+	1200
7	Holyhead (Valley)	20.6	+10	SW	5	c	48	85	43	8	5	2	-	4-6	10	2000
	Chester (Sealand)	20.0	+6	WSW	3	c	52	65	41	8	2	7	-	1	10	4000
8	Manchester ...	19.5	+2	WSW	4	c	50	75	42	8	4	3	2	4-6	9	4000
10	Spurn Head ...	17.7	+2	SW'W	4	z_0	46	85	42	6	7	3	-	7-8	9+	2500
	Catterick ...	15.3	-4	W	4	c-bc	50	65	40	7	1	3	2	2-3	7-8	2000
	Tynemouth ...	13.1	+4	W	6	bcq	50	75	41	7	2	-	1	2-3	4-6	2600
11	St. Abbs Head	08.0	-4	W	6	bc	48	75	41	7	1	4	-	2-3	4-6	3500
	Leuchars ...	08.3	+10	WSW	5	c-bc	49	75	42	7	5	6	8	1	7-8	2500
12	Renfrew (Abbots I.)	11.7	+14	W'N	5	c	49	75	42	7	8	1	-	4-6	10	2000
	Eskdalemuir ...	13.8	+8	SW'W	5	c	44	85	41	6	5	2	-	9	10	1100
	Point of Ayre...	16.7	+6	W	6	c	48	85	44	8	6	7	-	Tr	10	1500
13A	Tiree	10.5	+26	W'S	6	c	49	75	42	7	5	7	-	4-6	9+	2200
13B	Stornoway ...	03.5	+6	WSW	7	c-bc	47	75	40	8	8	6	-	4-6	7-8	1800
15	Dalwhinnie ...	05.0	+14	WSW	4	c/pr	41	85	36	8	5	1	-	7-8	10	1500
	Aberdeen ...	05.0	+10	WSW	4	b	49	75	40	8	3	7	3	Tr	1	3000
	Wick ...	00.8	+22	W'S	4	c-bc/pr	43	85	38	8	8	-	3	4-6	7-8	1000
16	Sumburgh	02.9	+12	W'S	8	c/pr	46	85	43	7	3	6	-	7-8	9	1500
17	Blacksod Point	18.9	+6	W	4	c	51	97	50	7	5	-	-	10	10	1500
18	Malin Head ...	13.9	+20	W'S	6	c	49	75	42	8	5	-	-	10	10	1500
	Aldergrove ...	16.3	+2	WSW	4	c	48	75	41	7	8	7	9	2-3	9+	2500
19	Birr Castle ...	21.1	+10	WSW	2	c	48	97	47	8	5	-	-	10	10	1500
20	Valentia Obsy.	23.6	+10	SW	4	c	53	85	49	8	2	7	-	4-6	10	1500
	Roches Point	23.9	+8	WSW	3	c	50	85	46	8	8	1	-	4-6	9	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	°F. Temp. (21)	% Humid. (22)	°F. Dew Point. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	25.1	+12	SW'W	3	z_0	46	85	42	5	5	2	6	4-6	7-8	4000	1	*
	Croydon ...	25.1	+6	SW'W	3	z_0	47	92	45	5	-	7	6	0	9	-	1	*
	S. Farnborough	25.3	+2	SW'W	3	c	45	85	42	7	5	7	-	2-3	10	2500	1	*
	Boscombe Down	25.3	+6	WSW	3	c-bc	50	85	47	7	5	7	-	4-6	7-8	2500	1	*
	Thorney Island	25.5	+6	WSW	3	z_0	48	92	46	6	-	7	-	0	10	-	1	*
	Lympne ...	25.7	+16	WSW	2	c	46	92	44	7	5	7	-	2-3	10	5000	1	3
	Manston ...	24.5	+8	W'S	3	c	47	85	43	6	-	1	7	0	10	-	1	*
	Shoeburyness ...	24.9	+14	WSW	3	z_0	47	85	42	5	-	5	-	0	7-8	-	1	*
	Felixstowe ...	23.2	+10	SW'S	4	z_0	46	85	42	5	-	7	-	0	10	-	1	4
	Gorleston ...	22.2	+16	SW'W	2	c	47	75	41	6	5	-	-	10	10	1500	1	3
	Mildenhall ...	22.8	+10	SW	3	z_0	46	85	41	6	5	7	7	4-6	10	2500	1	*
	Cranwell ...	21.1	+14	W'S	4	z_0	46	85	41	6	5	7	-	4-6	9	4000	1	*
3	Birmingham ...	22.8	+6	WSW	2	c	47	75	39	7	-	1	7	0	9+	-	1	*
	Upper Heyford	24.1	+18	WSW	1	z_0	43	92	41	6	5	7	6	Tr	9+	2500	1	*
4	Ross-on-Wye	23.6	+6	SW'W	3	c	48	75	40	8	5	7	8	1	9	2500	1	*
5	Hartland Point	25.3	+8	W	3	c	48	97	48	6	5	4	8	4-6	9+	1500	1	4
	Bristol ...	25.5	+6	W	4	z_0	47	97	46	6	5	7	8	1	9+	1500	1	*
	Portland Bill ...	26.5	+6	SW	4	c	49	92	47	8	5	-	-	10	10	4000	1	4
	Plymouth ...	27.2	+6	W'S	4	z_0	49	92	47	6	4	3	5	2-3	7-8	2000	1	3
	The Lizard ...	27.7	+2	WNW	5	c-bc	50	97	46	8	8	6	-	7-8	7-8	1500	1	4
	Scilly (St. Mary's)	27.6	+6	W'S	4	c	50	92	48	7	5	9	-	9+	9+	1000	1	4
	Guernsey ...																	
6	Pembroke ...	24.8	+6	WSW	4	c	49	92	47	7	5	1	-	7-8	9+	2000	1	3
7	Holyhead (Valley)	22.3	+12	WSW	4	$i+_0$	48	85	44	7	5	2	-	2-3	10	2500	1	4
	Chester (Sealand)	21.1	+6	WSW	3	bc	49	75	40	7	-	7	8	0	4-6	-	1	*
8	Manchester ...	20.7	+10	WSW	4	z_0	47	75	40	6	5	3	-	4-6	7-8	2500	0	*
10	Spurn Head ...	19.7	+14	W'S	4	z_0	45	75	39	6	2	-	-	4-6	4-6	1500	1	3
	Catterick ...	17.6	+6	WSW	4	b-bc	46	75	39	7	5	3	5	1	2-3	2000	1	*
	Tynemouth ...	15.1	+8	W	6	b-bcq	47	75	38	6	2	4	-	2-3	2-3	2500	1	3
11	St. Abbs Head	10.5	+8	W	6	bc	47	75	43	7	5	4	-	2-3	4-6	3500	0	5
	Leuchars ...	11.2	+22	W	6	bc/pr	48	65	37	8	5	-	8	4-6	4-6	2000	1	*
12	Renfrew (Abbots I.)	14.4	+10	W	5	c/pr	48	85	42	6	8	7	-	4-6	9	1800	2	*
	Eskdalemuir ...	15.7	+10	WSW	5	$i+_0$	43	85	39	6	5	2	-	7-8	10	1100	1	*
	Point of Ayre...	18.9	+8	W'S	5	c/pr	48	85	44	8	6	2	-	7-8	10	2000	1	4
13A	Tiree	14.2	+20	W'S	4	c	48	75	42	7	5	7	-	4-6	9	3000	1	5
13B	Stornoway ...	09.7	+38	W	6	pr	48	85	39	7	3	-	-	4-6	4-6	1200	1	4
15	Dalwhinnie ...	11.2	+20	W	3	bc	39	85	35	8	5	-	1	4-6	4-6	2500	1	*
	Aberdeen ...	08.5	+20	W'S	4	b	45	65	34	8	1	4	3	Tr	1	4000	1	2
	Wick ...	04.8	+20	W	5	c-bc/pr	43	85	39	8	9	-	-	7-8	7-8	2500	1	*
16	Sumburgh	08.9	+40	WNW	6	c-bc/pr	44	92	42	8	3	6	3	4-6	7-8	2000	1	6
17	Blacksod Point	19.7	+6	WSW	3	c	49	92	47	7	5	-	*	9+	9+	2500	1	3
18	Malin Head ...	17.2	+22	W'S	5	$i+_0$	48	85	44	7	5	2	-	7-8	9+	1500	2	5
	Aldergrove ...	19.3	+14	W	4	c	46	85	43	7	5	2	-	9	10	2000	1	*
19	Birr Castle ...	22.8	+12	WSW	2	c	49	97	48	8	5	2	-	7-8	10	1500	1	*
20	Valentia Obsy.	23.7	+2	SSW	4	c-bc	50	92	48	8	2	-	1	7-8	7-8	1500	1	4
	Roches Point	24.3	+4	SW'W	3	bc	50	92	48	8	5	7	-	4-6	4-6	1500	1	4

PAST 24 HOURS.

District	Stations	Weather. 7h.–13h. 26th (39)	13h.–18h. 26th (40)	18h. 26th to 1h. 27th (41)	1h.–7h. 27th (42)
1	London (Kew)	bcm$_0$cz$_0$	cz$_0$m$_0$w	bcbm$_0$w	bccm$_0$w
	Croydon ...	bcm$_0$cz$_0$	cz$_0$	cm$_0$bcbcm$_0$	cm$_0$
	S. Farnborough	bcc	cpr$_0$c	cbbccm$_0$	cm$_0$cw
	Boscombe Down	bcc	cbc	bccir$_0$bccm$_0$	cbccm$_0$
	Thorney Island	cm$_0$bcm$_0$	bcccm$_0$	cbcm$_0$	cm$_0$w
	Lympne ...	bm$_0$c	cbcc	bcm$_0$bc	bcbffm$_0$
	Manston ...	bc	c	cm$_0$bc	bcm$_0$
	Shoeburyness ...	bcm$_0$	cm$_0$	cm$_0$	cm$_0$bcm$_0$
	Felixstowe ...	bmbcm$_0$cm$_0$	cm$_0$	cm$_0$bcm$_0$	cm$_0$bcm$_0$
	Gorleston ...	bcc	bcz$_0$	bcz$_0$bc	bc
	Mildenhall ...	bcm$_0$c	ccm$_0$	cm$_0$bcm$_0$	cwbcm$_0$
	Cranwell ...	bc$_0$cm$_0$	cm$_0$ccm$_0$	bm$_0$cm$_0$	cm$_0$cm$_0$
3	Birmingham ...	bbc	c	c	cbcpr$_0$
	Upper Heyford	bcfccm$_0$c	ccm$_0$	bcm$_0$	bcm$_0$ccm$_0$
4	Ross-on-Wye	bcc	cc	cbcc	cbcc
5	Hartland Point	bcc	c	cbccd$_0$bc	cidc
	Bristol ...	bcm$_0$pr$_0$bcm$_0$	bcm$_0$, c, cm$_0$	cm$_0$bm$_0$wc	c, cd$_0$c
	Portland Bill ...	c	c	cbc	c
	Plymouth ...	bccm$_0$	cm$_0$	bcm$_0$cm$_0$	cd$_0$d$_0$cm$_0$
	The Lizard ...	bcc	c	bcc	cbcc
	Scilly (St. Mary's)	bcc	c	cbcw	c
	Guernsey ...				
6	Pembroke ...	c	c	bbcc	bccpr$_0$q
7	Holyhead (Valley)	c	c	cir$_0$b	cbc
	Chester (Sealand)	bc	c	bcb	cm$_0$bcc
8	Manchester ...	bcm$_0$pr$_0$	cbc	bccm$_0$c	cm$_0$
10	Spurn Head ...	cm$_0$	bcm$_0$	bcm$_0$	bcm$_0$
	Catterick ...	pr$_0$bc	bc	bbcc	c
	Tynemouth ...	bccq	bcq	bcq	bcqcbc
11	St. Abbs Head	cbc	bccbc	bbc	cbc
	Leuchars ...	bcpr$_0$c	bcpr$_0$q$_0$	bcbbcz	bccw
12	Renfrew (Abbots I.)	cprc	cpr$_0$m$_0$	cm$_0$	cm$_0$ir$_0$cm$_0$
	Eskdalemuir ...	bccr$_0$m$_0$	cm$_0$ir$_0$	cr$_0$Rbc	bccor$_0$
	Point of Ayre...	c	cprc	prbcc	cbc
13A	Tiree	bcpr$_0$c	c	cd$_0$r$_0$c	cr$_0$r$_0$c
13B	Stornoway ...	cpr$_0$phc	cbcpr$_0$	bcpr$_0$bc	bcc
15	Dalwhinnie ...	cpr$_0$	$_0$PRc		cir$_0$
	Aberdeen ...	bcbq	b	b	bbcxz
	Wick ...	cpr$_0$c	cprbc	bcb	cb
16	Sumburgh	cp$_0$pRc	p$_0$thpr$_0$bc	cpr$_0$	cpr$_0$c
17	Blacksod Point	c	c	bc	r
18	Malin Head ...	pr	+	pr	pr
	Aldergrove ...	ccm$_0$c	cpr$_0$c	cbcbbcc	c
19	Birr Castle ...	+	c	*	c
20	Valentia Obsy.	bc	c	pr	r
	Roches Point	c	bc	bc	d

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 27th January

Districts.	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Moderate southwesterly winds, becoming moderate or fresh southerly; cloudy; local drizzle to-day; more general drizzle or rain to-night; local mist or fog: mild.
5 S.W. England 6 South Wales 7 North Wales 8 N.W. England 9 N. Midlands ...	Moderate or fresh southerly winds, strong locally near coasts; cloudy; rain at times; much hill fog and local coast fog: mild.
10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man ↓	Moderate to fresh southerly winds, strong locally later; cloudy; rain spreading east across area, with hill fog; mild.
13A W. Scotland ... ↓ 13B N.W. Scotland ↓ 14 Mid Scotland ↓ 15 N.E. Scotland ↓	Fresh or strong southerly winds, gales at times in West; much rain and hill fog: mild.
16 Orkneys and Shetlands ↓	As 13A–15
17 N.W. Ireland ↓ 18 N.E. Ireland ↓ 19 S.E. Ireland 20 S.W. Ireland	Fresh southerly winds, strong to gale in exposed places, veering West and moderating later; general rain at first with hill fog; broken cloud and showers later: mild.

GENERAL INFERENCE

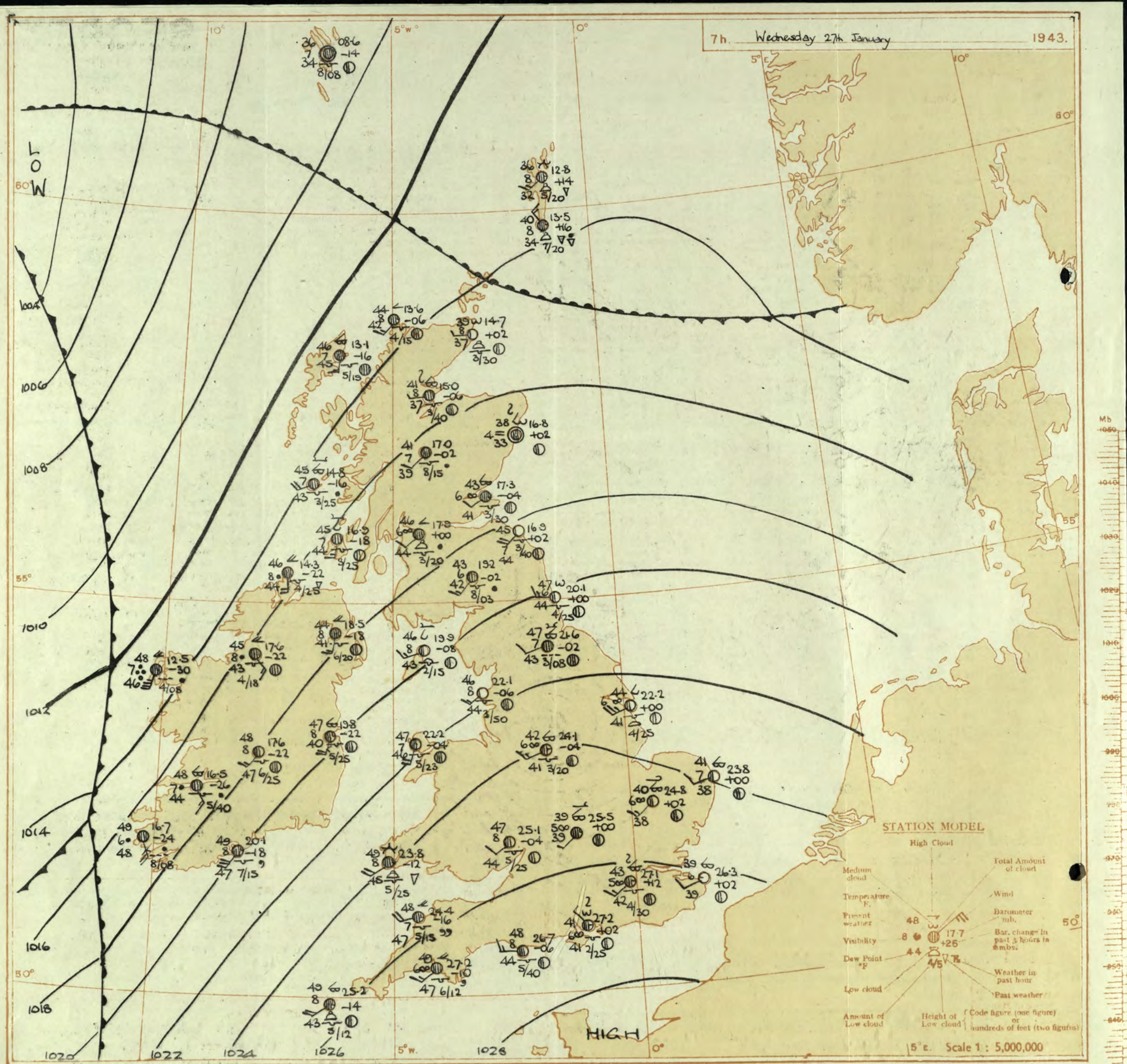
A ridge of high pressure is moving east across the British Isles, followed by a complex trough of low pressure now over western districts. There will be appreciable rain in Ireland and Scotland, and smaller amounts elsewhere; there will be strong to gale winds at times in West and North: mild.

FURTHER OUTLOOK

Rain spreading east across Scotland, Wales and England followed by improved conditions generally with showers in western and northern districts. ↓ Gale warning in operation in districts 12, 13A, 13B, 14, 15, 16, 17, 18. Issued at 1745 G.M.T. 26th January 1943.

Forecasts issued at 1300

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

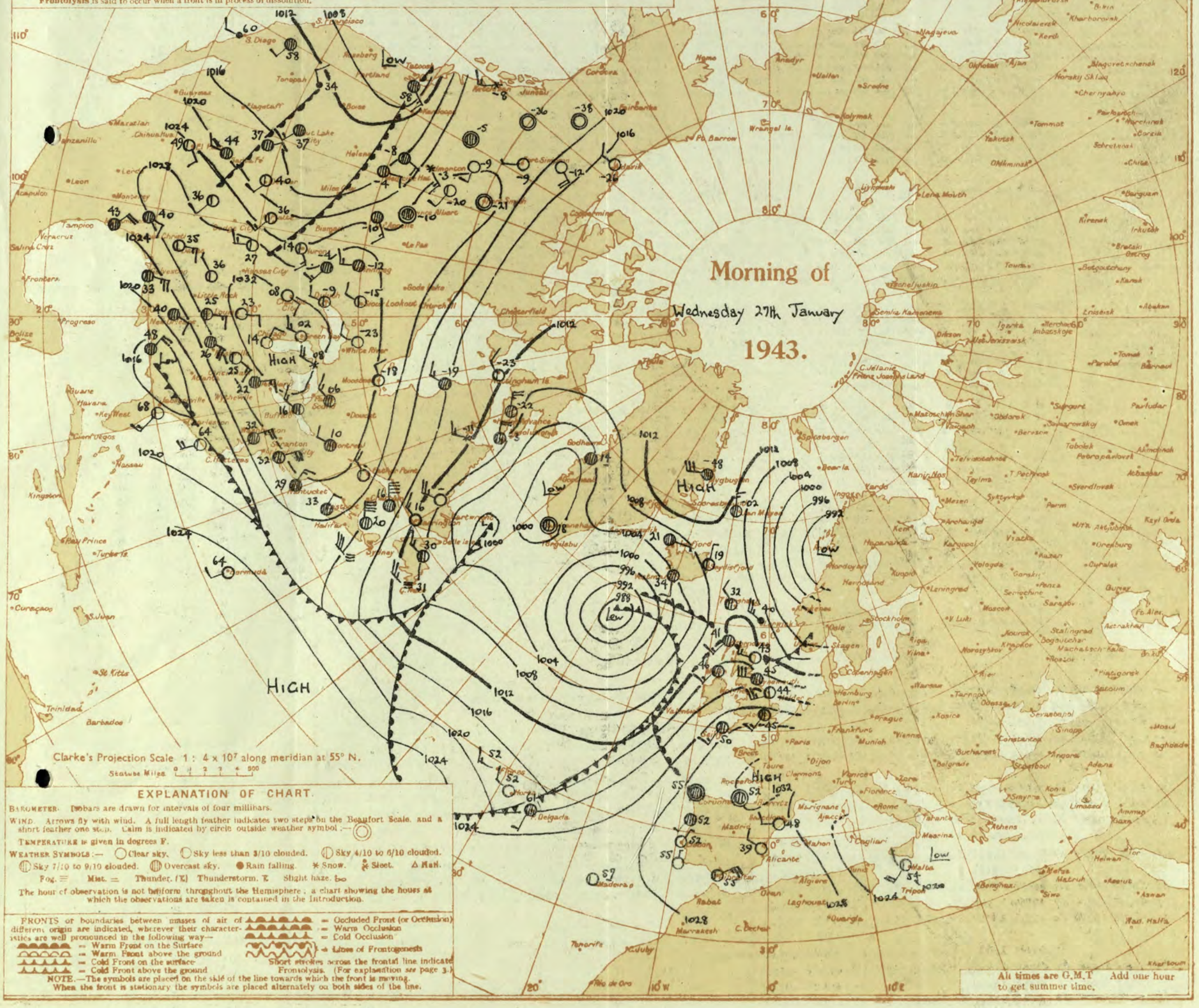
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add one hour to get summer time.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Wednesday 27th January 1943

