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THE DAILY WEATHER REPORT

BRITISH SECTION

1st October to 31st December

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.

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 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.			

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.

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	1½ miles
5	Poor visibility	2½ ,,
6	Moderate ,,	6½ ,,
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.

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.

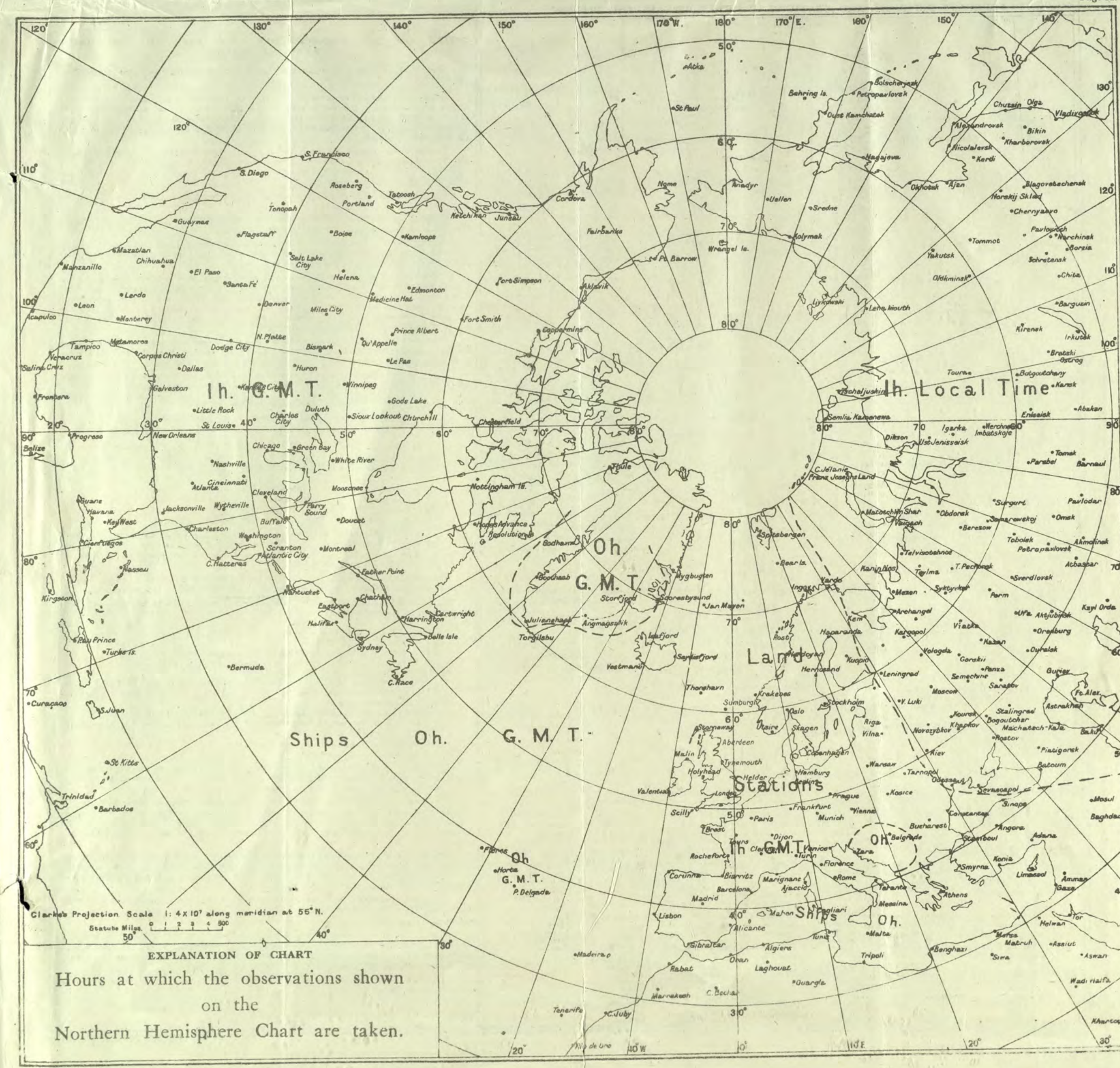
For gales commencing from East or West the South Cone will be hoisted if the gale is expected to change to a Southerly direction.

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 to the plot of ground on which the rain gauge is situated.

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

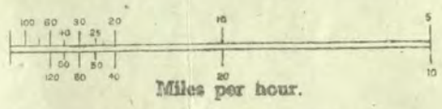
The wind at a height of 1,500–2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the upper wind is about 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 ,, ,, $1 : 5 \times 10^6$,,



Miles per hour.

This scale applies under the following conditions:—

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

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

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

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

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

$x = f - .444\,(t - t')$ 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, MO, Dunstable.

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THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON

MONTHLY SUPPLEMENT, NOVEMBER 1943 No. 323

UNSETTLED - FAIR INTERVAL DURING THIRD WEEK.

Conditions during the first day or two were generally unsettled; the complex low over the southwestern districts moving slowly east, and filling up. Pressure became rather uniform over the whole country and there was considerable fog during the night 3rd-4th particularly in the east and south-east.

Rain associated with the passage of a trough from the Icelandic depression affected the western seaboard on 6th and moved slowly southeast. The unstable cold air in the rear of the trough gave rise to showers, mostly of a wintry type in the north, and were accompanied by thunder in eastern districts. Temperatures in general were considerably lower than of late; screen frosts being experienced for the first time in the month.

Another trough crossed the country during the 8th-9th, but precipitation was mainly slight. The rapid movement of a disturbance across N.W. Scotland gave gales and rain in the west and north on the 10th and 11th, but fair conditions continued in the south with local fog.

There were gales in the North, and widespread precipitation, although amounts were small, in the South on the 12th, during the passage south-east of a disturbance from Iceland. In the very cold northerly current in the rear of this depression, there were gales and widespread wintry precipitation and local thunderstorms.

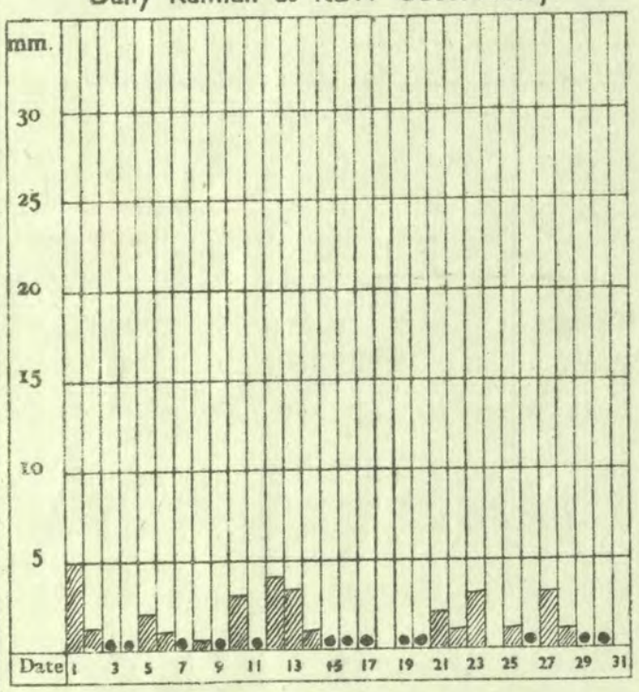
On the 16th an anticyclone became well-established on the Atlantic, and most of the country came under this influence by the 17th, although weak troughs of low pressure moved eastwards across the northern half of the country during the 17th, 18th, and 19th, giving scattered wintry showers, with thunder in places. Widespread fog developed during the 19th and persisted during the 20th; being dense in some areas in the south.

Troughs of low pressure associated with a disturbance North-east of Iceland, moved east then southeast across the country on 22nd, and local rain and drizzle were general, with fog in many areas.

Very disturbed conditions prevailed during the 23rd and 24th when a deep depression crossed Scotland: There were gales in many places in the North and west and considerable rainfall; falls being heavy in Southern Scotland. A fair interval ensued during the 25th and 26th although some scattered showers were reported, of a wintry type in the North. Rainfall was again general during the 28th and 29th, followed by wintry precipitation of a showery type on the 30th.

Despite the general character of the month, rainfall with very few exceptions was below average. Departures from normal of sunshine were irregular; Renfrew with 67 hours attaining a new high record and Valentia with 32 hours created a new low record for the month.

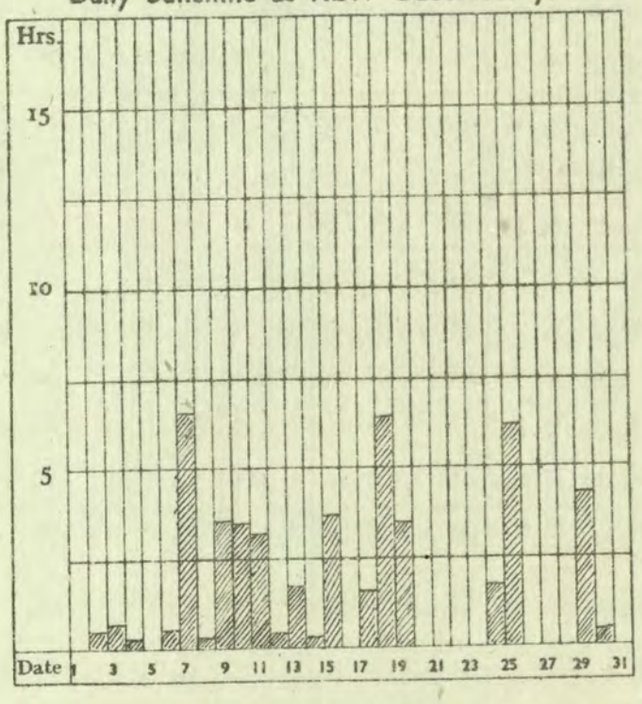
Daily Rainfall at KEW Observatory.



● = less than 0·5 mm.

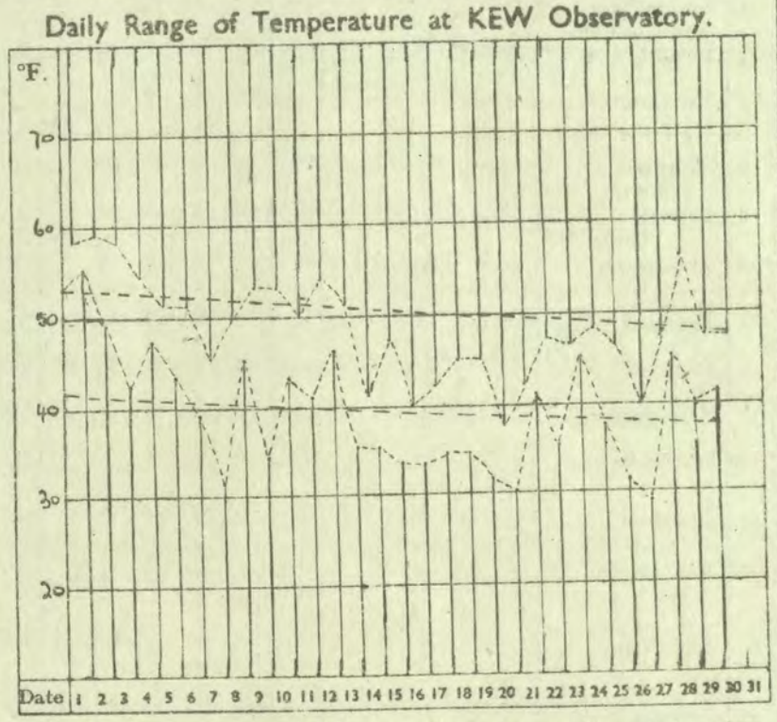
RAINFALL. Total for Month. 33 mm.

Daily Sunshine at KEW Observatory.



SUNSHINE. Total for Month. 48 hrs.

Daily Range of Temperature at KEW Observatory.



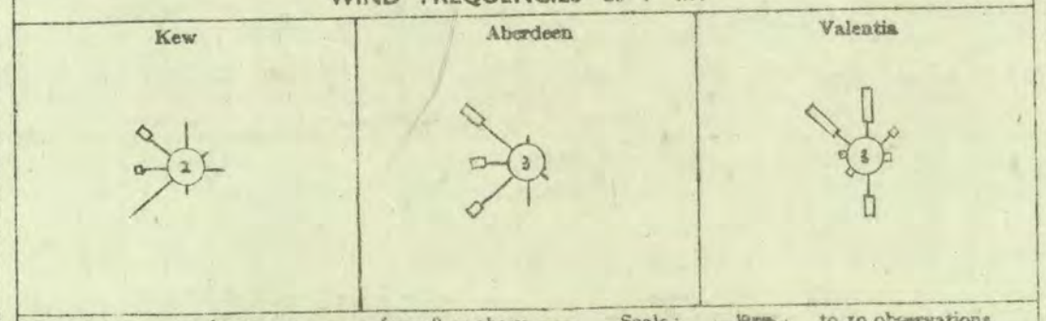
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.*

STATIONS.	PRESSURE Mean	PRESSURE Difference from average	TEMPERATURE Mean	TEMPERATURE Difference from average
	mb	mb.	°F.	°F.
Kew	1015·7	+ 1·1	43·7	− 0·6
Aberdeen	1010·9	+ 1·1	42.3	0.0
Valentia	1020·1	+ 7·1	48.5	+ 1·0

* 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; ┊┊┊ 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 ...	5,894
Aberdeen ...	6,911
Lerwick ...	13,755
Valentia ...	

SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

District	Stations	† Temperature. Number of daily readings within fixed limits. Maximum 33°–41°	Maximum 42°–50°	Maximum 51°–59°	Maximum 60°–68°	Average Maximum.	Minimum 23° or below	Minimum 24°–33°	Minimum 33°–41°	Minimum 42°–50°	Minimum 51°–59°	Average Minimum.	Extremes—Warmest and Coldest. Days. Highest Max.	Days. Date.	Days. Lowest Max.	Days. Date.	Nights. Highest Min.	Nights. Date.	Nights. Lowest Min.	Nights. Date.	Number of Ground Frosts.	Low Cloud. Number of observations within fixed limits. 7 h. Below 1,000 ft.	7 h. 1,000–5,000 ft.	7 h. 5,000–8,000 ft.	13 h. Below 1,000 ft.	13 h. 1,000–5,000 ft.	13 h. 5,000–8,000 ft.	18 h. Below 1,000 ft.	18 h. 1,000–5,000 ft.	18 h. 5,000–8,000 ft.	Fog, Mist and Good Visibility. Number of observations within fixed limits. 7 h. Dense fog.	7 h. Thick fog.	7 h. Fog.	7 h. Mist.	7 h. Good Visibility.	13 h. Dense fog.	13 h. Thick fog.	13 h. Fog.	13 h. Mist.	13 h. Good Visibility.
						°F.						°F.	°F.		°F.		°F.		°F																					
1	London ... (Kew Obsy).	4	15	11	0	48.6	0	5	14	9	2	40.0	59	2	37	20	55	2	29	27	13	3	27	0	1	27	1	4	19	0	1	2	6	4	1	0	0	2	1	6
	Croydon ...	5	13	12	0	49.1	0	7	13	8	2	39.4	59	2,3	34	20	55	2	28	20	8	7	16	0	4	23	1	4	20	0	2	1	4	5	3	1	0	2	5	3
	Thorney Island	0	15	12	3	50.2	0	7	9	10	4	41.5	63	2	42	16	54	1,2,3	28	20,21,27	13	5	20	0	2	20	0	1	18	0	0	0	1	2	11	0	0	1	0	17
	Lympne ...	4	16	10	0	47.9	0	6	13	8	3	39.4	58	3	40	14,16,17,18	54	2	30	27	13	7	18	0	4	21	0	4	15	1	0	1	0	4	5	0	0	0	4	6
2	Shoeburyness...	3	16	10	1	49.2	0	6	13	7	3	39.0	64	3	40	16	54	2	30	20	10	0	20	0	0	23	0	0	19	0	0	0	0	5	5	0	0	1	1	5
	Gorleston ...	1	19	9	1	48.6	0	2	15	10	3	40.8	64	2	40	26	54	2	31	26	3	4	25	0	5	22	0	7	15	0	0	0	1	2	15	0	0	0	1	20
	Cranwell ...	3	18	9	0	47.1	0	8	16	5	1	37.1	58	3	40	26,27	55	2	30	26	9	7	19	0	5	21	0	3	17	0	0	3	3	5	4	0	0	4	3	12
3	Birmingham ... (Edgbaston)	5	17	8	0	46.9	0	3	15	12	0	39.0	57	3	38	16	50	1,2	28	17	13	9	14	0	6	19	0	5	18	0	0	1	7	5	3	0	0	5	2	8
4	Ross-on-Wye...	2	17	11	0	48.4	0	4	13	11	2	39.0	58	3	41	16,17	56	2	29	17	12	5	22	0	3	27	0	5	24	0	0	1	2	0	16	0	0	1	1	19
5	The Lizard ...	0	11	16	3	*	0	0	10	14	6	*	61	2,4	45	17	56	6	34	17,18,19	*	1	29	0	1	29	0	1	29	0	0	0	1	0	19	0	0	0	1	24
7	Holyhead ... (Valley)	0	16	12	2	49.7	0	1	11	14	4	44.4	62	2,3	44	16	53	2,10	29	19	4	2	28	0	4	25	0	4	24	0	0	0	0	2	24	0	0	0	2	24
8	Chester ... (Sealand)	0	19	10	1	48.3	0	2	12	13	3	38.2	60	2	42	16,17	52	1,2,4	29	19	9	2	26	0	2	27	0	2	24	0	0	0	3	3	12	0	0	1	0	15
10	Tynemouth ...	2	20	8	0	47.5	0	2	18	8	2	40.4	57	10	39	26	52	2	32	26,27	2	0	26	0	0	28	0	0	22	0	0	0	1	4	15	0	1	0	6	13
11	Leuchars ...	5	15	10	0	46.7	0	5	17	4	4	36.3	59	3	37	27	51	1,3,5,10	29	27	13	5	20	1	2	27	1	3	24	0	0	0	3	1	17	0	0	2	0	19
12	Renfrew ...	2	20	8	0	46.1	0	7	11	8	4	36.1	59	3	39	27	53	5	26	17	17	6	19	0	5	21	0	6	22	0	0	0	4	4	16	0	0	1	0	21
	Eskdalemuir ...	13	11	6	0	43.9	1	13	9	7	0	34.3	56	3	35	27	49	1	23	27	14	14	13	0	9	21	0	9	19	0	1	0	2	3	16	1	2	0	0	20
13B	Stornoway ...	4	18	8	0	47.2	0	2	18	7	3	39.6	57	3	40	14,15	53	10	29	27	6	3	27	0	7	21	1	2	28	0	0	0	1	0	20	0	0	0	0	21
15	Aberdeen ...	9	13	8	0	46.2	0	2	20	7	1	38.3	56	10,20	38	16,26	51	3	27	27	11	8	18	1	7	18	3	5	22	0	0	1	2	4	16	0	0	0	5	21
18	Aldergrove ...	3	18	9	0	47.9	0	3	15	9	3	39.1	57	3,4	38	18,26	52	1,3	27	17,26	9	8	20	1	8	22	0	8	21	0	0	0	1	1	21	0	0	1	0	21
19	Birr Castle ...	0	17	13	0	48.6	0	4	10	12	4	38.2	58	1	42	26	52	2,3,10	26	26	6	6	19	0	2	28	0	5	21	0	0	0	1	0	29	0	0	1	1	28
20	Valentia ... (Cahirciveen)	0	14	16	0	51.2	0	0	8	15	7	43.7	57	5,10	46	15	53	2,3,5,10	34	15	3	5	23	1	6	23	1	8	22	0	0	0	0	0	23	0	0	0	0	26

UPPER AIR TEMPERATURE.

Pressure mb.	Normal Height Feet.	Bircham Newton. Normal Temp. °F.	Bircham Newton. Mean. °F.	Bircham Newton. No. of Reports.	Aldergrove. Mean. °F.	Aldergrove. No. of Reports.	Penzance. Mean. °F.	Penzance. No. of Reports.
950	1740	42.0	39.7	58	41.2	60	42.6	30
850	4960	34.2	31.5	58	32.3	60	34.1	30
750	7950	25.3	22.3	58	23.3	60	25.7	30
650	11620	14.2	11.1	58	12.7	60	16.0	30
550	15750	0.3	−3.3	58	0.1	60	2.0	30

UPPER WINDS.

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

Station. Height. Metres.	Lympne. *No. of Obs.	Lympne. 6 to 25	Lympne. 26 to 50	Lympne. 51 to 75	Lympne. 76 to 100	Lympne. Above 100	Exeter. *No. of Obs.	Exeter. 6 to 25	Exeter. 26 to 50	Exeter. 51 to 75	Exeter. 76 to 100	Exeter. Above 100	Holyhead (Valley). *No. of Obs.	Holyhead. 6 to 25	Holyhead. 26 to 50	Holyhead. 51 to 75	Holyhead. 76 to 100	Holyhead. Above 100	Prestwick. *No. of Obs.	Prestwick. 6 to 25	Prestwick. 26 to 50	Prestwick. 51 to 75	Prestwick. 76 to 100	Prestwick. Above 100	Station. Height. Metres.
		kilometres per hour.						kilometres per hour.						kilometres per hour.						kilometres per hour.					
500 above ground	29	9	7	10	2	0	27	7	18	2	0	0	16	9	5	2	0	0	52	15	30	7	0	0	500 above ground.
1000 above M.S.L.	22	5	7	6	4	0	22	4	8	10	0	0	10	7	3	0	0	0	35	10	15	10	0	0	1000 above M.S.L.
2000 " "	4	1	3	0	0	0	7	3	3	0	1	0	1	1	0	0	0	0	9	1	4	3	1	0	2000 " "
3000 " "	1	0	1	0	0	0	4	0	2	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	3000 " "
4000 " "	0	0	0	0	0	0	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4000 " "

† 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.
NELSON K. JOHNSON, K.C.B., D.Sc., Director.

SUNSHINE, RAINFALL, AND HUMIDITY November 1943.

SUNSHINE.