No. 29651

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	42	-	*	*	*	*	*	*	*	*
	Croydon	290	26·0	+2	SW	3	z0	45	92	43	5	-	7	6	0	4-6	-
	S. Farnborough	226	26·8	+2	WSW	3	z0	43	97	42	6	-	7	8	0	7-8	-
	Boscombe Down	417	27·3	+6	SW	2	z0	40	97	40	6	-	3	-	0	9	-
	Thorney Island	10	27·0	-2	W'N	2	z0	43	97	42	6	-	3	-	0	7-8	•
	Lympne	283	26·3	+2	SW	1	bc	42	92	40	7	-	-	2	0	4-6	-
	Manston	154	25·5	0	W'S	3	z0	43	92	41	6	-	7	4	0	4-6	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	24·8	+8	WSW	4	z0	46	85	41	5	-	7	-	0	4-6	-
	Gorleston	5	23·1	+4	SW'W	2	bc	43	85	39	7	-	7	-	0	4-6	-
	Mildenhall	15	24·1	+4	SW	3	z0	42	92	40	6	-	-	2	0	4-6	-
	Cranwell	203	23·7	+6	W'S	3	z0	42	92	40	6	-	-	2	0	9	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	25·4	+2	WSW	2	z0	40	97	40	6	-	7	8	0	4-6	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	26·0	-4	W	3	c	48	85	44	7	5	2	-	4-6	9	1500
	Bristol	209	27·1	+6	W	2	c	46	92	44	7	5	-	-	9+	9+	2100
	Portland Bill	32	27·6	+6	SW	4	bc	48	85	44	8	1	-	-	4-6	4-6	4000
	Plymouth	82	28·4	+2	WSW	3	z0	48	97	47	6	5	7	-	7-8	9	1500
	The Lizard	240	28·0	-2	WSW	4	c	50	97	49	8	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	27·7	-2	SW'S	3	c-bc	50	92	49	7	8	4	-	7-8	7-8	1000
	Guernsey	175															
6	Pembroke	142	25·1	0	SW	3	c	49	92	47	7	8	-	-	9+	9+	2500
7	Holyhead (Valley)	32	23·4	-8	SW	4	b-bc	47	92	45	7	5	4	-	1	2-3	4000
	Chester (Sealand)	16	23·1	+2	SW	2	b-bc	46	85	43	7	5	-	8	Tr	2-3	4500
8	Manchester	235	23·6	+8	S	3	c	44	92	41	8	5	7	-	4-6	10	2100
10	Spurn Head	29	21·7	+10	WSW	5	z0	44	86	39	6	7	-	-	2-3	7-8	1500
	Catterick	175	21·0	+8	W	2	c	47	85	43	7	4	3	2	7-8	9+	4000
	Tynemouth	108	19·0	+10	W	6	bcq	45	83	41	6	2	4	2	2-3	4-6	2500
11	St. Abbs Head	280	15·5	+14	W	4	b-bc	44	85	41	7	5	-	-	2-3	2-3	4000
	Leuchars	36	16·8	+26	SW	3	bc	41	85	38	8	-	5	-	0	4-6	-
12	Renfrew (Abbots I.)	19	17·6	+6	WSW	2	z0	46	92	43	6	5	7	-	4-6	9+	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	20·8	+8	W'S	3	c-bc	46	97	45	8	8	4	6	2-3	7-8	2000
13A	Tiree	44	16·9	-2	WSW	3	c/r	47	92	46	7	5	7	-	4-6	9+	2500
13B	Stornoway	15	15·2	+14	SW	3	c-bc	41	97	40	8	4	-	6	1	7-8	2800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	14·5	+26	W'N	4	b	43	75	35	9	-	-	-	0	0	-
	Wick	114	13·8	+34	WNW	3	b-bc	40	85	37	8	8	-	-	2-3	2-3	3000
16	Sumburgh	19	09·5	+36	WNW	6	pr	41	97	40	7	9	6	3	4-6	9+	1500
17	Blacksod Point	18	18·3	-16	S	4	c-bc	48	85	44	8	8	-	-	7-8	7-8	2500
18	Malin Head	84	17·9	+4	SW	3	c-bc/pr	46	85	42	8	5	2	-	4-6	7-8	2500
	Aldergrove	268	20·4	-4	SSW	2	c	46	97	45	7	5	-	-	10	10	1800
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	21·2	-14	S'W	5	c	50	75	43	8	5	2	-	7-8	10	2500
	Roches Point	22	23·4	-16	SW'W	4	bc	50	92	48	8	5	-	5	2-3	4-6	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	26·9	+4	SSW	1	z0	41	97	41	5	5	7	-	9+	10	4000	1	*
Croydon	27·1	+12	SW	3	z0	43	97	42	5	5	7	6	4-6	9	3000	1	*
S. Farnborough	26·9	+2	W'N	3	c	42	97	41	7	5	7	-	9	9+	1300	1	*
Boscombe Down	27·0	-2	W	2	z0	43	97	42	6	5	7	-	9	10	1200	1	*
Thorney Island	27·2	+2	NW'W	1	z0	41	97	41	8	5	3	6	1	9	2500	1	*
Lympne	26·9	+2	W	1	bjf	35	97	35	5	-	-	1	0	1	-	1	3
Manston	26·3	+2	WSW	2	b	39	97	39	6	-	7	-	0	Tr	-	1	§
Shoeburyness	26·3	+2	WSW	2	z0	41	97	40	5	-	5	-	0	1	-	1	
Felixstowe	25·8	+2	SW'W	4	z0	41	92	39	8	-	7	-	0	1	-	1	3
Gorleston	23·9	0	WSW	2	bc	41	85	38	7	-	7	-	0	4-6	-	0	3
Mildenhall	24·8	+2	SW	3	z0	40	92	38	6	-	7	1	0	4-6	-	1	*
Cranwell	23·8	+2	WSW	3	z0	43	92	41	6	-	7	-	0	7-8	-	1	*
Birmingham	24·4	-2	WSW	3	bc	44	85	40	7	5	-	-	4-6	4-6	1600	1	*
Upper Heyford	25·5	0	SW	1	z0	39	97	39	5	-	7	8	0	9+	-	1	*
Ross-on-Wye	25·1	-4	SW	2	c-bc	47	85	44	8	5	-	-	7-8	7-8	2000	1	*
Hartland Point	24·4	-16	WSW	4	c/d	48	92	47	7	5	2	-	7-8	9+	1500	1	4
Bristol	26·8	-2	WSW	1	z0	45	92	43	6	5	-	-	9	9	2500	1	*
Portland Bill	26·7	-6	W	3	c-bc	48	85	44	8	5	-	-	7-8	7-8	4000	1	4
Plymouth	27·2	-10	SW	3	z0	49	92	47	6	5	2	-	9	10	1200	1	2
The Lizard	26·6	-10	WSW	5	c-bc	49	75	42	8	8	-	-	7-8	7-8	1500	1	4
Scilly (St. Mary's)	28·2	-14	SW'S	4	c	49	85	43	8	8	7	-	7-8	9+	1200	1	5
Guernsey																	
Pembroke	23·8	-12	SW'S	4	c	49	85	45	8	8	6	-	7-8	9+	2500	1	3
Holyhead (Valley)	22·2	-4	S'W	4	c-bc	47	92	46	7	5	-	-	7-8	7-8	2500	1	3
Chester (Sealand)	22·7	-10	-	0	b-bc	45	92	43	6	5	4	8	Tr	2-3	4500	1	*
Manchester	23·1	-6	S	3	z0	42	97	42	6	1	3	-	2-3	4-6	2500	1	*
Spurn Head	22·2	0	WSW	5	z0	44	85	41	6	7	4	-	4-6	4-6	2500	1	4
Catterick	21·6	-2	WSW	2	c	47	85	43	7	6	7	7	2-3	10	800	1	*
Tynemouth	20·1	0	W	3	bc	47	86	44	6	5	3	-	4-6	4-6	2500	1	3
St. Abbs Head	16·9	+2	SW	4	b-bc	45	97	44	7	5	-	-	2-3	2-3	4000	0	4
Leuchars	17·3	-4	SW	2	z0	43	97	41	6	5	7	-	2-3	9+	3000	1	*
Renfrew (Abbots I.)	17·9	0	SW	2	z0	46	92	44	6	8	1	-	2-3	10	2000	2	*
Eskdalemuir	19·2	-2	SW'S	3	o	43	97	42	6	5	-	-	10	10	300	1	*
Point of Ayre	19·9	-8	WSW	3	bc	46	85	43	8	4	4	5	1	4-6	1500	1	3
Tiree	14·8	-16	WSW	4	c	45	97	43	7	5	7	7	2-3	10	2500	1	2
Stornoway	13·1	-16	S	3	c	46	97	45	7	5	7	-	7-8	10	1900	1	2
Dalwhinnie	17·0	-2	SSW	2	o	41	92	39	7	5	[illegible]	-	10	10	1500	1	
Aberdeen †	16·8	+2	-	0	m	38	85	33	4	-	5	6	4-6	7-8	-	1	1
Wick	14·7	+2	W	1	b-bc	39	92	37	8	8	3	-	2-3	2-3	3000	1	*
Sumburgh	13·5	+16	NW	3	c/pr	40	75	34	8	2	-	-	9+	9+	2000	1	5
Blacksod Point	12·5	-30	S'W	7	RR	48	92	46	7	6	2	-	4-6	10	800	2	5
Malin Head	14·3	-22	S	4	ir0	46	92	44	8	5	2	-	4-6	10	2500	2	3
Aldergrove	18·5	-18	S'W	3	c	44	85	41	8	5	2	-	9	10	2000	1	*
Birr Castle	17·6	-22	SSW	3	c	48	97	47	8	5	-	-	9	9	2500	1	*
Valentia Obsy.	16·7	-24	S'E	5	ir0	49	97	48	6	6	-	-	10	10	800	1	4
Roches Point	20·1	-18	SSW	6	c	49	92	47	8	5	-	-	9+	9+	1500	1	5

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F. (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 26th Hrs. (38)
London (Kew)	50	41	31	Tr	Tr	3·3
Croydon	51	42	39	-	Tr	0·4
S. Farnborough	50	41	35	0·1	-	3·2
Boscombe Down	50	39	34	-	0·2	1·0
Thorney Island	51	38	30	-	Tr	*
Lympne	52	34	28	-	-	4·7
Manston	50	39	34	-	-	4·4
Shoeburyness	50	40	30	-	-	2·3
Felixstowe	51	40	34	-	-	[illegible]
Gorleston	49	40	35	-	-	2·9
Mildenhall	50	40	34	-	Tr	2·9
Cranwell	49	41	38	-	-	1·5
Birmingham	48	40	36	-	0·2	1·4
Upper Heyford	49	38	33	-	-	*
Ross-on-Wye	52	43	36	-	-	1·5
Hartland Point	50	47	46	-	1	1·8
Bristol	51	43	35	-	Tr	1·4
Portland Bill	50	45	*	-	-	*
Plymouth	52	47	43	-	1	2·1
The Lizard	53	47	*	6	-	2·0
Scilly (St. Mary's)	54	48	*	*	-	2·5
Guernsey						
Pembroke	50	49	*	-	Tr	0·3
Holyhead (Valley)	49	45	42	-	Tr	*
Chester (Sealand)	53	44	32	-	-	0·4
Manchester	51	42	38	Tr	-	*
Spurn Head	47	42	*	Tr	-	1·3
Catterick	50	45	39	Tr	-	6·1
Tynemouth	54	45	41	-	-	*
St. Abbs Head	50	44	*	-	-	*
Leuchars	50	39	29	1	-	2·7
Renfrew (Abbots I.)	49	45	41	*	1	0·0
Eskdalemuir	46	40	39	2	4	0·0
Point of Ayre	48	45	*	0·2	0·2	0·0
Tiree	49	44	41	Tr	0·2	0·0
Stornoway	43	39	34	4	1	1·6
Dalwhinnie	43	39	33	8	1	0·0
Aberdeen †	50	37	29	-	-	5·5
Wick	45	36	33	4	Tr	*
Sumburgh	47	39	36	8	1	0·0
Blacksod Point	51	46	*	0·1	4	
Malin Head	50	43		0·1	1	0·0
Aldergrove	48	44	39	Tr	Tr	0·0
Birr Castle	50	43	40	0·2	-	0·0
Valentia Obsy.	58	48	44	-	6	0·1
Roches Point	52	49	*	-	0·1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 26th January … 18h. G.M.T. … 01h. G.M.T. 27th January … 07h. G.M.T.

III	13h. $C_L C_M$	13h. $wwVhN_h$	13h. DDFWN	18h. $C_L C_M$	18h. $wwVhN_h$	18h. DDFWN	01h. $C_L C_M$	01h. $wwVhN_h$	01h. DDFWN	07h. $C_L C_M$	07h. $wwVhN_h$	07h. DDFWN
109	37	83645	57786	90	27644	57584	5-	01754	27314	52	02755	60027
115	57	86734	91787	87	81734	93787	87	25844	26487	51	02844	20327
203	8-	81846	24686	8-	81846	24686						
206	3-	81744	55584	30	01863	57483	5-	01864	22314	57	02863	24128
210	96	81845	56987	36	81846	56487	26	01963	24313	53	02865	15218
220												
230	92	81745	53688	97	25644	55584	5-	02748	20328	5-	02754	18268
245	20	01851	22424	24	01851	55483	00	01890	26205	07	01890	23128
260	83	05655	53527	56	08454	53684	57	05663	20216	51	22663	18268
278				5-	61748	23668	53	02752	22467	53	18327	18946
279	52	10745	52628	97	81745	20587	5-	02756	20556	52	02654	20427
285				27	01744	26684				5-	61628	24468
288	50	02853	20525	04	01890	17312	03	02790	17215	59	02751	18424
578	57	02846	22328	07	22790	20367	57	01854	18224	52	61844	12328
301	51	05673	23528	50	02765	24425	57	02853	22327	50	01873	20323
321												
[illegible]				5-	05655	20315	44	05653	24213	5-	05656	24126
292	50	02755	22426	4-	02745	22426	53	02764	24315	57	06654	20328
310	--	01643	20513	--	01626	24416				--	46109	24349
614	50	05253	26425	5n	05663	22424	04	05690	22115	57	05565	24227
333	52	02765	20328	52	02764	20428	53	05643	20317	57	51635	19357
334				--	10644	24316				--	53547	20358
340	50	02744	22215	57	02753	20325	03	01790	26214	54	02762	20315
136	07	05690	20428	07	05690	20327	03	05690	22316	00	05690	21215
336	73	01754	28415	53	01754	24415				59	02754	24428
350	50	05651	22425	57	05663	22328	57	05690	22328	07	05590	21326
368	26	02653	22416	84	05644	22485	50	01644	26284	57	21746	24257
379	57	02751	22527	57	05643	22326	--	48109	24349	5-	05657	20447
390	00	05630	24415	00	45390	20247				01	47390	12224
382	00	05690	24426	02	05690	24428	04	05690	25313	57	05644	22125
438	54	01753	22514	54	05538	22428	5-	47134	24444	54	05562	22343
430	57	05543	22317	57	05542	00027	07	43390	22146	57	05531	22124
409	5-	02735	22327	5-	02735	24427	52	51636	17228	5-	05657	17387

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 27th January
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	bcm0cz0	cz0m0w	bc cm0w
Croydon	bcm0cz0	cz0	cm0bcm0
Greenwich	bcm0	bec ⊕oc	cbbccm0
Camden Square	c	c	*
Kensington	bc	bco	*
Hampstead	bc	bc	om

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended [illegible]: Max. 0·3, Time 18h 26th; Min. 0·1, Time 0-4h 27th.

Stations	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 % Yesterday	Humidity 9h % To-day
Kew	50	41	31	Tr	Tr	3·3	*	*
Croydon	51	42	39	-	Tr	0·4	*	*
Greenwich	51	42	35	-	Tr	3·5	76	88
Westminster	52	41	34	0·1			78	93
Regents Park	50	41	38	-	-		78	92
Camden Square	50	42	35	-	-	*	*	92
Kensington	52	40	34	Tr	Tr		80	93
Hampstead	49	40	35	-	-		*	95

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

SECRET

Thursday 28th January 1943.

No. 29652

OBSERVATIONS at 13h. G.M.T. 27th January

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	25.7	-8	SW'W	3	d_0d_0	47	92	45	5	5	-	-	10	10	2500
	Croydon ...	26.3	-10	SW'W	3	c	45	85	45	6	5	2	-	9	9+	2000
	S. Farnborough	26.1	-12	SSW	3	id_0	46	97	45	6	5	-	-	10	10	800
	Boscombe Down	25.2	-16	SSW	4	z_0	48	85	43	6	5	-	-	9+	9+	2000
	Thorney Island	26.7	-12	SW'S	2	id_0	49	92	47	7	5	2	-	7-8	9+	1500
	Lympne ...	26.9	-8	W'S	2	c	46	82	43	7	5	-	-	7-8	10	600
	Manston ...	25.9	-10	WSW	3	z_0	46	92	43	6	5	-	-	9+	9+	1200
2	Shoeburyness ...	26.1	-4	WSW	3	z_0	47	85	42	6	5	-	-	10	10	1500
	Felixstowe ...	25.2	-6	SW	3	z_0	50	75	43	5	5	-	6	2-3	7-8	1200
	Gorleston ...	24.1	-2	SW	1	bc	51	75	45	7	-	7	-	0	4-6	-
	Mildenhall ...	24.5	-6	SW'W	6	c	49	85	44	7	5	7	2	7-8	9+	1500
	Cranwell ...	22.4	-1.4	SSW	5	z_0	48	85	43	6	5	3	-	9	9+	1000
3	Birmingham ...	22.5	-10	SSW	3	c	47	75	40	7	5	-	-	7-8	9+	2500
	Upper Heyford	25.4	-10	SSW	3	c	47	92	44	7	5	1	-	9	9+	1200
4	Ross-on-Wye	22.9	-16	SW'W	4	c	49	75	42	8	5	-	1	9	9+	3000
5	Hartland Point	21.8	-20	SW	5	c	50	75	42	8	5	1	-	7-8	9+	2500
	Bristol ...	24.9	-1.4	WSW	3	c	49	75	42	8	5	-	-	9+	9+	2600
	Portland Bill ...	26.1	-4	SW	5	c	48	85	44	8	5	-	-	10	10	4000
	Plymouth ...	25.4	-1.4	SSW	4	c	50	97	49	8	5	-	-	9	10	2500
	The Lizard ...	24.7	-10	SSW	5	c	51	92	49	7	5	2	-	7-8	9+	1500
	Scilly (St. Mary's)	22.4	-18	S'W	5	cjp	52	92	50	7	5	7	-	4-6	9+	1200
	Guernsey ...															
6	Pembroke ...	21.1	-18	S'E	6	cq	49	92	46	8	5	1	-	9+	10	2000
7	Holyhead (Valley)	18.8	-20	S'W	7	RR	47	92	48	6	-	2	-	10	10	1000
	Chester (Sealand)	20.0	-22	SSW	2	c	51	65	40	8	5	7	-	8	9+	2800
8	Manchester ...	20.5	-26	S'W	5	c	48	85	43	8	5	3	-	7-8	9	2500
10	Spurn Head ...	22.3	-4	SW'W	8	z_0	46	75	41	6	7	3	-	4-6	4-6	4000
	Catterick ...	19.7	-16	SW	3	z_0	48	75	41	6	5	7	-	7-8	10	1200
	Tynemouth ...	19.3	-14	WSW	3	c	49	75	42	6	9	-	-	9+	9+	1100
11	St. Abbs Head	15.0	-14	S	4	c/+	46	92	45	7	6	2	-	4-6	9+	3000
	Leuchars ...	14.7	-20	S	2	ir_0	46	85	42	6	5	7	-	4-6	10	2500
12	Renfrew (Abbots I.)	14.0	-26	S'W	3	$+_0+_0$	48	85	44	7	5	2	-	7-8	10	1400
	Eskdalemuir ...	16.4	-20	SSW	4	$+_0+_0$	44	92	43	6	-	2	-	10	10	300
	Point of Ayre...	16.7	-22	SW'W	4	c	49	85	45	8	8	7	7	2-3	10	2500
13A	Tiree	08.5	-40	S'E	5	++	45	97	45	6	6	2	-	9+	10	400
13B	Stornoway ...	07.9	-26	S	7	d_0d_0	46	97	45	6	5	-	-	10	10	800
15	Dalwhinnie ...	12.8	-24	S	4	o	42	85	37	8	5	7	-	9	10	1500
	Aberdeen ...	14.4	-16	SW'S	2	z_0	46	85	41	6	5	7	7	Tr	10	3000
	Wick ...	11.9	-22	SSE	2	c	44	92	42	9	5	2	-	4-6	10	3000
16	Sumburgh	12.3	-16	SSE	4	c	43	85	38	8	5	7	-	Tr	9+	4000
17	Blacksod Point	06.6	-30	S	7	DR	50	97	49	6	6	2	-	2-3	10	800
18	Malin Head ...	08.4	-32	S'W	5	ir_0	47	92	45	8	5	2	-	7-8	10	4000
	Aldergrove ...	13.8	-30	S'E	3	c/+	46	92	44	7	5	2	-	9	10	1500
19	Birr Castle ...	13.1	-26	SSW	3	pr	50	97	49	8	8	2	-	2-3	10	1500
20	Valentia Obsy.	11.6	-24	SSW	6	ir_0	53	92	51	6	5	-	-	10	10	800
	Roches Point	15.8	-22	S'W	5	dd	51	97	50	6	5	-	-	10	10	450

OBSERVATIONS at 18h. G.M.T. 27th January

District	Stations.	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	23.4	-1.4	SW	3	z_0	46	85	42	6	5	-	-	9+	9+	2500	1	*
	Croydon ...	24.3	-12	SW'S	4	c	46	85	43	6	5	-	-	10	10	2500	1	*
	S. Farnborough	23.9	-12	SSW	4	c	46	85	41	7	5	-	-	10	10	2500	1	*
	Boscombe Down	23.6	-10	S	3	c/d	46	92	44	7	5	-	-	10	10	1400	1	*
	Thorney Island	24.6	-1.4	S'W	4	c	47	85	43	8	5	-	-	10	10	4100	1	*
	Lympne ...	25.5	-6	WSW	2	c	45	85	40	7	5	-	-	2-3	10	1000	1	*
	Manston ...	24.7	-10	WSW	5	z_0	47	65	37	6	5	-	-	10	10	700	1	*
2	Shoeburyness ...	24.2	-6	SW	3	z_0	47	75	41	5	5	-	-	10	10	1500	2	*
	Felixstowe ...	23.7	-10	SSW	3	z_0	45	85	42	6	5	-	-	9+	9+	3500	1	3
	Gorleston ...	22.7	-4	S'W	3	z_0	48	75	41	6	5	-	7	10	10	2500	0	3
	Mildenhall ...	21.7	-1.4	SW'S	4	z_0	47	85	42	6	5	7	-	4-6	9	2500	1	*
	Cranwell ...	19.1	-10	SSW	5	$+_0+_0$	46	85	41	6	5	-	-	9+	9+	1000	1	*
3	Birmingham ...	20.1	-16	S	4	c	46	85	42	7	5	7	-	4-6	10	1500	1	*
	Upper Heyford	21.8	-1.4	S'W	4	c	45	85	42	7	5	7	-	4-6	9	1400	1	*
4	Ross-on-Wye	19.9	-1.4	SSW	4	c	49	85	44	7	5	7	-	7-8	9+	2000	1	*
5	Hartland Point	18.7	-10	SW	5	c	50	92	47	7	5	2	-	7-8	10	1500	0	5
	Bristol ...	22.2	-20	SSW	4	ir_0	49	85	45	7	5	7	-	9	10	1100	1	*
	Portland Bill ...	22.6	-10	S	4	cjk2	49	92	47	8	5	-	-	10	10	4000	1	5
	Plymouth ...	22.9	-1.4	SW	5	$+_0+_0$	51	97	51	6	5	-	-	10	10	1000	1	3
	The Lizard ...	21.7	-2	WSW	5	o	52	92	50	7	5	-	-	10	10	1500	1	5
	Scilly (St. Mary's)	19.7	-12	S'W	4	c	51	92	49	7	5	-	-	9+	9+	1300	1	4
	Guernsey ...																	
6	Pembroke ...	17.5	-24	S'W	6	cq	51	92	47	7	5	2	-	9+	10	2000	1	4
7	Holyhead (Valley)	14.4	-1.4	S'W	7	id_0	49	97	48	6	-	2	-	10	10	400	1	5
	Chester (Sealand)	16.4	-22	SSE	2	c	49	85	45	7	5	7	-	7-8	10	2500	1	*
8	Manchester ...	17.3	-18	SSE	5	c/+	44	92	43	6	5	2	-	7-8	10	1300	1	*
10	Spurn Head ...	19.3	-6	SSW	3	z_0	45	85	40	6	7	3	-	4-6	9+	2500	1	3
	Catterick ...	15.7	-20	S	3	$i+_0$	47	85	43	5	6	2	-	7-8	10	1100	1	*
	Tynemouth ...	14.6	-20	SSW	4	c/+	46	86	41	6	8	-	-	9+	9+	1500	1	3
11	St. Abbs Head	09.6	-20	SW	5	c/p+	45	97	45	7	6	-	-	9+	9+	1500	1	4
	Leuchars ...	08.4	-24	SW'S	2	ir_0	48	92	44	7	5	-	-	10	10	1200	1	*
12	Renfrew (Abbots I.)	08.1	-30	S'W	4	++	49	97	47	6	6	2	-	7-8	10	1000	1	*
	Eskdalemuir ...	11.8	-18	S'W	5	++	44	97	44	6	-	2	-	10	10	300	1	*
	Point of Ayre...	11.1	-30	SW	6	it_0	51	85	48	7	6	2	-	7-8	10	1000	1	4
13A	Tiree	02.9	-30	S	6	d_0d_0	46	97	46	5	5	-	-	10	10	450	1	5
13B	Stornoway ...	00.7	-34	S	8	it_0	48	97	47	6	5	7	-	7-8	10	1100	1	6
15	Dalwhinnie ...	05.8	-44	S	4	$i+_0$	43	92	40	6	5	2	-	7-8	10	1500	1	*
	Aberdeen ...	08.4	-36	S	4	m	45	92	43	4	5	2	-	7-8	10	1500	1	2
	Wick ...	05.3	-24	S	3	c/+	44	92	42	7	5	7	-	4-6	9	3500	1	*
16	Sumburgh	06.6	-36	S	5	c	44	92	43	8	5	7	-	9	10	1500	1	3
17	Blacksod Point	04.4	-2	SSW	7	bc	53	75	46	7	9	-	-	4-6	4-6	1500	2	6
18	Malin Head ...	03.9	-20	S'W	5	ir_0	51	92	49	8	5	2	-	7-8	9+	1500	2	4
	Aldergrove ...	08.5	-18	S	4	c	51	92	49	7	5	2	-	9	10	1000	1	*
19	Birr Castle ...	09.6	-16	SSW	2	cjk2	53	97	52	8	6	2	-	7-8	10	1500	1	*
20	Valentia Obsy.	10.6	+2	SW'S	6	c/+	53	92	51	7	2	-	1	7-8	9	1500	1	4
	Roches Point	12.3	-18	SSW	5	id	51	97	50	6	5	-	-	10	10	450	1	5

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 27th (39)	12h.—18h. 27th (40)	18h. 27th to 7h. 28th (41)	1h.—7h. 28th (42)
1	London (Kew)	mwcd₀m₀	cd₀cp₀c	cm₀	cir₀
	Croydon ...	bcm₀cm₀	cm₀id₀cm₀	cm₀	cm₀id₀cm₀
	S. Farnborough	cwcd₀id₀m₀	cid₀m₀c	cid₀d₀m₀	cd₀id₀cm₀
	Boscombe Down	cd₀d₀m₀cmm	ccid₀c	crₒr₀m₀	cr₀d₀mcm₀
	Thorney Island	cmwid	cid₀c	cd₀d₀	d₀d₀id₀c
	Lympne ...	bcmom₀c	cid₀c	tocir₀c	cm₀d₀fd₀
	Manston ...	bcm₀bm₀	cir₀d₀cm₀	cm₀ir₀ir	cm₀id₀
2	Shoeburyness ...	bcm₀	cm₀	cir₀m₀	cir₀m₀cm₀
	Felixstowe ...	bcm₀cz₀	cm₀	cid₀m₀cm₀	cm₀
	Gorleston ...	bc	c	cir₀cq	cq
	Mildenhall ...	bcm₀wc	ccm₀	cir₀m₀c	c
	Cranwell ...	bcm₀cm₀	cc+₀+₀m₀	cm₀	cm₀cm₀w
3	Birmingham ...	bcc	cp+c	co	ir₀c
	Upper Heyford	m₀fcm₀c	c	ccid₀m₀	od₀d₀cm₀
4	Ross-on-Wye	cod₀c	c	cid₀	cr₀c
5	Hartland Point	c	cpr₀+c	cd₀d₀c	c
	Bristol ...	cm₀c	c	crₒr₀m₀c	c
	Portland Bill ...	c	c	o	o
	Plymouth ...	cm₀c	c+₀cm₀	cd₀d₀m₀	cm₀
	The Lizard ...	c	ciro	oido	co
	Scilly (St. Mary's)	c	cp+₀c	c	c
	Guernsey ...				
6	Pembroke ...	cirprq	cir₀q	cddm₀q	ireqm₀
7	Holyhead (Valley)	c+₀d₀c	oRRm₀c	od₀d₀m₀	orrm₀
	Chester (Sealand)	b, bc	c++++₀+₀	ir₀m₀c	ror₀m₀c
8	Manchester ...	bcm₀c	+₀+m₀	cm₀	ir₀r₀r₀
10	Spurn Head ...	bcm₀c	cm₀	c	c
	Catterick ...	ccm₀	id₀cm₀	cir₀m₀c	md₀crₒr₀m₀
	Tynemouth ...	bcmc	cpc	ebc	bc
11	St. Abbs Head	bcc+	c+₀cp+c	cprd₀bc	bc
	Leuchars ...	cm₀	crₒr₀cir₀m₀	cirm₀cd₀d₀	bcc
12	Renfrew (Abbots I.)	cm₀i+₀+₀+₀	cm₀++	cm₀r₀r₀	cm₀ir₀bcm₀
	Eskdalemuir ...	d₀d₀fr₀	o+₀++	orₒrm	orrm
	Point of Ayre...	bcc	cir₀	ir₀cb	bbcc
13A	Tiree	cr₀dm₀+++m₀	+m₀idrm	od₀cbc	bcc
13B	Stornoway ...	ecit₀	r+cir₀m₀	crₒr₀pr	cbc
15	Dalwhinnie ...	m₀it₀	oir₀		oprc
	Aberdeen ...	bczc	c++z₀cz	cir₀cz₀	cz₀
	Wick ...	cr₀r₀c	c++m₀	cbc	c
16	Sumburgh	c	c	crₒr₀ir₀	cpr₀bcc
17	Blacksod Point	d	bc	pr	c
18	Malin Head ...	+	+	r	r
	Aldergrove ...	+₀+₀m₀c	cid₀c	cir₀cbc	bcc
19	Birr Castle ...	p+	c		c
20	Valentia Obsy.	+	+	d	pr
	Roches Point	+	+	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 28th January, 1943.