District.	Stations.	Number of Days with Duration. Nil.	0·1—3h.	3·1—6h.	6·1—9h.	Above 9h.	Maximum Duration. Hours.	Date.	Total for past 12 months. 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	11	6	3	0	6·6	7	1434	-35	48	-5	1880	81	1883	26	1888, 1932
	Croydon ...	9	14	5	1	0	6·5	25	1631	+106	44	-8	1922	83	1923	28	1932
	** Thorney Island	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	8	11	4	6	0	8·4	7	1853	+88	78	+9	1921	108	1925	35	1934
		not recorded on 4th															
2	Shoeburyness ...	7	9	10	4	0	8·4	3	1736	+10	87	+21	1919	104	1920	43	1934, 1936
	Gorleston ...	5	13	9	3	0	6·8	25	1760	+117	73	+7	1908	106	1920	37	1912
	Cranwell ...	7	13	8	2	0	6·5	18	1662	+124	75	+9	1921	97	1925	38	1932
3	Birmingham ... (Edgbaston)	11	11	8	0	0	4·9	7	1429	+125	48	+2	1887	93	1913	13	1912
4	Ross-on-Wye ...	9	7	14	0	0	5·9	25	1549	+64	75	+12	1915	108	1923	26	1934
5	Falmouth ... (Observatory)	5	14	7	4	0	7·7	18	1634	-76	72	-4	1881	145	1923	38	1917
7	Holyhead (Valley)	*	*	*	*	*	*	*	*	*	*	*	1914	124	1925	36	1922
8	Chester ... (Sealand)	5	16	8	1	0	6·2	7	1679	+303	60	+7	1923	89	1938	33	1941
10	Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	1935	*	*	*	*
11	Leuchars ...	10	7	8	5	0	8·0	6	1570	+100	82	+12	1922	101	1925	42	1940
12	Renfrew ...	7	13	8	2	0	6·6	6, 12	1311	+18	67	+23	1921	60	1927	23	1941
	Eskdalemuir ...	10	8	5	7	0	7·3	7	1204	+3	79	+24	1910	89	1925	28	1938
13B	Stornoway ...	13	12	5	0	0	4·7	26	1035	-180	38	-8	1881	67	1911	19	1881
15	Aberdeen ...	10	12	7	1	0	7·5	6	1348	+19	53	-6	1881	83	1904	19	1941
18	Aldergrove ...	9	13	7	1	0	6·2	6	1335	+9	49	-9	1927	77	1930	35	1939
19	Birr Castle ...	10	15	5	0	0	5·0	6	1211	-95	36	-25	1881	95	1881, 1909	26	1917
20	Valentia ... (Cahirciveen)	11	17	2	0	0	5·6	25	1178	-190	32	-31	1880	118	1909	33	1917

RAINFALL.

District.	Stations.	‡Number of days with amount. 0, trace or 0·1 mm.	0·2—1 mm.	1·1—5 mm.	5·1—15 mm.	15·1—25 mm.	Above 25 mm.	Maximum fall in 24 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).	14	7	9	0	0	0	5·0	1	547	-59	33	-23	1856	172	1940	10	1858	0	0
	Croydon ...	14	6	10	0	0	0	5·0	12.	629	-50	32	-37	1921	197	1940	24	1932	0	0
	** Thorney Island	13	8	6	3	0	0	6·8	2	641	-52	39	-37	1881	200	1940	10	1901	0	1
	Lympne ...	12	5	9	4	0	0	13·2	18	611	-113	65	-16	1920	172	1940	26	1932	2	0
2	Shoeburyness ...	15	4	10	1	0	0	7·5	6	502	-1	29	-25	1920	138	1940	17	1920	0	0
	Gorleston ...	9	6	12	2	1	0	25·0	6	521	-101	91	+30	1871	208	1878	20	1920	3	0
	Cranwell ...	10	10	6	4	0	0	6·0	28	486	-104	41	-6	1917	124	1935	22	1920	0	3
3	Birmingham ... (Edgbaston)	12	5	10	3	0	0	9·9	1	665	-9	47	-14	1893	181	1929	17	1920	0	3
4	Ross-on-Wye ...	12	7	9	2	0	0	12·4	2.	735	+18	42	-22	1859	227	1929	14	1933	0	0
5	Falmouth ... (Observatory)	8	6	10	6	0	0	14·4	13.	997	-110	86	-36	1871	340	1929	21	1901	3	0
7	Holyhead (Valley)	6	8	10	6	0	0	9·6	28	965	+78	70	-35	1871	204	1877	32	1942	1	0
8	Chester ... (Sealand)	9	7	8	5	1	0	19·2	12.	832	+194	87	+28	1922	130	1940	16	1942	2	2
10	Tynemouth ...	15	2	10	3	0	0	14·0	14	597	-24	57	+3	1915	112	1933	19	1922	2	0
11	Leuchars ...	18	7	4	1	0	0	5·4	13.	606	-47	19	-39	1922	129	1931	11	1942	0	1
12	Renfrew ...	10	8	10	1	1	0	18·7	23	1266	+327	55	-44	1921	205	1938	14	1937	0	1
	Eskdalemuir ...	9	5	11	4	0	1	34·4	23	1860	+431	106	-41	1910	297	1938	30	1937	0	3
13B	Stornoway ...	5	3	13	7	1	1	26·2	23	1423	+222	130	-10	1870	250	1898	45	1933	0	6
15	Aberdeen ...	8	7	12	3	0	0	8·9	13	685	-63	60	-15	1871	184	1940	19	1942	0	8
18	Aldergrove ...	4	9	14	3	0	0	7·8	13	924	+86	65	-17	1926	135	1931	15	1942	1	4
19	Birr Castle ...	11	6	7	6	0	0	10·0	28	857	+30	70	-9	1862	188	1939	21	1922	0	0
20	Valentia ... (Cahirciveen)	5	5	12	8	0	0	15·0	27	1463	+49	106	-33	1866	310	1931	20	1879	0	0

MINIMUM SURFACE HUMIDITY.

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

Stations.	95 to 100 %	90 to 94 %	80 to 89 %	70 to 79 %	60 to 69 %	50 to 59 %	40 to 49 %	30 to 39 %	20 to 29 %	0 to 19 %
London (Kew) ...	0	4	1	7	11	7	0	0	0	0
Ross-on-Wye ...	1	3	3	5	12	6	0	0	0	0
Falmouth (Obsy.)	2	4	8	10	6	0	0	0	0	0
Renfrew ...	1	0	7	12	5	5	0	0	0	0
Eskdalemuir ...	2	1	2	10	5	9	0	1	0	0
Aberdeen ...	2	0	6	9	11	2	0	0	0	0
Valentia ...	2	6	6	11	4	1	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	0	0	0	0	0	0	0
Ross-on-Wye ...	0	30	0	0	0	0	0	0	0	0
Renfrew ...	0	28	0	2	0	0	0	0	0	0
Eskdalemuir ...	0	25	0	5	0	0	0	0	0	0
Aberdeen ...	0	29	0	1	0	0	0	0	0	0
Valentia ...	0	30	0	0	0	0	0	0	0	0

CODE for State of Ground.

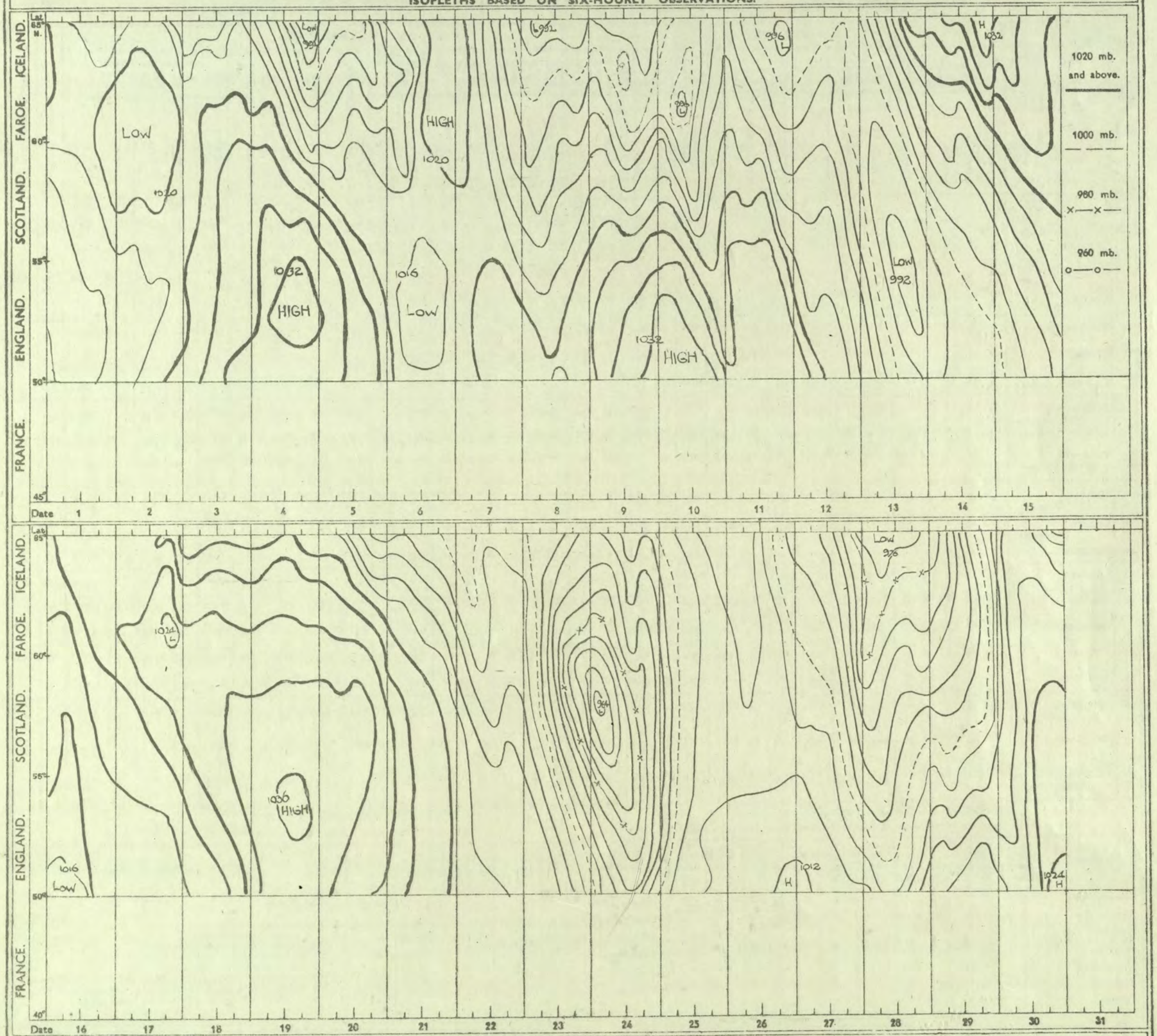
0 Dry.
1 Wet.
2 Flooded.
3 Frozen hard and dry
4 Partly covered with snow or hail.
5 Covered with ice or glazed frost
6 Covered with thawing snow.
7 Covered with snow, less than 6 in., but ground not frozen
8 Covered with snow, less than 6 in., and ground frozen.
9 Covered with snow, greater than 6 ins. 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 ..... NOVEMBER ..... 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. 5041/4534. No. 8069. D.N.S.L. 6p. 9/48. 6.39. 5. 12/43.

Page 1 BRITISH SECTION

SECRET

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

Monday 1st November 1943

No. 29929

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

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)	14·7	-10	SE'S	2	i6	57	85	53	5	5	–	–	10	10	1500
	Croydon	16·3	-6	SE	2	z₀	57	85	54	5	5	9	–	Tr	10	1000
	S. Farnborough	14·1	-14	SE'S	2	z₀	57	92	55	6	5	7	–	7-8	10	600
	Boscombe Down	14·0	-8	SE	3	z₀	57	92	55	6	5	7	–	7-8	10	1500
	Thorney Island	14·4	-10	ESE	3	c	60	85	45	7	–	7	–	0	9+	–
	Lympne	16·5	-12	SE'S	3	z₀	54	85	51	6	5	7	–	2-3	10	1000
	Manston	16·8	-6	S'E	3	z₀	56	75	50	6	5	3	7	0	10	–
2	Shoeburyness	16·7	-6	SSE	2	z₀	57	85	53	6	5	2	–	2-3	10	2500
	Felixstowe	16·3	-4	SE'S	1	z₀	56	92	53	6	–	7	–	0	10	–
	Gorleston	16·5	-10	S'W	4	z₀	55	92	52	6	5	7	–	4-6	9	1500
	Mildenhall	15·5	-10	SE'E	2	i6	57	85	52	6	–	7	–	0	10	–
	Cranwell	15·0	-8	SSE	2	i6	51	97	51	3	5	–	–	10	10	300
3	Birmingham	13·6	-4	SSE	3	z₀	55	92	53	6	5	–	–	10	10	1500
	Upper Heyford	14·0	-10	SSE	3	m	55	92	54	4	5	–	–	4-6	9+	1500
4	Ross-on-Wye	12·9	-8	SE	2	z₀	57	85	53	6	5	2	–	9	10	1000
5	Hartland Point	10·6	+2	SSE	3	rr	57	97	57	6	5	2	–	9	10	800
	Bristol	13·2	-2	SE	1	i6	59	85	54	6	–	9	–	0	10	–
	Portland Bill	13·3	-4	SE	3	c	58	92	56	8	5	–	–	10	10	4000
	Plymouth	11·4	-8	SSE	1	r₀r₀	58	97	58	6	5	–	–	4-6	10	1000
	The Lizard	11·3	-6	S	3	rr	55	97	55	6	5	–	–	10	10	1000
	Scilly (St. Mary's)	09·0	-2	S'E	5	r₀r₀	56	97	56	6	5	2	–	9+	10	1000
	Guernsey															
6	Pembroke	10·5	0	SE	4	r₀r₀	57	97	57	7	5	–	–	10	10	2000
7	Holyhead (Valley)	10·9	+2	SSE	4	c	57	92	55	8	5	7	–	4-6	9+	2000
	Chester (Sealand)	12·4	0	S'W	3	z₀	56	92	54	5	5	2	–	4-6	10	1200
8	Manchester	13·3	-2	SSE	3	z₀	56	85	52	5	5	2	–	7-8	10	2000
10	Spurn Head	15·5	-16	SSE	4	r₀r₀	52	97	51	5	5	2	–	7-8	10	1500
	Catterick (Sc)	14·8	-2	SSE	2	rf	50	97	50	3	–	–	–	10	10	<150
	Tynemouth	14·7	-2	SSW	3	c	52	92	50	4	–	2	–	10	10	1200
11	St. Abbs Head	12·3	+2	S	2	z₀	50	85	46	6	5	2	–	7-8	10	2000
	Leuchars	11·3	-2	E	1	z₀	51	97	49	5	5	–	–	10	10	2000
12	Renfrew (Abbots I.)	10·3	-4	SSE	2	c/d	56	92	53	5	5	2	–	4-6	10	1000
	Eskdalemuir	11·8	0	SSE	2	d₀d₀	51	97	50	6	–	2	–	10	10	200
	Point of Ayre	10·9	+4	SSW	4	df	55	97	55	3	–	2	–	10	10	2000
13A	Tiree	08·1	+10	S'W	3	c	56	97	55	7	5	3	–	9	9+	3000
13B	Stornoway	16·8	+14	SSW	5	id₀	54	97	53	6	6	2	–	9	10	600
15	Dalwhinnie	08·9	+2	S	3	o	47	85	44	6	5	–	–	10	10	1500
	Aberdeen	11·8	0	S	3	i6	51	85	48	5	5	7	–	9+	10	1500
	Wick	09·4	+4	SSE	2	c/r	52	75	50	7	5	2	–	7-8	10	2000
16	Sumburgh	09·4	-2	S	6	z₀	52	92	49	5	5	–	–	10	10	1000
17	Blacksod Point	06·6	+2	N'E	2	c	54	85	49	8	6	–	–	9+	9+	1500
18	Malin Head	06·8	+2	S'W	1	c	58	85	53	8	5	–	–	9	9	800
	Aldergrove	08·7	+4	SSE	3	c	57	92	54	7	5	2	–	9	9+	1500
19	Birr Castle	06·2	0	S	2	c	61	85	56	8	3	7	–	2-3	9	1500
20	Valentia Obsy.	05·4	+6	NW	2	id₀	56	97	55	6	5	–	–	10	10	700
	Roches Point	06·8	+2	S	4	c/d	57	97	56	6	5	–	–	9	9	800

OBSERVATIONS at 18h. G.M.T. 31st October — 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)	13·5	-4	ESE	2	m/f	56	85	51	4	5	2	–	9+	10	4000	1	*	cmir₀cm₀	r₀fcm	cmir₀cir₀m₀	m₀r₀ir₀r₀m₀
Croydon	14·5	-4	E	2	z₀	55	85	52	5	–	7	–	0	10	–	1	*	cir₀cm₀	cm₀cir₀	cm₀	cm₀cr₀r₀m₀
S. Farnborough	13·1	-4	SE'E	2	z₀	55	92	51	6	5	7	–	4-6	10	2000	0	*	cr₀m₀omr₀	m₀cm₀	cm₀r₀m₀ir₀	ir₀r₀m₀dr₀
Boscombe Down	13·0	0	SE'E	3	c/r	54	97	52	6	5	7	–	4-6	10	1200	1	*	cm₀	cm₀ccm₀r₀	cm₀cr₀r₀m₀	cr₀r₀m₀
Thorney Island	12·7	-6	E'S	3	z₀	57	85	53	5	–	7	–	0	9+	–	1	*	cm₀c	c	cir₀m₀	cr₀r₀m₀
Lympne	15·0	-10	SE	3	z₀	55	85	51	6	–	7	–	0	4-6	–	0	4-	om₀	cm₀	bcm₀	cm₀cr₀r₀mf
Manston	15·3	-6	SSE	4	z₀	56	85	51	6	–	9	7	0	10	–	0	*	cm₀	cz₀m₀	cbcm₀	omz₀r₀m₀
Shoeburyness	15·7	-6	SE	2	z₀	55	85	51	6	5	7	3	7-8	7-8	4000	0	*	cm₀	cm₀	cm₀	cir₀m₀
Felixstowe	15·3	-2	SE	3	z₀	55	92	53	5	–	4	–	0	7-8	–	0	2	cm₀	cm₀	cm₀bcm₀	bcbcm₀
Gorleston	15·6	-2	S'W	3	z₀	56	85	52	7	5	–	–	4-6	4-6	2000	0	2	cz₀	cbcz₀	cbcz₀w	bccz₀w
Mildenhall	14·2	-6	SE	3	z₀	54	92	52	6	5	7	–	4-6	10	4000	0	*	cmir₀	cir₀cm₀	cm₀	cir₀m₀
Cranwell	14·0	0	SE	2	m	53	97	52	4	5	7	–	9+	10	3700	1	*	cmir₀	cm₀	cmcmir₀	cr₀r₀mcm
Birmingham	13·1	0	SE	2	rf	54	97	53	3	6	–	–	10	10	800	1	*	fir₀d	orf	or₀ff	fr₀r₀
Upper Heyford	13·1	-2	E	2	i6	55	92	53	4	–	2	–	0	10	–	1	*	ofir₀cmw	cm₀cm	cmir₀r₀r₀	r₀r₀rr₀r₀m
Ross-on-Wye	12·2	0	E'S	1	r₀r₀	55	97	54	4	–	2	–	10	10	800	1	*	r₀cm₀	cm₀r₀r₀	r₀mrr	r₀f
Hartland Point	09·6	-6	E	3	rr	56	97	56	6	6	2	–	9+	10	2500	1	3	cirrr	crrc	cirrr	crr
Bristol	12·0	-6	SSE	2	r₀r₀	55	97	54	5	6	2	–	4-6	10	2500	1	*	cm₀cm₀r₀r₀	cm₀ir₀cm₀r₀	cm₀r₀r₀orr	cmrr
Portland Bill	11·5	-4	SE	4	rr	57	92	55	7	5	–	–	10	10	2500	1	4	c	orr	orr	orr
Plymouth	10·2	-6	SSE	2	r₀r₀	56	97	56	5	5	–	–	9	10	1500	1	1	cr₀r₀m₀	cr₀r₀m₀	cr₀r₀m₀	or₀r₀m₀
The Lizard	09·3	-8	SE	3	rr	55	97	53	6	5	–	–	10	10	800	1	3	cz₀rr	orr	cm₀rr	oidi
Scilly (St. Mary's)	08·6	0	SSE	3	c/r	55	97	55	6	5	2	–	7-8	10	1000	1	4	cr₀r₀	cr₀r₀	c	cbccw
Guernsey																					
Pembroke	10·3	-2	SE'S	2	rr	56	97	56	6	5	–	–	10	10	1500	1	3	cr₀r₀	crrm₀	cr₀r₀	d₀d₀c
Holyhead (Valley)	11·1	+6	SSE	3	i6	56	92	54	6	5	1	–	10	10	1300	1	2	cid₀ir₀m₀c	cir₀m₀	cr₀r₀m₀	cr₀r₀m₀
Chester (Sealand)	12·3	+2	S	1	rr	55	92	54	5	5	2	–	7-8	10	1200	1	*	cm₀mr₀r₀r₀	cr₀r₀rr	cr₀r₀m	cr₀r₀ff
Manchester	12·5	+12	SSE	3	r₀r₀	55	92	53	4	–	2	–	10	10	1300	1	*	r₀r₀cm₀	cir₀m₀	cr₀r₀rr	r₀r₀m₀
Spurn Head	14·2	-10	SE	3	z₀	54	97	53	5	7	2	–	7-8	10	1500	1	1	cir₀r₀r₀	cm₀	om₀	cm₀d₀d₀
Catterick (Sc)	13·9	-2	–	0	rf	51	97	51	2	–	–	–	10	10	<150	1	*	oir₀f	of	or₀r₀f	or₀r₀F
Tynemouth	14·0	0	S	3	m/r	52	92	50	4	–	2	–	10	10	1500	1	2	omrrmom	oirm	or₀r₀m	or₀r₀m
St. Abbs Head	12·0	-2	ESE	3	m	51	92	49	4	5	7	–	7-8	10	1500	0	3	cm₀r₀cm	cm	cmr₀fr₀f	orf
Leuchars	12·4	+6	SSE	1	m/f	52	97	51	4	5	–	–	7-8	10	900	1	*	orrm₀m₀	cm₀cfcm	d₀rrm₀	orrm₀m
Renfrew (Abbots I.)	11·2	+10	E	2	id₀	56	85	53	4	5	7	–	9	10	1500	1	*	cr₀dom	cm₀mcid₀m	id₀d₀d₀m	cr₀r₀mf
Eskdalemuir	11·9	+6	SSE	2	m	51	97	50	4	5	–	–	10	10	200	1	*	or₀d₀	od₀om	orrr	orrr₀
Point of Ayre	10·8	+2	S'W	3	id₀	55	97	55	5	–	2	–	10	10	2000	1	2	odfdf	oid₀	orr	orrr₀r₀
Tiree	09·6	+14	SE	1	r₀r₀	55	97	55	6	5	7	–	9	10	1000	1	2	m₀c	ccid₀cr₀	cm₀ir₀id₀m₀	cd₀d₀id₀m₀
Stornoway	10·3	+30	N	3	rr	50	97	50	6	6	2	–	7-8	10	1000	2	2	cm₀cir₀m₀	cid₀m₀cr₀	cr₀r₀m₀cm₀	crrm₀bcc
Dalwhinnie	11·0	+2	SSW	3	o	49	92	46	6	5	–	–	10	10	1500	0	*	oid₀	o	*	oir₀f
Aberdeen	12·5	+8	SSW	2	m	52	85	48	4	5	7	–	4-6	10	1500	1	2	cir₀z₀	cir₀cz₀cz	czorrm	orrr₀rm₀
Wick	11·4	+18	SW	2	z₀	50	92	48	6	7	7	–	1	2-3	2500	1	*	cr₀r₀m₀	cr₀bcm₀	cm	cmcid₀d₀d₀
Sumburgh	11·2	+18	S'W	4	i6	52	97	51	5	5	7	–	9	10	1200	1	3	cm₀ir₀cm₀	cr₀r₀m₀c	d₀m₀	oddf₀
Blacksod Point	08·6	+18	N'E	4	c	53	97	52	7	6	–	–	9+	9+	1500	2	3	r	c	d	d
Malin Head	07·5	+8	SSE	2	bc	55	85	50	8	8	–	–	4-6	4-6	1500	2	2	c	r	bc	c
Aldergrove	09·1	+8	SSE	3	c	56	92	54	7	5	–	–	9	10	800	1	*	ccm₀c	cir₀m₀c	cr₀r₀rrd₀d₀	cir₀c
Birr Castle	06·5	+6	S	1	c-bc	56	92	54	8	5	–	5	4-6	7-8	2500	1	*	pr	c	•	c
Valentia Obsy.	07·4	+18	NW	4	c	53	92	51	8	5	–	3	9	9+	1100	1	3	pr	r	r	pr
Roches Point	07·2	+10	S'E	4	DD	55	97	54	4	5	–	–	10	10	450	1	5	d	d	r	d

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 1st November, 1943.

Districts	Forecast
1 S.E. England 2 E. England 3 E. Midlands 4 W. Midlands	Light or moderate southeast to variable winds; dull with occasional rain, rather general mist and local fog; mild.
5 S.W. England 6 South Wales 7 North Wales 8 N.W. England	Light variable to northerly winds; dull, occasional rain at first; mild.
9 N. Midlands 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man	As 1-4
13A W. Scotland 13B N.W. Scotland	Light east to variable winds; mainly cloudy, some bright periods later; mild.
14 Mid Scotland 15 N.E. Scotland	As 1-4
16 Orkneys and Shetlands	As 1-4
17 N. W. Ireland 18 N. E. Ireland	Moderate or fresh north winds, becoming light variable; mainly cloudy, local rain at first, mild.
19 S. E. Ireland	As 5-8
20 S. W. Ireland	As 17.

GENERAL INFERENCE

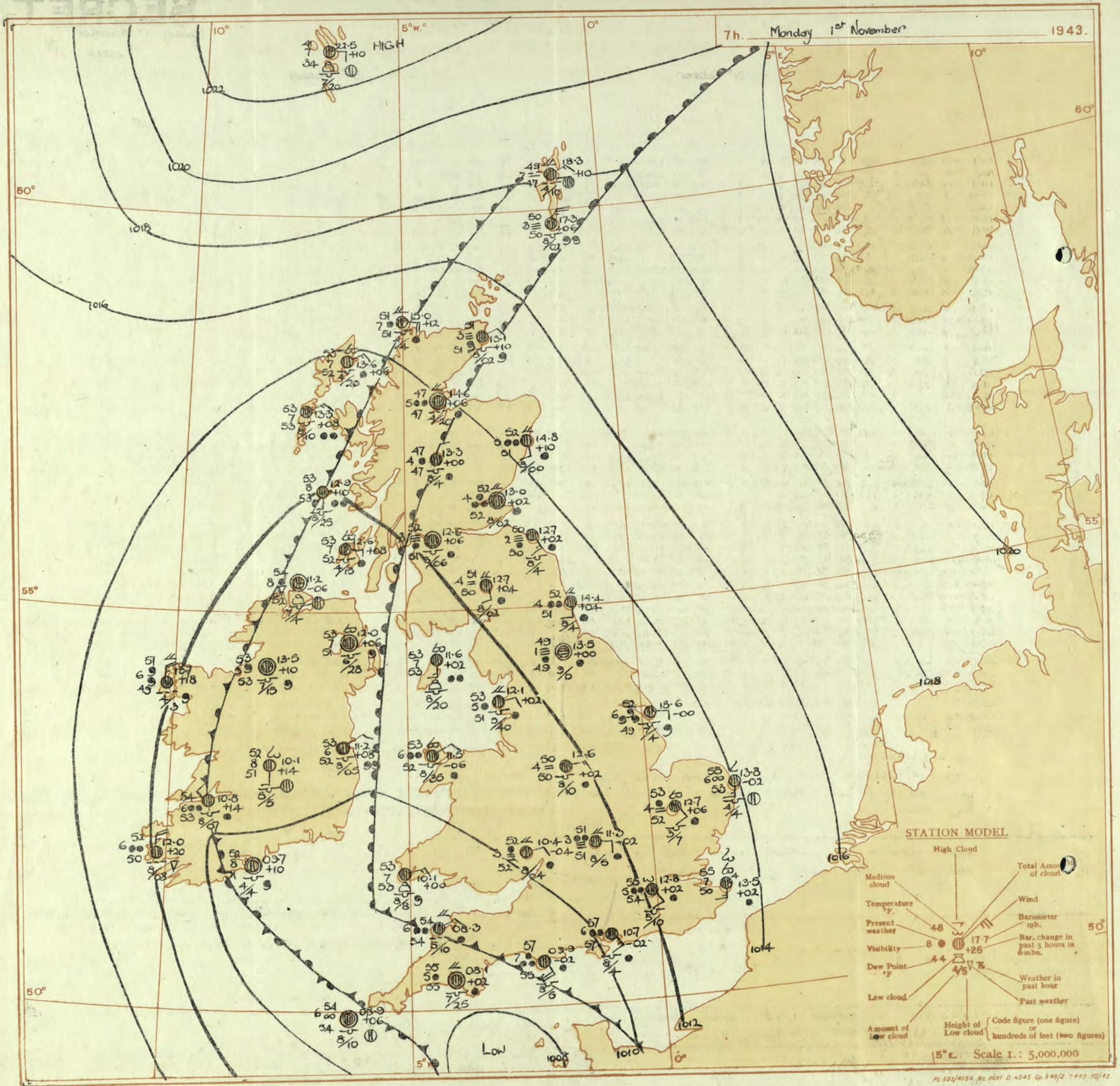
A complex depression centred in the western Channel is moving slowly east. Weather will be generally dull over the British Isles with occasional rain, but some improvement will spread into our western districts. It will be generally mild.

FURTHER OUTLOOK

Continuing mild and mainly dull with considerable mist and fog, but rain gradually dying out.

Forecasts issued at 10.30

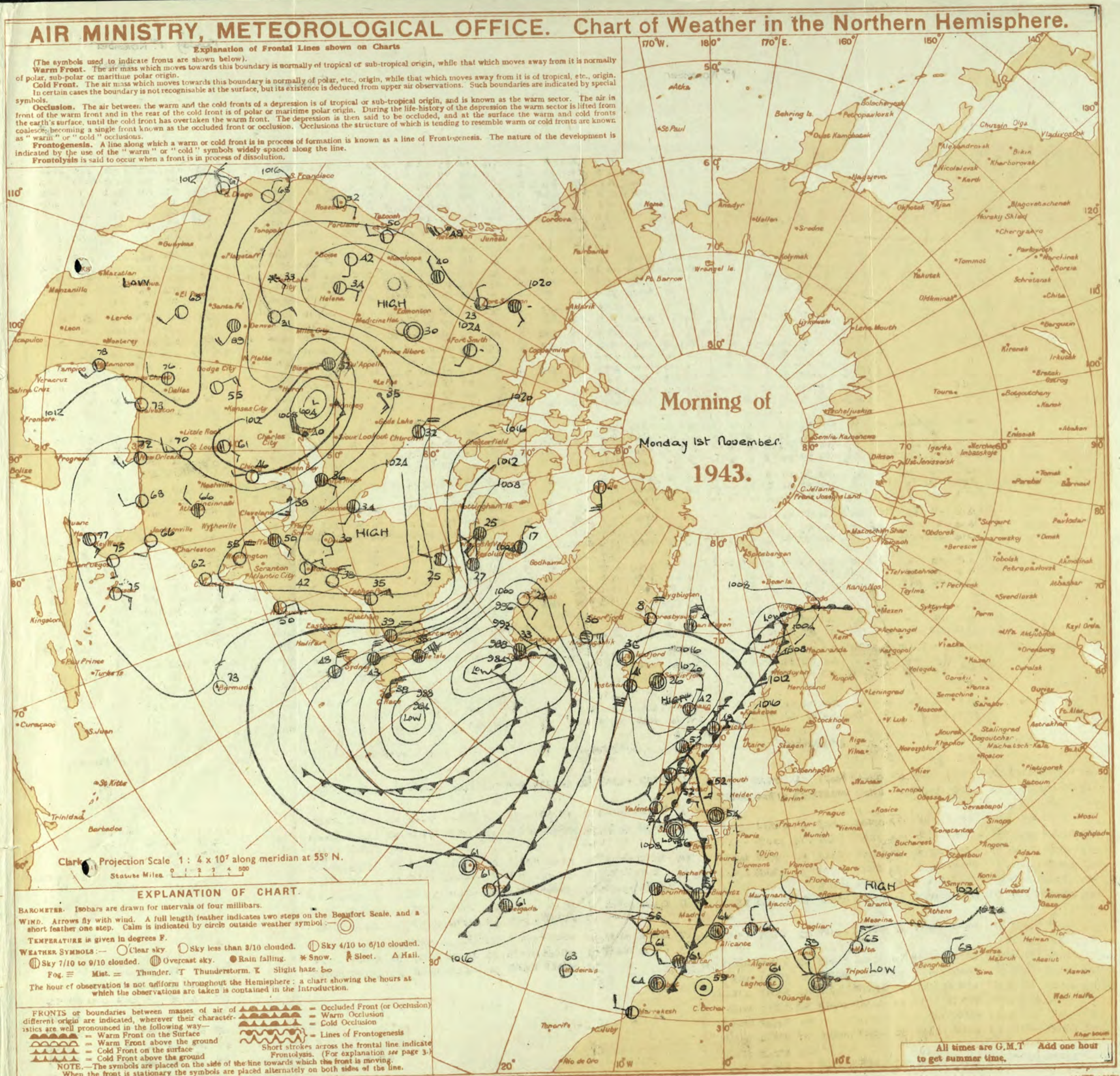
NELSON K. JOHNSON, K.C.B., D.Sc., Director
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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

Ps. 523/4556. Wt. 8091. D. w545. Gp. 946/2. 7440. 10/43.

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.

Monday 1st November 1943

No. 29929

OBSERVATIONS at 1 hr. G.M.T. 1st November | OBSERVATIONS at 7 hr. G.M.T. 1st November | 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 31st Hrs. (38)
1	London (Kew)	18	*	*	*	*	*	53	*	*	*	*	*	*	*	*	*	11·8	+2	E	2	r_0r_0	55	97	53	5	5	2	–	9+	10	4000	1	*	58	53	49	0·3	0·5	0·0
	Croydon	290	13·8	-4	–	0	z_0	54	92	51	5	5	7	–	4-6	10	2000	12·8	+2	SE	2	r_0r_0	55	97	54	5	5	3	–	7-8	10	1000	1	*	58	53	50	0·3	0·3	0·0
	S. Farnborough	226	11·6	-8	E	2	ir_0	54	92	51	6	5	7	–	9	10	6500	11·1	+4	ESE	2	dr	55	97	54	5	5	–	–	10	10	600	1	*	58	52	48	0·2	1	0·0
	Boscombe Down	417	11·6	-6	E'S	3	r_0r_0	52	97	52	6	–	2	–	10	10	6000	10·2	-2	ESE	3	r_0r_0	54	97	54	4	–	2	–	10	10	300	1	*	58	51	51	1	4	0·0
	Thorney Island	10	11·5	-10	E	2	ir_0	55	97	55	5	–	2	–	0	9	–	10·7	-2	SE	3	r_0r_0	57	97	57	6	5	–	–	10	10	1500	1	*	60	54		Tr	4	*
	Lympne	283	13·7	-8	SE	3	z_0	55	85	51	6	–	2	–	0	9	–	13·4	+6	SE'S	2	c/r	54	92	52	5	5	2	–	2-3	9	2500	1	§	55	53	50	–	Tr	0·4
	Manston	154	13·9	-6	SE'S	3	z_0	55	85	51	6	–	7	–	0	7-8	–	13·5	+2	S	3	c	55	85	50	7	–	7	9	0	9+	–	0	*	59	54	52	–	Tr	2·1
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13·7	+2	SE	2	ir_0	55	92	53	6	5	7	–	7-8	10	1500	1	*	57	53	46	–	0·5	0·1
	Felixstowe	12	13·9	-10	SE'E	4	z_0	53	85	48	5	5	7	–	2-3	4-6	2100	12·1	0	SE	3	ir_0	55	92	53	5	–	2	–	0	2-3	–	0	3	58	53	52	–	[illegible]	1·2
	Gorleston	5	14·9	-6	SE'S	3	z_0	55	92	52	6	5	–	–	4-6	4-6	2500	13·8	-2	S'E	3	z_0	55	92	53	6	5	4	–	4-6	7-8	1500	0	3	57	52	47	–	–	0·2
	Mildenhall	15	12·9	-14	ESE	2	z_0	53	92	51	6	5	7	–	1	9	5700	12·7	+6	SE	2	ir_0	53	97	52	4	5	7	–	2-3	10	5700	1	*	51	52	48	Tr	0·3	0·0
	Cranwell	203	13·3	-8	–	0	ir_0	50	92	50	4	5	–	–	10	10	3000	12·8	0	E	1	m	50	97	50	4	5	2	–	4-6	10	3000	1	*	53	49	*	2	1	0·0
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11·7	0	ESE	2	rf	50	97	49	2	6	–	–	10	10	450	1	*	55	50	49	2	3	0·0
	Upper Heyford	408	12·2	-6	E	3	r_0r_0	52	97	50	4	5	–	–	10	10	5700	11·3	-2	E	2	rf	51	97	51	3	–	2	–	10	10	2500	1	*	56	50	49	0·6	5	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10·4	-4	ENE	2	rf	52	97	52	3	–	2	–	10	10	400	1	*	58	52	51	1	8	0·0
5	Hartland Point	299	08·6	-2	E	3	rr	54	97	54	6	6	2	–	7-8	10	1500	08·3	0	NE	2	r_0r_0	54	97	54	6	6	2	–	7-8	10	1000	1	3	(57)	53	53	14	12	0·0
	Bristol	209	10·8	-10	E'S	2	r_0r_0	53	97	52	5	–	2	–	10	10	2500	09·7	-2	–	0	r_0r_0	53	97	53	4	6	2	–	9	10	800	1	*	59	52	49	1	14	0·0
	Portland Bill	32	10·7	-6	SE	4	rr	58	92	56	7	5	–	–	10	10	2500	09·9	-2	SE	4	rr	57	97	55	7	5	–	–	10	10	2500	1	2	58	52	*	Tr	7	*
	Plymouth	86	09·0	-6	SE	2	r_0r_0	55	97	55	5	5	–	–	7-8	10	1800	08·1	+2	–	0	ir_0	55	97	55	5	5	2	–	9+	10	2500	1	1	59	54	53	6	7	0·0
	The Lizard	240	09·6	-2	–	0	r_0r_0	55	97	55	6	5	–	–	10	10	800	08·0	+4	–	0	ir_0	54	97	53	6	5	–	–	10	10	800	1	3	57	53	*	8	–	0·0
	Scilly (St. Mary's)	163	08·5	0	–	0	c	56	97	54	7	5	–	–	9+	9+	1000	08·9	+6	–	0	z_0	54	97	54	6	5	–	–	10	10	1000	1	2	57	55	*	1	Tr	0·0
	Guernsey	175																																						
6	Pembroke	142	10·2	+6	SE'E	3	r_0r_0	56	97	55	7	5	–	–	10	10	1500	10·1	0	ENE	3	c	53	97	53	7	8	–	–	10	10	1800	1	3	57	52	*	6	5	0·0
7	Holyhead (Valley)	32	11·1	-2	E	1	r_0r_0	54	97	54	6	5	2	–	4-6	10	1000	11·5	-6	NE'E	2	r_0r_0	53	97	52	6	5	7	–	10	10	3500	1	1	59	52	50	2	6	*
	Chester (Sealand)	16	12·0	-4	SSE	1	r_0r_0	53	92	52	4	5	2	–	2-3	10	600	11·8	+4	–	0	rf	52	92	51	2	6	2	–	9	10	700	1	*	56	52	50	5	11	0·0
8	Manchester	230	12·7	+2	ESE	3	r_0r_0	52	97	52	5	6	2	–	9	10	1400	12·0	-2	E'S	2	r_0r_0	51	97	50	5	5	2	–	9	10	1300	1	*	57	51	49	1	10	*
10	Spurn Head	29	13·9	-6	SE	2	z_0	52	97	51	5	5	–	–	10	10	1500	13·6	0	E	2	dd	52	92	49	6	5	–	–	9+	9+	1500	1	3	54	51	*	0·2	0·4	
	Catterick (Sc)	192	13·8	-4	S	1	rf	51	97	51	2	–	–	–	10	10	<150	13·5	0	–	0	rF	49	97	49	1	–	–	–	10	10	<150	1	*	51	49	47	0·4	7	0·0
	Tynemouth	108	14·1	-4	S	3	r_0r_0	52	97	51	4	–	2	–	10	10	1500	14·4	+4	S	2	r_0r_0	52	97	51	4	–	2	–	10	10	1500	1	3	53	51	49	2	4	*
11	St. Abbs Head	280	13·2	-2	SE	3	cf+	50	97	50	2	5	–	–	9+	10	1500	12·7	+2	SE	3	rf	50	97	50	2	5	–	–	10	10	1500	1	3	52	49	*	2	7	*
	Leuchars	36	13·4	0	–	0	rr	51	97	51	5	–	2	–	10	10	600	13·0	+2	–	0	rr	52	97	52	4	–	2	–	10	10	200	1	*	53	51	49	1	13	0·0
12	Renfrew (Abbots I.)	19	12·4	+2	NE'E	1	rr	53	97	53	4	5	2	–	7-8	10	1800	12·6	+6	–	0	rf	52	97	51	3	5	–	–	7-8	10	600	1	*	57	51	47	2	5	0·0
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12·7	+4	SSE	2	a	51	97	50	4	–	2	–	10	10	200	1	*	51	49	49	2	17	0·0
	Point of Ayre	30	11·5	+2	S	2	rr	54	97	54	6	–	2	–	10	10	2000	11·6	+2	S	3	c/r	53	97	53	7	8	7	–	10	10	2000	1	3	55	53	*	1	12	0·0
13A	Tiree	44	11·6	+6	SE	1_0	id_0	55	97	55	6	5	–	–	10	10	800	12·9	+10	S'E	1	o/r	53	97	53	8	5	–	–	10	10	2500	1	1	57	53	51	1	5	0·2
13B	Stornoway	12	13·1	+6	NNE	5	z_0	52	97	50	6	5	2	–	7-8	10	600	13·6	+6	NE	3	c-bc	53	97	52	7	5	7	–	4-6	7-8	2000	2	2	55	49	48	5	2	0·0
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13·3	0	NNE	1	ir_0	47	97	47	4	5	–	–	10	10	1500	1	*	49	46	45	Tr	3	0·0
	Aberdeen †	79	14·3	-2	–	0	rf	50	97	50	3	6	2	–	10	10	300	14·8	+10	SSE	2	r_0r_0	52	97	51	5	–	2	–	10	10	800	1	2	52	50	47	Tr	11	0·0
	Wick	114	14·1	+8	–	0	z_0	47	97	46	6	–	2	–	9	10	–	15·1	+10	NE	2	df	51	97	51	3	5	–	–	10	10	300	1	*	52	45	40	2	Tr	*
16	Sumburgh	19	15·2	+12	NE	1	o/d	51	97	51	5	5	–	–	10	10	600	17·3	+6	NE'N	5	rf	50	97	49	3	5	–	–	10	10	200	1	2	52	50	49	1	0·3	0·0
17	Blacksod Point	18	11·2	+10	N'E	5	o/d	52	92	50	8	6	–	–	10	10	1500	13·7	+18	N	6	id	51	92	49	6	6	2	–	4-6	10	800	1	4	54	50	*	7	0·2	*
18	Malin Head	84	10·1	+10	S'E	1	c	54	92	52	8	8	–	–	9+	9+	1500	11·2	-6	–	0	pr	54	92	52	8	8	–	–	9+	9+	1500	2	1	60	52		0·6	Tr	0·7
	Aldergrove	268	11·3	+8	SSE	1	o/d	53	92	52	7	5	–	–	10	10	2500	12·0	+6	–	0	c	53	97	51	7	5	7	–	9	10	2800	1	*	57	52	51	3	4	0·0
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10·1	+14	S	1	c-bc	52	97	51	8	5	5	–	7-8	7-8	2500	1	*	62	49	43	0·1	–	3·2
20	Valentia Obsy.	30	09·9	+14	NW	4	c	54	92	52	8	5	–	–	9+	9+	1600	12·0	+20	N	5	r_0r_0	52	92	50	6	6	–	–	10	10	800	1	4	58	52	51	1	2	0·0
	Roches Point	22	08·5	+6	S	2	c/r	54	97	54	7	6	2	–	4-6	10	800	09·7	+10	–	0	bc	52	97	51	8	5	–	–	4-6	4-6	1500	1	5	57	51	*	3	6	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 31st October C_LC_M	wwVhN_h	DDFWN	18h. G.M.T. C_LC_M	wwVhN_h	DDFWN	01h. G.M.T. 1st November C_LC_M	wwVhN_h	DDFWN	07h. G.M.T. C_LC_M	wwVhN_h	DDFWN
100	5-	62538	18468	52	05555	17328	5-	05648	80028	52	05545	07328
115	52	02745	20368	52	02845	20288	--	67109	04369	52	61744	08467
203	5-	02837	16427									
206	57	22664	00067	40	05663	00064	57	05664	00067	62	62554	00068
210	52	02874	16167	57	02864	16227	53	02765	12128	54	0008-	-----
219	5-	21838	18438	57	21845	02458	5-	02748	06468	5-	22748	04368
230	62	61645	00068	5-	51648	10168	5-	05645	00058	5-	52648	00068
245	5-	52438	18158	5-	08438	28138	5-	62218	00068			
260	52	05844	16228	5-	47358	02128	5-	64248	08168	5-	56208	28168
278												
27[illegible]	52	51655	12158	62	61544	14168	02	64438	04168	62	21355	00058
28[illegible]	5-	62528	08368									
288	57	05645	14468	57	62556	20268	52	62466	00068	62	67344	00068
575	37	81845	16227	37	64635	16188	5-	05628	00028	5-	51547	00057
301	02	62428	13368	--	67309	02269	--	62409	11269	52	61565	07268
321	57	22545	12468	5-	51458	12268	--	44309	00069	57	49375	04168
29[illegible]	5-	22648	16368	5-	05648	16328				5-	22548	00068
292	02	02428	12268	02	61338	10228	02	62468	00068	62	67334	00068
310										--	57209	32449
614	57	08474	10127	02	67838	08168	02	67218	00068	--	43109	06169