Districts.	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands 5 S.W. England South Wales ↓	Moderate or fresh south to southwest winds, strong to gale in extreme west; cloudy, with occasional rain or drizzle, mainly slight; moderate visibility, with some hill fog; mild.
7 North Wales ↓ 8 N.W. England ↓ 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland ↓	Moderate or fresh southerly winds, strong in west; cloudy, with fairly general rain today, and later tomorrow; some hill fog; mild.
12 S.W. Scotland & Isle of Man ↓ 13A W. Scotland ... ↓ 13B N.W. Scotland ↓ 14 Mid Scotland 15 N.E. Scotland ↓	Moderate or fresh southerly winds, becoming strong to gale in west, then veering; cloudy with local showers today; general low cloud and rain spreading east tonight followed by cloudy weather and showers; much hill fog during rain; mild, becoming rather cold.
16 Orkneys and Shetlands ↓	mild, becoming rather cold.
17 N.W. Ireland ↓ 18 N.E. Ireland ↓ 19 S.E. Ireland ↓ 20 S.W. Ireland ↓	Moderate or fresh southerly winds, strong to gale later in exposed areas, veering southwest to west and moderating slowly; rain spreading east this evening followed by cloudy weather and showers; mild, becoming rather cold.

GENERAL INFERENCE

Pressure is low in the Iceland region, and high to the southeast of the British Isles. A weak trough of low pressure is moving east across Wales and Southwest England, and a more vigorous trough is approaching Eire from the West; weather will be cloudy and mild generally with appreciable rain in Northern and Western districts, and occasional rain elsewhere winds will be strong to gale at times in the west.

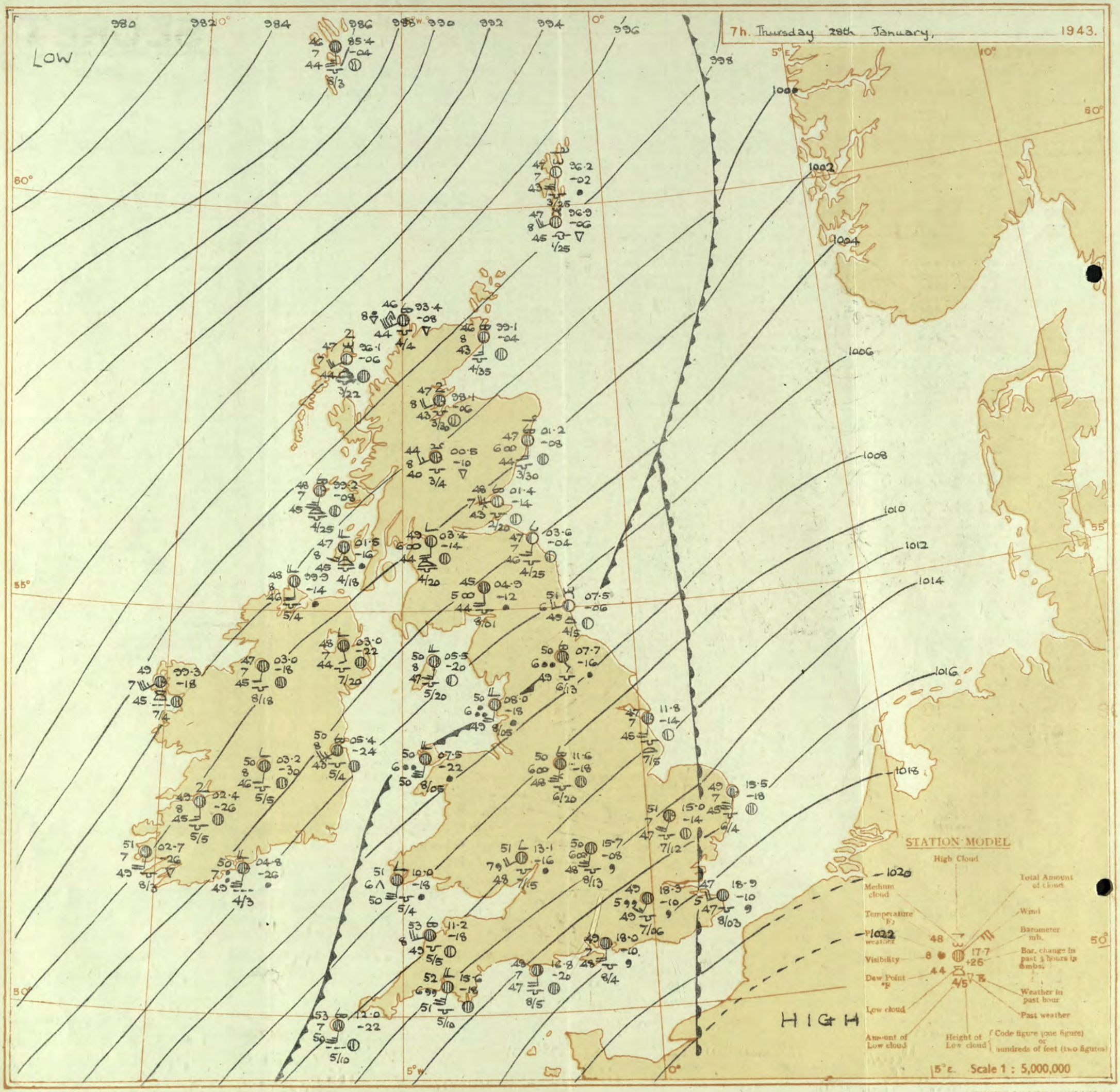
FURTHER OUTLOOK

Improved conditions spreading east across all British Isles, with scattered showers in west and north, and general westerly winds.

Gale warning in operation in district 13B. Time of issue 1645h. 25th Jan: 1943. In districts 12, 13A, 15, 16, 17, 18. 2330h. 25th Jan: 1943. In district 11. 0525h. 26th Jan: 1943. In districts 6, 7, 8, 13, 20. 1300h. 27th Jan: 1943.

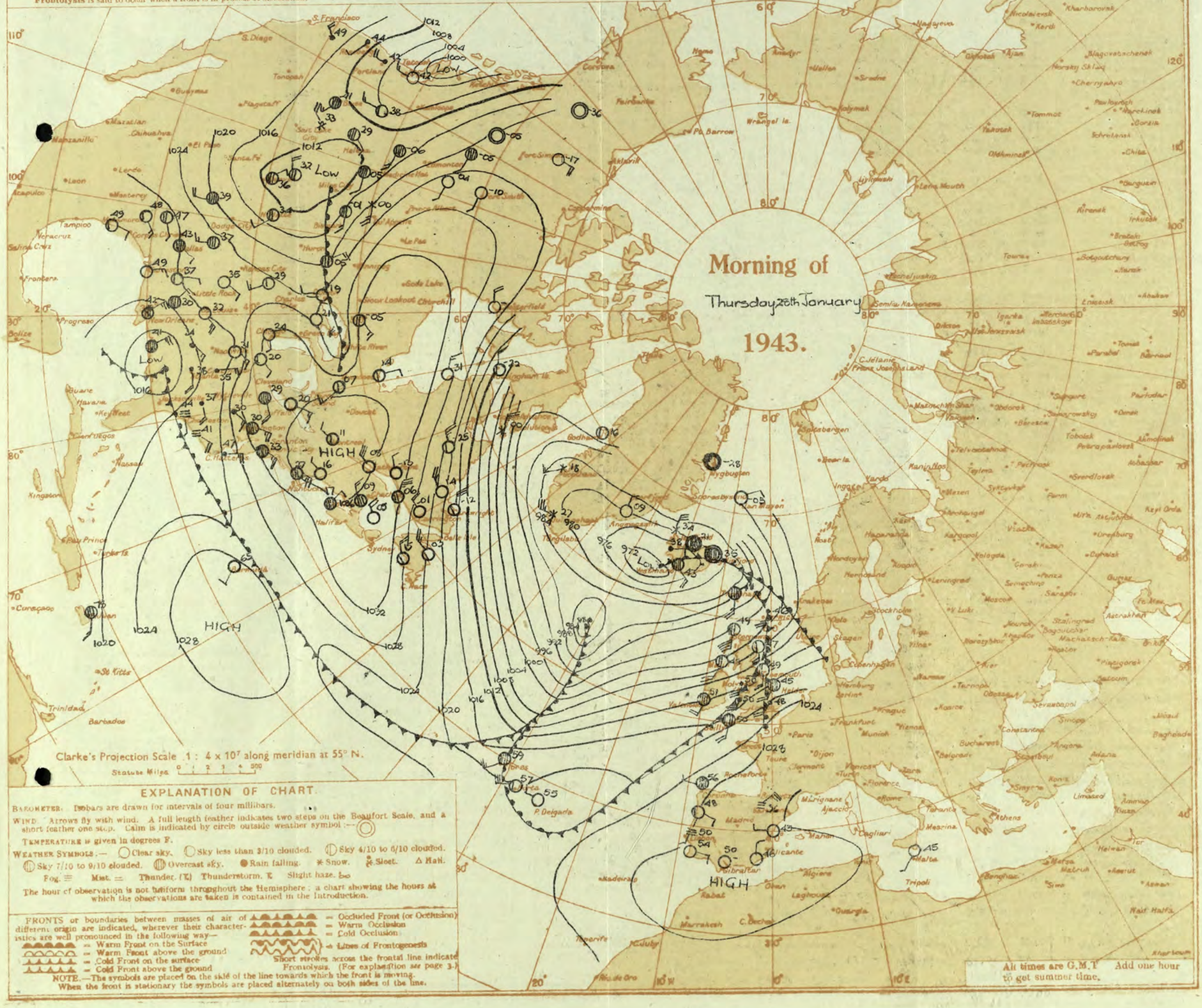
Forecasts issued at 10.30.

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunstable

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



Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.

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. (T) 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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

= Warm Front on the Surface
= Warm Front above the ground
= Cold Front on the surface
= Cold Front above the ground
= Occluded Front (or Occlusion)
= Warm Occlusion
= Cold Occlusion
= Lines of Frontogenesis
Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Thursday 28th January 1943

No. 29652

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	47	*	*	*	*	*	*	*	*	*
	Croydon ...	290	21·0	+18	SW'S	4	id.	48	97	47	5	5	-	-	10	10	800
	S. Farnborough	226	20·2	+18	S'W	5	d.d.	48	97	47	6	5	-	-	10	10	600
	Boscombe Down	417	19·9	-22	S'W	4	r.r.	49	97	49	6	5	-	-	10	10	200
	Thorney Island	10	20·8	-28	SW	4	d.d.	48	92	47	5	5	-	-	10	10	600
	Lympne ..	283	22·5	-14	SSW	3	c/r	46	92	44	7	5	-	-	10	10	1100
	Manston ...	154	21·3	-22	SW'W	4	ir	47	92	45	6	5	-	-	7-8	10	1000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	20·2	-16	SSW	3	c-bc/d	44	97	42	5	5	-	-	7-8	7-8	1400
	Gorleston ...	5	18·9	-20	SSW	4	c	45	92	43	7	5	-	-	9+	9+	1500
	Mildenhall ...	15	17·8	-22	SSW	5	c	49	85	45	7	5	-	-	9+	9+	1200
	Cranwell ...	203	15·0	-22	SSW	6	z.	50	85	46	6	5	-	-	9	10	1000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	18·5	-14	SSW	5	c/d	49	97	47	6	5	-	-	10	10	600
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	15·4	-14	WSW	5	c	52	92	50	8	5	2	-	7-8	10	1500
	Bristol ...	209	18·0	-22	SW'S	5	c	52	92	50	7	5	7	-	4-6	9	3500
	Portland Bill ...	32	20·4	-14	S	4	o	47	92	45	7	5	-	-	10	10	2500
	Plymouth ...	82	19·8	-18	SSW	5	c/d	51	97	51	6	5	-	-	10	10	1000
	The Lizard ...	240	18·5	-14	WSW	6	c/d	57	97	57	7	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	16·7	-22	SSW	5	c	52	92	51	6	5	-	-	10	10	1000
	Guernsey ...	175															
6	Pembroke ...	142	14·8	-18	SSW	6	d.d.	50	97	50	7	5	-	-	10	10	1500
7	Holyhead (Valley)	32	11·8	-6	SSW	6	d.d.	50	97	50	6	-	2	-	10	10	400
	Chester (Sealand)	16	12·9	-14	S	1	ir.	52	85	48	6	5	-	-	9+	9+	1500
8	Manchester ...	235	14·4	-10	S'W	5	z.	50	92	48	6	5	-	-	10	10	1000
10	Spurn Head ...	29	14·9	-14	SW'S	4	c	46	92	44	7	7	3	-	4-6	9+	2500
	Catterick ..	175	10·6	-22	SSW	3	z.	50	85	47	6	5	7	-	7-8	10	1200
	Tynemouth ...	108	09·9	-14	SSW	3	bc	49	85	43	6	5	-	-	4-6	4-6	1500
11	St. Abbs Head	280	05·0	-24	SW	5	bc	49	97	48	7	5	7	-	2-3	4-6	1500
	Leuchars ...	36	04·0	-16	WSW	4	c/r	50	92	48	6	5	7	-	4-6	9	2000
12	Renfrew (Abbots L.)	19	05·7	-4	SW	3	z.	50	85	46	6	5	7	-	4-6	9	1800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	08·1	-8	WSW	5	b-bc	52	92	50	8	4	-	8	2-3	2-3	2800
13A	Tiree	44	01·2	-8	SSW	5	bc	50	85	46	7	8	-	-	4-6	4-6	2000
13B	Stornoway ...	15	97·1	-18	SSW	8	c-bc/r	49	92	47	6	8	-	-	7-8	7-8	2300
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	02·6	-16	S'W	4	b-bc	47	92	44	8	8	3	-	2-3	2-3	2500
	Wick ...	114	00·7	-14	S	2	bc	46	92	44	8	5	3	-	2-3	4-6	3000
16	Sumburgh ..	19	99·1	-26	SW	4	ir.	46	97	46	7	5	7	-	7-8	9+	1500
17	Blacksod Point	18	02·9	-14	S'W	8	bc/pr	51	85	47	8	9	-	-	4-6	4-6	1500
18	Malin Head ...	84	02·3	-10	SW	4	bc/r	48	85	44	8	5	-	-	4-6	4-6	1500
	Aldergrove ...	268	06·5	-6	S'W	4	bc	50	85	44	7	5	-	-	4-6	4-6	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	08·0	-22	SSW	5	c	51	85	47	8	5	2	-	9	10	1500
	Roches Point	22	10·3	-18	SSW	4	ir.	51	97	51	8	6	2	-	4-6	9+	1500

OBSERVATIONS at 7 hr. G.M.T. 28th January

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	16·5	-16	SSW	3	ir.	49	97	47	6	5	-	-	10	10	1500	1	*
Croydon ...	18·3	-10	SW'S	3	d.d.	49	97	49	5	5	-	-	9+	10	600	1	*
S. Farnborough	17·0	-14	SSW	3	c/d	50	97	49	6	5	-	-	10	10	800	1	*
Boscombe Down	16·9	-16	SSW	4	z.	50	97	49	6	5	-	-	9	10	1200	1	*
Thorney Island	18·0	-10	S'W	4	c/d	49	92	48	7	5	-	-	10	10	1500	1	*
Lympne ..	19·5	-12	SSW	3	df	47	97	47	3	-	-	-	10	10	2150	1	§5
Manston ...	18·9	-10	SW	4	c/d	47	97	47	5	5	-	-	10	10	300	1	*
Shoeburyness ...	18·8	-16	SW	4	z.	48	97	46	6	5	-	-	10	10	1500	1	*
Felixstowe ...	17·2	-14	SSW	4	z.	46	97	45	5	5	-	-	10	10	500	1	4
Gorleston ...	15·5	-18	SSW	5	c	49	85	45	7	5	-	-	9	9	1500	0	4
Mildenhall ...	15·0	-14	SSW	4	c	51	85	47	7	5	-	-	9+	9+	1200	1	*
Cranwell ...	11·9	-16	SW'S	6	z.	51	92	48	6	5	7	-	Tr	9+	1500	1	*
Birmingham ...	11·5	-16	SSW	4	c	50	85	46	8	6	-	-	9+	9+	1500	1	*
Upper Heyford	15·7	-8	SSW	5	z.	50	92	48	6	5	-	-	10	10	1300	1	*
Ross-on-Wye	13·1	-16	SW'S	4	id.	51	85	48	7	5	1	-	9+	10	1500	1	*
Hartland Point	11·2	-18	WSW	5	c	53	85	49	8	5	7	-	7-8	10	2500	1	5
Bristol ...	15·3	-14	S	4	c	52	92	49	7	5	-	-	10	10	2500	1	*
Portland Bill ...	16·8	-20	S	4	o	48	92	47	7	5	-	-	10	10	2500	1	5
Plymouth ...	15·6	-16	SSW	5	d.d.	52	97	51	6	5	2	-	7-8	10	1000	1	4
The Lizard ...	14·3	-20	WSW	6	c	52	97	52	7	5	-	-	9	9	1500	1	5
Scilly (St. Mary's)	12·0	-22	S'W	5	c	53	85	50	7	6	7	-	7-8	10	1000	1	5
Guernsey ...																	
Pembroke ...	10·0	-18	SSW	6	cq	51	97	50	6	5	1	-	7-8	10	1500	1	4
Holyhead (Valley)	07·5	-22	SSW	6	r.r.	50	97	50	6	-	2	-	10	10	500	1	5
Chester (Sealand)	09·1	-20	S	2	ir.	52	92	50	6	5	2	-	7-8	10	2000	1	*
Manchester ...	09·6	-24	S	4	c/r	51	92	49	6	5	2	-	7-8	10	1700	1	*
Spurn Head ...	11·8	-14	S'W	4	c	47	92	45	7	7	-	-	9+	9+	2500	1	3
Catterick ..	07·7	-16	SSE	2	r.r.	50	97	49	6	5	7	-	9	10	1300	1	*
Tynemouth ...	07·5	-6	WSW	3	bc	51	85	45	6	2	6	-	4-6	4-6	2500	1	3
St. Abbs Head	03·6	-4	SSW	3	bc	47	92	46	7	5	4	-	4-6	4-6	2500	0	3
Leuchars ...	01·4	-14	WSW	5	bc	48	85	43	7	5	7	-	1	4-6	2000	1	*
Renfrew (Abbots L.)	03·4	-14	SSW	4	z.	49	85	44	6	8	1	-	4-6	7-8	2000	2	*
Eskdalemuir ...	04·9	-12	SSW	4	z.	45	97	44	5	5	-	-	10	10	100	1	*
Point of Ayre...	05·5	-20	SSW	3	c	50	92	47	8	5	2	-	7-8	10	2000	1	3
Tiree	99·2	-8	SSW	5	c	48	85	45	7	8	7	-	4-6	9	2500	1	5
Stornoway ...	96·1	-6	SW	5	bc	47	92	44	7	8	6	-	2-3	4-6	2200	1	4
Dalwhinnie ...	00·5	-10	SW	3	c	44	85	40	8	5	-	7	2-3	9	1500	1	*
Aberdeen † ...	01·2	-8	S'E	3	z.	47	85	44	6	5	7	8	2-3	7-8	3000	1	3
Wick ...	99·1	-4	S	3	c-bc	46	85	43	8	5	7	-	4-6	7-8	3500	1	*
Sumburgh ..	96·9	-6	SW	5	c-bc	47	92	45	8	4	6	2	Tr	7-8	2500	1	3
Blacksod Point	99·3	-18	SW'S	9	c	49	85	45	7	9	-	-	9+	9+	1500	2	6
Malin Head ...	99·9	-14	S	4	c	48	92	46	8	5	2	-	7-8	10	1500	2	3
Aldergrove ...	03·0	-22	S'E	2	c	48	85	42	7	5	1	-	9+	10	2000	1	*
Birr Castle ...	03·2	-30	SSW	2	c	50	85	46	8	5	1	-	7-8	10	2500	1	*
Valentia Obsy.	02·7	-36	S'W	4	c/pr	51	92	49	7	5	-	-	10	10	800	1	4
Roches Point	04·8	-26	SSW	5	ir	50	97	49	7	6	2	-	4-6	9+	800	1	5

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 27th Hrs. (38)
London (Kew)	48	45	44	Tr	Tr	0·2
Croydon ...	49	46	44	Tr	Tr	0·4
S. Farnborough	48	45	43	Tr	Tr	0·2
Boscombe Down	49	45	44	Tr	0·6	0·1
Thorney Island	50	46	44	0·4	0·1	*
Lympne ..	47	45	42	Tr	0·1	0·5
Manston ...	48	47	42	Tr	0·3	2·2
Shoeburyness ...	49	44	40	-	0·3	2·2
Felixstowe ...	50	43	42	-	0·1	3[illegible]
Gorleston ...	51	45	40	-	2	3·6
Mildenhall ...	51	46	43	-	Tr	2·7
Cranwell ...	50	45	43	-	5	3·9
Birmingham ...	47	45	43	1	0·2	0·0
Upper Heyford	47	45	43	-	0·2	*
Ross-on-Wye	49	48	46	Tr	1	0·3
Hartland Point	52	50	48	0·5	0·5	0·2
Bristol ...	49	48	47	Tr	0·2	0·1
Portland Bill ...	49	46	*	-	*	*
Plymouth ...	51	50	49	Tr	1	0·0
The Lizard ...	52	51	*	0·5	0·5	0·0
Scilly (St. Mary's)	52	51	*	0·2	-	0·0
Guernsey ...						
Pembroke ...	51	48	*	0·6	2	0·0
Holyhead (Valley)	49	48	48	2	6	*
Chester (Sealand)	51	43	32	5	0·5	0·0
Manchester ...	49	45	44	3	0·4	*
Spurn Head ...	49	43	*	-	1	4·0
Catterick ..	49	46	45	Tr	1	0·0
Tynemouth ...	49	46	44	0·6	-	*
St. Abbs Head	47	45	*	1	0·2	*
Leuchars ...	47	45	43	0·5	1	0·0
Renfrew (Abbots L.)	49	49	45	4	3	0·0
Eskdalemuir ...	45	43	43	3	11	0·0
Point of Ayre...	51	49	*	0·3	0·2	0·0
Tiree	48	47	42	7	1	0·0
Stornoway ...	48	46	43	3	1	0·0
Dalwhinnie ...	43	42	39	0·4	3	0·0
Aberdeen † ...	46	44	37	1	Tr	0·0
Wick ...	46	44	36	4	-	*
Sumburgh ..	44	44	44	0·1	3	0·0
Blacksod Point	54	47	*	11	4	*
Malin Head ...	32	47		2	0·5	0·0
Aldergrove ...	51	47	44	3	0·1	0·0
Birr Castle ...	53	47	45	3	2	0·0
Valentia Obsy.	54	51	47	7	0·5	0·0
Roches Point	52	50	*	6	5	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 27th January ... 18h. G.M.T.						01h. G.M.T. 28th January ... 07h. G.M.T.					
IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
109 57	02754	15457	5-	61655	14468	5-	62655	19365	57	01754	17316
115 54	02844	16325	52	62732	16468	54	14854	83685	57	81844	87787
203			6-	62738	16628						
206 57	02865	16228	57	02854	16168	50	01863	32313	50	02863	20417
210 57	02874	14328	54	02865	10267	53	01862	18214	50	01883	20115
220 62	64636	16568							80	01754	17514
230 62	52744	16268	62	63846	18268	51	61855	53365	52	25754	18388
245 57	05653	18328	57	62646	16268	53	22643	18365	57	05653	20426
260 52	02855	18328	57	22754	51568	57	02764	53468	57	01851	53413
278 52	51745	15368	62	22637	18568	57	02745	20367	52	02746	18328
279 57	02753	18657	52	62635	17768	62	62625	17768	52	05645	20528
285 27	81635	22587	27	81625	24488				23	25634	26684
288 57	02757	17427	52	05545	49568	52	21645	16568	5-	21646	17358
575 32	61847	51868	5-	22848	18268	5-	02845	18415	5-	03748	18228
301 57	05656	16327	52	22546	16468	5-	52748	18458	02	64628	18468
321											
2.) 54	05553	22214	5-	05656	20316	5-	05658	20428	5-	05655	20325
292 53	05545	18227	62	05545	16358	5-	08647	18367	5-	05645	18325
310 --	02628	24428	--	22629	24468				--	57209	25549
614 57	08464	18228	5-	22568	18368	52	08557	20428	57	05546	53328

13h. G.M.T. 27th January ... 18h. G.M.T.						01h. G.M.T. 28th January ... 07h. G.M.T.					
IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
333 62	58634	16628	52	52517	17558	02	52538	51658	02	54638	50558
334 --	51647	26228	--	53537	26488				--	65537	24588
340 5-	02848	20446	52	22765	16468	5-	02748	17358	5-	02857	18327
136 03	05680	20316	53	05664	18327	57	06645	53468	5-	05637	20928
336 57	02755	20428	52	22756	20568				57	02656	20528
350			57	05645	18427	5-	05638	18428	57	05646	18458
368 53	02855	20327	52	61645	20468	52	21674	20458	5-	02777	20427
379 5-	02847	20328	57	02843	20427	5-	51518	53458	5-	05648	53458
390 50	08444	29328	5-	08448	20328	5-	08448	18448	5-	51328	18458
382 5-	02857	20427	57	02864	18427	52	61737	52528	57	02745	53527
438 5-	95538	24318	53	02754	24415	52	05665	22628	--	57109	22549
430 5-	51425	29328	5-	02745	55428	5-	51638	55458	57	51627	53558
409 57	22856	16567	57	02824	18527	5-	05668	17558	5-	05658	17528

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N$_h$ = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
C$_L$C$_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 28th January

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

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution, Milligrams of solid impurity per cubic metre
Kew	mwcd.m.	cd.cpr.c	cm.cir.	
Croydon ...	bcm.cm.	cm.id.cm.	cm.id.cm.	
Greenwich ...	cm.	c	c	
Camden Square	c	c	*	Kew 24 hours ended 7h Max. Time
Kensington ...	czbc	bco	*	0·4 7-8h 27th
Hampstead ...	om	bc	om	Min. Time Lo·1 0-7h 28th

Stations.	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 % Yesterday	Humidity 9h % To-day
Kew	48	45	44	Tr	Tr	0·2	*	*
Croydon ...	49	46	44	Tr	Tr	0·4	*	*
Greenwich ..	49	46	42	-	*	0·2	80	91
Westminster ..	52	50	43	-	-		80	93
Regents Park ...	51	44	43	-	Tr		78	89
Camden Square	48	48	42	-	*	*	*	90
Kensington ...	50	46	44	-	Tr		78	93
Hampstead ...	47	44	41	-	*		*	95

SECRET

Friday 29th January 1943.

BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

No. 29653

OBSERVATIONS at 13h. G.M.T. 28th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	13·8	-20	SSW	4	id₀	50	92	48	7	5	-	-	10	10	2500
	Croydon ...	15·2	-22	SSW	4	d₀d₀	51	97	50	6	5	-	-	10	10	700
	S. Farnborough	13·7	-24	S'W	5	d+	50	97	50	5	5	-	-	10	10	400
	Boscombe Down	13·6	-24	S'W	6	d₀d₀	51	92	50	6	5	2	-	9+	10	400
	Thorney Island	15·4	-28	SSW	5	id₀	50	92	48	7	5	-	-	10	10	1500
	Lympne ...	17·1	-18	SW	4	z₀	48	97	47	6	5	-	-	9	10	400
	Manston ...	16·1	-18	SW	5	c	49	92	47	7	5	-	-	9	10	600
2	Shoeburyness ...	15·7	-12	SSW	4	z₀	47	83	43	6	5	-	-	10	10	1500
	Felixstowe ...	15·0	-10	SSW	5	z₀	48	92	46	5	5	-	-	10	10	1400
	Gorleston ...	13·8	-12	SSW	5	c	52	86	48	7	5	7	-	7-8	9+	1500
	Mildenhall ...	12·2	-18	SSW	5	c	54	85	48	7	5	7	-	10	10	1500
	Cranwell ...	09·4	-14	SSW	6	c	55	75	48	8	5	7	5	2-3	9+	1500
3	Birmingham ...	09·1	-20	SSW	4	c/+	51	86	46	8	6	-	-	10	10	800
	Upper Heyford	11·4	-26	SSW	4	dd	51	97	50	5	8	-	-	10	10	200
4	Ross-on-Wye	09·2	-26	SSW	5	id₀	52	92	49	6	6	2	-	9	10	1000
5	Hartland Point	07·0	-26	SW	6	i+	54	85	49	8	8	6	-	7-8	9+	1500
	Bristol ...	11·3	-26	SW	4	d₀d₀	53	97	52	7	5	-	-	10	10	800
	Portland Bill ...	14·1	-22	S	5	++	50	92	48	7	5	-	-	10	10	2500
	Plymouth ...	11·9	-28	S'W	6	id₀	52	97	52	6	5	-	-	10	10	400
	The Lizard ...	10·4	-30	SW	7	+₀+₀	52	97	52	7	5	-	-	10	10	1000
	Scilly (St. Mary's)	07·1	-34	S'W	6	c/p	53	92	50	7	5	7	-	7-8	9+	1000
	Guernsey ...															
6	Pembroke ...	05·9	-20	S'W	7	cq	51	92	49	7	5	2	-	7-8	10	2000
7	Holyhead (Valley)	04·0	-26	S	6	d+	50	97	49	5	-	2	-	10	10	800
	Chester (Sealand)	06·2	-18	S	3	c/d	55	75	47	8	5	7	-	4-6	9+	1600
8	Manchester ...	06·7	-18	S	5	id₀	52	92	49	6	5	7	-	4-6	9+	1500
10	Spurn Head ...	07·8	-30	SW'S	5	c	50	85	47	7	7	7	-	7-8	10	2500
	Catterick ...	05·1	-14	SSW	2	+₀+₀	50	92	48	7	5	7	-	7-8	9+	900
	Tynemouth ...	04·1	-20	SSW	2	m	52	85	48	4	8	-	-	9+	9+	1500
11	St. Abbs Head	01·6	-16	SSW	2	c-bc	50	92	48	7	5	7	-	4-6	7-8	3500
	Leuchars ...	99·9	-18	SW	3	c	51	75	44	7	5	7	6	Tr	9+	2500
12	Renfrew (Abbots I.)	00·6	-18	S'W	2	z₀	51	85	46	6	5	2	-	9+	10	2000
	Eskdalemuir ...	01·7	-14	SSW	3	d/f	46	97	46	1	5	-	-	10	10	-
	Point of Ayre...	02·0	-14	SW	4	c/p	52	85	48	7	6	7	-	4-6	10	3000
13A	Tiree	96·2	-22	S'E	4	bc	49	85	46	7	2	3	1	2-3	4-6	2500
13B	Stornoway ...	94·1	-14	SSW	7	c-bc	49	85	45	8	3	9	-	4-6	7-8	1800
15	Dalwhinnie ...	99·4	-6	SSW	4	c	45	85	40	8	5	-	-	4-6	9	1500
	Aberdeen ...	99·5	-18	S	1	m	49	85	44	4	1	7	9	4-6	9+	2800
	Wick ...	97·1	-12	S'W	3	c	48	85	44	8	5	-	3	4-6	9	3500
16	Sumburgh ...	96·4	-6	WSW	5	ir₀	47	92	48	8	5	7	8	4-6	9+	2500
17	Blacksod Point	93·9	-42	S	5	c-bc/pr	51	85	46	8	9	-	6	7-8	7-8	1500
18	Malin Head ...	95·8	-26	SSE	4	c	49	85	44	8	8	2	2	4-6	9	1500
	Aldergrove ...	99·4	-26	S	3	c	50	85	45	8	8	7	-	4-6	9+	2000
19	Birr Castle ...	88·7	-46	SSW	2	c	50	92	48	8	5	1	-	7-8	10	2500
20	Valentia Obsy.	95·0	-46	S	5	bc/pr	52	85	47	8	8	-	1	4-6	4-6	1500
	Roches Point	98·8	-36	SW	3	RR	50	97	49	5	6	2	-	4-6	10	800

OBSERVATIONS at 18h. G.M.T. 28th January

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	10·1	-22	SW'S	4	id₀	50	92	48	6	5	-	-	10	10	1500	1	*
	Croydon ...	12·1	-10	S	5	dd	50	97	49	5	5	2	-	7-8	10	700	1	*
	S. Farnborough	10·2	-14	S'W	5	dd	50	97	49	5	5	-	-	10	10	800	1	*
	Boscombe Down	09·1	-26	S	5	id₀	50	97	49	6	6	2	-	9	10	700	1	*
	Thorney Island	12·1	-20	SE	4	id₀	49	92	48	5	5	2	-	4-6	10	1500	1	*
	Lympne ...	13·5	-26	SSW	4	z₀	48	92	46	6	5	-	-	10	10	1500	1	5
	Manston ...	12·1	-28	SSW	4	c-bc	49	92	46	7	5	7	-	4-6	7-8	800	1	*
2	Shoeburyness ...	13·0	-18	SSW	5	z₀	48	92	46	6	5	-	-	10	10	1500	1	*
	Felixstowe ...	11·7	-22	S'E	5	c/d	46	97	44	5	5	-	-	7-8	10	900	1	5
	Gorleston ...	10·8	-22	S	5	z₀	50	92	48	5	5	-	-	10	10	1500	0	4
	Mildenhall ...	09·1	-18	S'W	5	cq	52	86	48	6	5	-	-	9+	10	1200	1	*
	Cranwell ...	05·4	-26	SSW	6	+₀+₀	52	85	48	6	5	-	-	4-6	10	900	1	*
3	Birmingham ...	04·3	-28	S	5	0	51	85	46	8	6	-	-	10	10	800	1	*
	Upper Heyford	07·1	-24	SSW	5	c/d	51	92	48	8	6	2	-	9+	10	1000	1	*
4	Ross-on-Wye	04·4	-26	SSW	6	cq	53	75	46	8	5	2	-	9	10	1500	1	*
5	Hartland Point	02·3	-28	SW	6	++	52	85	50	7	6	2	-	7-8	10	1000	1	5
	Bristol ...	06·8	-28	SW	6	c	52	85	47	7	6	2	-	9	10	700	1	*
	Portland Bill ...	10·2	-16	S	5	c	51	92	49	7	5	-	-	10	10	2500	1	5
	Plymouth ...	06·9	-30	SSW	6	id₀	52	97	51	7	5	-	-	7-8	10	1000	1	3
	The Lizard ...	04·6	-26	SW	7	i+	52	97	52	7	5	-	-	10	10	1000	1	4
	Scilly (St. Mary's)	02·0	-28	S'W	6	c/+	52	92	50	6	6	2	-	9	10	800	1	5
	Guernsey ...																	
6	Pembroke ...	00·1	-20	S'W	8	++	50	97	50	5	5	-	-	10	10	1400	1	5
7	Holyhead (Valley)	97·8	-42	S'E	7	c/+	51	92	50	4	6	2	-	9	10	800	2	5
	Chester (Sealand)	00·2	-40	S'W	4	+₀+₀	53	85	48	7	6	2	-	7-8	10	1000	1	*
8	Manchester ...	02·2	-30	SSE	5	+₀+₀	51	97	50	6	5	2	-	4-6	10	1500	1	*
10	Spurn Head ...	05·2	-24	S'W	6	c	50	85	47	7	7	2	-	7-8	10	1500	1	5
	Catterick ...	00·6	-26	S	3	i+₀	52	85	48	6	5	2	-	4-6	10	1800	1	*
	Tynemouth ...	99·6	-30	S	5	c/p+	52	85	47	6	8	-	-	9+	9+	1500	1	3
11	St. Abbs Head	96·9	-28	SE	3	++	48	97	47	7	5	-	-	10	10	1500	1	3
	Leuchars ...	95·5	-26	SSE	2	c/+	48	85	45	6	5	-	-	10	10	1200	1	*
12	Renfrew (Abbots I.)	95·9	-30	ESE	3	+₀+₀	48	92	46	6	5	2	-	7-8	10	1000	2	*
	Eskdalemuir ...	95·9	-36	SSW	5	RR	47	97	47	6	-	2	-	10	10	200	1	*
	Point of Ayre...	95·0	-36	SW'S	5	c-bc/+	51	92	49	7	6	7	-	4-6	7-8	600	1	4
13A	Tiree	89·0	-32	SSE	4	c	47	97	46	7	5	7	-	9	9+	3000	1	4
13B	Stornoway ...	90·4	-26	SSW	5	c-bc	47	92	44	7	8	7	-	4-6	7-8	1600	1	3
15	Dalwhinnie ...	93·4	-30	SW	3	c	44	85	40	7	5	-	-	10	10	1500	1	*
	Aberdeen ...	95·5	-20	S	2	z₀	46	85	43	5	5	7	-	9	10	2500	1	2
	Wick ...	94·4	-14	S'E	3	c-bc	46	85	42	9	5	7	2	2-3	7-8	3500	1	*
16	Sumburgh ...	94·4	-14	SW	4	b-bc	46	92	44	8	5	7	-	2-3	2-3	3000	1	3
17	Blacksod Point	84·3	-54	S	7	c/pr	49	92	44	8	9	-	-	9	10	1500	2	6
18	Malin Head ...	88·0	-46	SSE	4	c-bc	48	92	46	8	8	-	-	7-8	7-8	1500	2	3
	Aldergrove ...	90·9	-50	SSW	4	c	51	85	46	8	8	7	-	9	9+	1000	1	*
19	Birr Castle ...	91·3	-30	SSW	2	c	50	85	46	8	9	2	-	7-8	10	1500	1	*
20	Valentia Obsy.	90·7	-10	SSW	5	c	50	85	45	8	2	-	1	9	9	1500	1	5
	Roches Point	93·6	-30	SSW	6	c/+	51	92	49	7	6	2	-	4-6	9+	800	1	5

PAST 24 HOURS.

Stations	Weather. 7h.—13h. 28th (39)	13h.—18h. 28th (40)	18h.—24h. 28th / 1h. 29th (41)	1h.—7h. 29th (42)
London (Kew)	i₀cd₀id₀	cid₀m₀	cd₀d₀cm₀	cr₀rir₀b
Croydon ...	d₀d₀id	cm₀d₀d₀	cm₀ir₀	cm₀rid₀
S. Farnborough	cm₀id₀+d₀m₀	crid₀dm₀	cdr₀rm₀	cm₀rir₀id₀bc
Boscombe Down	ccd₀d₀m₀	dd₀ddid₀m₀	crrm₀	crm₀cprb
Thorney Island	id₀ccid₀	cid₀cm₀id₀	cm₀ir₀	r₀rrbm₀
Lympne ...	ofm₀id₀	om₀d₀d₀cm₀	cm₀c	ccd₀m₀ir₀
Manston ...	cm₀ir₀	clr₀id₀	ir₀cm₀	ror₀m₀
Shoeburyness ...	cm₀it₀c	cm₀	cm₀	bccir₀m₀
Felixstowe ...	cm₀	cm₀cid₀cm₀	cm₀	cir₀cr₀r₀cm₀
Gorleston ...	c	cqz₀	cz₀	cq
Mildenhall ...	c	ccm₀q	cid₀m₀c	ccr₀r₀m₀bc
Cranwell ...	cm₀bcc	cid₀c+₀r₀	cr₀r₀bccid₀m₀	cid₀rrm₀b
Birmingham ...	cir₀0	oit₀	orr	or₀bc
Upper Heyford	cm₀cid₀m₀	cit₀cid₀	ccr₀r₀m₀	r₀r₀m₀rr
Ross-on-Wye	ccqid	cqid₀	cqirR	rqcbq
Hartland Point	cir	cit++	iRR+irc	cirbc
Bristol ...	ccid₀m₀	cid₀cq	cd₀d₀,rrm₀	cRm₀,rr,c
Portland Bill ...	ott	ott+c	orr	c
Plymouth ...	cdd id₀m₀	cid₀m₀	cr₀r₀rrm₀	cr₀r₀m₀bcb
The Lizard ...	ctt	cpfit	prrqc	cpre
Scilly (St. Mary's)	c	cd₀+	cir₀	cbc
Pembroke ...	cpr₀q	c+₀+₀c++qm	cprbcq	bcpr₀
Holyhead (Valley)	o+tcdd	od+RRm	cir₀m₀	bcb
Chester (Sealand)	cir₀dd	c+₀+₀	ror₀pr₀c	bcprm₀c
Manchester ...	ir₀id₀	id++₀+₀	r₀r₀bcm₀	ir₀m₀bw
Spurn Head ...	c	c	c	cr₀vc
Catterick ...	c+₀+₀m₀	c+₀+₀m₀	cz₀r₀m₀	cr₀m₀z₀b
Tynemouth ...	bccomqpm	cm₀p₀	cp₀bcq	bcqcbc
St. Abbs Head	bcc	cott	orr cr₀bccm	cirbcb
Leuchars ...	bcqc	cit+₀m₀cm₀	ccm₀crr	crrbcm₀b
Renfrew (Abbots I.)	cm₀+₀+₀cm₀ of Fd	cm₀+₀+₀ o+₀++RR	cm₀rrcm oRir	cmcm₀rrpbc orrcpr
Eskdalemuir ...	c	c++	cprbcb	bcprb
Point of Ayre...	cbc	bcc	corrm₀c	cbc prbcpr
Tiree	cbc	cbcc	ccir₀r₀r₀	cbccpr₀
Stornoway ...	cop+c	cp+₀0		oprbc
Dalwhinnie ...	cz₀z	cz2₀	cz₀rrr₀	cr₀r₀zb
Aberdeen ...	bccbc	c	crrc	cbc
Wick ...	cbc	cbc	bcb,c	cr₀r₀m₀c
Sumburgh ...	bccir₀			
Blacksod Point	pr	pr	pr	pr
Malin Head ...	d	c	c	pr
Aldergrove ...	c	ccir₀c	cbcb	bbcbbc
Birr Castle ...	c	c		pr
Valentia Obsy.	pr	pr	pr	pr
Roches Point	+	+	r	pr

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 29th January, 1943.

Districts	Forecast
1 S.E. England, 2 E. England ..., 3 E. Midlands ...	Moderate southwesterly winds, backing; half cloudy, with a few showers; general rain later; rather cold or cold.
4 W. Midlands	Moderate southwesterly winds, falling light; bright or half cloudy, becoming cloudy tomorrow; cold, with local ground frost tonight.
5 S.W. England	As 1-3.
6 South Wales, 7 North Wales, 8 N.W. England, 9 N. Midlands ...	Moderate or fresh southwest to west winds; half cloudy, with thundery showers of rain and hail in western and northern districts, and local thunderstorms; rather cold or cold.
10 N.E. England, 11 S.E. Scotland, 12 S.W. Scotland & Isle of Man, 13A W. Scotland ..., 13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland	As 6-15.
16 Orkneys and Shetlands, 17 N.W. Ireland, 18 N.E. Ireland, 19 S.E. Ireland, 20 S.W. Ireland	As 6-15.

GENERAL INFERENCE

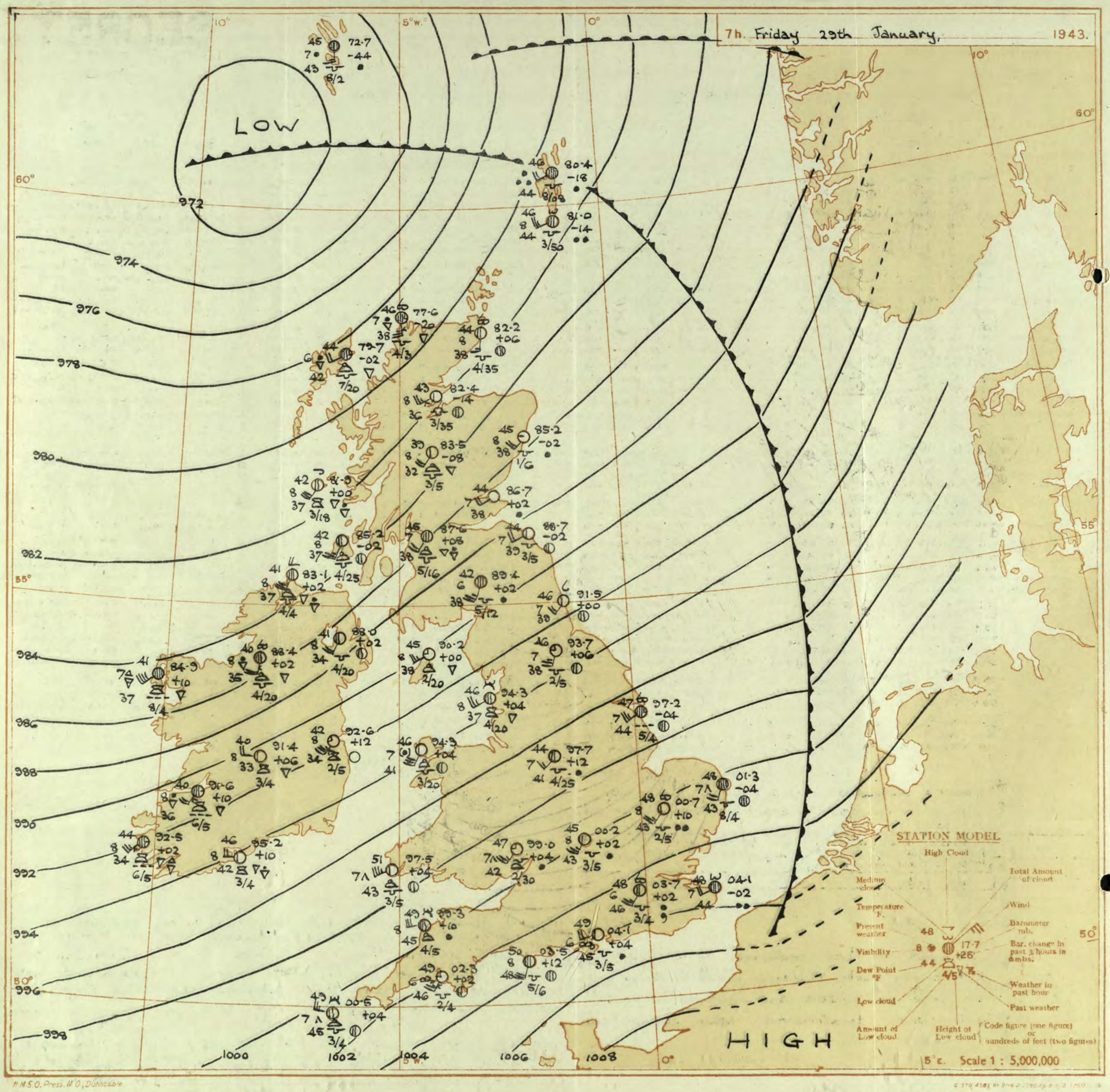
Pressure is low to the northwest and high to the southeast of the British Isles; a deepening depression West of Portugal will move northeast towards Southeast England. There will be variable cloud in all regions, with showers in north and west; more general rain will affect southern districts of England tonight and tomorrow. Cold or rather cold.

FURTHER OUTLOOK

Westerly winds; showers in west and north; fair in southeast; rather cold or cold. ✝ Gale warning operation in districts 1 (part of) 5, 6, 7, 8, 12, 13A and B 17, 18, 19, 20. issued at 1400 G.M.T on 28th Jan: 1943. In districts 2 (part of) 10, 11, 15, 16. issued at 1745 G.M.T on 28th Jan: 1943.