III	13h. G.M.T. 31st October C_LC_M	wwVhN_h	DDFWN	18h. G.M.T. C_LC_M	wwVhN_h	DDFWN	01h. G.M.T. 1st November C_LC_M	wwVhN_h	DDFWN	07h. G.M.T. C_LC_M	wwVhN_h	DDFWN
33[illegible]	5-	21745	14368	52	64524	14168	62	62582	00068	52	58656	00068
334												
340	57	22555	16368	52	67236	14268	5-	67338	10268	5-	57338	12368
13[illegible]	07	22690	16268	07	05690	14328	07	05690	10217	52	22534	10268
336										--	67309	12269
35[illegible]	52	47365	12148	07	08490	08128	02	62490	00068	02	67348	08168
368	57	61644	12368	62	62448	12268	5-	64448	12268	5-	51438	08268
37[illegible]	5-	05525	14258	52	61406	12268	5-	62408	12268	--	46109	06369
390	57	61434	16268	07	47390	10227	08	21490	14158	5-	62366	10268
382				07	22590	13168	02	62478	08168	02	67348	09268
43[illegible]	57	05545	14317	5-	05664	10415	52	05656	14318			
43[illegible]	07	05690	10228	52	05665	14428	02	21690	12357	5-	62646	11368
409				52	62625	10368	52	61665	11368	52	57207	00068

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 November
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	$cm\,ir_0m_0$	$ir_0f\,cm$	$cm\,ir_0r_0m_0$
Croydon	cir_0cm_0	cm_0cir_0	$cmfr_0r_0m_0$
Greenwich	cir_0m_0	cm_0	cr_0r
Camden Square	o	o	*
Kensington	cm	om	*
Hampstead	or	orf	orf

Atmospheric Pollution, Milligrams of solid impurity per cubic metre
Kew 24 hours ended 7h.
Max. Time: 0·7 10-11h 31st
Min. Time: 0·1 1-6h

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 1st 15h % Yesterday	Humidity 9h % To-day
Kew	58	53	49	0·3	0·5	0·0	*	*
Croydon	58	53	50	0·3	0·3	0·0	*	*
Greenwich	57	53	48	-	0·8	0·0	89	96
Westminster	58	53	51	1			87	95
Regents Park	57	52	48	-	2		85	97
Camden Square	57	52	48	-	3	*	*	95
Kensington	58	53	49	Tr	1		90	97
Hampstead	56	51	48	-	-		*	97

SECRET
CANCELLED

Page 1

BRITISH SECTION

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

Tuesday 2 November 1943

No. 29930

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

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)	12.5	+2	SE'E	2	c/r	58	92	55	6	5	2	–	9+	10	2500
	Croydon	12.8	0	SE	3	c/d	57	92	56	5	5	2	–	4-6	10	1000
	S. Farnborough	11.9	+2	SE	2	dodo	57	97	56	5	5	–	–	10	10	500
	Boscombe Down	11.3	+4	SE	3	dodo	56	97	56	5	–	2	–	10	10	800
	Thorney Island	10.8	-8	SE	3	ido	58	92	58	6	5	–	–	10	10	1500
	Lympne	16.2	+10	SSE	3	iro	56	92	55	6	5	2	–	9	10	1000
	Manston	14.0	0	SE	3	c	59	85	54	7	5	7	7	2-3	10	2000
2	Shoeburyness	14.1	+2	SSE	2	roro	57	92	55	6	5	–	–	10	10	1500
	Felixstowe	14.1	+2	SE	2	c	59	85	55	7	–	7	–	0	10	–
	Gorleston	147	+2	S'E	3	c	55	92	52	7	5	7	1	4-6	9	1800
	Mildenhall	13.5	+2	ESE	3	iro	59	85	56	6	5	7	–	2-3	9+	4000
	Cranwell	13.3	0	E'S	2	c/f	55	97	55	6	–	2	–	10	10	500
3	Birmingham	12.3	0	ESE	2	rf	54	97	53	2	6	–	–	10	10	450
	Upper Heyford	11.8	+2	SE	2	roro	56	97	56	4	5	2	–	9	10	600
4	Ross-on-Wye	11.0	0	ENE	2	df	55	97	55	3	5	–	–	10	10	200
5	Hartland Point	09.4	+6	NE	2	c	55	97	55	7	5	2	–	9	10	700
	Bristol	107	+4	ESE	1	dodo	58	97	57	5	5	2	–	9	10	1100
	Portland Bill	10.7	0	SSE	4	rr	58	92	56	7	5	–	–	10	10	2500
	Plymouth	09.3	+4	NNW	1	roro	59	97	57	5	5	–	–	9	10	1000
	The Lizard	09.4	+6	NW	3	iro	56	92	54	7	5	2	–	9	10	1500
	Scilly (St. Mary's)	10.7	+6	N'W	2	c	56	97	56	7	5	–	–	7-8	10	1100
	Guernsey															
6	Pembroke	10.9	+4	NE'N	3	roro	55	97	55	6	8	–	–	10	10	1500
7	Holyhead (Valley)	12.1	0	NE	1	c/r	57	92	55	5	–	7	–	0	10	–
	Chester (Sealand)	12.4	-2	–	0	rf	54	92	53	3	–	2	–	10	10	1600
8	Manchester	13.2	+4	ENE	2	dodo	59	97	54	5	6	2	–	7-8	10	800
10	Spurn Head	14.0	0	E	3	iro	54	97	53	6	7	7	–	4-6	10	1500
	Catterick (Sc)	14.2	+2	–	0	f	65	97	53	3	–	–	–	10	10	<150
	Tynemouth	16.0	+4	NE	2	m/r	52	97	52	4	5	–	–	9+	9+	2000
11	St. Abbs Head	14.6	+10	SE	2	roro	52	97	52	6	5	2	–	7-8	10	2400
	Leuchars	15.0	+6	ENE	2	roro	54	97	54	5	5	1	–	4-6	10	1000
12	Renfrew (Abbots I.)	14.6	+10	N	1	dodo	53	97	53	5	–	2	–	10	10	400
	Eskdalemuir	14.2	+6	ESE	2	roro	54	85	50	6	5	–	–	10	10	400
	Point of Ayre	13.6	+4	SE	2	roro	54	97	53	7	6	7	–	1	10	1000
13A	Tiree	15.1	*	NE	1	c	57	92	54	8	5	7	–	4-6	9	4000
13B	Stornoway	15.5	+6	NE	3	Zo	54	92	52	6	5	7	9	7-8	9+	4500
15	Dalwhinnie	15.0	+2	NE	2	roro	50	97	49	6	5	–	–	10	10	1500
	Aberdeen	16.0	+6	SSE	2	roro	53	97	52	4	6	2	–	7-8	10	800
	Wick	16.9	+2	SE	1	dr	52	97	52	4	5	–	–	9	10	200
16	Sumburgh	18.6	+2	E	2	roro	51	97	51	5	5	–	–	10	10	300
17	Blacksod Point	16.1	+10	N	6	dd	51	97	50	6	6	2	–	4-6	10	800
18	Malin Head	14.2	+12	NW	1	ido	54	97	53	7	5	–	–	10	10	800
	Aldergrove	14.2	+6	–	0	ido	55	92	53	5	5	–	–	10	10	800
19	Birr Castle	13.0	+6	NNE	1	c	55	97	54	7	5	–	–	10	10	1500
20	Valentia Obsy.	14.1	+8	N'E	4	iro	53	92	51	7	5	–	–	10	10	1400
	Roches Point	12.7	+12	N	2	c	56	97	55	8	8	–	–	9	9	1500

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

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)	13.5	+8	ESE	2	roro	57	97	55	4	5	2	–	7-8	10	2500	1	*
Croydon	13.8	+10	SE	3	roro	57	97	56	5	5	2	–	7-8	10	800	1	*
S. Farnborough	13.0	+10	ESE	2	m/d	57	97	56	4	5	–	–	10	10	800	1	*
Boscombe Down	11.8	+6	ESE	3	ido	56	97	56	6	5	–	–	7-8	10	500	1	*
Thorney Island	12.3	+4	ESE	3	ido	58	97	56	6	6	2	–	4-6	10	1500	1	*
Lympne	14.8	+6	SE'S	3	roro	57	97	56	5	5	–	–	10	10	700	1	§
Manston	15.0	+10	SSE	3	roro	57	92	55	6	5	–	–	10	10	4500	1	*
Shoeburyness	13.9	+4	SE	2	roro	57	97	55	5	5	–	–	10	10	1500	1	*
Felixstowe	15.2	+10	SSE	3	iro	56	97	55	5	5	2	–	7-8	10	3400	0	1
Gorleston	15.8	+2	S	2	Zo	56	97	55	6	5	–	–	7-8	7-8	1500	0	3
Mildenhall	14.6	+10	ESE	2	roro	57	92	55	6	5	–	–	10	10	1200	1	*
Cranwell	14.2	+6	E'S	2	roro	55	97	55	4	5	2	–	7-8	10	1500	1	*
Birmingham	13.3	+6	ESE	2	rf	56	97	55	2	6	–	–	10	10	450	1	*
Upper Heyford	12.6	+6	E	2	rf	56	97	55	3	5	–	–	10	10	600	1	*
Ross-on-Wye	11.4	+4	E'N	2	df	56	97	56	3	5	–	–	10	10	300	1	*
Hartland Point	10.0	+6	NE	3	rF	56	97	56	1	–	–	–	10	10	<150	1	3
Bristol	11.6	+12	E	2	dodo	57	97	56	4	5	–	–	10	10	500	1	*
Portland Bill	10.7	+6	E	4	o	58	92	56	7	5	–	–	10	10	2500	1	4
Plymouth	10.2	+8	–	0	roro	57	97	57	4	5	–	–	10	10	1200	1	1
The Lizard	10.3	+8	NW	3	o	55	97	55	6	5	–	–	10	10	1500	1	3
Scilly (St. Mary's)	11.2	+6	N'W	2	c	55	97	54	6	5	7	–	7-8	9+	1000	1	2
Guernsey																	
Pembroke	11.4	+2	NE'E	3	iro	55	97	55	6	8	–	–	10	10	1500	1	3
Holyhead (Valley)	13.0	+6	ENE	2	iro	54	92	52	4	–	7	–	0	7-8	–	1	1
Chester (Sealand)	13.1	+6	E	1	rf	55	92	53	2	–	2	–	10	10	600	1	*
Manchester	13.4	+4	E'N	2	roro	54	97	53	4	–	2	–	10	10	1800	1	*
Spurn Head	15.2	+8	E'S	3	Zo	53	97	52	6	7	7	–	7-8	10	1400	1	2
Catterick (Sc)	15.7	+10	NNE	2	rf	53	97	53	2	–	–	–	10	10	<150	1	*
Tynemouth	16.3	+6	NE	2	roro	53	97	51	4	–	2	–	10	10	1500	1	2
St. Abbs Head	15.8	+10	SE	1	oF+	51	97	51	1	5	–	–	10	10	1600	1	3
Leuchars	16.7	+14	E	1	b-bcF+	51	97	51	1	5	–	–	2-3	2-3	3000	1	*
Renfrew (Abbots I.)	16.0	+16	NE	1	of+	54	97	53	2	5	–	–	10	10	300	1	*
Eskdalemuir	15.5	+8	NE	2	c	51	92	49	6	5	3	–	4-6	9	900	1	*
Point of Ayre	14.4	+8	ENE	2	iro	54	92	52	7	6	7	–	1	10	1000	1	2
Tiree	16.9	+16	NNW	1	c	54	97	53	8	–	3	–	0	9+	–	1	1
Stornoway	17.1	+14	NNE	3	Zo	52	97	51	5	5	2	–	4-6	9+	2500	1	2
Dalwhinnie	15.6	+10	NE	1	ido	49	97	49	6	5	–	–	10	10	1500	1	*
Aberdeen	17.7	+12	E'N	1	f+	53	97	52	2	–	–	–	10	10	<150	1	2
Wick	18.9	+14	E	1	m/d	52	97	52	4	5	–	–	10	10	300	1	*
Sumburgh	19.1	+2	E'N	4	iro	51	97	51	4	5	–	–	10	10	300	1	2
Blacksod Point	17.7	+10	N'W	6	ido	52	92	50	6	6	2	–	4-6	10	800	1	5
Malin Head	15.9	+10	NW'N	1	fs	53	97	52	3	5	–	–	10	10	800	2	2
Aldergrove	15.5	+10	–	0	ido	54	97	53	5	5	–	–	10	10	2500	1	*
Birr Castle	14.3	+10	N	1	c	56	92	54	8	5	1	–	7-8	10	2500	1	*
Valentia Obsy.	16.0	+10	N	5	roro	53	92	51	7	5	–	–	10	10	1300	1	4
Roches Point	13.6	+8	N'E	3	r	56	92	54	8	8	–	–	9	9	1500	1	4

PAST 24 HOURS.

Stations	Weather 7h.—13h. 1st (39)	Weather 13h.—18h. 1st (40)	Weather 18h. 1st to 1h. 2nd (41)	Weather 1h.–7h. 2nd (42)
London (Kew)	crocmo	croron	crorocm	cdo ido
Croydon	crorododomo	crororomo	crorocmo	cmdo dcmo
S. Farnborough	cdomrodomo	cdomocm	cmdcmo	bmcmdo
Boscombe Down	croromdodo	cdo docmo	cdo m	cdo mo dicmo
Thorney Island	idocm	cido	cm bcm	bcm iro
Lympne	iromoc	cirororo	cro r memo	moro roc
Manston	ciroc	cror	cmo ido ir	cmo ido cm
Shoeburyness	roromoc	crorocmororo	ro ro mo c	iro mo c
Felixstowe	cmoc	cmo ciromo	crro cmo	iro mo c
Gorleston	c	cZo	bccZo w	crcZo
Mildenhall	ciromo	croromo	cro mo cirm	cro ro mcmo
Cranwell	crofecmo	crorom	cmro ro	cmro fmifcm
Birmingham	ororof	frorr	friro	off
Upper Heyford	ofomroro	croromof	cmo ro ro	cmbcmof
Ross-on-Wye	roffof	df dof	do fcm	cc
Hartland Point	irrf	ciromf	+d ffoc	cdd rodc
Bristol	rrrorofdodo	cmo dodo	omo do do	cmcmo rocmo
Portland Bill	prr	orro	oo	orr
Plymouth	cmiro	cmrr	omo	cmo
The Lizard	rrirc	cidd	cZo id	idZo
Scilly (St. Mary's)	c	c	cro c	c
Guernsey				
Pembroke	crorom o	ciro	cir	crmo
Holyhead (Valley)	crorom	cfcm	cido m	cdo dro ro
Chester (Sealand)	roroffo	croroff	ororo ff	cff ro ro
Manchester	roromo	romododom	ido ro m	do ro m
Spurn Head	ciromo	cmo c	omo	cmo
Catterick (Sc)	oroFmf	oforrf	oro ro f	orrido F
Tynemouth	ororom	coirom	oro ro m	oido mff
St. Abbs Head	orfomrr	cmroF	oFrfF	F
Leuchars	orrorom	crorombF	Foiro f	oro F
Renfrew (Abbots I.)	crorofmmo	cdodomidf	cfmbcm	bcmcidm
Eskdalemuir	ororo	roroc	ccrmo	cromo
Point of Ayre	cro ro	c	iro c	ddrr
Tiree	c	c	bcmo bcw	bwcwm
Stornoway	ccmo	cmo	bccmo cido	bcwc
Dalwhinnie	orr	oirod	*	oido
Aberdeen	ormommm	moroomoff	offodo ff	odo dfmF
Wick	cmrrcmdo ro	cmdodo	of	of mom
Sumburgh	ofmroo	omroroo	omf	fido
Blacksod Point	d	d	d	d
Malin Head	r	f	f	c
Aldergrove	moidomo	cidomocmo	cmobc	do do mo cmo
Birr Castle	c	c		+
Valentia Obsy.	r	r	+	+
Roches Point		pr	pr	+

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

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Light or moderate ~~southeast~~ wind, veering south to southwest; dull, with occasional rain or drizzle, becoming mainly fair later; much mist and local fog; mild.
5 S.W. England	Light southwest wind; mainly cloudy; mild.
6 South Wales; 7 North Wales	As 0-4.
8 N.W. England; 9 N. Midlands	Light or moderate east wind; cloudy with local rain or drizzle; mild
10 N.E. England; 11 S.E. Scotland	Light or moderate east wind; dull with occasional rain or drizzle; much mist and fog; mild.
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland	As 8-9
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	Light or moderate northeast wind; dull with local rain or drizzle; mild.

GENERAL INFERENCE

A depression centred over Southwest England is gradually filling and slowly moving north. It will be generally dull with some rain or drizzle in most districts and with much mist and fog in the Midlands, Northeast England and East Scotland. Some improvement will spread slowly north over England and Wales. It will be generally mild.

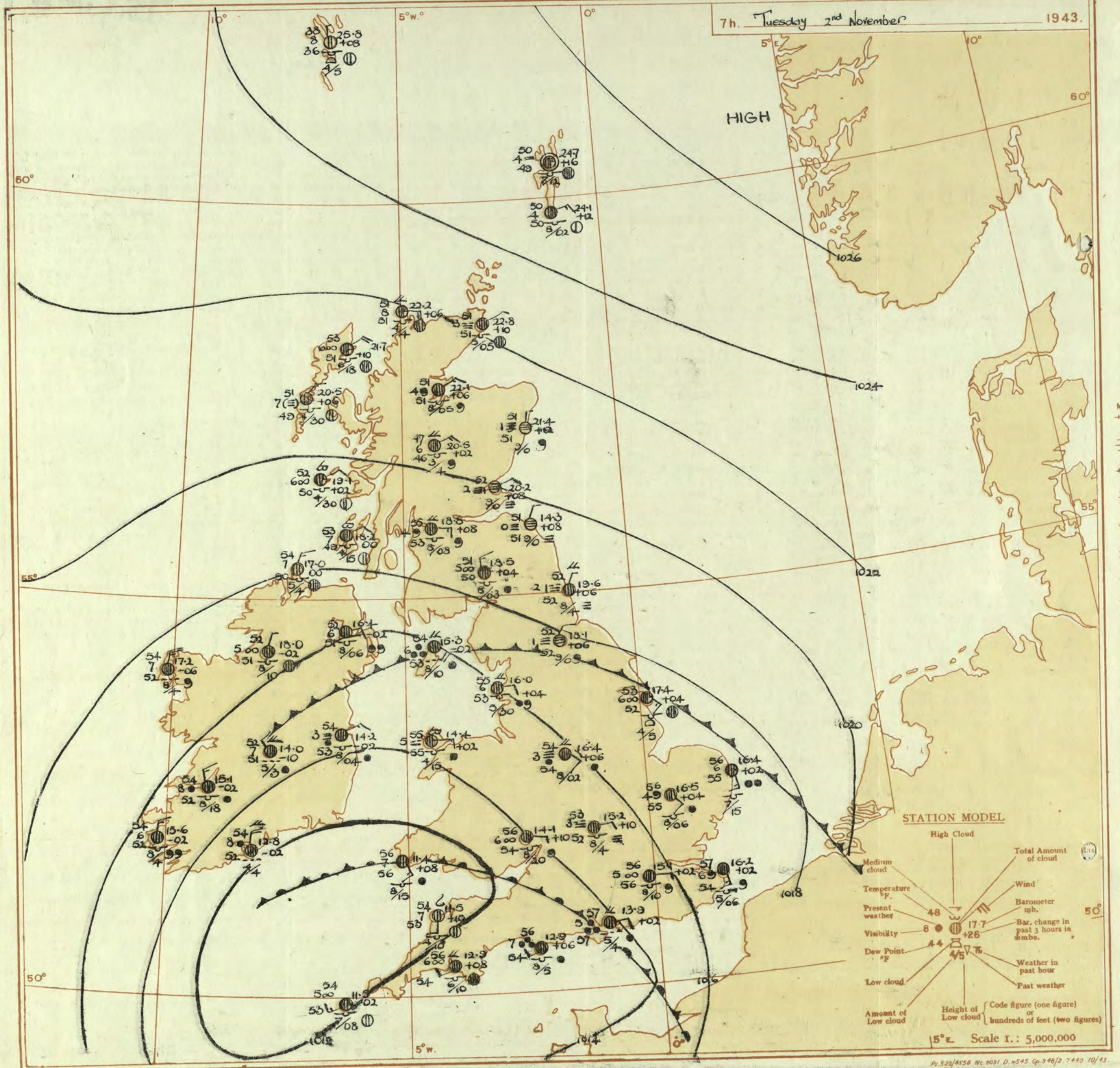
FURTHER OUTLOOK

Mainly fair over England and Wales, but with some fog. Continuing dull in Scotland with much mist and drizzle in East.

Forecasts issued at 1030.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Tuesday 2nd November 1943.



Pz 523/4556 Wt. 8091 D. 1545 Gp. 948/2 7440 10/43.

HMSO Press MO 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.

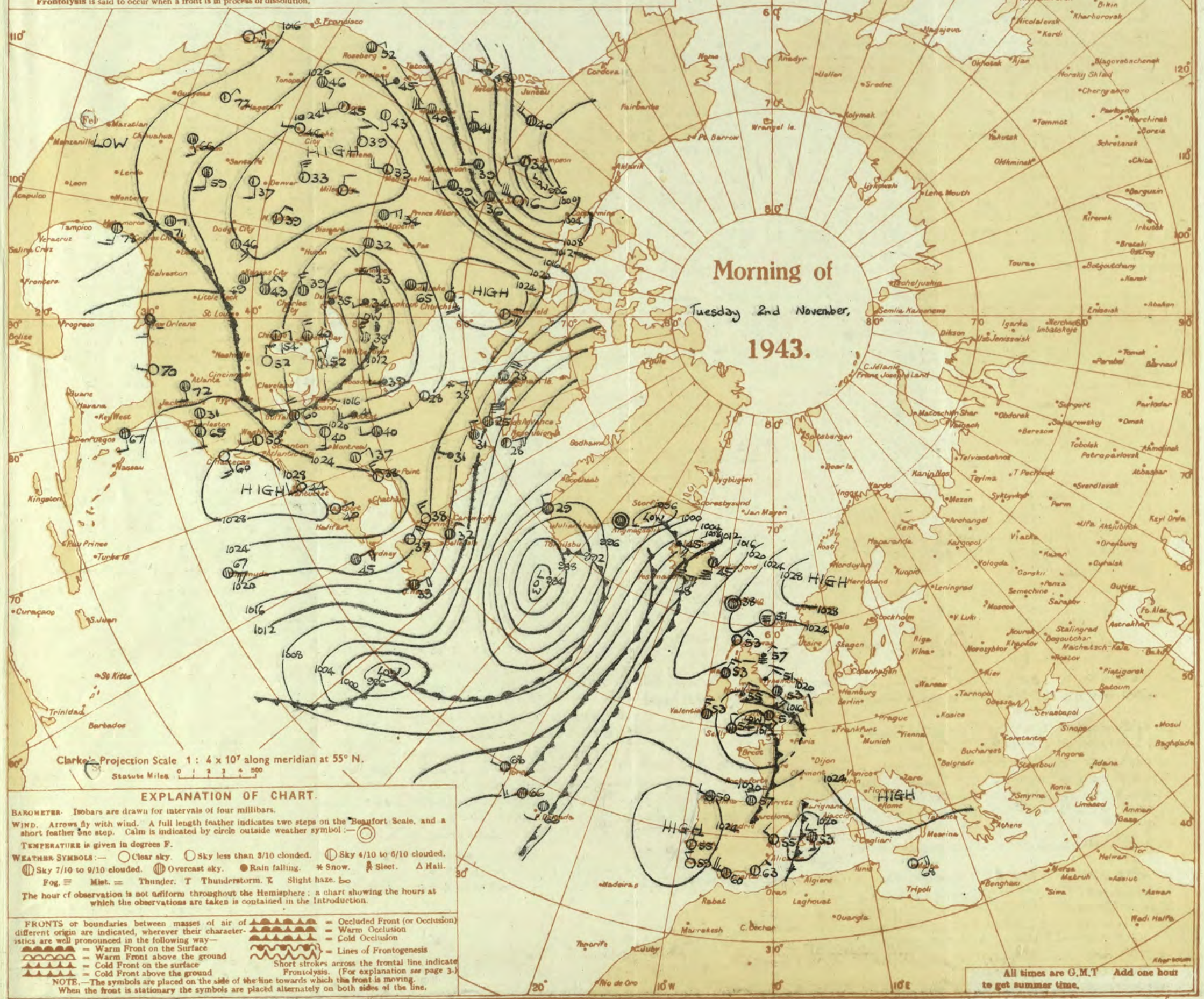
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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 2nd November 1943

No. 29930

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

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	*	*	*	*	*	56	*	*	*	*	*	*	*	*	*
	Croydon	290	15·5	+10	SE	1	z₀	57	92	55	5	5	-	6	7-8	9	2000
	S. Farnborough	226	14·6	+6	SE	2	z₀	57	97	55	5	5	-	·	10	10	900
	Boscombe Down	417	13·5	+8	SE	4	d₀d₀	56	97	56	6	5	-	·	10	10	500
	Thorney Island	10	14·4	+8	SE'E	2	z₀	58	97	57	6	5	7	·	2-3	4-6	2500
	Lympne	283	16·5	+6	SSE	3	z₀	56	97	55	6	5	2	·	7-8	9+	700
	Manston	154	16·3	+2	SSE	3	id₀	57	97	56	5	6	2	·	9	10	600
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	16·6	+6	ESE	3	ir₀	56	97	55	5	5	-	·	10	10	2300
	Gorleston	5	16·3	+2	SE'E	2	z₀	55	97	54	6	5	-	·	10	10	1500
	Mildenhall	15	16·0	+6	SE'E	2	ir₀	56	92	55	5	5	-	·	9+	9+	800
	Cranwell	203	16·1	+8	E	1	r₀r₀	54	97	54	4	5	-	·	10	10	800
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	14·2	+8	ENE	3	c/r	55	92	55	4	6	2	·	4-6	10	600
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	11·1	+4	E	1	c	56	97	56	7	5	2	-	7-8	10	1500
	Bristol	209	12·7	+10	E	2	id₀	57	97	56	5	6	2	-	2-3	10	300
	Portland Bill	32	12·2	+10	SSW	3	o	57	92	55	7	5	-	·	10	10	2500
	Plymouth	86	11·8	+6	SW	3	z₀	56	97	56	5	5	-	-	10	10	1500
	The Lizard	240	11·9	0	NW	2	id₀	53	97	55	6	5	-	·	10	10	1500
	Scilly (St. Mary's)	163	12·4	0	N	2	c	54	97	54	6	5	-	-	9	9	1500
	Guernsey	175															
6	Pembroke	142	12·3	+2	NE	3	c/r	55	97	55	7	5	-	·	10	10	1500
7	Holyhead (Valley)	32	14·2	-2	NNE	2	dr	55	97	55	5	3	7	-	4-6	10	600
	Chester (Sealand)	16	14·4	+2	E	1	rf	55	92	53	1	5	2	·	7-8	10	1100
8	Manchester	230	14·9	+2	ENE	2	r₀r₀	55	97	54	4	6	2	-	4-6	10	1000
10	Spurn Head	29	16·6	+4	SE	3	z₀	53	97	52	6	5	-	-	10	10	1500
	Catterick (Sc)	192	17·2	+4	NNE	1	+f	52	97	52	2	-	·	-	10	10	<150
	Tynemouth	108	18·4	+6	NE	2	ir₀	51	97	51	4	-	2	-	10	10	1500
11	St. Abbs Head	280	18·2	+4	N	2	F	50	97	50	0	-	-	-	10	10	<150
	Leuchars	36	19·6	+6	-	0	+f	51	97	51	2	-	2	-	10	10	200
12	Renfrew (Abbots I.)	19	18·6	+6	E'N	2	m	52	92	49	4	5	-	·	4-6	4-6	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	16·3	+8	E'S	3	c	54	97	53	7	5	2	-	4-6	10	1500
13A	Tiree	44	18·9	+6	NNE	1	b-bc	49	92	48	7	5	-	·	2-3	2-3	3000
13B	Stornoway	12	20·8	+12	NE	3	bc	53	97	51	7	5	-	-	4-6	4-6	2000
15	Dalwhinnie*	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	20·2	+6	NNE	1	+f	51	97	51	2	5	2	-	10	10	200
	Wick	114	21·2	+2	NE	1	f	52	97	52	3	-	-	-	10	10	<150
16	Sumburgh	19	22·3	+6	ENE	1	F	50	97	50	1	-	-	-	10	10	<150
17	Blacksod Point	18	18·6	0	NNW	4	id	53	97	52	7	6	2	·	4-6	10	800
18	Malin Head	84	17·6	-2	NNE	3	c	53	97	52	7	5	-	·	10	10	1500
	Aldergrove	268	17·3	+6	NE	1	bc	51	92	49	6	5	-	-	4-6	4-6	1500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	16·7	-6	N	3	c	53	92	51	8	5	-	-	9+	9+	1500
	Roches Point	22	14·8	-2	N	4	r₀r₀	53	97	52	8	6	2	·	4-6	10	1500

OBSERVATIONS at 7 hr. G.M.T. 2nd November — 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 Hrs. (38)
London (Kew)	15·2	+2	ENE	2	id₀	56	97	55	4	5	2	-	9	10	2500	1	*	58	52	51	3	2	0·0
Croydon	15·1	+2	E	1	z₀	56	97	56	5	5	-	-	10	10	1000	1	*	58	55	53	0·6	0·6	0·0
S. Farnborough	14·6	+4	ENE	2	d₀d₀	56	97	55	4	5	-	-	10	10	400	1	*	57	55	46	1	0·1	0·0
Boscombe Down	14·3	+6	E	3	ir₀	54	97	54	6	5	2	-	7-8	10	1000	1	*	56	53	52	1	2	0·0
Thorney Island	13·9	+2	ENE	2	rr	57	97	57	5	6	2	·	7-8	10	1500	1	*	59	54		1	1	*
Lympne	16·1	+2	SSE	3	r₀r₀	55	97	55	5	5	-	·	10	10	600	1	§4	57	54	53	1	2	0·0
Manston	16·2	+2	SSE	3	id₀	57	92	54	6	5	-	·	7-8	10	600	1	*	59	57	53	1	1	0·0
Shoeburyness	16·2	0	SE	2	z₀	57	97	55	6	5	-	·	10	10	1000	1	*	57	54	50	1	2	0·0
Felixstowe	18·8	0	E	3	z₀	56	97	56	5	5	-	-	10	10	1500	1	2	59	55	53	Tr	[illegible]	0·2
Gorleston	16·4	+2	SSE	3	c/r	56	97	55	6	5	-	·	9+	9+	1500	1	2	57	54	45	-	0·5	1·5
Mildenhall	16·5	+4	ESE	2	id₀	56	97	55	4	5	-	·	10	10	600	1	*	60	54	52	1	1	0·0
Cranwell	16·6	+6	ESE	2	F	54	97	54	1	-	-	-	10	10	<150	1	*	55	53	43	2	4	0·0
Birmingham	15·4	+8	ESE	2	of	54	97	54	2	6	-	-	10	10	800	1	*	56	54	50	8	2	0·0
Upper Heyford	15·2	+10	E'N	1	of	53	97	52	3	3	-	-	10	10	1500	1	*	56	52		4	1	*
Ross-on-Wye	14·1	+10	E'S	1	z₀	56	97	54	6	5	-	·	10	10	2000	1	*	56	56	54	5	0·4	0·0
Hartland Point	11·5	+10	S	2	c-bc	54	97	53	7	5	4	-	4-6	7-8	1000	1	3	56	54	52	3	2	0·0
Bristol	13·8	+10	ESE	1	z₀	56	92	54	6	5	2	·	9+	10	1700	1	*	58	50	49	2	0·4	0·0
Portland Bill	12·9	+6	WSW	2	++	56	92	54	7	5	-	-	10	10	2500	1	4	58	54	*	3	0·6	*
Plymouth	12·9	+8	SW	2	z₀	56	97	54	6	5	2	-	9	10	1000	1	1	59	55	53	12	1	0·0
The Lizard	12·4	+4	W	3	o	55	97	55	6	5	-	·	10	10	1000	1	3	56	54	*	1	Tr	0·0
Scilly (St. Mary's)	11·5	-2	WSW	3	z₀	54	97	54	5	5	-	-	9+	9+	800	1	3	57	53	*	-	Tr	0·0
Guernsey																							
Pembroke	11·4	+8	SE'S	3	c	56	97	56	7	5	-	·	10	10	1500	1	3	56	52	*	2	6	0·0
Holyhead (Valley)	14·4	+2	E'N	3	fs	55	97	55	5	6	7	-	4-6	9	1500	1	1	57	53	52	0·3	1	*
Chester (Sealand)	15·0	-6	ESE	2	m	56	92	54	4	5	-	·	9+	9+	1500	1	*	55	52	47	2	3	0·0
Manchester	15·6	+2	E'N	1	z₀	55	97	54	5	6	·	·	10	10	1000	1	*	56	54	52	1	4	*
Spurn Head	17·4	+4	E'S	3	z₀	53	97	52	6	7	3	-	4-6	9+	2500	1	2	54	52	*	0·1	-	0·0
Catterick (Sc)	18·1	+6	NNE	2	F	52	97	52	1	-	-	-	10	10	<150	1	*	55	51	60	2	1	0·0
Tynemouth	19·6	+6	NNE	1	of+	52	97	52	2	-	2	-	10	10	1500	1	2	53	52	49	2	2	- *
St. Abbs Head	19·3	+8	NNE	1	F	51	97	51	0	-	-	·	10	10	<150	1	3	52	54	49	3	0·6	*
Leuchars	20·2	+8	NE	2	f	52	97	51	2	-	-	·	10	10	<150	1	*	54	49	44	3	0·2	0·0
Renfrew (Abbots I.)	18·8	+8	E	3	id₀	55	92	53	4	5	2	-	10	10	800	1	*	57	60	42	3	0·1	0·0
Eskdalemuir	18·5	+4	N'W	3	z₀	51	97	50	5	5	-	-	10	10	300	1	*	54	48	48	2	2	0·0
Point of Ayre	15·3	-2	E'S	4	++	54	97	53	6	6	2	·	10	10	1000	1	3	55	53	*	1	1	0·0
Tiree	19·1	+2	NE	2	z₀	52	92	50	6	5	7	-	4-6	9+	3000	1	1	57	49	41	-	·	0·8
Stornoway	21·7	+10	NE	4	z₀	53	92	51	6	5	-	·	9	9	1800	0	3	55	50	47	-	-	0·0
Dalwhinnie*		+2	NE	3	c	47	97	46	6	5	2	-	2-3	10	1500	1	*	51	45	44	6	0·1	0·0
Aberdeen †	21·4	+12	NNE	1	dF	51	97	51	1	-	-	-	10	10	<150	1	1	53	50	48	6	0·3	0·0
Wick	22·3	+10	NE	1	f	51	97	51	3	5	-	-	10	10	500	1	*	54	51	50	6	1	*
Sumburgh	24·1	+12	NE	3	m	50	97	50	4	5	-	-	10	10	200	1	2	51	50	49	5	2	0·0
Blacksod Point	17·2	-6	NNE	5	c	54	92	50	7	6	-	-	10	10	1500	1	4	52	50	*	1	0·2	*
Malin Head	17·0	0	NNE	3	c-bc	54	85	50	7	5	-	-	7-8	7-8	1500	2	3	58	53		0·1	-	0·0
Aldergrove	16·4	-2	ENE	2	c/d	52	97	51	6	6	-	-	10	10	600	1	*	56	49	43	0·1	0·2	0·0
Birr Castle	14·0	-10	NW	2	c	52	97	51	7	6	2	-	7-8	10	800	1	*	58	52	52	-	4	0·0
Valentia Obsy.	15·6	-2	N	3	c/d	54	92	52	6	5	-	-	10	10	1200	1	3	54	53	51	3	0·5	0·0
Roches Point	12·8	-2	N	4	ir₀	54	92	52	8	6	2	-	4-6	10	1500	1	4	57	53	*	0·3	1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

IIIC$_L$C$_M$	13h. G.M.T. 1st November wwVhN$_h$	DDFWN	18h. G.M.T. C$_L$C$_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 2nd November C$_L$C$_M$	wwVhN$_h$	DDFWN	07h. G.M.T. C$_L$C$_M$	wwVhN$_h$	DDFWN
109 5-	62628	09368	5-	22528	06158	5-	45315	00015	5-	05538	05348
115 --	67109	08469	--	67109	08469	52	02544	08467	52	02844	08427
203			04	02850	04325						
206 02	62528	02368	02	51528	02268	5-	08428	00048	5-	57428	04358
210 52	62665	08168	52	02456	08168	:-	48109	04249	--	57109	04159
219 57	02875	00027	05	01790	80115	00	09690	04240	5-	09764	04314
230 57	05857	00058	57	02856	02127	5-	05648	00028	5-	02867	04127
245 5-	62438	00068	57	08433	00068	5-	61348	10168	5-	05538	02248
260 04	67338	04258	52	47243	02144	--	48309	04249	--	57209	04249
278											
279 52	21565	10158	57	61464	08368	02	52538	06268	62	22544	06468
285									5-	54528	08258
288 57	48346	32268				--	48109	03269	--	46209	03269
575 24	01863	00014	7-	02745	04127	5-	08448	32228	6-	05548	02128
301 52	61455	04268	02	62458	04268	52	52563	06258	52	21665	07268
321 52	57335	04168	67	61435	06168	02	62438	06268	02	62328	08168
290 5-	22548	12268	5-	03648	06128	5-	05647	16227	4-	05546	12216
292 02	57338	00068	02	08438	00058	5-	52348	061[illegible]	02	43328	04158
310 --	67003	32449	--	57003	32449						
614 02	57358	04258	02	67[illegible]8	08168	02	62228	09168	--	47109	06149

IIIC$_L$C$_M$	13h. G.M.T. 1st November wwVhN$_h$	DDFWN	18h. G.M.T. C$_L$C$_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 2nd November C$_L$C$_M$	wwVhN$_h$	DDFWN	07h. G.M.T. C$_L$C$_M$	wwVhN$_h$	DDFWN
333 57	02664	14157	07	22590	00067	52	62556	30168	5-	05647	04267
334 --	51537	28188							--	03537	08128
340			-2	62338	08268	5-	67338	10268	52	08546	10348
136			57	05664	14367	5-	62668	12268	57	22444	10268
336			--	48109	04249				62	62526	12368
350 62	62446	00068	02	67328	00068	62	67338	08148	5-	45338	08168
368 5-	51435	06858	5-	57328	07258	5-	31448	08258	5-	05548	08128
379 5-	22418	12868	--	61609	12349	5-	21408	12458	--	48109	12349
390 57	62446	10268	62	67337	10368	5-	45238	14168	5-	13337	08248
382 52	61637	11268	52	62625	10268	5-	22635	12268	4-	51537	10118
438 5-	02748	14368				5-	05645	16315	84	22745	14466
430 5-	52536	12258	5-	05648	10428	5-	01774	12225			
409 52	02735	31368	--	46109	30349	--	48109	00049	5-	65407	17258

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 November
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	cr₀cm₀	cr₀rr₀m	cr₀r₀d₀
Croydon	cr₀r₀d₀m	cr₀r₀m₀	cr₀r₀d₀m
Greenwich	rcr₀	r₀r₀r	rrcid₀
Camden Square	or	or	*
Kensington	ocr	or	*
Hampstead	ofr	ofr	ofr

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. Time: 0·4 17/18h.
Min. Time: 0·1 1st 0/7h. 2nd.