Forecasts issued at 10.30

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O., Dunscable

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

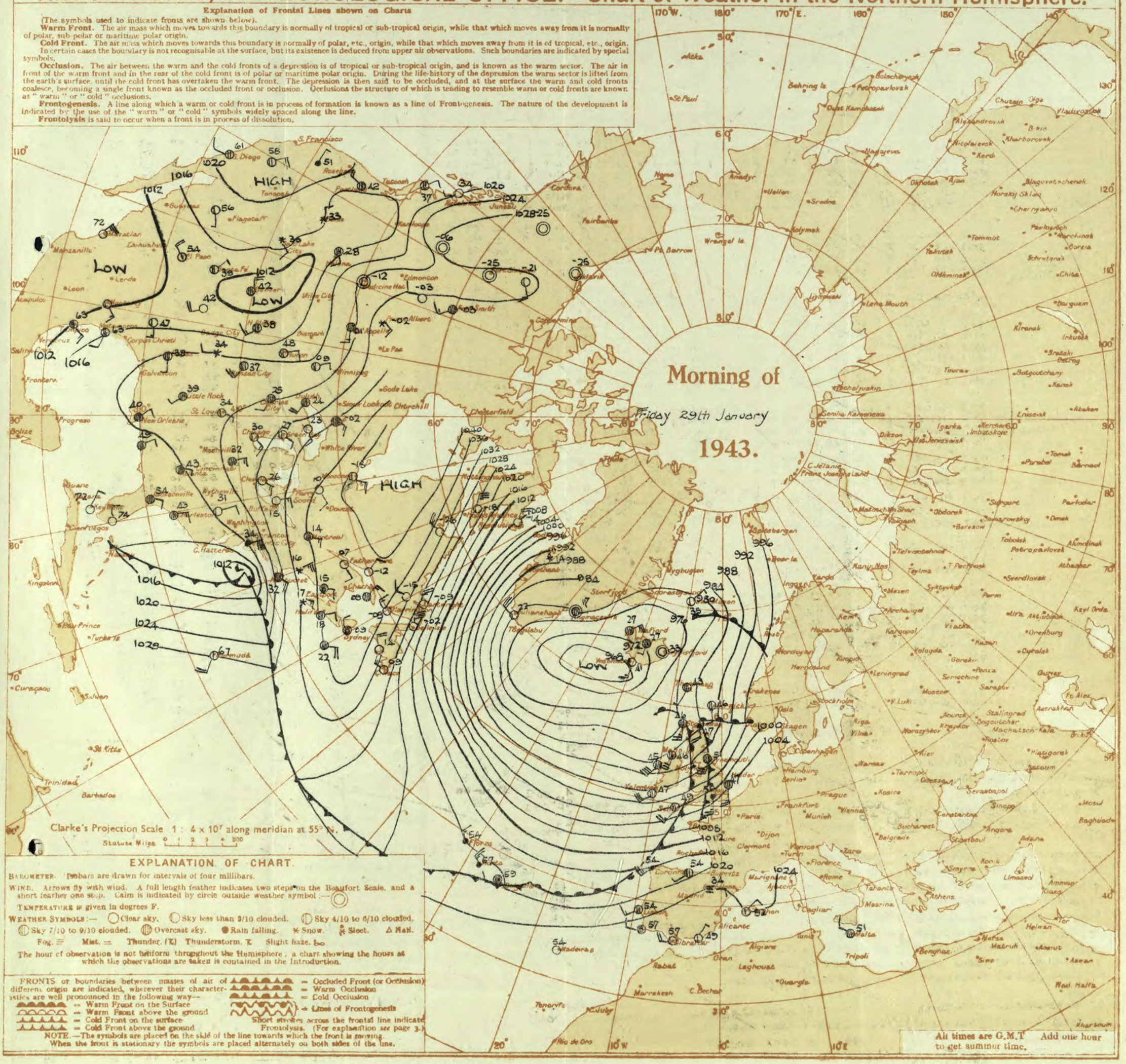
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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. (T) 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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- = Warm Front on the Surface
- = Warm Front above the ground
- = Cold Front on the surface
- = Cold Front above the ground
- = Occluded Front (or Occlusion)
- = Warm Occlusion
- = Cold Occlusion
- = Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation *see* page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

All times are G.M.T. Add one hour to get summer time.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Friday 29th January 1943

No. 29653

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	50	*	*	*	*	*	*	*	*	*
	Croydon ...	290	05·6	-34	S	5	ir.	50	92	47	5	5	-	-	10	10	1400
	S. Farnborough	226	03·9	-32	SSW	5	rr	49	97	49	5	5	-	-	10	10	200
	Boscombe Down	417	02·4	-34	S	6	rr	49	97	48	6	5	-	-	10	10	800
	Thorney Island	10	05·2	-40	SSW	6	ir.	50	92	47	6	5	-	-	10	10	900
	Lympne ..	283	07·7	-28	SSW	5	c	47	85	42	7	5	7	8	2-3	9	2500
	Manston ...	154	07·2	-26	SSW	6	z.	49	85	43	6	5	-	-	9+	9+	2300
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	06·1	-26	S'E	5	z.	47	85	43	5	5	-	-	9	9	7000
	Gorleston ...	5	05·3	-24	S	5	c	47	85	43	7	5	-	-	10	10	1500
	Mildenhall ...	15	02·6	-30	S	5	c	51	85	46	7	5	-	-	10	10	1700
	Cranwell ...	203	99·1	-28	SSW	7	id.	51	85	48	6	5	-	-	10	10	1500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	00·4	-40	S'W	6	r.r.	50	92	48	6	6	2	-	2-3	10	900
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	97·9	-8	WSW	6	c/r	50	92	48	7	6	2	-	7-8	10	1500
	Bristol ...	209	01·0	-22	SW	6	iR	50	92	48	6	6	2	-	9+	10	1100
	Portland Bill ...	32	03·3	-30	SSW	7	rr	50	92	48	7	5	-	-	10	10	2500
	Plymouth ...	82	01·7	-18	S'W	8	r.r.	50	97	49	6	5	-	-	10	10	600
	The Lizard ...	240	01·4	+2	W'S	6	c-bc/r	51	92	49	7	5	-	-	7-8	7-8	1000
	Scilly (St. Mary's)	163	99·6	0	SW	5	c/r	49	85	45	7	5	7	-	7-8	9+	1000
	Guernsey ...	175															
6	Pembroke ...	142	95·8	-10	SW'S	6	bcq	44	85	40	7	8	-	-	4-6	4-6	2500
7	Holyhead (Valley)	32	93·5	-10	S'E	6	z.	49	92	47	6	5	-	-	4-6	4-6	1400
	Chester (Sealand)	16	95·7	-22	S	3	z.	51	75	44	6	5	-	-	10	10	3500
8	Manchester ...	235	96·4	-26	S	5	z.	50	92	47	6	5	-	-	10	10	3000
10	Spurn Head ...	29	99·7	-32	S	6	c	49	92	48	7	7	2	-	7-8	10	1500
	Catterick ...	175	94·1	-36	S	3	ir.	51	85	47	6	5	2	-	7-8	10	2100
	Tynemouth ...	108	93·4	-24	SSW	6	bcq	51	75	44	7	2	-	-	4-6	4-6	2500
11	St. Abbs Head	280	90·5	-10	SSW	4	ir.	50	85	46	7	5	-	-	9+	9+	2500
	Leuchars ...	36	88·5	-20	SSW	4	rr	50	75	44	6	5	2	-	9	10	2000
12	Renfrew (Abbots I.)	19	87·9	-14	SSW	4	r.	49	85	44	4	5	2	-	7-8	10	1200
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	90·0	-14	SW'W	5	b	49	85	45	8	5	-	-	1	1	1800
13A	Tiree	44	82·7	-10	S'W	6	c	47	75	40	7	8	2	8	2-3	9	1500
13B	Stornoway ...	15	81·3	-34	S	5	c/r	46	92	44	7	5	7	-	7-8	10	1600
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	87·6	-30	S'E	4	z.	47	85	43	6	5	1	-	4-6	9	1000
	Wick ...	114	84·7	-42	SSE	4	c	47	97	47	7	5	7	-	4-6	10	3900
16	Sumburgh ..	19	86·8	-42	SSE	5	c	46	97	46	7	5	2	-	1	10	4000
17	Blacksod Point	18	83·9	+4	SW'S	8	c-bc/pr	45	75	38	8	9	-	-	7-8	7-8	1500
18	Malin Head ...	84	83·3	-14	S'W	6	bc	46	85	42	8	8	-	-	4-6	4-6	1500
	Aldergrove ...	268	88·3	-4	S'W	3	b	47	85	42	7	-	-	-	0	0	-
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	91·0	+4	SW	6	bc	47	65	36	8	2	-	-	4-6	4-6	2500
	Rcches Point	22	92·9	0	W'S	5	iR	50	97	50	6	6	2	-	4-6	10	800

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	02·8	+10	SW'S	3	b/r	48	92	45	7	5	-	-	1	1	1500	1	*
Croydon ...	03·7	+2	SSW	5	bc/d	48	92	46	6	5	7	-	2-3	4-6	1200	1	*
S. Farnborough	03·2	+8	SW'S	5	b-bc/d	47	92	45	7	5	7	-	2-3	2-3	1400	1	*
Boscombe Down	03·1	+8	S'W	4	b-bc	44	92	42	7	8	-	-	2-3	2-3	2500	1	*
Thorney Island	04·1	+4	WSW	4	z.	49	85	45	6	5	-	-	2-3	2-3	4000	1	*
Lympne ..	05·3	+2	SW'S	2	c/d	47	97	46	6	5	-	-	9+	10	2000	1	4
Manston ...	04·1	-2	SW'W	4	c/r	48	85	44	7	-	3	-	0	10	-	1	*
Shoeburyness ...	04·4	-8	SW	4	z.	48	85	45	6	5	7	-	7-8	10	2500	1	*
Felixstowe ...	02·6	-8	SSW	4	z.	47	92	45	5	5	3	-	7-8	10	2000	1	4
Gorleston ...	01·3	-4	SSW	4	eq/	48	85	43	7	5	-	-	10	10	1500	0	5
Mildenhall ...	00·7	+10	SW'S	5	b-bc/r	48	85	43	8	5	7	-	1	2-3	2500	1	*
Cranwell ...	98·7	+8	S'W	6	b	46	92	43	7	5	-	-	1	1	2500	1	*
Birmingham ...	98·7	+6	SSW	3	bc	44	85	40	7	5	-	-	4-6	4-6	1500	1	*
Upper Heyford	00·2	+2	SSW	5	b-bc	45	92	43	8	5	-	-	2-3	2-3	2500	1	*
Ross-on-Wye	99·0	+4	SW	5	bq	47	85	42	7	7	-	-	1	1	3000	1	*
Hartland Point	99·3	+10	W	6	c-bc	49	85	45	8	2	6	-	4-6	7-8	2500	1	5
Bristol ...	01·5	+8	SSW	4	b	46	85	42	7	1	3	-	Tr	Tr	1500	2	*
Portland Bill ...	03·5	+12	SSW	6	c-bc	50	92	48	8	5	-	-	7-8	7-8	4000	1	6
Plymouth ...	02·3	+2	SW	5	z.	49	92	46	6	5	-	-	1	1	1500	1	4
The Lizard ...	02·4	+4	W	6	bc.	49	85	45	8	2	-	-	4-6	4-6	1500	1	9
Scilly (St. Mary's)	00·5	+6	W'N	5	bc	49	85	45	8	8	6	-	2-3	4-6	1500	1	5
Pembroke ...	97·5	+4	SW'W	7	b-bcq	51	75	43	7	8	-	-	2-3	2-3	2500	1	5
Holyhead (Valley)	94·3	+4	SSW	6	b-bcjr	46	85	41	7	8	-	-	2-3	2-3	2000	1	5
Chester (Sealand)	96·3	+10	SSE	3	pr	48	65	36	7	5	-	-	7-8	7-8	2000	1	*
Manchester ...	96·0	+8	S'W	4	pr	44	85	41	7	2	6	-	4-6	7-8	2500	1	*
Spurn Head ...	97·2	-4	SW'S	5	c	47	85	44	7	6	7	-	7-8	9+	1500	1	5
Catterick ...	93·7	+6	SSW	5	b	46	75	38	7	5	-	-	1	1	2500	1	*
Tynemouth ...	91·5	0	SW	4	b-bc	46	75	39	7	-	4	-	0	2-3	-	1	3
St. Abbs Head	88·7	-2	SW	4	b-bc	44	85	39	7	5	-	-	2-3	2-3	2500	1	3
Leuchars ...	86·7	+2	SW	4	b	44	75	38	7	-	-	-	0	0	-	1	*
Renfrew (Abbots I.)	87·6	+8	SW'S	4	c-bc/pr	45	75	38	7	8	-	-	7-8	7-8	1600	2	*
Eskdalemuir ...	89·4	+2	SSW	5	c-bc	42	85	38	6	5	-	-	7-8	7-8	1200	2	*
Point of Ayre ...	90·2	0	WSW	5	b	45	75	38	8	2	-	-	1	1	2000	1	4
Tiree	81·9	0	SSW	6	bc/pr	42	85	37	8	3	-	3	2-3	4-6	1800	1	5
Stornoway ...	79·7	-2	WSW	4	pr	44	85	42	6	8	-	-	9+	9+	2000	1	2
Dalwhinnie ...	83·5	-8	SSW	4	b-bc	39	75	32	8	8	-	-	2-3	2-3	2500	1	*
Aberdeen † ...	85·2	-2	SW	4	b	45	75	38	8	5	-	-	Tr	Tr	4000	1	2
Wick ...	82·2	+6	S	3	bc	44	85	38	8	5	7	-	4-6	4-6	3500	1	*
Sumburgh ..	81·0	-14	SW'S	5	c-bc/r	46	92	44	8	5	3	-	2-3	7-8	5000	1	3
Blacksod Point	84·9	+10	SW	8	PHR	41	85	37	7	9	-	-	10	10	1500	2	6
Malin Head ...	83·1	+2	SSW	6	c-bc/pr	41	85	37	8	8	2	-	4-6	7-8	1500	2	4
Aldergrove ...	88·0	+2	SSW	4	bc	41	75	34	8	5	-	-	4-6	4-6	2000	1	*
Birr Castle ...	91·4	+6	W	4	bc	40	75	33	8	3	-	-	2-3	2-3	1500	1	*
Valentia Obsy.	92·5	+2	SW'W	5	c/phr	44	65	34	8	9	-	-	9	9	2500	1	5
Rcches Point	95·2	+10	W	4	bc/pr	46	85	42	8	3	-	-	2-3	2-3	1500	1	5

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Temperature Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 28th. Hrs. (38)
London (Kew)	51	48	43	Tr	3	0·0
Croydon ...	51	47	44	1	5	0·0
S. Farnborough	51	47	43	1	5	0·0
Boscombe Down	52	43	40	1	9	0·0
Thorney Island	50	47	44	Tr	4	*
Lympne ..	49	46	45	Tr	10	0·0
Manston ...	49	46	45	Tr	0·4	0·0
Shoeburyness ...	52	47	44	-	1	0·0
Felixstowe ...	49	45	43	Tr	0·1	0·0
Gorleston ...	53	47	45	-	-	0·0
Mildenhall ...	55	48	43	-	1	0·2
Cranwell ...	55	46	-	Tr	4	
Birmingham ...	53	44	40	1	7	0·3
Upper Heyford	52	45	42	-	8	*
Ross-on-Wye	53	47	42	0·3	11	0·0
Hartland Point	54	47	47	0·4	3	0·0
Bristol ...	53	46	41	0·4	13	0·0
Portland Bill ...	51	48	*	4	8	*
Plymouth ...	52	48	46	2	7	0·0
The Lizard ...	53	46	*	2	6	0·3
Scilly (St. Mary's)	54	47	*	1	3	0·0
Pembroke ...	51	(44)	*	0·3	3	0·0
Holyhead (Valley)	51	45	42	9	1	*
Chester (Sealand)	56	47	38	0·5	2	0·1
Manchester ...	53	44	39	1	0·6	*
Spurn Head ...	52	46	*	-	2	0·0
Catterick ...	53	40	41	2	1	0·0
Tynemouth ...	53	46	42	0·3	0·6	*
St. Abbs Head	53	42	*	0·4	2	*
Leuchars ...	52	44	39	0·1	2	0·1
Renfrew (Abbots I.)	51	44	40	1	6	0·0
Eskdalemuir ...	47	41	40	13	12	0·0
Point of Ayre ...	53	44	*	4	0·5	0·1
Tiree	50	40	37	-	1	0·8
Stornoway ...	49	41	39	0·1	3	1·2
Dalwhinnie ...	46	37	34	0·4	9	0·0
Aberdeen † ...	50	44	38	-	2	0·3
Wick ...	51	43	38	-	1	*
Sumburgh ..	47	45	41	0·1	2	0·5
Blacksod Point	53	38	*	2	5	*
Malin Head ...	51	40		Tr	0·1	0·5
Aldergrove ...	51	40	36	1	0·3	0·0
Birr Castle ...	52	37	34	1	4	0·2
Valentia Obsy.	53	41	38	3	1	0·4
Rcches Point	52	45	*	18	5	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 28th January / 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	57	02754	17327	57	01764	16314
115	54	14744	87726	54	02844	20625
203	8-	81837	16527			
206	84	01863	20424	52	02855	10428
210	57	01866	18427	5-	02857	12227
220						
230	62	61755	18367	52	02845	16128
245	54	05652	20416	52	61656	14268
260	57	02763	18415	52	62746	20468
278	57	02834	17327	62	62627	14468
279	57	22854	18567	5-	62648	19668
285				62	64624	22668
288	5-	63635	52568	62	61644	15668
575	51	02845	18367	57	02846	14128
301	52	62646	17368	62	52545	17468
321						
2.)	57	05654	20427	50	05654	20414
292	57	05646	16428	57	51646	14428
310	--	02628	20428			
614	52	05645	53428	5-	05545	18428

01h. G.M.T. 29th January / 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	5-	22648	47568	51	02654	16428
115	57	02844	12426	57	81734	48587
203						
206	52	51854	20458	40	01863	23513
210	67	68855	16368	50	01863	20463
220				62	64625	16568
230	51	02855	51368	89	02854	20326
245	52	25656	48488	86	05633	18483
260	52	62666	53366	50	01753	20313
278	57	01744	16364	86	01843	51415
279	52	64645	18768	26	01758	20663
285				20	01745	24615
288	5-	63655	48568	54	01852	51583
575	50	01842	53512	87	81854	51485
301	5-	22658	16468	36	02854	53585
321						
2.)	5-	02758	18528	50	01754	22414
292	52	61653	16368	40	05651	20361
310				--	01634	20414
614	5-	05545	18415	5-	05645	18415

13h. G.M.T. 28th January / 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333	62	58517	50558	62	51527	51658
334	--	56537	26458	--	56537	26558
340	5-	22838	20468			
136	57	05633	20428	5-	51638	51558
336	62	62526	20468	62	64626	24568
350	5-	51748	51428	52	61735	18568
368	5-	02847	22328	5-	02848	53528
379	02	62618	53368	5-	51727	53568
390	5-	08438	51458	53	08446	49528
388	57	51736	51558	5-	51847	52658
428	52	43536	22648	57	12746	18628
430	5-	52528	18456	5-	62658	51658
409	62	51627	52658	5-	22738	17868

01h. G.M.T. 29th January / 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333	51	02644	53428	86	01754	54484
334				--	65537	26488
340				03	01752	18412
136	5-	22648	16658	53	22862	18464
336				13	01653	24314
350	5-	62548	50568	80	22754	51464
368	62	62634	53568	84	23754	20484
379	5-	64538	53668	80	01754	
390						
388	5-	05548	51658			
428	5-	58746	51668	07	01880	53411
430	5-	03648	20728	52	02746	22648
409				5-	05643	18463
	5-	61648	54768	5-	02753	19413

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 0Jh. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 29th JANUARY

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

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution, Milligrams of solid impurity per cubic metre
Kew ...	ir.cd.id.	cid.m.	cd.ir.b	Kew 24 hours ended 7h Max. Tim
Croydon ...	d.d.id	cmd.d.	cm.rid.	
Greenwich ...	c	cdd r	drcqb	
Camden Square	c	o	*	
Kensington ...	cd	od	*	
Hampstead ...	omd	or	bc	Min. Time

Stations.	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 % Yesterday	Humidity 9h % To-day
Kew ...	51	48	43	Tr	3	0·0	*	*
Croydon ...	51	47	44	1	5	0·0	*	*
Greenwich ...	52	47	41	1·5	0·5	0·0	91	83
Westminster ...	53	47	43	2·8	*	93	82	
Regents Park ...	51	48	42	Tr	2·6	*	93	85
Camden Square	52	50	42	-	2·5	*	*	85
Kensington ...	53	47	42	0·1	2·4	*	92	85
Hampstead ...	51	44	41	0·1	3·0		*	89

SECRET

Page 1 BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday 30th January 1943.

No. 29654

OBSERVATIONS at 13h. G.M.T. 29th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	04·2	0	SWS	4	bc	51	75	42	7	8	3	-	4-6	4-6	2500
	Croydon	05·1	+2	SSW	4	bcjp	52	85	46	7	2	-	1	1	4-6	2000
	S. Farnborough	04·2	−2	S'W	5	bc	51	75	45	8	8	7	-	4-6	4-6	2700
	Boscombe Down	04·7	−4	SSW	5	bc/pr	52	75	43	8	8	6	-	4-6	4-6	3000
	Thorney Island	05·6	+8	S'W	4	cbc	50	92	48	7	2	3	1	4-6	7-8	2500
	Lympne	06·9	+2	SW	4	c	48	97	47	8	5	-	-	10	10	500
	Manston	05·9	0	SW	4	pr	50	85	47	7	8	-	4	9	9+	600
2	Shoeburyness	06·1	+8	SSW	3	c	53	75	44	8	1	4	4	4-6	9	4000
	Felixstowe	04·6	+2	S'W	5	Zo	53	65	43	6	1	-	1	4-6	4-6	4000
	Gorleston	04·5	+14	SSW	4	b-bc	51	85	45	7	2	-	-	2-3	2-3	2500
	Mildenhall	03·1	+6	SW'S	5	c-bc	53	65	42	8	1	-	-	7-8	7-8	2500
	Cranwell	01·2	+6	SSW	7	bc	50	75	41	8	2	-	-	4-6	4-6	3000
3	Birmingham	01·6	+4	SSW	4	pr	47	75	40	8	8	-	-	7-8	7-8	1500
	Upper Heyford	02·4	+2	SW	5	bc	50	75	41	8	2	-	-	4-6	4-6	1500
4	Ross-on-Wye	01·4	0	SW	4	bc	51	65	40	8	2	-	-	4-6	4-6	3000
5	Hartland Point	00·2	−8	W	5	bc	49	85	45	8	3	-	-	4-6	4-6	1800
	Bristol	03·4	+6	SSW	4	bc	50	75	41	8	8	-	-	4-6	4-6	2500
	Portland Bill	04·3	−4	SW	5	c	50	92	48	8	2	-	-	7-8	9	4000
	Plymouth	03·3	−2	SW	5	bc	52	85	48	8	3	6	3	2-3	4-6	2000
	The Lizard	02·6	−8	WSW	5	bc	51	85	47	8	2	6	-	4-6	4-6	2000
	Scilly (St. Mary's)	01·0	−8	SSW	4	c/pr	51	65	40	8	8	8	-	4-6	9	1200
	Guernsey															
6	Pembroke	00·4	0	S'W	5	bcq	48	97	47	8	8	2	-	4-6	4-6	2000
7	Holyhead (Valley)	96·7	+4	SSW	7	b-bc	49	75	40	8	2	6	-	1	2-3	2500
	Chester (Sealand)	99·1	+14	S	3	bcjp	44	75	36	6	9	6	3	4-6	4-6	1500
8	Manchester	99·3	+2	SSW	5	c-bcjp	48	75	42	8	3	6	-	4-6	7-8	2000
10	Spurn Head	00·4	+8	SW'W	5	b-bc	49	65	38	7	1	-	-	2-3	2-3	4000
	Catterick	97·6	+16	SW	5	bc	48	55	34	7	2	-	-	4-6	4-6	2000
	Tynemouth	94·8	+10	SW	5	b-bc	48	55	32	7	1	-	-	2-3	2-3	4000
11	St. Abbs Head	90·5	+6	S'W	6	bc	44	75	37	8	2	-	-	4-6	4-6	2500
	Leuchars	89·8	+18	WSW	5	c-bc	44	65	34	8	8	-	-	7-8	7-8	2000
12	Renfrew (Abbots I.)	90·3	+14	SWS	5	c-bc/pr	43	65	33	8	8	7	-	7-8	7-8	2500
	Eskdalemuir	92·6	+12	SWS	6	c	41	75	33	8	5	-	-	9	9	2200
	Point of Ayre	94·0	+12	WSW	6	bc	47	55	34	8	2	-	-	4-6	4-6	3000
13A	Tiree	84·9	+10	SWS	6	b-bc	43	75	36	8	3	6	-	2-3	2-3	2000
13B	Stornoway	81·6	+16	SSW	5	c/phr	37	97	37	8	3	6	3	7-8	9+	1500
15	Dalwhinnie	87·0	+12	SSW	4	ps	35	85	31	7	5	-	-	9	9	1500
	Aberdeen	87·2	+14	SW	5	b-bc	44	65	32	8	7	2	-	2-3	2-3	2500
	Wick	83·5	+6	SW	5	c-bc	43	75	38	8	8	3	2	4-6	7-8	3000
16	Sumburgh	81·2	−6	SWW	7	b-bc	46	85	41	8	8	-	-	2-3	2-3	3000
17	Blacksod Point	87·1	+2	SSW	6	c-bc	45	65	34	8	9	-	-	7-8	7-8	1500
18	Malin Head	86·9	+14	S'W	6	pr	42	85	38	8	8	2	-	4-6	9	1500
	Aldergrove	92·3	+18	SW	5	b-bc	44	65	34	8	2	4	-	2-3	2-3	2500
19	Birr Castle	93·2	−2	WSW	3	bc	47	65	36	8	8	-	-	4-6	4-6	1500
20	Valentia Obsy.	91·0	−22	S'W	4	pr	45	85	41	8	3	-	-	9	9	2500
	Roches Point	94·7	−14	WS	4	pr	47	85	43	8	3	-	3	4-6	4-6	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. (21)	% Humid. (22)	Dew Point (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	03·2	−4	S'W	3	Zo	48	85	44	6	5	-	1	2-3	2-3	4000	1	•
Croydon	04·7	0	SSW	3	c-bc	49	92	46	6	4	-	1	7-8	7-8	2000	1	•
S. Farnborough	03·3	−6	S'W	4	c-bc	47	92	45	6	8	7	2	4-6	7-8	2000	1	•
Boscombe Down	02·5	−10	S'E	4	Zo	47	97	46	6	8	4	3	4-6	7-8	1200	1	•
Thorney Island	04·7	−6	S'E	3	c	47	92	45	6	1	3	3	9	9+	2500	1	•
Lympne	05·8	−6	S	2	Zo	47	97	46	5	5	-	-	9+	9+	400	1	§5
Manston	03·6	−2	SSW	3	Zo	47	92	45	6	2	4	4	1	2-3	800	1	•
Shoeburyness	05·7	−2	SW	5	b-bc	47	92	44	7	4	3	1	Tr	2-3	2500	1	•
Felixstowe	04·0	−8	S'E	4	Zo	44	92	43	6	-	7	1	0	2-3	-	0	4
Gorleston	04·2	0	SSW	3	Zo	47	85	43	6	-	4	-	0	2-3	-	0	3
Mildenhall	02·4	−6	S	4	Zo	48	85	43	6	5	4	-	2-3	4-6	2500	1	•
Cranwell	00·9	−6	S	3	b	41	92	38	7	-	6	-	0	1	-	1	•
Birmingham	00·3	−6	SSE	3	b-bc	45	85	41	7	8	-	-	2-3	2-3	1500	1	•
Upper Heyford	01·3	−6	SSW	3	c-bc	45	85	42	7	3	-	3	2-3	7-8	1500	1	•
Ross-on-Wye	99·7	−10	S	3	b-bc	48	85	42	7	8	-	5	1	2-3	3000	1	•
Hartland Point	97·1	−20	SW	4	c-bc	48	75	42	8	2	4	6	1	7-8	1800	1	4
Bristol	00·8	−12	SSW	3	bc	47	85	42	7	5	3	5	4-6	4-6	2500	1	•
Portland Bill	03·0	−4	S	4	c	50	85	46	8	5	-	-	10	10	4000	0	5
Plymouth	00·1	−14	S'W	6	pr	49	92	47	7	8	7	3	7-8	9+	2000	1	4
The Lizard	98·5	−20	SW	5	c	50	85	46	8	8	2	-	7-8	9+	1500	0	5
Scilly (St. Mary's)	95·9	−28	SSW	5	c/pr	48	75	42	6	8	6	2	7-8	9+	1000	1	5
Guernsey																	
Pembroke	95·6	−16	S	6	c-bcq	49	85	45	7	8	4	-	4-6	7-8	2500	1	4
Holyhead (Valley)	93·9	−26	SSE	7	c-bcjp	47	85	42	8	3	-	-	7-8	7-8	1000	1	5
Chester (Sealand)	97·5	−6	SSW	2	b-bc	44	85	39	8	2	6	-	2-3	2-3	2500	1	•
Manchester	98·1	−12	S'E	4	Zo	44	85	41	6	4	6	-	Tr	1	4000	1	•
Spurn Head	00·8	0	SE'S	3	b	44	85	40	7	-	-	-	0	0	-	0	3
Catterick	98·0	−2	S	1	Zo	41	85	36	6	4	-	-	Tr	Tr	2500	1	•
Tynemouth	96·5	+4	SW	4	b-bc	45	65	34	6	2	-	7	2-3	2-3	4000	1	3
St. Abbs Head	92·7	+2	SSW	5	b-bc	42	*	*	7	4	-	-	2-3	2-3	4000	0	4
Leuchars	92·6	+14	SSW	4	bc	41	75	33	8	4	3	-	1	4-6	4500	1	•
Renfrew (Abbots I.)	91·3	0	S'E	3	Zo	43	75	35	6	8	3	5	2-3	4-6	2000	1	•
Eskdalemuir	94·1	+2	S	3	c	39	85	35	8	5	-	-	9+	9+	1800	1	•
Point of Ayre	93·0	−8	S'W	4	c-bc	45	85	40	8	8	4	-	4-6	7-8	1800	0	3
Tiree	86·2	+4	SSW	6	bc	43	75	35	8	3	6	-	2-3	4-6	2000	1	5
Stornoway	84·1	+14	SSW	6	b-bc	40	75	33	8	3	-	-	2-3	2-3	1500	1	5
Dalwhinnie	89·0	+20	SSW	3	ps	37	75	30	7	5	-	-	7-8	7-8	2500	1	•
Aberdeen	90·9	+26	SW	4	b	42	65	33	7	5	-	-	Tr	Tr	2500	1	3
Wick	87·2	+20	SSW	4	b-bc	37	92	35	9	2	-	-	2-3	2-3	3000	1	•
Sumburgh	85·3	+34	SW	7	b-bc	43	85	40	8	8	6	-	2-3	2-3	2500	1	4
Blacksod Point	82·5	−32	S	5	roro	44	75	37	7	6	-	-	10	10	1500	2	4
Malin Head	86·2	−10	SSW	3	c	42	85	38	8	8	2	-	4-6	10	1500	2	4
Aldergrove	89·2	−18	S'E	4	c	43	75	35	8	5	7	-	4-6	9	4500	1	•
Birr Castle	88·1	−30	WSW	3	c-bc	45	75	38	8	8	-	-	7-8	7-8	1500	1	•
Valentia Obsy.	84·5	−30	SSW	5	c	47	75	40	8	9	-	-	9	9	2500	1	5
Roches Point	89·1	−32	SSW	6	th.	46	92	44	6	3	-	-	9	9	800	1	5