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	58	52	51	3	2	0·0	*	*
Croydon	58	55	53	0·6	0·6	0·0	*	*
Greenwich	57	55	51	1·8	2·8	0·0	94	96
Westminster	59	56	52	2·2	2·4	*	94	97
Regents Park								
Camden Square	57	56	51	2·5	2·3	*	*	95
Kensington	58	56	50	2·2	2·4		98	99
Hampstead	57	53	51	2·3	3·2		*	

Page 1 BRITISH SECTION

CANCELLED

SECRET

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

Wednesday 3 November 1943

No. 29931

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

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)	16·5	+6	SE	3	z₀	58	75	51	6	8	3	–	7-8	7-8	4000
	Croydon	16·8	+6	SE	3	c	58	85	54	7	5	7	–	7-8	9+	1000
	S. Farnborough	15·9	+4	SE	3	d₀d₀	57	85	54	5	3	7	–	9+	10	1000
	Boscombe Down	13·6	+10	SW'S	4	ir₀	44	97	43	6	5	–	–	4-6	10	800
	Thorney Island	16·7	+20	SSW	4	rr	56	97	56	6	6	2	–	7-8	10	800
	Lympne	18·0	+6	SSW	3	id	55	97	54	5	5	2	–	4-6	10	300
	Manston	17·9	+2	S	4	id₀	55	92	53	7	5	–	–	9+	9+	1200
2	Shoeburyness	17·8	+10	SE	3	c	57	85	53	7	5	–	–	9+	9+	2500
	Felixstowe	18·5	+10	SE	4	c	57	85	51	8	5	–	–	10	10	2500
	Gorleston	18·7	+8	SSE	4	c	56	92	54	7	5	–	–	10	10	1500
	Mildenhall	17·6	+4	SE'S	3	c	59	92	56	8	5	–	–	9+	10	2500
	Cranwell	17·2	-2	ENE	3	of-	56	97	56	3	5	–	–	10	10	400
3	Birmingham															
	Upper Heyford	13·6	+2	ESE	2	ir₀	56	97	56	4	5	2	–	4-6	10	500
4	Ross-on-Wye	14·7	-4	E	2	ir₀	55	97	55	5	6	2	–	9+	10	800
5	Hartland Point	14·0	+4	SE	3	c	56	97	55	7	5	6	–	7-8	9+	1500
	Bristol	14·8	+2	N	2	ir	55	97	55	4	6	2	–	9+	10	450
	Portland Bill	15·7	+18	S	4	rr	56	92	54	7	5	–	–	10	10	2500
	Plymouth	15·4	+10	SW'S	4	c	56	85	53	8	5	2	–	7-8	9+	1000
	The Lizard	13·9	+6	SW	3	c	55	92	53	8	5	1	–	7-8	9+	1500
	Scilly (St. Mary's)	13·0	+2	SW'W	2	c	56	92	54	6	8	–	–	10	10	800
	Guernsey															
6	Pembroke	14·3	+10	SE'S	2	c	56	97	55	7	5	–	–	10	10	1500
7	Holyhead (Valley)	15·4	+2	ENE	2	z₀	62	75	55	6	5	3	1	2-3	7-8	3000
	Chester (Sealand)	16·0	-2	E'S	2	z₀	60	85	55	6	5	2	–	7-8	10	3500
8	Manchester	16·6	+2	NE	2	z₀	58	92	55	6	5	3	–	4-6	9+	2000
10	Spurn Head	18·7	+2	E	3	c	54	97	54	6	5	2	–	2-3	10	1600
	Catterick (Sc)	19·1	+2	NE	2	f–	53	97	53	2	–	–	–	10	10	<150
	Tynemouth	20·9	+2	ESE	2	oF	51	97	51	1	5	–	–	10	10	1500
11	St. Abbs Head	21·0	+12	E	2	of+	51	97	50	3	5	–	–	10	10	1000
	Leuchars	11·0	+6	ENE	3	df	52	97	52	2	–	–	–	10	10	<150
12	Renfrew (Abbots I.)	20·3	+6	E	4	z₀	52	85	48	5	5	7	–	7-8	10	800
	Eskdalemuir	19·9	+2	N'E	3	c	52	92	50	6	5	–	–	10	10	300
	Point of Ayre	17·4	+4	E'S	3	c	58	92	54	7	5	7	–	4-6	10	1500
13A	Tiree	19·5	+2	ENE	1	c	56	85	52	8	–	7	–	0	10	–
13B	Stornoway	21·7	-4	ENE	4	c	54	85	51	7	5	7	–	4-6	9+	2800
15	Dalwhinnie		+2	NE	3	cbc	56	75	49	7	8	4	–	4-6	7-8	1500
	Aberdeen	23·2	+6	ENE	2	m	52	97	52	4	–	2	–	10	10	800
	Wick	24·2	0	E	2	df	52	97	52	3	5	–	–	10	10	300
16	Sumburgh	26·0	+2	E'S	3	F+	51	97	51	1	–	–	–	10	10	<150
17	Blacksod Point	17·0	-6	SE'S	3	c	55	92	53	7	5	–	–	10	10	800
18	Malin Head	17·6	0	E'S	2	d	54	92	53	6	5	–	–	10	10	800
	Aldergrove	17·5	+4	E	3	r₀d	55	97	54	6	5	–	–	10	10	600
19	Birr Castle	14·2	0	N	1	f	55	97	54	3	–	–	–	10	10	<150
20	Valentia Obsy.	15·8	-2	N'E	3	ir₀	55	92	53	7	5	–	–	9+	9+	1200
	Roches Point	13·8	0	N	4	r₀r₀	54	97	53	6	6	2	–	4-6	10	800

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

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)	20·5	+28	S'E	2	b-bc/r	53	97	52	6	5	–	2	2-3	2-3	1500	1	*
Croydon	19·7	+18	S	3	z₀	53	92	51	5	5	3	2	4-6	7-8	800	1	*
S. Farnborough	19·9	+26	S'E	2	c	54	92	52	6	7	7	–	7-8	9	2100	1	*
Boscombe Down	19·2	+26	S	3	b	52	92	50	7	6	3	–	Tr	1	800	1	*
Thorney Island	19·9	+22	SSW	3	bc	56	85	53	8	2	6	2	1	4-6	2500	1	*
Lympne	21·5	+20	SW	4	cbc/pr	53	97	53	7	2	–	–	7-8	7-8	1000	1	4
Manston	21·5	+26	SSW	3	c	55	85	41	8	2	3	–	4-6	9	1800	1	*
Shoeburyness	20·8	+24	SSW	3	z₀	56	92	53	6	5	3	–	4-6	7-8	2500	1	*
Felixstowe	21·1	+30	S	4	c-bc	56	92	53	7	5	7	–	4-6	7-8	4000	0	3
Gorleston	19·8	+6	S	4	bc	57	85	53	7	5	–	–	4-6	4-6	1500	1	3
Mildenhall	19·4	+14	S'E	3	bc/d	56	92	53	6	5	–	–	4-6	4-6	2500	1	*
Cranwell	18·6	+14	SE	2	z₀	53	92	52	6	5	3	–	7-8	9	1500	1	*
Birmingham	17·3	+10	S	3	z₀	55	92	53	6	5	–	–	10	10	800	1	*
Upper Heyford	18·2	+24	SSW	3	c/d	54	97	52	5	5	–	–	9+	9+	1000	1	*
Ross-on-Wye	16·8	+16	S	2	c/r	54	97	52	6	5	–	–	9	9	1500	1	*
Hartland Point	15·2	+12	SSE	2	bc	54	92	52	8	1	4	–	Tr	4-6	1800	1	3
Bristol	17·6	+20	S	3	bc	54	85	51	8	5	7	–	4-6	4-6	800	1	*
Portland Bill	18·3	+16	SSW	4	c-bc	56	92	54	8	3	–	–	7-8	7-8	2500	1	4
Plymouth	16·9	+12	SSW	3	bc	54	85	49	8	8	–	–	4-6	4-6	2500	1	3
The Lizard	15·1	+8	SSW	3	c	54	92	52	7	5	3	r	7-8	9+	1500		3
Scilly (St. Mary's)	14·0	+10	W	3	ir₀	54	97	54	6	5	–	–	10	10	800	1	3
Guernsey																	
Pembroke	15·3	+6	S	3	o/r	55	97	54	6	5	–	–	10	10	1500	1	2
Holyhead (Valley)	16·0	+2	E'N	2	rf	56	97	56	3	–	–	–	10	10	<150	1	1
Chester (Sealand)	16·7	+10	ESE	1	r₀r₀	58	85	54	4	–	2	–	10	10	2600	1	*
Manchester	17·0	+4	SE	3	c/d	57	92	54	5	5	2	–	7-8	10	2400	1	*
Spurn Head	18·8	+6	SE	4	c	54	92	52	6	8	6	–	7-8	9+	1500	1	2
Catterick (Sc)	19·3	+2	NE	3	rF	51	97	51	1	–	–	–	10	10	<150	1	*
Tynemouth	20·9	+2	NE	2	oF	51	97	51	1	5	–	–	10	10	1500	1	
St. Abbs Head	21·3	+4	NE	·	rf	50	97	50	2	5	–	–	10	10	1500	1	3
Leuchars	21·8	0	ENE	3	d₀d₀	52	97	51	4	5	–	–	10	10	200	1	*
Renfrew (Abbots I.)	20·8	+6	ENE	3	id₀	52	92	50	5	5	–	–	10	10	500	1	*
Eskdalemuir	19·9	0	NE'N	2	f	49	92	47	3	5	–	–	10	10	<150	1	*
Point of Ayre	17·5	+2	E'S	4	r₀r₀	55	97	54	6	–	2	–	10	10	2000	1	4
Tiree	19·3	0	ESE	2	c-bc	56	85	52	8	4	3	–	4-6	7-8	2500	1	1
Stornoway	20·8	-2	E	3	z₀	54	92	51	6	5	7	–	7-8	9+	3500	0	3
Dalwhinnie		0	SSE	1	c-bc	47	85	44	7	5	–	–	7-8	7-8	2500	0	*
Aberdeen	23·3	+2	E	3	d₀d₀	52	97	51	4	–	2	–	10	10	800	1	3
Wick	24·4	+2	ESE	3	m	52	97	51	4	5	–	–	10	10	500	1	*
Sumburgh	27·0	+10	ESE	4	z₀	51	85	48	5	5	–	–	7-8	10	600	1	2
Blacksod Point	16·8	+2	NE'N	·	c	54	97	54	7	5	–	–	10	10	800	1	2
Malin Head	17·8	0	E'N	4	ir	55	92	53	5	5	–	–	10	10	800	2	3
Aldergrove	17·9	+2	ENE	3	r₀r₀	55	97	53	5	5	–	–	10	10	500	1	*
Birr Castle	15·1	+8	N	1	c	55	97	55	7	8	7	–	7-8	9	1500	1	*
Valentia Obsy.	16·7	+10	N'W	2	c/r	54	92	52	7	5	7	–	7-8	10	1500	1	1
Roches Point	14·4	+6	N	2	id	54	97	54	6	5	–	–	10	10	800	1	4

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 2nd (39)	13h.—18h. 2nd (40)	18h. 2nd to 1h. 3rd (41)	1h.—7h. 3rd (42)
London (Kew)	ir₀z₀	rir₀bcm₀m	bcbm₀w	bbccm₀w
Croydon	cir₀m₀cm₀	cd₀d₀m₀bcm₀	bcm₀	bcm₀w
S. Farnborough	cm₀r₀id₀d₀	cd₀pr₀m₀c	cbcm₀bbc	bcbm₀w ir₀m₀
Boscombe Down	corrmcir₀m₀	cr₀m₀cb	bcpr₀bc	bcpr₀cbc
Thorney Island	cirim₀	crrm₀cprc	bcbw	bwawcm₀
Lympne	cr₀r₀idm₀	cpr₀c	cbcbbm₀	bcm₀wbcc
Manston	cm₀id₀bcir₀d₀	cid₀r₀c	cbcb	bbw
Shoeburyness	cir₀cm₀	cm₀	bm₀	bcm₀w
Felixstowe	cm₀c	cir₀c	b	b
Gorleston	cid₀bcc	pr₀d₀bc	bcbw	bbcw
Mildenhall	cid₀m₀c	cid₀cir₀m₀	bm₀	bm₀m
Cranwell	cf		bm₀	fF
Birmingham		forc	cz	cz
Upper Heyford	cfr₀r₀m	cir₀m₀cd₀d₀	cm₀bcm₀	bccm₀
Ross-on-Wye	ccr₀R	ccr	cbcc	bccr₀
Hartland Point	bcc	cr₀bc	bc	bccir₀
Bristol	ddcm₀r₀fFr	rcm₀ir₀c	bcbbcm₀id₀	cm₀r₀r₀cm₀r₀
Portland Bill	orr	orrc	orr	o
Plymouth	cmir₀c	c	bc	cr₀r₀m₀
The Lizard	cz₀c	cbcc	cprr	cmrr
Scilly (St. Mary's)	c	cir₀	cidr	crrir
Guernsey				
Pembroke	cir₀m₀	cirm₀	cbc	c
Holyhead (Valley)	bcm₀cmm	cr₀cm₀	cr₀r₀fc	cir₀bc
Chester (Sealand)	mm₀c	cm₀r₀r₀	cmrr	or₀r₀m
Manchester	cm₀id₀	id₀m₀m	id₀ir₀bcm₀	om₀
Spurn Head	om	cm₀	b	bc
Catterick (Sc)	oFF	oir₀F	cf	cfofcf
Tynemouth	oFeFe	oFeFe	bcm₀	obccm₀
St. Abbs Head	FcmfF	fomdcmofr₀	Fr₀	F₀omcm
Leuchars	odd FF	od₀d₀m	ofd₀d₀F	od₀Fmof
Renfrew (Abbots I.)	cm₀	cm₀id₀	cir₀d₀d₀m	cd₀d₀m₀m
Eskdalemuir	om₀	oid₀f	fd₀d₀	od₀o
Point of Ayre	id₀c	cr₀r₀	f₀r₀ddp	ir₀r₀
Tiree	cm₀c	cbcw	bc	bccw
Stornoway	cm₀c	ccm₀	cm₀cbc	bcbm₀wbf
Dalwhinnie	c	cbcc		cm₀r
Aberdeen	FF ir₀om	om₀d₀d₀m	odd FRm	ocem
Wick	omf d₀oF	omfom	com₀	D₀fcf
Sumburgh	cmff	oFm₀c	cm₀id₀m	cm₀d₀d₀
Blacksod Point	c	c	d	d
Malin Head	d	d	c	c
Aldergrove	cid₀m₀	m₀id₀m₀	r₀r₀cd₀d₀	id₀cid₀cid₀
Birr Castle	f	f		f
Valentia Obsy.	r	r	r	r
Roches Point	r	r	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 3rd November 1943.

DISTRICTS.

1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands, 5 S.W. England, 6 South Wales:

Moderate southeasterly winds, but westerly in Cornwall, falling variable light; cloudy today, with occasional rain and local hill fog; appreciable clear skies tonight, with fairly general fog developing around midnight; 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:

Light or moderate south to southeast winds; partly cloudy; more general low cloud in northeasterly coastal areas, with local drizzle and hill fog; appreciable clear skies tonight, with fairly general fog developing; mild

16 Orkneys and Shetlands: As 7-15

17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland, 20 S. W. Ireland:

Light variable winds; occasional rain; local fog tonight and tomorrow morning, mild.

GENERAL INFERENCE

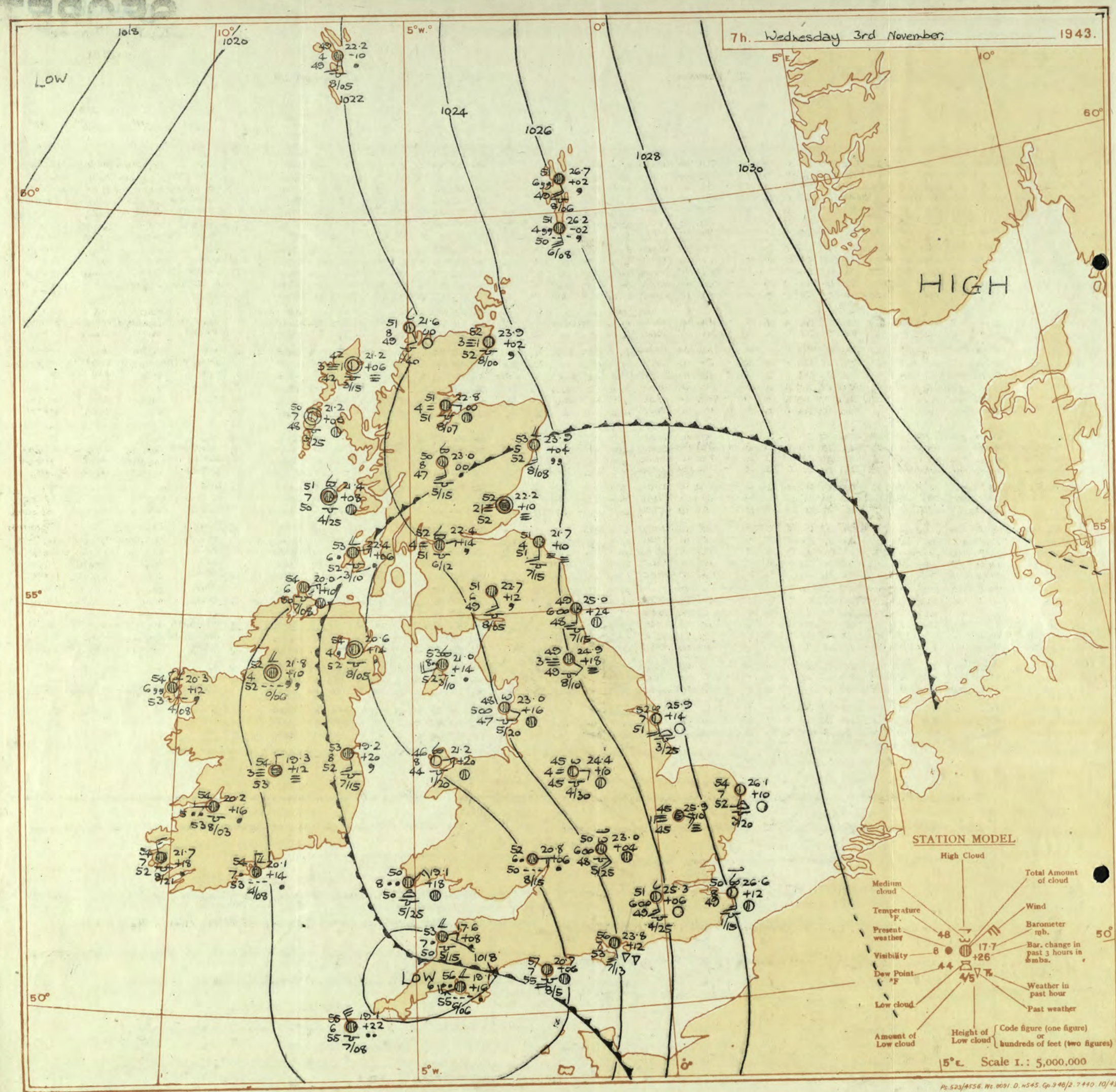
A depression over Southwest England is filling up, and pressure will become high and rather uniform over the British Isles. There will be occasional rain in Ireland and southern districts of England. Fairly general fog will develop in Great Britain tonight. Mild.

FURTHER OUTLOOK

Quiet anticyclonic conditions, with fairly general fog.

Forecasts issued at 1030.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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

Ps.523/4556. Wt.8091. D.H.S.45. Gp.948/2. 7440. 10/43.

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 3rd November 1943

No 29931

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

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	*	*	*	*	*	50	*	*	*	*	*	*	*	*	*
	Croydon ...	290	23·8	+8	SSE	2	Z_0	50	97	49	6	5	-	·	4-6	4-6	1800
	S. Farnborough	226	22·8	+6	SSE	2	c-bc	50	92	48	7	5	7	-	4-6	7-8	2500
	Boscombe Down	417	21·2	+4	SE	3	bc	50	97	49	7	5	-	·	4-6	4-6	2500
	Thorney Island	10	22·4	+6	S'E	4	b-bc	56	85	50	7	5	-	-	2-3	2-3	2500
	Lympne ..	283	18·2	+6	SW	3	Z_0	53	92	50	6	5	-	-	2-3	2-3	1800
	Manston ...	154	24·8	+8	S'E	2	b	50	92	49	7	4	-	-	1	1	5700
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	24·8	+12	SSE	3	b	55	92	53	7	-	-	-	0	0	-
	Gorleston ...	5	24·3	+10	WSW	3	b	52	92	49	7	-	-	-	0	0	-
	Mildenhall ...	15	23·9	+8	SE	3	Z_0	47	97	47	6	5	-	-	1	1	4000
	Cranwell ...	203	23·0	+16	SSE	2	Z_0	47	97	47	5	-	-	-	0	0	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	21·8	+8	SSE	2	m	47	97	47	4	-	4	6	0	4-6	·
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	16·7	+2	ENE	2	b-bc	49	97	49	8	1	4	-	1	2-3	4000
	Bristol ...	209	20·2	+2	SSE	2	id_0	48	97	48	6	5	7	-	4-6	7-8	4000
	Portland Bill ...	32	20·3	+2	S	4	ff	57	92	55	7	5	-	·	10	10	2500
	Plymouth ...	86	17·4	0	SSE	2	c-bc	55	92	53	8	8	-	-	7-8	7-8	1500
	The Lizard ...	240	16·0	+2	SW	5	ff	55	97	53	6	5	-	-	10	10	800
	Scilly (St. Mary's)	163	16·1	+12	NW	6	c/r	54	97	53	6	8	2	-	7-8	10	1000
	Guernsey ...	175															
6	Pembroke ...	142	18·7	+6	ESE	3	bc	53	85	49	8	8	6	-	2-3	4-6	2500
7	Holyhead (Valley)	32	18·7	+18	S'E	4	Z_0	55	92	53	6	5	-	-	10	10	2500
	Chester (Sealand)	16	19·9	+22	S	2	m	52	85	49	4	5	-	-	2-3	2-3	2000
8	Manchester ...	230	20·7	+20	SSE	4	Z_0	51	85	48	6	5	-	-	Tr	Tr	2000
10	Spurn Head ...	29	22·9	+20	SSE	4	b	51	97	50	7	-	-	-	0	0	-
	Catterick (Sc.)...	192	21·2	+8	-	0	of+	53	97	53	3	5	-	-	10	10	500
	Tynemouth ...	108	22·2	+8	SSE	3	z	52	97	52	6	8	-	-	9	9	1500
11	St. Abbs Head	280	20·1	-12	SE	3	ηF	51	97	51	1	5	-	-	10	10	150
	Leuchars ...	36	12·8	-4	ENE	2	dF	52	97	52	1	-	-	-	10	10	150
12	Renfrew (Abbots I.)	19	20·7	-4	ENE	3	d_0d_0	52	97	52	4	5	2	-	9	10	800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	18·7	+4	ESE	3	Z_0	54	97	53	6	5	-	-	10	10	1000
13A	Tiree	44	20·7	+6	-	0	b-bc	53	92	51	7	5	4	-	2-3	2-3	4000
13B	Stornoway ...	12	21·0	+2	SE	2	bc	53	92	50	7	5	-	-	4-6	4-6	3500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	28·3	-2	-	0	f+	52	97	52	1	-	-	-	10	10	150
	Wick ...	114	24·3	-2	SE	3	dF	51	97	51	1	5	-	-	10	10	150
16	Sumburgh ..	19	27·1	-2	ESE	5	m	50	92	49	4	5	-	-	10	10	800
17	Blacksod Point	18	18·7	+6	-	0	id_0	55	97	54	7	6	2	-	4-6	10	800
18	Malin Head ...	84	19·3	+6	E'N	3	c	54	85	50	6	5	-	·	10	10	800
	Aldergrove ...	268	19·0	0	E	3	Z_0	53	92	51	6	5	-	-	10	10	1600
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	18·9	+6	N'W	3	c	54	92	52	7	5	-	-	10	10	1000
	Roches Point	22	17·6	+10	N	2	r_0r_0	54	97	53	7	6	2	-	4-6	10	800

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

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)
London (Kew)	25·2	+14	E'N	2	Z_0	50	92	48	5	5	3	-	7-8	7-8	1500	1	*
Croydon ...	25·3	+6	SE	3	Z_0	51	92	49	6	5	4	-	4-6	4-6	2500	1	*
S. Farnborough	24·1	+10	SE'E	3	c/r	52	92	50	6	5	-	·	9+	9+	1600	1	*
Boscombe Down	22·3	+8	SE'S	4	ir_0	53	97	52	6	5	-	-	9+	10	500	1	*
Thorney Island	23·8	+12	SE'S	4	c/pr	56	92	53	7	5	-	-	9+	10	1300	1	*
Lympne ..	26·8	+14	SSE	3	b-bc	52	97	50	7	5	-	-	2-3	2-3	700	1	3
Manston ...	26·6	+12	S'E	3	b-bc	50	92	49	8	5	5	1	Tr	2-3	1500	1	*
Shoeburyness ...	25·8	+6	SSE	3	b-bc	53	92	51	7	-	7	4	0	2-3	-	1	*
Felixstowe ...	26·5	+10	SSE	3	b	54	97	53	7	5	-	-	Tr	Tr	2500	0	2
Gorleston ...	26·1	+10	S'W	1	b-bc	54	92	52	7	8	-	-	2-3	2-3	2000	1	3
Mildenhall ...	25·9	+10	SE'E	3	F	45	97	45	1	-	·	·	10	10	<150	1	*
Cranwell ...	25·3	+14	ESE	1	F	45	97	45	1	-	·	-	10	10	<150	1	*
Birmingham	23·4	+10	SE	3	Z_0	49	92	47	6	5	-	-	9+	9+	1500	1	*
Upper Heyford	23·0	+4	SE	4	Z_0	50	92	48	6	5	3	1	7-8	7-8	2500	1	*
Ross-on-Wye	20·8	+6	E	3	ir_0	52	97	50	6	6	-	-	10	10	1500	1	*
Hartland Point	17·6	+8	ENE	2	ir_0	53	97	50	7	5	2	-	7-8	10	1500	1	2
Bristol ...	21·0	+10	ESE	3	c/r	53	97	53	6	5	2	-	7-8	9+	1500	1	*
Portland Bill ...	20·7	+6	S	4	0	57	92	55	7	5	-	-	10	10	2500	1	4
Plymouth ...	19·1	+16	SW	4	r_0r_0	56	97	55	6	6	2	-	9	10	600	1	3
The Lizard ...	18·2	+10	W	5	r_0r_0	55	97	55	6	5	-	-	10	10	1000	1	
Scilly (St. Mary's)	19·1	+22	NW'W	5	c/r	55	97	55	6	5	-	-	9+	9+	800	1	5
Guernsey ...																	
Pembroke ...	19·1	+18	NE'E	3	r_0r_0	50	97	50	8	8	-	-	7-8	7-8	2500	1	3
Holyhead (Valley)	21·2	+20	E'N	3	b-bc	46	92	44	8	5	7	-	Tr	2-3	2000	1	2
Chester (Sealand)	22·6	+14	SSE	1	ir_0	49	92	47	5	3	2	-	7-8	9	2400	1	*
Manchester ...	23·1	+10	SE	4	Z_0	50	85	47	6	2	3	1	1	2-3	2500	1	*
Spurn Head ...	25·9	+14	SSE	4	b-bc	52	92	51	7	7	3	-	2-3	2-3	2500	1	1
Catterick (Sc.)...	24·9	+18	SE	2	of	49	97	49	3	5	-	·	10	10	1000	1	*
Tynemouth ...	25·0	+24	S	3	Z_0	49	97	48	6	5	-	-	9+	9+	1500	1	3
St. Abbs Head	21·7	+10	S	3	m/F	51	97	51	4	5	-	-	9+	9+	1500	1	3
Leuchars ...	22·9	+10	NE	1	f	52	97	52	2	-	-	-	10	10	<150	1	*
Renfrew (Abbots I.)	22·4	+14	ENE	2	m	52	97	51	4	5	7	-	9	10	1200	1	*
Eskdalemuir ...	22·7	+12	SE	3	o	51	92	49	6	5	-	·	10	10	500	1	*
Point of Ayre...	21·0	+14	SW'S	4	r_0r_0	53	97	52	8	6	7	-	2-3	10	1000	1	4
Tiree	21·4	+8	-	0	c	51	97	50	7	5	7	-	4-6	9+	2500	1	1
Stornoway ...	21·2	+6	-	0	b-bc	42	97	42	3	5	-	-	2-3	2-3	1500	1	1
Dalwhinnie ...	23·0	+0	SE	4	c-bc	50	92	47	8	5	7	-	7-8	7-8	1500	1	*
Aberdeen † ...	23·8	+4	SSE	3	c/d	53	97	52	5	-	2	-	10	10	800	1	3
Wick ...	23·9	+2	SSE	3	f-	52	97	52	3	5	-	-	10	10	100	1	*
Sumburgh ..	26·2	-2	SE	5	d_0d_0	51	97	50	4	6	-	-	9	10	800	1	3
Blacksod Point	20·3	+12	NW'N	2	d_0d_0	54	97	53	6	6	2	-	4-6	10	800	1	2
Malin Head ...	20·0	+10	E'N	3	c	54	85	50	6	5	-	-	9+	9+	800	1	3
Aldergrove ...	20·6	+14	-	0	id_0	54	97	52	4	5	-	-	10	10	450	1	*
Birr Castle ...	19·3	+17	N	1	f	54	97	53	3	2	-	-	10	10	<150	1	*
Valentia Obsy.	21·7	+18	NNW	3	c	54	92	52	7	5	-	-	10	10	2500	1	3
Roches Point	20·1	+14	N	1	ir_0	54	97	53	7	6	2	-	4-6	10	800	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 2nd Hrs. (38)
London (Kew)	59	49	35	1	0·1	0·4
Croydon ...	59	49	43	1	Tr	0·3
S. Farnborough	57	49	39	5	0·1	0·3
Boscombe Down	57	46	43	8	0·4	0·0
Thorney Island	63	54	48	7	Tr	*
Lympne ..	58	51	46	2	-	0·0
Manston ...	59	49	46	Tr	0·3	0·7
Shoeburyness ...	58	52	45	Tr	-	0·3
Felixstowe ...	59	52	43	Tr	[illegible]	0·3
Gorleston ...	64	51	42	0·1	-	1·6
Mildenhall ...	59	44	40	Tr	Tr	0·2
Cranwell ...	57	44	41	1	Tr	0·0
Birmingham	56	47	42	2	-	0·0
Upper Heyford	56	47	40	3	0·2	*
Ross-on-Wye	57	50	43	11	1	0·0
Hartland Point	57	48	44	Tr	Tr	0·3
Bristol ...	56	46	38	14	3	0·0
Portland Bill ...	57	55	*	15	4	*
Plymouth ...	58	53	46	0·5	2	0·8
The Lizard ...		54	*		7	1·5
Scilly (St. Mary's)	57	54	*	0·5	7	0·3
Guernsey ...						
Pembroke ...	57	43	37	5	Tr	0·0
Holyhead (Valley)	62	45	40	3	1	*
Chester (Sealand)	60	57	42	3	0·3	0·1
Manchester ...	59	47	38	0·3	Tr	*
Spurn Head ...	54	49	*	Tr	1	0·0
Catterick (Sc.)...	53	48	46	1	1	0·0
Tynemouth ...	52	49	46	1	1	*
St. Abbs Head	56	49	*	Tr	2	*
Leuchars ...	53	51	50	0·2	0·4	0·0
Renfrew (Abbots I.)	55	51	47	Tr	1	0·1
Eskdalemuir ...	52	48	47	0·1	0·1	0·0
Point of Ayre...	56	52	*	2	1	0·0
Tiree	57	51	44	-	-	0·0
Stornoway ...	55	41	34	-	-	0·1
Dalwhinnie ...	57	46	40	-	0·5	1·2
Aberdeen † ...	52	51	50	0·1	1	0·0
Wick ...	52	50	49	0·1	Tr	*
Sumburgh ..	52	50	48	Tr	Tr	0·0
Blacksod Point	55	53	*	Tr	Tr	*
Malin Head ...	55	53		0·2	-	0·0
Aldergrove ...	52	52	51	Tr	Tr	0·0
Birr Castle ...	57	52	49	1	8	0·0
Valentia Obsy.	55	53	51	0·2	0·1	0·0
Roches Point	55	53	*	12	5	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 2nd November: $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 3rd November: $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN
109	5-	51328	07328	5-	05538	10458	5-	51428	10458	--	48309	13459
115	52	09635	41528	87	02635	41568	54	02554	12324	54	01861	12104
203												
206	5-	51408	14358	5-	08408	04358	51	08454	08326	5-	08438	08128
210							-			50	01763	07123
219	5-	02757	08427	53	05653	07323	50	05654	12114	50	02753	00013
230	57	02764	06227	53	01862	04223	54	01862	00012	62	62755	00068
245	5-	41428	05358	5-	52438	06358	--	48009	00063	5-	22328	00068
260							5-	22468	04268	52	45335	04248
278												
279	52	51565	07567	52	05635	06568	5-	08458	08328	54	05665	12125
285										13	10743	06214
288	--	46003	02449	--	44109	03359	5-	51446	12358	5-	05637	17227
575	5-	51538	02158	5-	05547	04227	62	54425	00058	62	21436	00058
301	02	52448	06258	52	21556	06258	5-	05558	08368	53	05555	10126
321	52	21526	06268	57	22464	12267	00	05590	14250	--	48109	14249
290	5-	08428	10128	5-	21638	08258	00	00790	10310	40	00751	13301
292	57	05545	08268	52	22537	06168	5-	08437	12357	--	48209	12249
310	--	57009	07449	--	57009	10449				--	46209	10349
614	5-	42338	08148	52	42345	08148	00	05590	13110	--	44109	06249

III	13h. G.M.T. 2nd November: $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 3rd November: $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN
333	54	02744	10327	62	62437	00068	52	51666	14358	50	01864	32154
334	--	02645	02217							--	03527	06128
341	52	05546	10228	52	05545	11328	00	00690	16300	5-	05545	12316
136	5-	51645	12347	50	01864	14354	00	00790	17320	00	45190	11340
336	62	64626	12368	--	67209	12369				62	64426	12368
350	5-	22638	14368	5-	22634	18264	00	05590	12200	04		
368	57	61645	14168	57	61744	16268	50	01752	12264	57	61435	12268
370	5-	4157.	12468	57	02725	18468	57	05643	18314	5-	02737	46517
390	57	21645	14306	57	47343	16345	50	45344	14244	50	41441	10241
382	5-	51734	11368	54	22863	18265	50	01743	12144	52	51857	15458
438							50	01753	03 13	54	01763	15414
430	5-	58637	20268	20	01743	20314	50	01742	18312	5-	02746	15418
409				84	01864	14414				5-	52408	24268

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 3rd November
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_0z_0	rir_0bcm_0m	$bcbm_0w$	Kew 24 hours ended 7h. Max. Time 8h/9h. 2nd. Min. Time 4h/6h. 3rd.
Croydon	$cir_0m_0cm_0$	$cd_0d_0bcm_0$	$bcwbcm_0$	
Greenwich ...	cir_0	cir_0cb	bcbwbc	
Camden Square	od	c	*	
Kensington ...	crodr	crbc	*	
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	59	49	35	1	0·1	0·4	*	*
Croydon ...	59	49	43	1	Tr	0·3	*	*
Greenwich ...	58	47	38	0·3	Tr	0·4	91	88
Westminster ...	60	50	44	0·1	*	*	91	92
Regents Park ...	60	50	41	0·1	-	*	91	88
Camden Square	59	49	38	Tr	-	*	*	91
Kensington ...	60	49	39	0·1	Tr	*	87	91
Hampstead ...							*	

SECRET

Page 1 BRITISH SECTION

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

Thursday 4th November. 1943

No. 29332.

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

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)	27·2	+14	SE	3	c/r	57	85	51	8	8	2	-	9+	10	1500
	Croydon	27·3	+6	SE	3	c-bc	59	75	51	8	8	3	-	7-8	7-8	1200
	S. Farnborough	26·5	+6	S'E	2	c	58	85	53	8	8	6	-	9	9	1600
	Boscombe Down	24·8	+10	S'E	4	f0r0	55	97	54	6	5	7	-	7-8	10	800
	Thorney Island	26·4	+10	S'E	4	c	58	85	54	9	8	6	-	9	9+	1500
	Lympne	28·3	+2	S'E	3	b-bc	57	75	51	8	1	-	4	2-3	2-3	3000
	Manston	28·7	+6	S'E	3	b	59	75	49	8	1	-	1	Tr	1	1800
2	Shoeburyness	28·1	+24	SSE	3	z0	60	75	52	6	1	4	-	1	2-3	2500
	Felixstowe	28·7	+6	SE'S	3	b	60	75	52	8	1	-	1	Tr	Tr	2500
	Gorleston	28·2	+2	S'E	2	b-bc	57	85	51	7	1	4	1	1	2-3	2500
	Mildenhall	28·0	+6	SSE	3	b-bc	61	65	49	8	1	4	1	2-3	2-3	2500
	Cranwell	27·5	+4	S'E	2	c-bc	56	85	53	7	5	-	-	7-8	7-8	1500
3	Birmingham	25·6	+10	SSE	3	c	56	85	51	8	8	-	-	9	9	1500
	Upper Heyford	25·6	+6	SSE	4	c	57	85	51	7	8	7	-	7-8	9+	1500
4	Ross-on-Wye	23·5	+10	SE'E	3	id	55	92	53	6	5	-	-	10	10	1000
5	Hartland Point	21·6	+18	NW	3	c	55	97	55	7	8	2	-	7-8	9	1000
	Bristol	23·7	+14	SSE	3	c/r	59	92	56	8	8	4	-	7-8	9	1500
	Portland Bill	23·5	+12	SSW	4	o	57	92	55	7	5	-	-	10	10	2500
	Plymouth	22·8	+22	SSW	2	rr	56	97	55	6	5	2	-	4-6	9	600
	The Lizard	23·0	+22	WNW	4	c-bc	57	92	55	8	8	6	·	7-8	7-8	3000
	Scilly (St. Mary's)	23·8	+18	NW	3	bc	60	85	54	7	8	4	-	4-6	4-6	1500
	Guernsey															
6	Pembroke	22·7	+10	NNW	3	bc	56	85	52	8	2	6	-	2-3	4-6	2500
7	Holyhead (Valley)	23·5	+10	-	0	c-bc	59	75	51	8	8	3	-	4-6	7-8	2500
	Chester (Sealand)	24·8	+8	SSE	2	z0	56	85	51	6	5	2	-	9	9+	1600
8	Manchester	25·7	+10	SE	4	z0	57	75	50	6	4	3	-	9	9+	2500
10	Spurn Head	28·5	+10	SE	4	b-bcjf	53	97	52	6	2	4	1	2-3	2-3	2500
	Catterick (Sc)	28·1	+6	SE	2	m	50	97	50	4	-	-	-	10	10	500
	Tynemouth	28·4	+6	SE	3	z0	52	92	49	6	2	-	-	4-6	4-6	2200
11	St. Abbs Head	26·1	+4	SSE	3	b-bc	56	75	48	7	5	4	-	2-3	2-3	2500
	Leuchars	26·3	+14	SW	2	z0	58	85	53	6	5	3	-	4-6	7-8	4500
12	Renfrew (Abbots I.)	26·9	+12	-	0	c-bc	57	65	51	6	5	4	-	4-6	7-8	3500
	Eskdalemuir	26·4	+12	SE	3	b-bc	54	75	45	8	8	4	-	2-3	2-3	2500
	Point of Ayre	24·8	+10	SSE	4	c	56	85	51	7	6	-	-	9+	9+	800
13A	Tiree	24·8	+16	SSE	2	c	54	97	54	6	5	-	-	10	10	1500
13B	Stornoway	23·9	+12	-	0	bc	55	85	51	7	5	-	-	4-6	4-6	5500
15	Dalwhinnie	25·5	+8	SSW	3	c-bc	55	85	49	7	5	3	-	2-3	7-8	1500
	Aberdeen	26·9	+12	SSW	2	m	53	92	51	4	5	-	-	10	10	800
	Wick	25·0	+4	SSE	2	z0	54	97	53	6	5	7	-	7-8	9+	400
16	Sumburgh	27·3	+2	SE	5	id0	53	92	51	6	5	-	-	7-8	10	500
17	Blacksod Point	24·7	+14	NNW	4	id0	53	97	52	7	-	2	-	10	10	800
18	Malin Head	23·4	+14	S'E	1	c	55	92	53	6	5	-	-	10	10	800
	Aldergrove	24·6	+20	SE'S	2	c	56	85	51	7	5	-	-	9	9+	2000
19	Birr Castle	23·2	+20	N	1	c	54	97	53	4	5	-	-	10	10	1500
20	Valentia Obsy.	25·4	+10	NNW	4	c	54	92	52	8	5	2	-	4-6	10	1600
	Roches Point	23·6	+10	N	4	c	56	92	54	8	5	-	-	10	10	1500

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

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)	28·8	+10	SSE	2	z0	54	95	50	5	5	-	·	4-6	4-6	2500	1	*
Croydon	29·2	+14	SE	3	z0	53	92	51	5	5	-	·	2-3	2-3	3000	0	*
S. Farnborough	28·4	+14	SE'E	3	d0d0	53	97	53	4	5	7	-	9	10	1300	1	*
Boscombe Down	27·0	+16	SSE	4	bc	53	92	51	7	5	6	1	4-6	4-6	3000	1	*
Thorney Island	28·1	+12	SE	2	d0d0	[illegible]	97	56	5	5	-	·	9	9	1500	1	*
Lympne	28·8	+6	S	1	b	51	92	48	7	-	-	·	0	0	·	0	§2
Manston	29·5	+8	-	0	b	50	92	48	8	-	4	-	0	0	-	0	*
Shoeburyness	29·5	+12	S'E	1	z0	54	85	51	6	1	-	·	1	1	2500	1	*
Felixstowe	30·4	+14	SE'E	2	b	53	97	52	7	5	-	·	Tr	Tr	2500	0	1
Gorleston	31·0	+20	SE'S	2	z0	54	85	52	6	-	-	-	0	0	-	0	3
Mildenhall	29·8	+14	SE'E	3	b	51	92	49	7	5	-	·	1	1	4000	0	*
Cranwell	28·9	+6	SE	2	z0	53	92	50	6	5	-	·	7-8	7-8	3000	1	*
Birmingham	27·6	+10	SE	3	z0	54	92	52	6	5	-	-	10	10	1500	1	*
Upper Heyford	27·7	+16	SSE	2	c/d	53	97	52	7	5	-	·	7-8	9+	1600	1	*
Ross-on-Wye	25·3	+12	SE	3	c/pr	55	85	52	8	5	-	·	10	10	1500	1	*
Hartland Point	24·6	+16	NW	2	bc	54	92	53	7	8	4	-	2-3	4-6	2000	1	2
Bristol	25·6	+14	SSE	2	z0	55	92	52	6	5	-	·	9	9	900	1	*
Portland Bill	25·7	+6	SSW	4	++	56	92	54	7	5	-	·	10	10	2500	1	4
Plymouth	25·5	+14	WSW	1	z0	59	92	54	6	8	7	-	2-3	4-6	2000	1	1
The Lizard	25·4	+12	WNW	2	bc	53	92	51	8	8	-	·	4-6	4-6	2500	1	3
Scilly (St. Mary's)	25·9	+16	NWW	1	c-bc	54	97	53	7	5	-	·	7-8	7-8	1500	1	2
Guernsey																	
Pembroke	25·2	+6	N	2	bc	52	97	51	8	3	7	-	2-3	4-6	2500	1	2
Holyhead (Valley)	25·5	+10	-	0	id0	55	92	53	6	5	2	-	7-8	10	2000	1	1
Chester (Sealand)	26·1	+14	SE	1	m	55	85	51	4	5	3	-	4-6	9+	2500	1	*
Manchester	27·0	+10	E'S	3	z0	55	85	51	5	9	-	-	9+	9+	3000	1	*
Spurn Head	29·6	+10	SE	4	bc	53	92	51	7	7	3	-	2-3	4-6	2500	1	3
Catterick (Sc)	29·5	+12	-	0	m	51	97	50	4	5	2	-	7-8	10	1300	1	*
Tynemouth	30·0	+10	S	3	z0	52	97	51	6	5	-	-	9+	9+	2200	1	3
St. Abbs Head	29·3	+16	SSE	3	z0	49	92	46	6	5	-	·	2-3	2-3	3000	0	3
Leuchars	28·8	+10	-	0	fg	50	97	49	5	5	-	·	2-3	2-3	2500	1	*
Renfrew (Abbots I.)	27·9	+14	SSE	1	m	52	85	48	4	5	-	-	4-6	4-6	1600	1	*
Eskdalemuir	29·1	+18	N'W	1	b-bc	45	92	43	8	7	4	-	2-3	2-3	2500	1	*
Point of Ayre	26·8	+14	SSE	4	z0	55	95	51	6	6	·	·	7-8	10	1000	0	3
Tiree	26·4	+4	SSE	2	c	54	97	52	7	5	2	-	9+	10	1800	1	1
Stornoway	25·8	+12	S	2	c	53	92	51	7	5	-	·	9	9	4000	0	2
Dalwhinnie	27·7	+18	SW	2	c	50	85	47	7	5	-	·	9	9	2500	0	*
Aberdeen	29·6	+18	S	3	m	52	92	50	4	5	·	-	10	10	800	1	2
Wick	27·0	+10	S	3	c	53	92	51	5	5	-	·	9+	9+	1000	1	*
Sumburgh	28·0	+8	S'E	4	z0	52	92	51	6	5	-	-	10	10	1500	1	3
Blacksod Point	26·9	+14	NNW	2	id0	51	92	49	6	6	2	·	4-6	10	800	1	2
Malin Head	25·1	+14	-	0	c	55	85	51	6	5	-	·	10	10	800	2	6
Aldergrove	26·7	+14	-	0	z0	49	55	38	6	5	-	·	1	2-3	2500	1	*
Birr Castle	26·5	+14	N	1	c	53	97	52	7	5	-	-	10	10	1500	1	*
Valentia Obsy.	26·6	+6	N	3	c-bc	52	92	50	8	5	-	1	7-8	7-8	2500	1	2
Roches Point	25·6	+18	N'W	3	o	54	97	53	7	5	-	-	10	10	1500	1	3

PAST 24 HOURS. Weather.