PAST 24 HOURS.

Stations	Weather 7h.—13h. 29th (39)	13h.—18h. 29th (40)	18h. 29th to 1h. 30th (41)	1h.—7h. 30th (42)
London (Kew)	b, cmobc	bcbcmo	Wcrorm o	irocrRc
Croydon	cmobcmbc	bcbcmo		crrcd.do
S. Farnborough	bc	bccmo	cmocmoirror	cmorrdoc
Boscombe Down	bcq prbc	bcbcpobc	cpro, crrmo	crrmoc
Thorney Island	b prbco	bccmo	bcmocmorr	rr rorobc
Lympne	cproc	cmo	cbcomorr	omRciro
Manston	cpro	cbc	roromo	roromo
Shoeburyness	ciromo	cbc	ciromo	cmo
Felixstowe	bmobcmo	bcbcmo	bcmo, irororo	rorociromo
Gorleston	bbc	bc	bbc oiro	orr
Mildenhall	bcbbc	bcbcmo	cciromo	crorom ocmo
Cranwell	b	b	bbmocmoW	cmoWcroro
Birmingham	bcpr	probc	bcc	cpr
Upper Heyford	bbcc	bccorobc	bcc	roroidomo
Ross-on-Wye	cq Rbc	bc	c cir	rcroP
Hartland Point	cprbcphr	bcc	cprlbc	bccirlthrc
Bristol	b	bcb	cmo, dororocmororo, pro	
Portland Bill	c	oc	orr	o
Plymouth	bcprobc	bbcc	crr roromo	bcc prbc
The Lizard	cprbc	bcc	prlbq	cprbc
Scilly (St. Mary's)	bcpqbc	bcqpc	bcepql	cpq
Guernsey				
Pembroke	bcproq	bccq	PRtlbcq	bccrrq
Holyhead (Valley)	b	bcjp	bcb	bcpro
Chester (Sealand)	cbc pr	bcpro	bcproc	cpro
Manchester	tlro PR	PHR q	bmocpro	cpromo
Spurn Head	bc	b	cmo	c
Catterick	bq bc	bbmo		cmocrr
Tynemouth	bcbbc	bc	bc	ciro
St. Abbs Head	cqprhbc	bcb	bcm	bbccm
Leuchars	b bcc	bcbc	bcbbc	bcc
Renfrew (Abbots I.)	bccproc	cbc	cmoPr	cprbccmo
Eskdalemuir	cmopro	cbcc	cpro	cir
Point of Ayre	bbcby	bbcc	Pr rrbc	bccroro
Tiree	cprobc	cprobc	cPr roc	crr roro
Stornoway	cproph	proTLRHb	bcpropr	cprc
Dalwhinnie	bccph	cps		cprso
Aberdeen	b	bbyb	bbczo	bcciro rrmo
Wick	bc	bccbc	cbcb	mbbc
Sumburgh	cprobcb	cbc	bc	ccroroc
Blacksod Point	pr	r	r	pr
Malin Head	pr	pr	r	r
Aldergrove	bcb	bbcc	cbcidobc	cirorr
Birr Castle	bc	bc		pr
Valentia Obsy.	pr	pr	pr	pr
Roches Point	pr	tlr	pr	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 30th January, 1943.

Districts	Forecast
1 S.E. England ↓ 2 E. England	Fresh or strong southerly winds, soon veering, moderating later; squally, thundery showers of rain and hail and local thunderstorms at first; scattered thundery showers later, with some clearances: cold.
3 E. Midlands 4 W. Midlands 5 S.W. England ↓ 6 South Wales ↓ 7 North Wales ↓ 8 N.W. England ↓ 9 N. Midlands	Strong, squally westerly winds, gales in exposed places, moderating slowly; squally, thundery showers of rain and hail with local thunderstorms; cold.
10 N.E. England 11 S.E. Scotland ↓	As 1-2
12 S.W. Scotland & Isle of Man ↓ 13A W. Scotland ↓ 13B N.W. Scotland ↓ 14 Mid Scotland	As 3-9
15 N.E. Scotland ↓ 16 Orkneys and Shetlands ↓	Strong to gale southeasterly winds, veering southwest and moderating; rain and local thunder early; squally, thundery showers later with local thunder: cold.
17 N. W. Ireland ↓ 18 N. E. Ireland ↓ 19 S. E. Ireland ↓ 20 S. W. Ireland ↓	As 3-9

GENERAL INFERENCE

Pressure is high to the southeast and low to the northwest of the British Isles, and a small secondary off West Scotland is moving northeast; a vigorous trough is moving quickly east across the British Isles. There will be squally showers of rain and hail in all districts with local thunderstorms; there will be strong or gale winds at first in all areas: cold.

FURTHER OUTLOOK

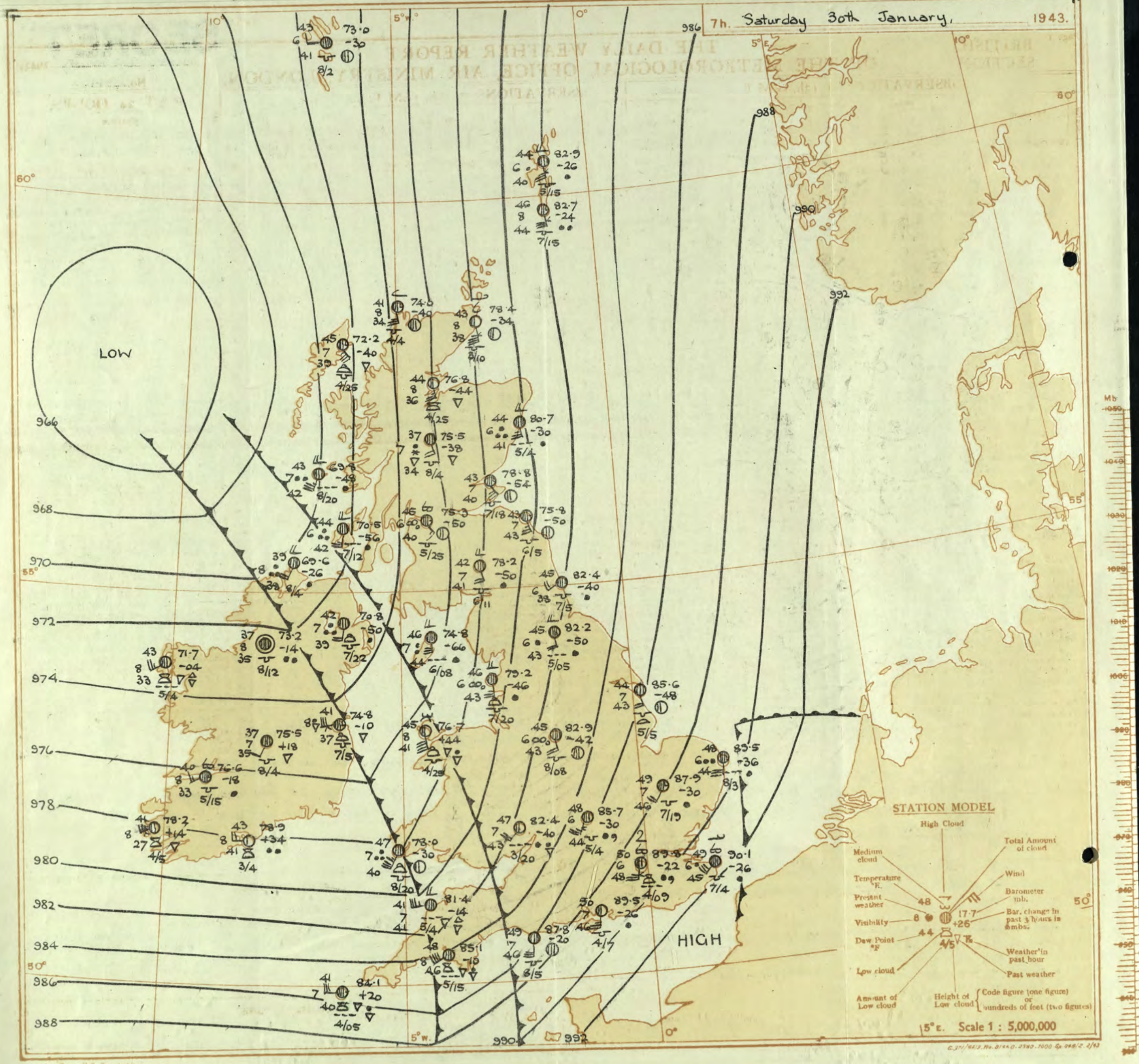
Depression approaching from the southwest with renewed general rain and gales.

↓ Gale warning in operation in districts 6, 7, 8, 12, 13A & B. 17, 18, 19, 20. issued at 1600 G.M.T. 29th Jan: 1943. In districts 5, 11, 15, 16. issued at 0600 G.M.T. 30th Jan: 1943. In district 1. issued at 0825 G.M.T. on 30th Jan: 1943.

Forecasts issued at 10.30

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Saturday 30th January, 1943.



H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

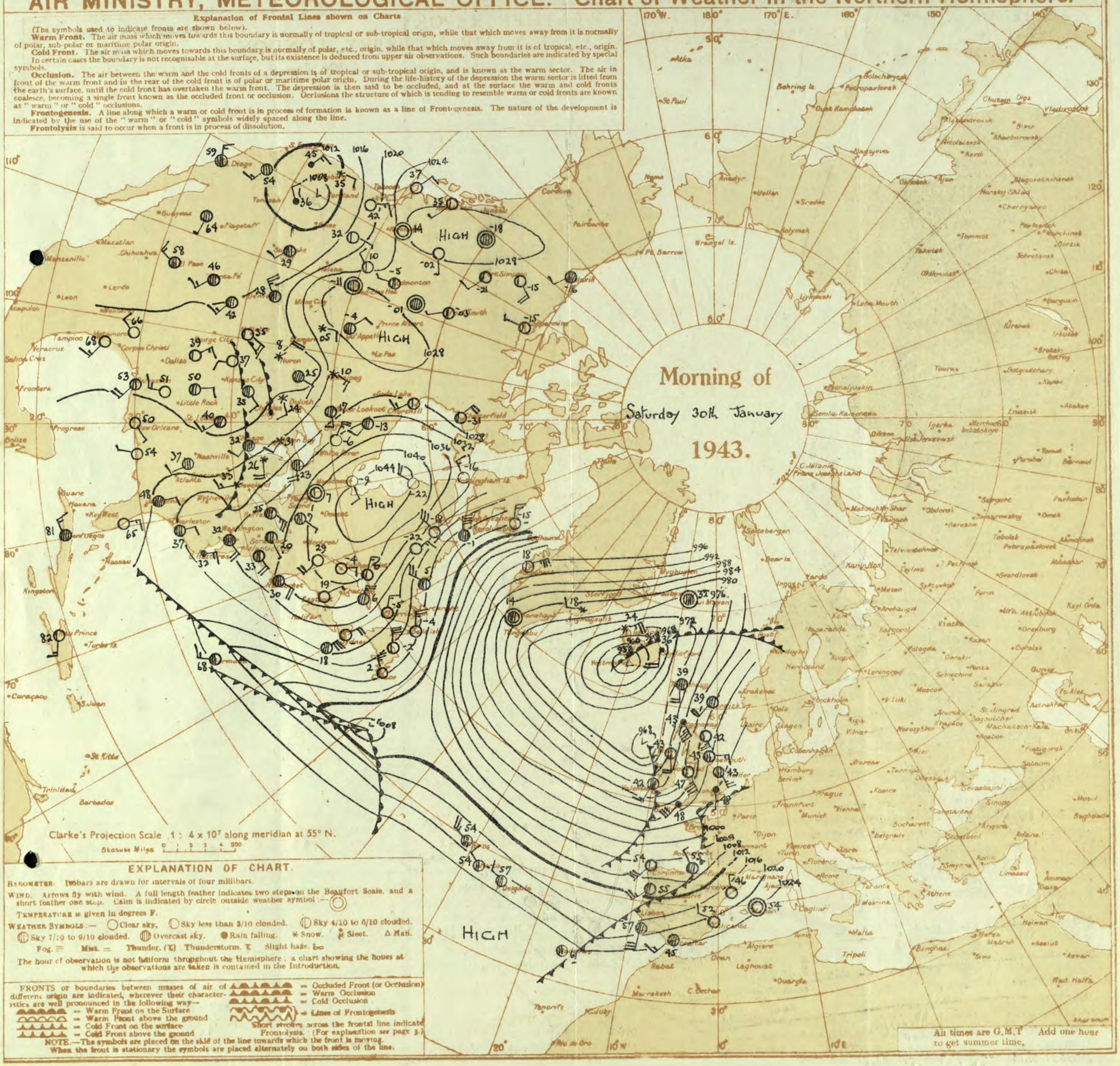
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



BRITISH SECTION — THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Saturday 30th January 1943

No. 29654

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0-12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0-9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0-10 (13)	Cloud Amount Total 0-10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	48	*	*	*	*	*	*	*	*	*
	Croydon	290	96.4	-54	S	1	rr	48	97	47	4	6	2	-	9	10	900
	S. Farnborough	226	94.7	-38	SSE	4	rr	47	97	47	6	5	-	-	10	10	800
	Boscombe Down	417	93.4	-54	SSE	5	rr	47	97	46	6	5	-	-	7-8	10	700
	Thorney Island	10	95.8	-52	S	4	r$_o$r$_o$	48	97	47	6	-	2	-	10	10	3800
	Lympne	283	98.2	-46	SW	4	rr	47	97	46	6	5	-	-	10	10	2000
	Manston	154	98.7	-42	SW	4	rr	47	97	47	6	6	2	-	9+	10	500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	98.2	-38	SSE	5	r$_o$r$_o$	46	97	44	4	-	2	-	10	10	1500
	Gorleston	5	99.8	-28	SSE	4	ir$_o$	44	97	43	6	6	-	-	10	10	1500
	Mildenhall	15	96.4	-42	SSE	4	ir$_o$	48	92	45	6	5	-	-	4-6	10	1200
	Cranwell	203	95.4	-36	SSE	5	z$_o$	43	97	43	6	5	-	-	9	10	300
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	93.8	-50	SSE	5	ir$_o$	47	85	43	7	5	2	-	9	10	1100
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	87.9	-44	SSW	4	b-bc	47	92	44	8	4	-	-	2-3	2-3	2500
	Bristol	209	91.5	-58	S	4	r$_o$r$_o$	47	92	45	6	5	2	-	7-8	10	1400
	Portland Bill	32	93.6	-44	S	5	rr	49	92	47	7	5	-	-	10	10	2500
	Plymouth	82	90.5	-46	SW	6	ir$_o$	49	97	49	6	5	-	-	9	9	1500
	The Lizard	240	89.3	-36	SWW	7	bc	49	85	46	7	8	-	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	86.4	-40	SW	6	pr	48	92	46	8	9	-	+	9+	9+	450
	Guernsey	175															
6	Pembroke	142	85.7	-50	SE	6	c-bc/clr	45	97	45	8	3	-	-	7-8	7-8	1500
7	Holyhead (Valley)	32	86.6	-38	SSE	7	b-bc	47	85	42	8	2	6	-	1	2-3	2500
	Chester (Sealand)	16	82.4	-22	SSW	3	pr	45	85	41	7	8	-	-	9	9	1400
8	Manchester	235	91.3	-42	SSE	4	c/pr	46	85	42	5	2	-	-	10	10	2700
10	Spurn Head	29	85.7	-32	SSE	5	z$_o$	43	97	43	6	7	-	-	9	9	4000
	Catterick	175	92.8	-22	SSE	4	z$_o$	40	92	39	6	-	1	-	0	9+	-
	Tynemouth	108	92.6	-28	E	3	bc	43	85	39	6	2	3	-	2-3	4-6	2500
11	St. Abbs Head	280	88.4	-38	S	4	b	40	92	39	7	5	-	-	1	1	4000
	Leuchars	36	87.4	-34	SSE	4	bc	41	85	37	7	5	-	-	4-6	4-6	3000
12	Renfrew (Abbots I.)	19	85.3	-28	SSE	3	PR	44	85	41	6	3	2	-	7-8	10	2300
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	85.6	-30	SSW	5	bc	47	85	43	8	8	-	-	4-6	4-6	2000
13A	Tiree	44	78.6	-26	SSW	7	c	43	92	41	8	5	2	-	7-8	10	2500
13B	Stornoway	15	79.6	-34	SSE	7	pr	43	97	43	6	3	-	-	10	10	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	88.3	-28	SSE	5	b-bc	42	75	38	8	5	-	-	2-3	2-3	3000
	Wick	114	84.6	-26	SE	6	b-bc	42	85	37	8	5	4	-	1	2-3	4000
16	Sumburgh	19	88.2	-2	SE	6	bc	44	85	40	8	5	-	-	4-6	4-6	4000
17	Blacksod Point	18	74.1	-26	S	5	rr	42	85	38	7	6	2	-	4-6	10	1500
18	Malin Head	84	77.1	-28	SE	5	bc	43	85	39	8	8	-	-	4-6	4-6	1500
	Aldergrove	268	81.4	-38	SSE	4	bc	44	85	40	7	8	-	-	4-6	4-6	3000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	76.6	-24	SW	3	c/r	42	85	38	8	8	-	-	9+	9+	2500
	Roches Point	22	78.4	-50	SW	7	ir$_o$	49	85	45	8	6	2	-	4-6	9+	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0-12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0-9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0-10 (28)	Cloud Amount Total 0-10 (29)	Height of Base (feet) (30)
London (Kew)	88.4	-22	SWS	4	c/r	49	92	46	7	5	3	5	7-8	9+	1500
Croydon	89.8	-22	S	5	c-bc/d	50	92	48	6	9	7	6	4-6	7-8	900
S. Farnborough	88.0	-18	SW	5	c/d	49	92	47	7	5	-	-	9	9	1400
Boscombe Down	86.2	-30	S	6	pr	48	97	46	6	8	-	-	9	10	1300
Thorney Island	89.5	-26	S	5	bc	50	85	46	7	5	-	-	4-6	4-6	5700
Lympne	91.7	-20	S	4	r$_o$r$_o$	48	92	47	6	5	-	-	10	10	1000
Manston	90.1	-26	SWS	6	ir$_o$	48	85	45	6	5	7	2	9+	10	1800
Shoeburyness	91.9	-20	S	5	z$_o$	49	85	46	6	9	-	-	10	10	2500
Felixstowe	90.2	-30	SE	6	o/r	47	92	46	6	5	-	-	10	10	1900
Gorleston	89.5	-36	S	6	r$_o$r$_o$	48	85	44	6	6	-	-	10	10	800
Mildenhall	87.9	-30	SW	4	c	49	92	46	7	5	-	-	9+	9+	1900
Cranwell	85.6	-38	S	4	c/d	46	97	45	6	5	-	-	9+	9+	1500
Birmingham	82.9	-34	SSE	4	c/pr	46	85	42	8	8	-	-	9	9	1500
Upper Heyford	85.7	-30	SW	5	c-bc/d	48	85	44	6	5	-	-	7-8	7-8	1500
Ross-on-Wye	82.4	-40	SSW	4	bc/pr	47	85	43	7	6	-	8	2-3	4-6	2000
Hartland Point	81.4	-14	WSW	7	c/phr	41	97	41	7	6	2	-	7-8	10	1500
Bristol	84.7	-34	S	5	pr	49	85	43	7	9	-	-	9+	9+	1500
Portland Bill	87.8	-20	S	6	c/d	49	92	46	7	5	-	-	10	10	2500
Plymouth	85.1	-10	SW	8	c-bc	48	92	46	8	9	-	-	7-8	7-8	1500
The Lizard	84.5	-4	WSW	7	bc/pr	44	92	42	8	8	-	-	4-6	4-6	1500
Scilly (St. Mary's)	84.1	+20	W	6	c/pr	41	97	40	7	9	6	-	4-6	9	500
Guernsey															
Pembroke	78.0	-30	SSW	9	rr	47	75	40	7	8	-	-	10	10	2000
Holyhead (Valley)	76.7	+44	SSE	8	bc/pr	45	85	41	8	8	6	-	4-6	4-6	2500
Chester (Sealand)	80.3	-42	S	3	c/pr	46	85	43	7	5	-	-	9	9	1500
Manchester	81.1	-48	SSE	4	pr	47	85	43	6	2	-	-	9+	9+	2000
Spurn Head	85.6	-48	SSE	4	cbc	44	97	43	7	7	-	-	7-8	7-8	2500
Catterick	82.2	-50	SSE	4	ir$_o$	45	92	43	6	6	2	-	7-8	10	500
Tynemouth	82.4	-40	SW	4	c	45	85	38	6	5	-	-	9+	9+	2500
St. Abbs Head	75.8	-50	SE	5	c	43	97	43	7	5	-	-	9	9	2500
Leuchars	78.8	-54	SE	5	c	43	85	40	7	5	-	-	9+	9+	1800
Renfrew (Abbots I.)	75.3	-50	SEE	3	z$_o$	45	85	40	6	5	7	-	7-8	9	2500
Eskdalemuir	78.2	-50	SES	4	c	42	92	41	7	5	2	-	9	10	1100
Point of Ayre	74.8	-66	SE	6	ir	46	92	44	7	6	2	-	9	10	800
Tiree	69.8	-48	SW	7	r$_o$r$_o$	43	97	42	7	6	2	-	10	10	2000
Stornoway	72.2	-40	SE	7	c	45	75	39	7	8	-	-	4-6	9+	2500
Dalwhinnie	75.5	-38	SSE	4	prs	37	92	34	7	5	-	-	10	10	1500
Aberdeen †	80.7	-30	SE	5	rr	44	92	41	6	6	2	-	7-8	10	1500
Wick	78.4	-34	SE	7	bc	43	85	38	8	5	4	1	2-3	4-6	1000
Sumburgh	82.7	-24	SSE	6	c/r	46	92	44	8	5	-	-	9+	9+	1500
Blacksod Point	71.7	-4	SWW	5	c-bc/phr	43	65	33	8	9	-	-	7-8	7-8	1500
Malin Head	69.6	-26	SSW	4	rr	39	97	38	8	-	2	-	10	10	1500
Aldergrove	70.8	-50	SW	4	rr	42	92	39	7	8	2	-	9+	10	2200
Birr Castle	75.5	+18	SSW	2	c	37	92	35	7	5	-	-	10	10	1500
Valentia Obsy.	78.2	+14	WSW	5	bc	41	55	27	8	3	-	-	4-6	4-6	2500
Roches Point	78.9	+34	W	4	b-bc/r	43	92	41	8	3	-	-	2-3	2-3	1500

PAST 24 HOURS.

Stations	State of Ground 0-9 (31)	Sea 0-9 (32)	Temperature Max. Day 7h-18h °F. (33)	Temperature Min. Night 18h-7h °F (34)	Temperature Min. on Grass °F. (35)	Rainfall Day 7h-18h mm. (36)	Rainfall Night 18h-7h mm. (37)	Sunshine 29th Hrs. (38)
London (Kew)	1	*	52	47	41	Tr	8	5.6
Croydon	1	*	53	46	43	-	11	5.0
S. Farnborough	1	*	53	41	42	-	8	6.3
Boscombe Down	1	*	52	45	42	0.6	5	4.3
Thorney Island	1	*	52	46	43	0.2	8	*
Lympne	1	§6	51	46	44	0.1	5	0.9
Manston	1	*	51	45	44	0.4	3	3.3
Shoeburyness	1	*	54	45	40	0.2	4	4.7
Felixstowe	1	5	53	44	41	-	3	6.[illegible]
Gorleston	1	5	53	44	41	-	5	5.5
Mildenhall	1	*	54	45	40	-	3	5.8
Cranwell	1	*	(50)	39	33	-	1	7.1
Birmingham	1	*	49	43	41	1	3	4.5
Upper Heyford	1	*	52	45	42	0.1	2	*
Ross-on-Wye	1	*	52	45	41	3	5	5.8
Hartland Point	1	5	50	(41)	42	0.4	5	4.6
Bristol	1	*	52	45	43	-	1	6.4
Portland Bill	1	6	51	47	*	-	3	*
Plymouth	1	4	52	46	43	1	6	4.4
The Lizard	1	5	52	42	*	1	4	4.8
Scilly (St. Mary's)	1	5	52	40	*	Tr	6	4.9
Guernsey								
Pembroke	1	5	50	43	*	Tr	8	4.7
Holyhead (Valley)	1	6	51	44	42	-	2	*
Chester (Sealand)	1	*	51	43	36	3	0.2	4.7
Manchester	1	*	49	43	38	3	0.4	*
Spurn Head	1	4	50	42	*	-	2	6.6
Catterick	1	*	48	39	29	-	1	6.5
Tynemouth	1	4	49	43	42	-	0.6	*
St. Abbs Head	0	4	45	39		1	-	
Leuchars	1	*	45	39	30	-	-	5.2
Renfrew (Abbots I.)	2	*	46	42	36	Tr	7	3.1
Eskdalemuir	1	*	43	39	37	0.3	1	2.0
Point of Ayre	1	5	49	44	*	-	4	7.0
Tiree	1	6	45	42	42	6	2	2.2
Stornoway	1	5	45	39	36	5	6	0.8
Dalwhinnie	1	*	39	35	31	3	13	1.2
Aberdeen †	1	2	45	40	33	-	2	6.5
Wick	1	*	44	36	34	-	-	
Sumburgh	0	4	47	43	40	Tr	0.5	3.8
Blacksod Point	2	4	46	40	*	2	8	
Malin Head	2	4	45	38		1	5	3.5
Aldergrove	1	*	46	41	37	-	3	5.9
Birr Castle	1	*	48	36	35	0.4	12	3.4
Valentia Obsy.	1	5	48	40	36	4	7	1.9
Roches Point	1	*	50	43	*	5	11	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 29th January $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 30th January $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	86	01864	51614	87	02844	52514	5-	03658	15528	52	82654	47445
115	87	10844	53587	52	10835	53588				51	02844	14527
203												
206	96	25853	53685	30	01952	53582	50	01861	24311	3-	01854	47584
210	16	02963	21515	30	01962	17382	5-	01984	47404	53	02864	13315
220	30	27846	20486	80	02746	18586				81	81745	14628
230	97	27854	50585	3-	01853	16383	97	02856	51388	52	22855	16388
245				24	01751	18413	5-	02765	15525	6-	02738	46428
260	1-	02854	18515	44	01862	51413	00	00890	51400	57	02855	18326
278	8-	01844	20414				9-	81645	14585	9-	82648	47588
279	20	01854	55614	83	05653	18514	50	01763	15513	52	63645	15488
285	23	27854	24684	20	01744	22514						
288	20	05655	51615	00	05690	14410	50	01752	48502	5-	05667	58587
575	83	01853	18414	87	81854	18317	80	01854	47414	5-	22848	00068
301	26	01852	20482	86	05654	17414	50	05651	14411	82	05657	14568
321												
290	24	01754	20414	50	05652	20312	00	00890	20400	8-	22648	20568
292	20	05653	20485	40	17552	17312	50	17543	16303	62	05635	14368
310	--	01634	24514							--	02628	20568
614	2-	05655	20325	50	05564	18314	51	05654	47328	5-	05544	49328

III	13h. G.M.T. 29th January $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 30th January $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	26	01851	20582	34	01842	49484	80	25654	14585	83	25655	50586
334	--	27644	26415	--	27643	28375				--	65537	24588
340	10	01854	18415	8-	01744	14414	5-	62648	14468	87	81647	49487
136	20	01743	20513	83	02754	18325	52	05635	15528	6-	22647	16467
336	21	01753	20414	57	02754	20417				62	64526	20568
350	20	01755	52415	2-	01754	16314	5-	51648	16358	5-	63635	49467
368	86	01853	20414	26	01854	20384	57	01755	18525	97	25665	89687
379	20	01844	20514	80	01743	18414	5-	81638	14488	80	02745	51525
390	3-	05655	81425	50	47352	18422	5-	62668	18388	5-	41446	51558
382	83	02855	53415	84	01863	18484	5-	62748	47568	57	02745	18525
438	82	02744	22686	--	46109	20449	5-	62638	20568	82	63736	20788
430	5-	05634	18385	53	05644	18425	5-	64638	16468	57	05644	49467
400	86	25854	13584	37	02854	17526	26	01754	49614	26	02745	53618

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N$_h$ = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ Sea disturbance reported from Dungeness. † 01h. observations from Dyce.

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 30th January. Day 7h—18h Kew and Croydon, 9h—18h Kensington, 9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre
Kew	bcm$_o$be	beebcm$_o$	weir$_o$erRe	
Croydon	cm$_o$bem$_o$be	bebcm$_o$	erred$_o$d$_o$	
Greenwich	bbc	bc	beer$_o$rrq	Kew 24 hours ended 7h. Max. 0.1 Time 16-20h 29th
Camden Square	b	b	*	
Kensington	be	bc	*	
Hampstead	bc	or	or	Min. <0.1 Time 0-7h 30th

Stations	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 % Yesterday	Humidity 9h % To-day
Kew	52	47	41	Tr	8	5.6	*	*
Croydon	53	46	43	-	11	5.0	*	*
Greenwich	55	47	38	-	5	6.3	68	80
Westminster	55	48	43	6			62	81
Regents Park	54	48	44	-	7		61	75
Camden Square	54	50	41	-	-	*	*	74
Kensington	53	47	43	Tr	6		79	79
Hampstead	53	45	40	-	9		*	84

SECRET

Page 1

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Sunday, 31st January 1943

No. 29655

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	90·8	+14	SW	5	cQ	47	73	38	6	9	-	3	7-8	9+	1500
	Croydon	91·6	+22	SSW	5	c	46	75	40	8	3	-	3	7-8	9	1500
	S. Farnborough	99·1	+16	SW'W	6	PHR	46	75	40	7	9	-	-	9+	9+	1000
	Boscombe Down	99·1	+30	WSW	6	PR	42	85	38	7	9	-	3	9	9+	1500
	Thorney Island	92·6	+22	SW	6	c-bc	48	75	39	8	2	-	-	7-8	7-8	1500
	Lympne	93·9	+26	SW	5	bc/phr	43	85	38	8	3	6	-	4-6	4-6	1000
	Manston	93·0	+20	WSW	6	b-bcjp	46	75	39	8	3	-	-	2-3	2-3	1800
2	Shoeburyness	91·5	+6	SW	6	bc/pr	49	65	37	8	3	3	3	4-6	4-6	4000
	Felixstowe	99·0	+6	SSW	7	c/pr	48	85	42	7	8	-	-	9	9	1500
	Gorleston	88·7	+4	SW'S	6	c-bc/pr	48	75	40	7	8	-	-	7-8	7-8	2000
	Mildenhall	87·5	+10	SW'S	6	b:	47	65	36	9	2	6	3	2-3	4-6	2500
	Cranwell	84·7	+16	SW	6	c-bc	47	85	43	8	3	6	3	4-6	7-8	1500
3	Birmingham	86·3	+24	SW	4	c-bc	41	65	30	8	8	-	-	7-8	7-8	1500
	Upper Heyford	89·0	+36	W	5	pro	37	92	35	7	9	-	-	10	10	500
4	Ross-on-Wye	88·0	+30	SW	4	co/r	40	85	36	8	8	2	3	2-3	9+	2500
5	Hartland Point	87·4	+18	WSW	7	c-bc/phr	43	65	33	8	3	-	3	7-8	7-8	1200
	Bristol	89·8	+26	WSW	5	c/pr	41	85	36	8	9	6	-	9	9+	1500
	Portland Bill	91·3	+22	SW	6	rc	48	92	46	8	5	-	-	10	10	4000
	Plymouth	91·2	+28	SW'W	7	r/tlr	41	97	41	8	9	6	3	4-6	7-8	2000
	The Lizard	90·7	+24	W'S	6	bc/pr	44	75	37	8	2	6	-	4-6	4-6	1500
	Scilly (St. Mary's)	89·6	+18	SW'W	6	cjp	45	75	38	7	8	6	-	7-8	9+	1200
	Guernsey															
6	Pembroke	85·5	+20	WSW	8	c-bcq	44	75	35	7	8	6	-	4-6	7-8	2000
7	Holyhead (Valley)	81·0	+26	SW'W	6	cjp	45	65	32	8	8	6	2	7-8	9	2000
	Chester (Sealand)	83·0	+30	WSW	4	pro	45	65	34	8	2	2	-	1	9+	2000
8	Manchester	84·1	+34	SW'S	5	c	43	75	35	8	2	6	3	4-6	9+	2500
10	Spurn Head	83·2	+6	SW'S	6	bc	46	75	38	7	2	3	-	2-3	4-6	1500
	Catterick	79·6	+4	WSW	4	c-bc	43	75	36	7	8	3	-	4-6	7-8	2000
	Tynemouth	76·9	-8	SSW	6	c-bcq	47	75	38	6	2	-	-	7-8	7-8	2500
11	St. Abbs Head	72·9	-16	S	4	rr	42	55	30	7	6	2	-	7-8	10	1500
	Leuchars	72·6	-18	SSW	4	c/r	43	75	36	8	5	2	-	9+	10	1500
12	Renfrew (Abbots I.)	74·6	+22	SW	4	c/pr	42	75	36	8	8	7	2	4-6	9	1600
	Eskdalemuir	76·1	+14	SW'S	5	roro	38	92	35	7	-	2	-	10	10	1200
	Point of Ayre	78·0	+28	WSW	6	b-bc	45	75	38	8	2	4	-	Tr	2-3	2500
13A	Tiree	70·5	+10	SW	5	cjp	44	65	35	8	3	1	2	4-6	9	2200
13B	Stornoway	68·8	+4	S	4	c/rs	37	97	37	8	8	7	-	7-8	9+	2000
15	Dalwhinnie	70·5	-4	SW	3	c	37	85	34	7	5	9	-	7-8	9+	1500
	Aberdeen	71·9	-40	S'E	3	roro	44	92	42	5	6	7	-	7-8	10	1000
	Wick	71·3	-34	SE	5	c	45	85	41	7	5	-	-	10	10	1000
16	Sumburgh	75·8	-44	SE'S	6	ir	45	97	44	6	6	2	-	9+	10	800
17	Blacksod Point	74·3	+10	WSW	6	c	45	75	38	8	8	-	-	10	10	1500
18	Malin Head	71·7	+10	S'W	6	bc	43	85	39	8	8	-	3	4-6	4-6	1500
	Aldergrove	77·9	+30	SW	5	c	40	75	33	9	8	7	5	7-8	9+	2200
19	Birr Castle	80·2	+14	S'E	3	c-bc	41	85	37	8	8	-	-	7-8	7-8	1500
20	Valentia Obsy.	81·4	+8	SW'S	5	TLH	41	75	34	8	3	-	-	10	10	2500
	Roches Point	84·0	+16	W	4	c-bc/pr	43	85	39	8	3	-	3	4-6	7-8	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	°Temp. (21)	%Humid. (22)	°F. Dew Point (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)
London (Kew)	95·1	+22	SW	4	zo	42	75	36	6	8	-	-	4-6	4-6	1500
Croydon	96·0	+14	SW'S	5	zo	41	85	37	6	3	-	3	7-8	9	1500
S. Farnborough	95·8	+22	SSW	4	c-bc	41	85	36	7	9	-	3	4-6	7-8	1300
Boscombe Down	95·4	+26	SW'S	4	bc	40	65	33	8	3	-	3	4-6	4-6	2000
Thorney Island	96·3	+22	SW	3	tlro	42	85	37	7	9	-	3	4-6	10	1500
Lympne	97·8	+20	SSW	5	bco/pr	41	85	37	7	3	-	-	4-6	4-6	1000
Manston	97·1	+22	SW'S	5	c/pr	39	97	39	6	3	-	-	8	9	1000
Shoeburyness	96·8	+28	SW	4	c-bc/pr	42	85	37	7	3	-	-	7-8	7-8	1500
Felixstowe	95·3	+24	S'W	5	bc	48	85	37	7	8	-	2	4-6	4-6	1500
Gorleston	93·2	+28	SSW	4	b-bc	41	85	36	7	5	-	-	2-3	2-3	2000
Mildenhall	93·2	+22	SSW	3	bc	41	75	35	8	4	-	3	2-3	4-6	4000
Cranwell	90·4	+30	SW'S	6	b-bc	39	85	35	7	-	6	3	0	2-3	-
Birmingham	90·8	+20	SSW	4	c-bc	38	85	34	7	8	=	3	4-6	7-8	1500
Upper Heyford	92·8	+26	SW'S	4	c-bc	38	92	36	8	9	6	3	4-6	7-8	1500
Ross-on-Wye	91·6	+16	SW	4	bc	38	85	34	8	8	-	3	2-3	4-6	2500
Hartland Point	89·5	-6	W	6	c/pr	45	75	36	8	9	-	9	7-8	9+	1000
Bristol	93·8	+22	WSW	3	pro	37	92	35	7	8	-	-	10	10	1500
Portland Bill	94·8	+12	SW	6	c/ps	46	92	44	7	5	-	-	10	10	2500
Plymouth	92·4	+6	SW	7	bc/pr	46	85	40	7	3	6	3	4-6	4-6	2000
The Lizard	93·1	+10	W'N	6	PS	42	85	38	8	9	-	-	10	10	1000
Scilly (St. Mary's)	91·2	+10	SW	5	c/pr	42	92	39	8	8	6	-	7-8	9	1500
Guernsey															
Pembroke	86·9	+6	SW	8	cjp	45	85	40	7	8	-	-	9+	9+	2000
Holyhead (Valley)	85·1	+22	SW	6	c/pr	40	92	38	7	2	6	-	9	9	1500
Chester (Sealand)	86·7	+30	SW	1	bc	42	65	32	8	4	3	-	4-6	4-6	3000
Manchester	87·6	+28	S'W	5	c-bc	39	85	35	7	3	6	-	4-6	7-8	2500
Spurn Head	88·7	+20	SW	6	bc	41	75	34	7	4	3	-	2-3	4-6	1500
Catterick	85·0	+12	SW	4	zo	39	75	33	6	8	6	-	4-6	7-8	1200
Tynemouth	83·0	+24	SW	4	bc/pr	42	92	39	7	2	-	-	4-6	4-6	2500
St. Abbs Head	78·2	+14	SW	4	c-bc	39	92	36	7	5	-	-	7-8	7-8	2500
Leuchars	76·8	+26	SW	4	c	41	75	34	7	8	7	-	7-8	9+	2000
Renfrew (Abbots I.)	78·2	+20	SW'S	4	c-bc/pr	41	75	34	7	8	6	-	4-6	7-8	1600
Eskdalemuir	80·4	+20	SW	3	c-bc	37	85	32	8	5	7	-	7-8	7-8	1800
Point of Ayre	82·1	+20	SW	3	b-bc	40	85	35	8	3	-	-	2-3	2-3	2500
Tiree	74·0	+30	W'S	4	c/phr	39	85	35	8	9	2	3	4-6	9	1500
Stornoway	69·1	+10	SSW	6	c	43	85	39	8	3	6	-	7-8	9-	2200
Dalwhinnie	74·5	+20	SW	3	prs	34	92	32	6	5	-	-	10	10	1500
Aberdeen	75·2	+36	SW	4	c	41	75	33	8	4	7	-	1	9+	2500
Wick	71·3	+22	SSW	3	c-bc	40	85	36	8	5	-		7-8	7-8	3000
Sumburgh	65·0	-30	SSW	4	roro	43	97	42	6	5	2	-	9	10	1000
Blacksod Point	75·9	+10	SSW	6	bc/r	41	75	34	8	9	-	-	4-6	4-6	1500
Malin Head	76·3	+32	SSW	4	c-bc/r	37	85	33	8	8	-	-	7-8	7-8	1500
Aldergrove	79·7	+12	SW'S	4	bc	37	85	33	9	4	2	-	4-6	4-6	1200
Birr Castle	82·0	+6	S	2	b-bc	37	85	33	8	5	-	-	2-3	2-3	2500
Valentia Obsy.	82·2	+6	SW'W	5	c-bc/pr	42	65	31	8	3	-	-	7-8	7-8	2500
Roches Point	84·5	+2	W'S	5	PR	43	92	41	7	3	-	3	4-6	7-8	1500

PAST 24 HOURS.

Stations	State of Ground 0–9 (31)	Sea 0–9 (32)	Weather 7h.—13h. 30th (39)	Weather 13h.—18h. 30th (40)	Weather 18h. 30th to 1h. 31st (41)	Weather 1h.—7h. 31st (42)
London (Kew)	1	*	KqRhb,c	kqrhrocbc	q Rrroc	crorror
Croydon	1	*	cmcmirobcc	ompr	cPRmororo	bcmorrmo
S. Farnborough	2	*	cp,RQpRmrbc	cpRhprprc	cb,cPRHrmo	cdromrR
Boscombe Down	1	*	cpmrq,cpr	cpRprbcr	cprmbcmo	crr,c,RRrr
Thorney Island	1	*	corqc	cphqctlr	ctlr prc	cproro
Lympne	1	6	Prprh	bcprhq	bcprhqc	cirormo
Manston	1	*	cprmo	bcprq	bbcmo	bcpromo
Shoeburyness	1	*	cRpqc	bcPr	bcprmoc	crormo
Felixstowe	1	4	cmoprc	cphc	clprocphcq	cphr,b,cir
Gorleston	1	4	cbcprcq	cirb	bbcbql	bbccq
Mildenhall	2	*	bccprbc	bc	bcbcmocb	bccroro
Cranwell	1	*	bcprbc	bcb	b	b,cirororrr
Birmingham	1	*	cprq	prproc	bcpro	corr
Upper Heyford	1	*	pRcph	cPr	cob	crorom
Ross-on-Wye	1	*	irqhro	rqcrc	bc	cqrrq
Hartland Point	1		prPhr		cbc	cirrr
Bristol	2	*	cpRq,cph,pr	cprproc	cprobcb	bc,crorom
Portland Bill	1	5	cprc	crp		
Plymouth	1		ptlrhc		bccproc	crrmo
The Lizard	1		prhrc	ptlrh	cprrr	orrq
Scilly (St. Mary's)	1		cphqc		clpo	crrc
Guernsey						
Pembroke	1	3	cpirq	cPhrq	ciroq	crrq
Holyhead (Valley)	1	6	cjp	cphcpro	cprob	bccrrmo
Chester (Sealand)	1	*	cPrbc	c,bcpro	bcprb	cmorr
Manchester	1	*	pRqc	cprobc	cpro	PRcrr
Spurn Head	0	5	cprbc	c	bc	crrmo
Catterick	1	*	crrmc	crrocmo	pr	bcprorrmo
Tynemouth	1	3	coirbccq	cqp	bc	bco
St. Abbs Head	1	4	cmrr	crobcc	bc	bpbcc
Leuchars	1	*	cidrrmcirc	cprc	cprq,bc,b	b,bc,c
Renfrew (Abbots I.)	1	*	crroprc	cproq	bccbc	bccmo
Eskdalemuir	1	*	crsRro	cpsproc	cprh	cpriro
Point of Ayre	0	4	rorcb	bbccb	b	cprrr
Tiree	2	5	rRrrcprc	phrpRpRhq	crc	cprbcc
Stornoway	1	4	crororoc	ceproc	bccl pro	bcprocpr
Dalwhinnie	1	*	cprsc	crsrso		oprsbc
Aberdeen	1	3	rrcrrirmo	iroc	bc	cbc
Wick	1	*	c	crroc	cbc	b
Sumburgh	1	3	crroiro	crrmo	c,b,c.	cbcc
Blacksod Point	1	5	pr	r	bc	bc
Malin Head	2	4	pr	pr	r	c
Aldergrove	1	*	c	cprobc	bcb	ccroso
Birr Castle	1	*	pr	bc		pr
Valentia Obsy.	1	5	tlr	tlr	pr	pr
Roches Point	1	5	pr	pr	pr	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 31st January 1943

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales	South to southwest gale, veering Southwest to west, severe at times especially on parts of the coast, beginning to moderate tonight; dull with occasional rain at first, then showers and bright periods; hail and thunder likely locally; rather mild at first, then colder.
8 N.W. England; 9 N. Midlands	Wind variable moderate to strong, finally southwest to west fresh to strong; dull, rainy today then bright intervals with showers of rain & hail, with thunder locally; rather cold
10 N.E. England; 11 S.E. Scotland	Southerly gale severe locally, veering southwest moderating tomorrow, dull; some rain, sleet and snow; bright intervals and wintry showers tomorrow; cold.
12 S.W. Scotland & Isle of Man	As 8-9.
13A W. Scotland; 13B N.W. Scotland	Wind becoming rather variable, light to fresh; fair periods; some sleet or snow mostly as showers; rather cold.
14 Mid Scotland; 15 N.E. Scotland	Wind southeast to South increasing to strong to gale; becoming dull, with some snow, sleet, and rain; cold.
16 Orkneys and Shetlands	As 14-15.
17 N.W. Ireland	As 20.
18 N.E. Ireland; 19 S.E. Ireland	Winds northeast to north moderate, strong at first on coast, finally westerly; some rain or sleet at first, then showers of rain or hail with thunder locally; rather cold.
20 S.W. Ireland	Moderate southwest to west winds, fresh locally; bright periods; showers of rain or hail; rather cold with frost inland at night

GENERAL INFERENCE

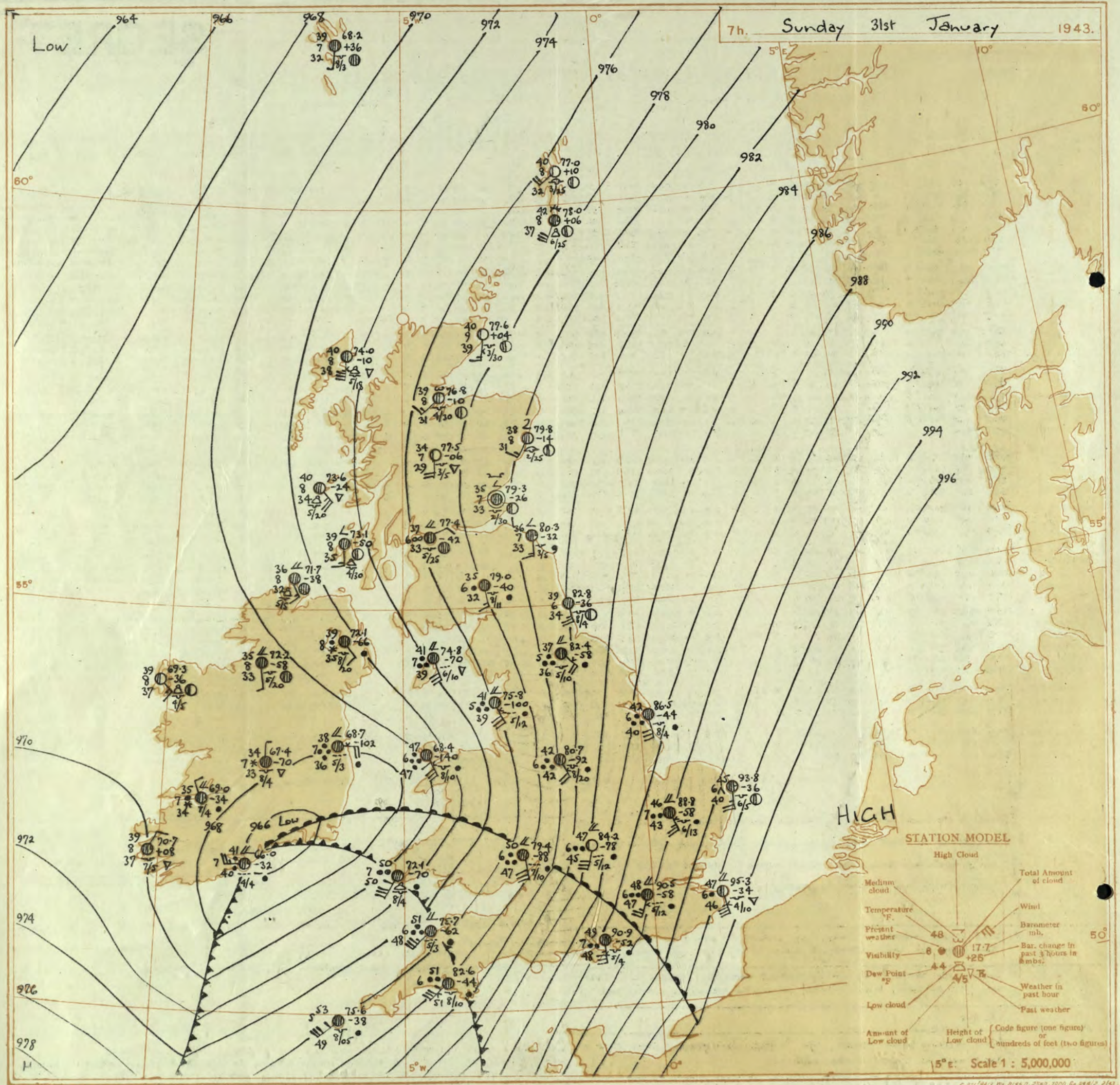
An intense depression over the Irish Sea is moving quickly northeast and will turn on a northerly course accompanied by severe gales in many parts of England and Wales and stormy conditions generally. Some snowfall is expected in Scotland.

FURTHER OUTLOOK

Continuing unsettled generally. Rather cold, showery conditions with bright periods.
Warning of southerly gale in operation in districts 15 & 16. Warning of southerly gale becoming northerly in operation in districts 2, 10, 11. Warning of severe southerly gale becoming northerly in operation in districts 1, 5, 6, 7, 8.
Times of issue 2240, 30th Jan; 0208 30th Jan; 0415 31st Jan; 1200 31st Jan.

Forecasts issued at 10·30

N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, N.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown below).

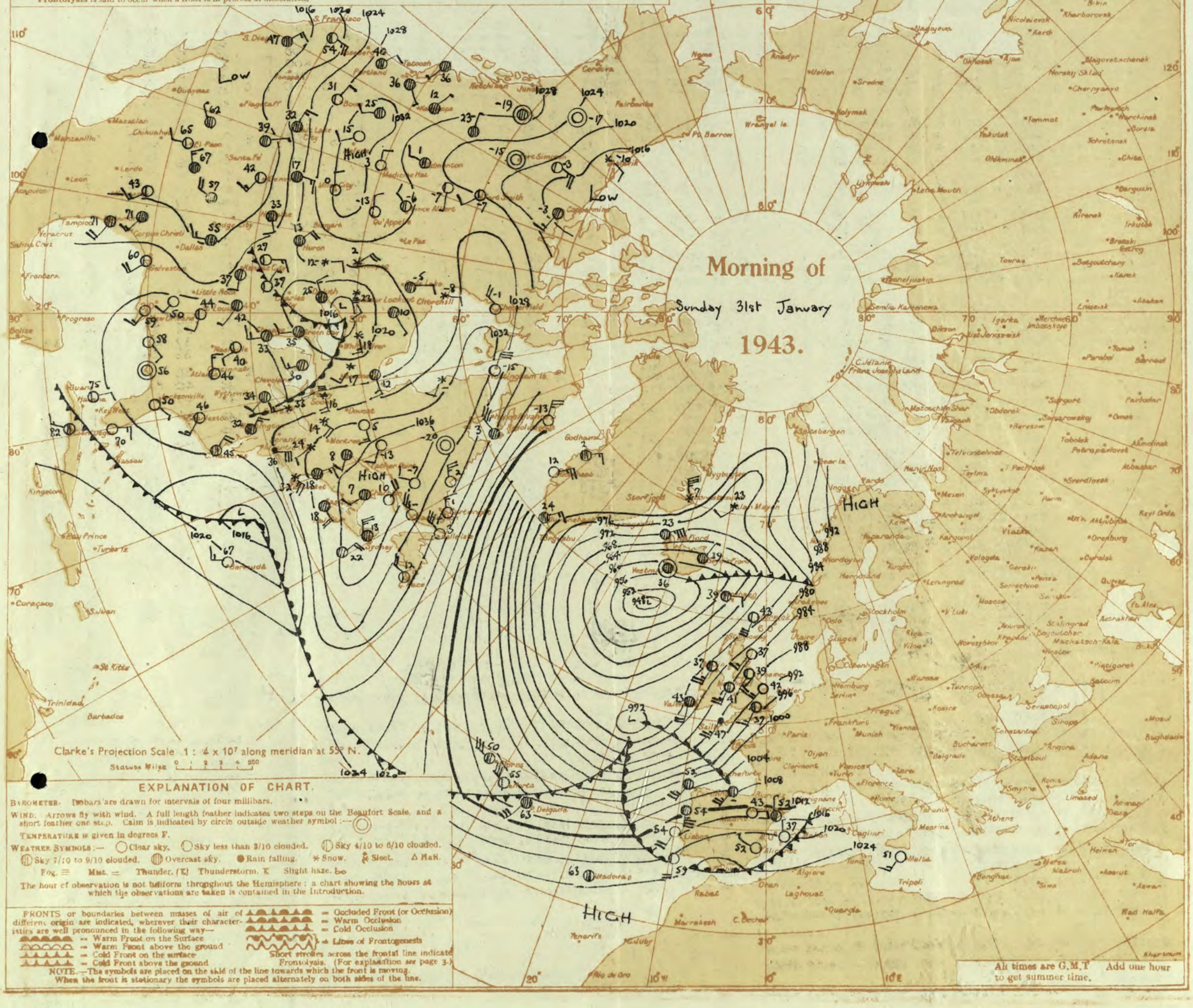
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin. In certain cases the boundary is not recognisable at the surface, but its existence is deduced from upper air observations. Such boundaries are indicated by special symbols.

Occlusion. The air between the warm and the cold fronts of a depression is of tropical or sub-tropical origin, and is known as the warm sector. The air in front of the warm front and in the rear of the cold front is of polar or maritime polar origin. During the life-history of the depression the warm sector is lifted from the earth's surface, until the cold front has overtaken the warm front. The depression is then said to be occluded, and at the surface the warm and cold fronts coalesce, becoming a single front known as the occluded front or occlusion. Occlusions the structure of which is tending to resemble warm or cold fronts are known as "warm" or "cold" occlusions.

Frontogenesis. A line along which a warm or cold front is in process of formation is known as a line of Frontogenesis. The nature of the development is indicated by the use of the "warm" or "cold" symbols widely spaced along the line.

Frontolysis is said to occur when a front is in process of dissolution.



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.

FRONTS or boundaries between masses of air of different origin are indicated, wherever their characteristics are well pronounced in the following way—

- Warm Front on the Surface
- Warm Front above the ground
- Cold Front on the surface
- Cold Front above the ground
- Occluded Front (or Occlusion)
- Warm Occlusion
- Cold Occlusion
- Lines of Frontogenesis

Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

NOTE.—The symbols are placed on the side of the line towards which the front is moving. When the front is stationary the symbols are placed alternately on both sides of the line.

BRITISH SECTION

THE DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE, AIR MINISTRY, LONDON.

Sunday, 31st January 1943

No 29655

OBSERVATIONS at 1 hr. G.M.T. 31st January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	41	*	*	*	*	*	*	*	*	*
	Croydon	290	98·1	-4	SSW	3	b-bc	39	97	39	6	2	–	–	2-3	2-3	2000
	S. Farnborough	226	96·5	-8	S	4	bc/r	40	97	40	6	3	6	3	2-3	4-6	2000
	Boscombe Down	417	95·5	-10	SSW	5	bc	42	85	39	7	–	6	3	0	4-6	–
	Thorney Island	10	97·4	+6	SWS	5	b-bc	47	85	41	7	2	–	–	2-3	2-3	2500
	Lympne	283	99·5	+2	SW	5	bc	44	85	40	7	2	–	–	4-6	4-6	1000
	Manston	154	99·1	+2	SW'S	6	z0	45	85	39	6	3	–	–	Tr	Tr	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	97·9	+6	SSW	6	phr	42	92	39	6	9	–	–	9	9	1400
	Gorleston	5	96·9	+8	S'W	5	z0	42	85	36	6	–	–	–	0	0	–
	Mildenhall	15	95·1	0	SSW	5	b	40	85	35	7	5	–	–	1	1	2500
	Cranwell	203	92·9	+2	SSW	5	b	39	85	35	7	–	–	–	0	0	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	93·7	+2	SW	4	b-bc	38	92	35	7	–	6	–	0	2-3	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	89·8	-12	SW	6	c	45	75	38	7	5	2	–	7-8	9+	2500
	Bristol	209	93·9	-2	SW'W	3	bc	43	85	38	7	4	–	6	Tr	4-6	2500
	Portland Bill	32															
	Plymouth	82	93·0	-16	SW'S	6	e/pr	49	85	45	7	8	–	–	10	10	2000
	The Lizard	240	90·8	-34	SW'W	6	rr	48	92	46	7	5	–	–	10	10	1000
	Scilly (St. Mary's)	163	87·3	-48	SSW	5	ir	47	92	45	7	8	–	–	10	10	1000
	Guernsey	175															
6	Pembroke	142	88·3	-4	SSW	7	pr	44	97	44	7	5	–	–	7-8	7-8	1500
7	Holyhead (Valley)	32	86·5	+2	SSW	5	bc	41	85	37	8	8	–	–	4-6	4-6	2500
	Chester (Sealand)	16	88·6	+2	S	1	b	39	85	35	7	5	–	–	Tr	Tr	2500
8	Manchester	235	90·1	-2	S	5	z0	39	85	35	6	4	–	–	4-6	4-6	4000
10	Spurn Head	29	92·7	+10	SSW	5	b-bc	40	85	36	7	4	–	–	2-3	2-3	1500
	Catterick	175	88·5	+14	SSW	4	pr0	38	85	34	7	2	–	–	2-3	2-3	2000
	Tynemouth	108	86·8	+20	SW	4	b-bc	39	75	32	6	2	–	–	2-3	2-3	2500
11	St. Abbs Head	280	83·3	+8	SSW	4	c	37	92	35	7	5	–	–	2-3	10	2500
	Leuchars	36	82·1	+14	SSW	3	b	37	85	32	8	–	–	–	0	0	–
12	Renfrew (Abbots I.)	19	81·7	+6	S	1	bc	38	85	34	7	8	–	–	4-6	4-6	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	83·8	+8	WSW	4	b	39	75	32	8	4	–	–	Tr	Tr	2500
13A	Tiree	44	76·4	+4	SW	6	c-bc	41	85	36	8	9	4	1	7-8	7-8	2000
13B	Stornoway	15	74·9	+2	SSW	6	e/pr	39	97	38	8	3	6	1	4-6	9	2200
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	81·4	+24	SSW	3	b-bc	37	85	32	7	–	7	–	0	2-3	–
	Wick	114	77·1	+30	SW	2	bc	40	85	35	8	5	–	–	4-6	4-6	3000
16	Sumburgh	19	75·0	+26	SW'S	6	c	44	85	40	8	5	–	–	9	9	1800
17	Blacksod Point	18	76·3	-14	S'W	5	b-bc	41	75	33	8	8	–	–	2-3	2-3	2500
18	Malin Head	84	77·4	+2	SSW	5	bc	37	85	33	8	8	–	–	4-6	4-6	2500
	Aldergrove	268	81·4	+6	S'W	3	b	34	85	31	8	5	–	–	Tr	Tr	1500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	77·4	-50	W	4	e/pr	43	75	35	8	8	–	–	10	10	2500
	Roches Point	22	82·6	-30	W'S	5	pr0	44	92	42	7	3	–	–	9	9	1500

OBSERVATIONS at 7 hr. G.M.T. 31st January

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	90·3	-50	SSW	6	cq	48	92	46	6	6	2	–	7-8	10	800	1	*
Croydon	90·5	-58	SSW	5	ir	48	92	47	6	6	2	–	7-8	10	1200	1	*
S. Farnborough	88·9	-54	S'W	6	RR	48	97	47	6	5	–	–	10	10	1300	2	*
Boscombe Down	86·3	-54	S	8	RR	47	97	47	5	5	2	–	7-8	10	800	1	*
Thorney Island	90·9	-52	S	7	r0r0	49	97	48	7	5	–	–	7-8	10	1500	1	*
Lympne	95·1	-36	S	6	rr	47	92	46	6	5	2	–	7-8	10	1500	1	§6
Manston	95·3	-34	S	7	ir0	47	97	46	6	5	2	–	4-6	7-8	1000	1	*
Shoeburyness	94·4	-40	S	6	r0r0	48	92	45	6	5	–	–	10	10	1500	1	*
Felixstowe	93·0	-42	SSE	7	ir0	46	85	43	6	5	2	–	9	10	2300	1	5
Gorleston	93·8	-36	S	5	cq	45	85	40	6	5	–	–	9	9	2500	0	5
Mildenhall	88·8	-58	SSE	5	r0r0	46	92	43	7	5	2	–	9	10	1300	1	*
Cranwell	85·0	-74	S'E	6	rr	42	97	42	6	5	–	–	7-8	10	600	1	*
Birmingham	79·7	-94	SSE	5	rr	45	92	43	6	6	–	–	10	10	800	1	*
Upper Heyford	84·2	-78	S'W	6	r0r0	47	92	45	6	6	2	–	7-8	10	1200	1	*
Ross-on-Wye	79·4	-88	S	6	rr	50	92	49	6	6	2	–	9+	10	1000	1	*
Hartland Point	75·7	-62	SW	7	rr	51	92	48	6	6	2	–	7-8	10	800	1	5
Bristol	82·8	-64	S	6	rr	49	97	49	5	6	2	–	9	10	800	2	*
Portland Bill																	
Plymouth	82·6	-44	SW	8	r0r0	51	97	51	6	5	–	–	10	10	1000	1	5
The Lizard	79·5	-44	WSW	9	rr	53	92	51	6	5	–	–	10	10	1000	1	6
Scilly (St. Mary's)	75·6	-38	SW'S	8	e	53	85	49	5	5	–	–	10	10	500	1	6
Guernsey																	
Pembroke	72·1	-70	SSW	8	r0r0	50	97	50	7	8	–	–	10	10	1500	1	5
Holyhead (Valley)	68·4	-140	S'E	8	RR	47	97	47	6	5	–	–	10	10	1000	2	
Chester (Sealand)	76·0	-102	SSW	3	rr	43	85	41	6	6	–	–	10	10	1100	1	*
Manchester	77·7	-100	SSE	6	RR	43	85	40	6	6	2	–	2-3	10	1200	2	*
Spurn Head	86·5	-44	S'E	6	rr	42	92	40	6	5	–	–	10	10	1500	1	5
Catterick	82·4	-58	SE	4	rr	37	97	36	5	5	2	–	7-8	10	1000	1	*
Tynemouth	82·8	-36	S	5	o	39	85	34	6	5	–	–	10	10	1500	1	3
St. Abbs Head	80·3	-32	S	3	c	36	92	33	7	5	1	–	2-3	9+	2500	1	3
Leuchars	79·3	-26	—	0	c	35	92	33	7	5	1	7	1	10	3000	1	*
Renfrew (Abbots I.)	77·4	-42	EN	2	z0	37	85	33	6	5	2	–	7-8	10	2500	1	*
Eskdalemuir	79·0	-40	SSE	3	ir0	35	92	32	6	5	–	–	10	10	1100	1	*
Point of Ayre	74·8	-70	SSE	6	rr	41	92	39	7	6	2	–	9	10	1000	1	4
Tiree	73·6	-24	SE	5	c-bc	40	75	34	8	8	–	–	7-8	7-8	2000	1	5
Stornoway	74·0	-10	S	7	e/pr	40	92	38	8	8	–	–	7-8	7-8	1800	1	
Dalwhinnie	77·5	-6	S	4	b-bc	34	85	29	7	5	–	–	2-3	2-3	2500	3	*
Aberdeen †	79·8	-14	SW'S	3	c-bc	38	75	31	8	4	–	–	1	1	2500	1	2
Wick	77·6	+4	S	3	b-bc	40	65	39	9	5	–	–	2-3	2-3	3000	1	*
Sumburgh	78·0	+6	SSW	6	c	42	85	37	8	2	6	–	9	9+	2500	1	4
Blacksod Point	69·3	-36	SSE	3	bc	39	92	37	8	8	–	–	4-6	4-6	2500	1	3
Malin Head	71·7	-38	S'E	3	c	36	85	32	8	8	2	–	7-8	10	2500	2	3
Aldergrove	72·1	-66	SSE	2	rs0	39	85	35	8	5	–	–	10	10	2000	1	*
Birr Castle	67·4	-70	N	1	s	34	97	33	7	5	–	–	10	10	1500	1	*
Valentia Obsy.	70·7	+8	NEN	2	c/r	39	92	37	8	5	–	–	9+	9+	2500	1	3
Roches Point	66·0	-32	W	5	ir	41	97	40	7	6	2	–	4-6	9+	1500	1	6

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 30th Hrs. (38)
London (Kew)	49	40	34	5	1	1·8
Croydon	50	38	34	2	16	1·9
S. Farnborough	49	38	33	5	16	2·5
Boscombe Down	49	36	33	3	9	3·1
Thorney Island	50	41	33	3	5	*
Lympne	49	39	36	3	3	3·1
Manston	51	38	33	1	2	2·2
Shoeburyness	51	40	35	3	4	4·3
Felixstowe	50	40	37	2	2	3·[illegible]
Gorleston	52	39	34	1	–	3·5
Mildenhall	52	36	33	1	Tr	3·2
Cranwell	47	42	35	3	2	3·0
Birmingham	49	36	33	3	7	1·6
Upper Heyford	46	37	34	7	4	*
Ross-on-Wye	48	37	34	4	13	0·4
Hartland Point	46	38	37	3	9	0·5
Bristol	45	37	34	9	11	1·6
Portland Bill	50		*	4		*
Plymouth	47	40	38	6	14	2·5
The Lizard	47	48	*	3	8	2·7
Scilly (St. Mary's)	50	42	*	3	7	2·5
Guernsey						
Pembroke	47	39	*	2	17	1·0
Holyhead (Valley)	47	38	37	3	14	*
Chester (Sealand)	48	37	33	2	12	3·8
Manchester	47	36	34	7	6	*
Spurn Head	47	38	*	1	1	3·7
Catterick	46	40	33	9	1	2·8
Tynemouth	48	37	33	2	–	*
St. Abbs Head	49	34	*	4	0·2	*
Leuchars	45	35	28	2	0·1	0·0
Renfrew (Abbots I.)	46	36	30	1	–	0·1
Eskdalemuir	43	33	30	8	3	0·7
Point of Ayre	46	38	*	3	4	9·1
Tiree	45	38	35	14	1	0·3
Stornoway	47	35	33	7	6	0·3
Dalwhinnie	40	33	31	9	5	0·0
Aberdeen †	45	37	32	4	–	0·0
Wick	46	38	34	Tr	–	*
Sumburgh	46	39	36	10	2	0·0
Blacksod Point	46	38	*	2	2	*
Malin Head	44	34		3	–	1·7
Aldergrove	46	33	29	1	Tr	0·8
Birr Castle	42	33	31	2	8	1·7
Valentia Obsy.	44	38	34	2	9	1·0
Roches Point	44	41	*	4	11	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 30th January ... 18h. G.M.T. — 01h. G.M.T. 31st January ... 07h. G.M.T.

III	13h $C_L C_M$	13h $wwVhN_h$	13h DDFWN	18h $C_L C_M$	18h $wwVhN_h$	18h DDFWN	01h $C_L C_M$	01h $wwVhN_h$	01h DDFWN	07h $C_L C_M$	07h $wwVhN_h$	07h DDFWN
109	52	22645	45668	52	02754	18424	5-	01743	51513	5-	01754	50614
115	52	81735	49688									
203				8-	82837	16687						
206	6-	64848	18568	87	25854	20387	50	01763	53683	53	01864	20314
210	37	02753	18426	57	02864	20427	97	02863	19313	57	02864	08215
220										80	02945	17585
230	3-	27856	20486	92	81754	51588	30	01853	18403	30	02961	16115
245	82	61654	17467	89	05663	18487	40	01762	51412	57	01763	16314
260	67	22745	20568	17	02753	53525	00	00790	53500	00	00790	20120
278	87	02845	23387	87	02854	21426	50	01853	18413	5-	61648	12488
279	23	02854	21425	36	02845	22586	9-	89737	51587	52	05655	14488
285				37	26624	24685						
288	96	02755	51596	46	25754	15485				02	61758	46518
575	53	10855	17427	87	02845	18227	5-	02848	18228	52	02855	16128
301	86	02855	55586	86	01754	54597	40	05663	17583	62	64545	47668
321												
[illegible]	8-	02755	18515	50	01653	20503	50	01753	22503	5-	62658	22669
292	26	22654	55596	36	05653	18414	00	05696	18310	62	64624	49468
310	--	02626	20426									
614	87	05647	22514	54	05643	51516	00	05690	18423	62	62545	49568

III	13h $C_L C_M$	13h $wwVhN_h$	13h DDFWN	18h $C_L C_M$	18h $wwVhN_h$	18h DDFWN	01h $C_L C_M$	01h $wwVhN_h$	01h DDFWN	07h $C_L C_M$	07h $wwVhN_h$	07h DDFWN
333	86	25865	53586	9-	27747	53487	83	05644	20488	62	62634	49768
334												
340	56	55744	55687	9-	86738	55688	54	01851	53413	62	64648	49668
136	53	02757	20687	07	02790	53513	06	01890	18514	52	64645	16668
336	52	33644	28468	57	41656	20478						
350	3-	01845	52425	36	81753	53483	40	05653	50423	5-	64644	48868
368	5-	81538	57588	83	25644	22385	50	00763	53583	62	64646	53768
379	3-	81737	53687				50	01753	22413	5-	64648	49768
390	2-	25656	52586	00	08496	19492	54	08461	51512	62	64446	49768
382	96	81845	57687	34	25853	19484	50	01753	16314	5-	62638	50768
438	8-	27745	22785	8-	02745	22725	82	02745	22728	8-	64648	20868
430	8-	02745	52585	9-	93636	55396	50	05643	53583	5-	62658	51768
409	9-	81856	55887	36	02853	18796	8-	81758	50698	52	64646	18968

III = Index Number of Station—See Index Chart in Introduction.
ww, W = Present and past weather—See M.O. 252.
h, N_h = Height and amount of low cloud—See Introduction.
N = Total amount of cloud—See Introduction.
$C_L C_M$ = Form of low and medium cloud—See Introduction.
V = Visibility. F = Force of wind—See Introduction.
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

§ See disturbance reported from Dungeness. † 01h. observations from Dyce.

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 31st January
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	KqRhbc	Kqrhr0cbc	qRrr0r
Croydon	cm0cmi0bc	cm0pr0	cRm0rrm0
Greenwich	bchptlq	bcp0qb	berrq
Camden Square	cor	orth	*
Kensington	cprpht	cr	*
Hampstead	bcor	or	or

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·1, Time 14-21h 30th. Min. Lo·1, Time rest of period.

Stations	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 % Yesterday	Humidity 9h % To-day
Kew	49	40	34	5	1	1·8	*	*
Croydon	50	38	34	2	16	1·9	*	*
Greenwich	51	37	32	1	15	2·6	64	88
Westminster	51	40	36	12			78	93
Regents Park								
Camden Square	49	39	35	5	9	*	*	87
Kensington	50	38	34	4	8		88	87
Hampstead	48	36	33	1	10		*	94