Stations	7h.—13h. 3rd. (39)	13h.—18h. 3rd. (40)	18h. 3rd to 1h. 4th. (41)	1h.—7h. 4th. (42)
London (Kew)	bccir0	cbcm0	bcmfw	oFe
Croydon	bbc	cm0wcm	bfe	bfeoFe
S. Farnborough	cm0id0ir0c	cjpd0m0mdd	cdidmbmf	bfmwoFe
Boscombe Down	ir0pr0	cbpf0cbc	bcbFeo	bfbm0bfe
Thorney Island	cwcid0bc	eid0c	cid0m	cid bcmw
Lympne	bcb	bbw	bwbbcm	bcmwoFcf
Manston	bwb	b	bmbcfw	bcwfbcw
Shoeburyness	bcm0	bcm0w	bcm0	cw0
Felixstowe	b	b	bbm	bmgbm
Gorleston	be	bcbz0w	bcw	pccz0w
Mildenhall	oFbcmbc	bcb	bbFof*	ofcbm0of
Cranwell	Fbcm0cm0c	ccm0	bm0f	ofF
Birmingham	c	c	cm0	bcFF
Upper Heyford	cm0id0cm0c	cm0d0d0c	cbcm0	bcm0oF
Ross-on-Wye	r0cd0c	cbccr0cp0	cbc	ccr
Hartland Point	id0c	cbcc.bc	c	bcbw
Bristol	ccir0m0c	cid0d0d0c	bccmid0cm	cm0cm
Portland Bill	orro	orr	orrc	c
Plymouth	cr0r0m0rr	crrm0	bcm0	crm0w
The Lizard	cr0e	cbc	bcbc	bccw
Scilly (St. Mary's)	cbc	bcc	cw	c
Guernsey				
Pembroke	bc	bcw	bcw	bccid0
Holyhead (Valley)	bcc	cid0m0	cbbcm0	c,bm0
Chester (Sealand)	cm0	bcm0cm0	cm	cmfm0
Manchester	bccm0	cz0bccm0	cbcm0w	bm0w
Spurn Head	bcjf	bc	b	ifcm0
Catterick (Sc)	cfid0cm	cm	cmcf	cfoF
Tynemouth	cbcm0	bccm0	cbcoff	bcmff
St. Abbs Head	cnbcnbc	bcbbcm0	bmF	oF
Leuchars	ofcm0m	cm0bcm0	brbcf	bcfcmf
Renfrew (Abbots I.)	cm0	cm0cm	bccm	cm,m0
Eskdalemuir	ocbcb	bc	bc	bc
Point of Ayre	c	cz0	bczbc	bcc
Tiree	cwc	cm0ism0	cbc	bccid0m0
Stornoway	bcjfm0bc	bcc	ccid0cbc	bccbc
Dalwhinnie	c	c	*	cbco
Aberdeen	om0om	ombcz0z	cm	comf
Wick	cm0	cm0	cm	bm0
Sumburgh	om0id0o	cd0m0	cm	cbcm0c
Blacksod Point	d	d	c	d
Malin Head	c	c	c	b
Aldergrove	cid0cm0c	cbcm0bus	cm0cm	cmcm0
Birr Castle	r	c	*	c
Valentia Obsy.	c	c	bc	c
Roches Point	r	c	c	c

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

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands	Light easterly winds; cloudy and dull, with some fog well inland; mild.
4 W. Midlands, 5 S.W. England	Light southeasterly winds; dull, with fog persisting in many places today and becoming fairly general tonight; mild.
6 South Wales, 7 North Wales	Light southeasterly winds; partly cloudy; local fog in morning; mild.
8 N.W. England, 9 N. Midlands, 10 N.E. England	As 4
11 S.E. Scotland, 12 S.W. Scotland & Isle of Man	Light southerly winds; partly cloudy; local mist and fog; mild.
13A W. Scotland, 13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland	Moderate or fresh southerly winds; cloudy; local rain in northwest, local mist or fog in south; mild.
16 Orkneys and Shetlands	As 13A-15
17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland, 20 S. W. Ireland	Light or moderate southerly winds; cloudy, fog in north at first dispersing today; mild.

GENERAL INFERENCE

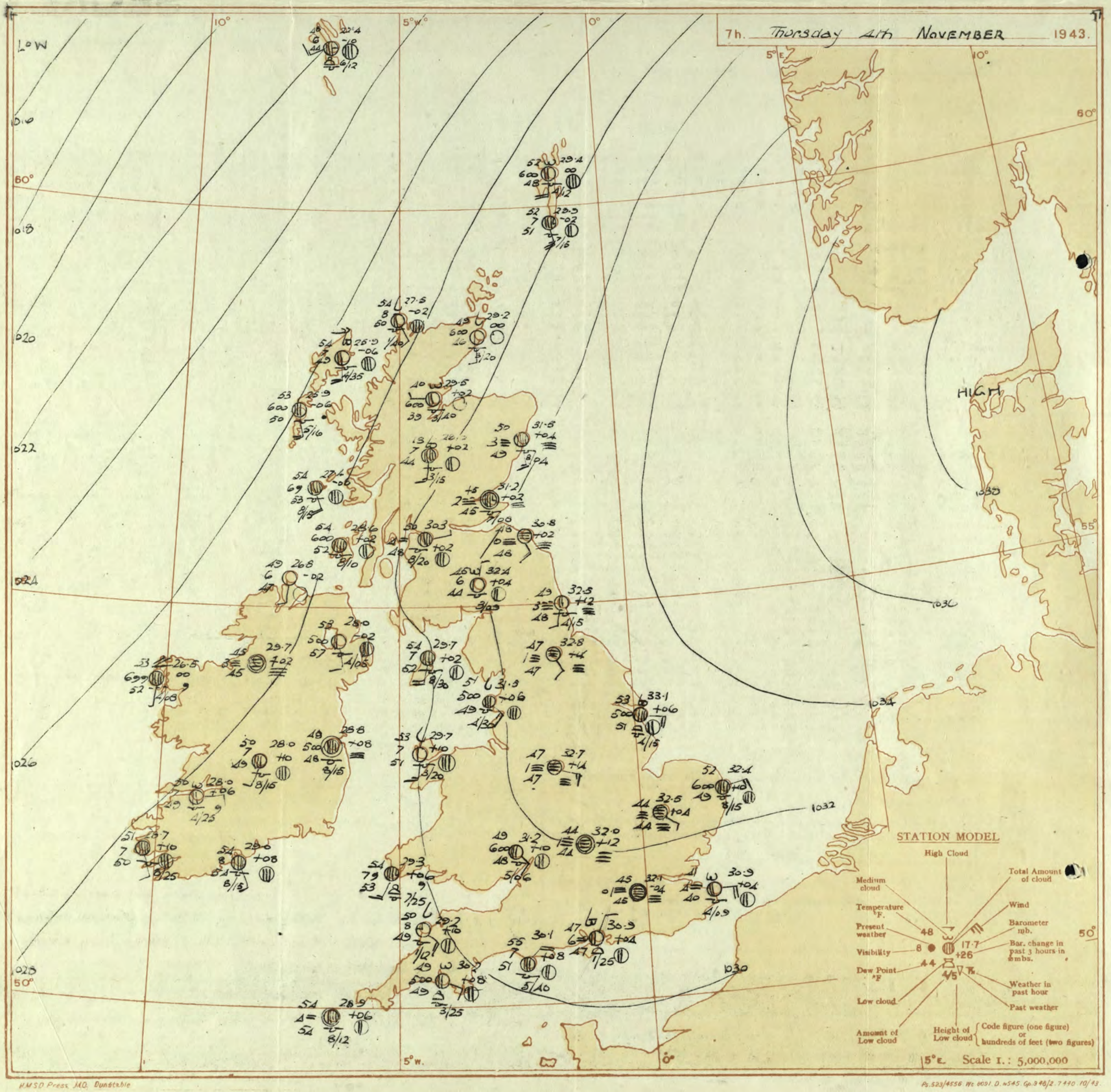
A ridge of high pressure covers England and Wales and pressure is low to west and northwest of the British Isles. Fog will be fairly general and persistent in the Midlands and North England; weather will be mainly cloudy elsewhere with local rain in the Northwest; mild.

FURTHER OUTLOOK

Unsettled in the Northwest; quiet in the Southeast with some fog.

Forecasts issued at 1030

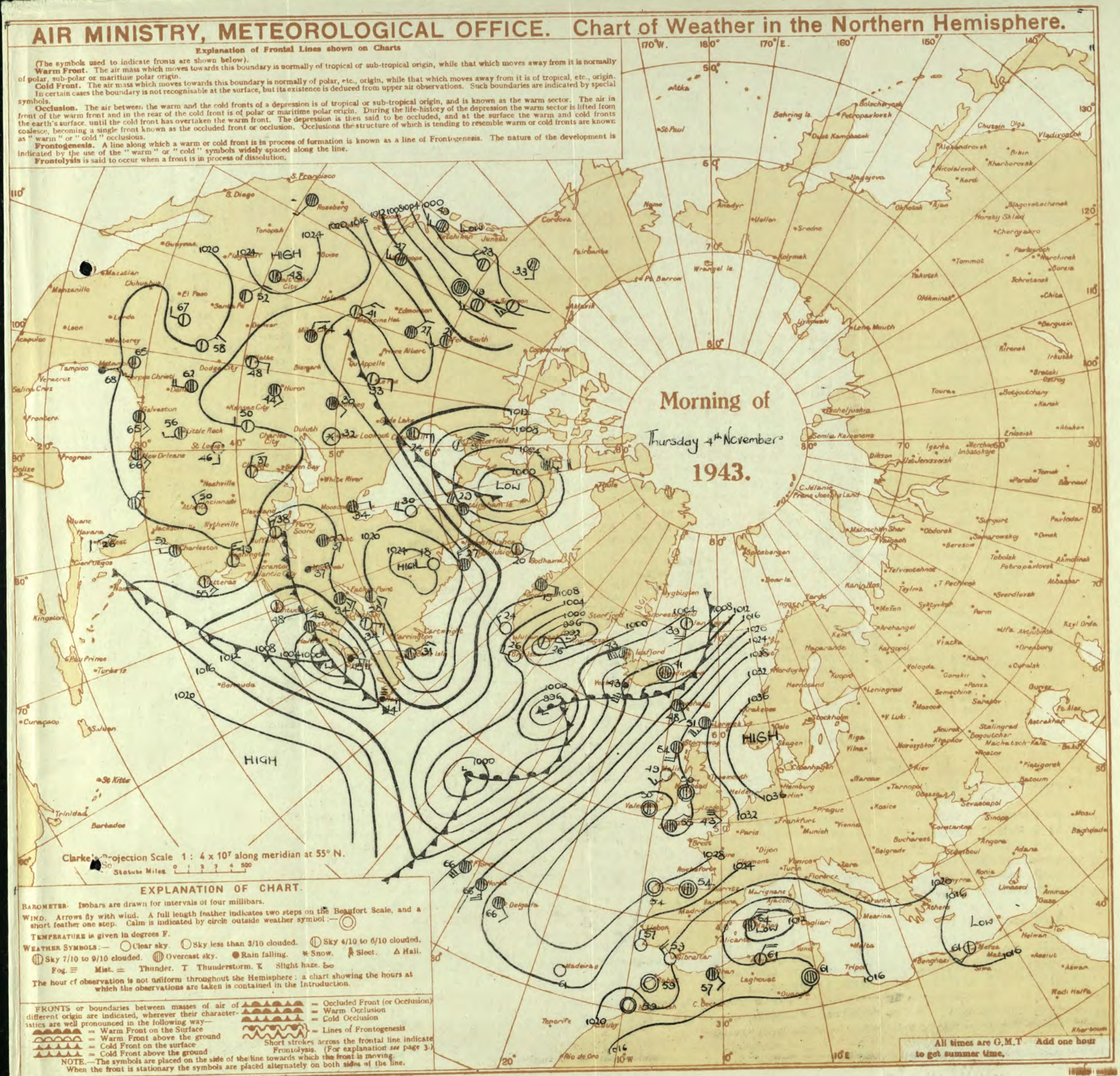
NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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

Ps.523/4556 Wt 6091 D.w545 Gp.948/2 7440 10/43

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 4th November 1943

No. 29932.

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

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	31·3	+6	SE	1	bf-	43	97	43	3	-	-	-	0	0	-
	S. Farnborough	226	30·1	+10	-	0	bf+	50	97	49	3	5	-	-	1	1	1800
	Boscombe Down	417	30·0	+10	ESE	3	F+	49	97	49	1	-	-	-	10	10	<150
	Thorney Island	10	30·2	+10	E'N	1	id.	54	97	54	4	5	-	-	3+	9+	2500
	Lympne ..	283	31·2	+2	NE	3	z.	47	97	47	6	-	3	-	0	2·3	-
	Manston ...	154	30·5	-2	NE	2	fg	52	92	51	3	5	-	1	4·6	4·6	1100
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	31·3	+2	NE'N	1	m	50	97	49	4	-	-	-	0	0	-
	Gorleston ...	5	31·0	+4	E'N	2	b-bc	55	92	52	7	5	-	-	2·3	2·3	2500
	Mildenhall ...	15	31·6	+6	SE'E	1	f-	42	92	42	2	-	-	-	10	10	<150
	Cranwell ...	203	31·6	+10	SE	2	F+	45	97	45	1	-	-	-	10	10	<150
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	30·1	+10	S'E	2	z.	50	97	49	6	5	-	-	7	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	27·6	+12	SSW	3	b-bc	50	97	50	8	5	-	-	2·3	2·3	4000
	Bristol ...	209	29·6	+10	SSE	2	z.	53	97	52	6	5	-	-	7·8	7·8	2500
	Portland Bill ...	32	29·1	+18	S	4	c	56	92	54	7	5	-	-	10	10	2500
	Plymouth ...	86	28·7	+8	ESE	1	z.	47	97	47	6	5	4	-	3.	9	2500
	The Lizard ...	240	28·0	+14	-	0	bc	51	97	51	7	5	4	-	4.	..	1200
	Scilly (St. Mary's)	163	27·7	+4	NE	2	c	55	97	55	7	5	-	-	7.	1.	15 0
	Guernsey ...	175															
6	Pembroke ...	142	27·8	+6	WSW	2	b-bc	55	92	53	8	2	-	-	2·3	2·3	2500
7	Holyhead (Valley)	32	27·8	+10	-	0	z.	50	92	48	6	5	-	-	4·6	4·6	3000
	Chester (Sealand)	16	29·4	+10	SSE	2	m	54	85	50	4	5	-	-	10	10	1500
8	Manchester ...	230	30·0	+8	SSE	3	z.	54	85	50	6	5	-	-	7·8	7·8	1300
10	Spurn Head ...	29	31·2	+8	SSE	2	b	51	97	50	7	-	-	-	0	0	-
	Catterick (Sc)...	192	31·6	+6	SSE	1	of	50	97	50	3	5	-	-	10	10	4800
	Tynemouth ...	108	31·6	+2	SSE	3	of+	50	97	50	2	5	-	-	10	10	800
11	St. Abbs Head	280	30·0	+2	S	3	F	46	97	46	0	-	-	-	10	10	<150
	Leuchars ...	36	31·1	+6	-	0	bcf-	41	97	41	3	5	-	-	4·6	4·6	3000
12	Renfrew (Abbots I.)	19	29·8	+2	-	0	m	50	92	48	4	5	-	-	10	10	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	29·7	+20	S'E	4	bc	55	92	52	7	5	-	-	4·6	4·6	1000
13A	Tiree	44	28·7	+4	SSE	3	b-bc	52	92	51	8	5	-	-	2·3	2·3	3000
13B	Stornoway ...	12	27·2	0	S	4	c-bc	54	85	50	7	5	-	-	7·8	7·8	2800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	31·4	+6	SSW	2	z.	50	92	48	5	5	-	-	10	10	800
	Wick ...	114	29·2	+6	SSE	2	z.	51	92	49	6	5	1	-	2·3	10	4000
16	Sumburgh ..	19	30·3	+8	S	5	z.	51	92	49	5	5	-	-	10	10	1000
17	Blacksod Point	18	27·6	-4	-	0	c	50	92	48	7	6	-	-	9	9	1500
18	Malin Head ...	84	26·9	+2	S'W	3	b	49	85	45	7	-	-	-	0	0	-
	Aldergrove ...	268	28·3	+4	-	0	m	53	97	52	4	5	-	-	10	10	900
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	28·2	+2	-	0	bc	50	97	49	8	5	-	-	4·6	4·6	2500
	Roches Point	22	28·0	+8	N'W	3	c-bc	54	97	53	8	5	-	-	7·8	7·8	1500

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

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)	39·1	+8	NW	1	F	45	97	44	1	-	-	-	10	10	<150	1	*
Croydon ...	32·1	-4	-	0	F+	45	97	45	0	-	-	-	10	10	<150	1	*
S. Farnborough	32·0	+6	NNE	1	F+	43	97	43	1	-	-	-	10	10	<150	1	*
Boscombe Down	31·8	+2	E'N	2	F	49	97	49	1	-	-	-	10	10	<150	1	*
Thorney Island	30·5	+4	N'E	2	fg	47	97	47	6	1	7	9	Tr	4·6	2500	1	*
Lympne ..	31·1	+2	NE	3	c/f	49	97	49	4	-	3	-	0	4·6	-	1	*
Manston ...	30·9	+4	NE'E	2	m	41	97	40	4	5	3	-	4·6	4·6	900	1	*
Shoeburyness...	31·2	0	N'E	2	m	49	97	49	4	5	7	-	7·8	9	2500	1	*
Felixstowe ...	31·8	+6	NE'E	3	m	52	97	52	4	-	-	-	0	0	-	1	2
Gorleston ...	32·4	+10	ENE	3	z.	52	92	49	6	5	-	-	10	10	1500	0	4
Mildenhall ...	32·5	+4	SE'E	1	F	44	97	44	0	-	-	-	10	10	<150	1	*
Cranwell ...	33·3	+10	-	0	F+	44	97	44	0	-	-	-	10	10	<150	1	*
Birmingham ...	31·9	+12	ESE	2	of	45	97	44	1	5	-	-	10	10	220	1	*
Upper Heyford	32·0	+12	-	0	F	44	97	44	1	-	-	-	10	10	<150	1	*
Ross-on-Wye	31·2	+10	SE	2	z.	49	97	48	6	5	-	-	7·8	7·8	600	1	*
Hartland Point	29·2	+10	SE	3	b	50	97	49	8	5	4	-	Tr	1	1200	1	3
Bristol ...	31·7	+18	-	0	f+	49	97	49	3	-	-	-	10	10	<150	1	*
Portland Bill ...	30·1	+8	NE	4	c-bc	55	85	51	7	5	-	-	7·8	7·8	4000	1	4
Plymouth ...	30·2	+8	ESE	2	bcjf	49	97	49	5	8	3	-	2·3	4·6	2500	1	1
The Lizard ...	29·0	+10	NE	3	c-bc	52	97	52	7	8	-	-	7·8	7·8	2000	1	3
Scilly (St. Mary's)	28·9	-4	-	0	c	54	97	54	4	5	-	-	10	10	1200	1	2
Guernsey ...																	
Pembroke ...	29·3	+6	SW'S	3	id.	54	97	53	7	8	-	-	9+	9+	2500	1	2
Holyhead (Valley)	29·7	+10	S	3	b-bc	53	92	51	7	5	4	-	2·3	2·3	2000	1	2
Chester (Sealand)	31·3	+16	SSE	3	z.	53	85	49	5	5	2	-	7·8	10	1000	1	*
Manchester ...	32·2	+16	-	0	fg	45	97	44	6	5	3	-	1	2·3	4000	1	*
Spurn Head ...	33·1	+6	E'S	4	z.	53	97	51	5	7	7	-	4·6	9+	1500	1	2
Catterick (Sc)...	32·8	+14	SSE	2	F+	47	97	47	1	-	-	-	10	10	<150	1	*
Tynemouth ...	32·5	+12	S	2	bcf	49	92	48	3	5	-	-	4·6	4·6	1500	1	3
St. Abbs Head	30·8	+2	SE	3	F	48	97	48	0	-	-	-	10	10	<150	1	3
Leuchars ...	31·2	+2	-	0	cf	45	97	45	2	5	-	-	9+	10	800	1	*
Renfrew (Abbots I.)	30·3	+2	ENE	1	m	50	92	48	4	5	-	-	10	10	2500	1	*
Eskdalemuir ...	32·4	+4	N'E	1	b-bc	45	92	44	6	5	3	-	2·3	2·3	900	1	*
Point of Ayre...	29·7	+2	S'W	4	c	54	92	52	7	5	-	-	10	10	4000	0	3
Tiree	27·4	-8	SSE	4	id.	54	97	53	6	5	-	-	10	10	1500	1	2
Stornoway ...	25·9	-6	S	4	bc	54	85	49	7	5	7	2	4·6	4·6	3500	0	3
Dalwhinnie ...	29·0	+2	S	3	c	48	85	44	7	5	7	-	2·3	10	1500	0	*
Aberdeen † ...	31·5	+4	S'E	3	f	50	97	49	3	5	-	-	10	10	450	1	2
Wick ...	29·2	0	S	2	z.	49	92	46	6	5	4	-	2·3	2·3	2000	1	*
Sumburgh ..	29·9	-2	S'E	5	c	52	97	51	7	5	-	-	9+	9+	1500	1	3
Blacksod Point	26·5	0	S	1	id.	53	97	52	6	6	2	-	4·6	10	800	1	2
Malin Head ...	26·8	-2	S	1	b	49	92	47	6	-	-	-	0	0	-	1	2
Aldergrove ...	28·0	-2	S'E	2	z.	53	92	51	5	5	-	-	4·6	4·6	500	1	*
Birr Castle ...	28·0	+10	SSW	1	c	50	97	49	7	5	-	-	10	10	1500	1	*
Valentia Obsy.	28·7	+10	S'E	2	c	51	97	50	7	5	-	-	10	10	3000	1	1
Roches Point	29·0	+8	SSE	2	c	54	97	53	8	5	-	-	10	10	1500	1	0

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F.	Temperature. Min. Night 18h–7h °F	Temperature. Min. on Grass °F.	Rainfall. Day 7h–18h mm.	Rainfall. Night 18h–7h mm.	Sunshine 3rd Hrs. (38)
London (Kew)	58	42	33	Tr	Tr	0·6
Croydon ...	59	43	36	-	0·1	2·2
S. Farnborough	59	43	35	1	0·1	1·4
Boscombe Down	56	46	43	1	0·2	1·3
Thorney Island	60	45	40	2	4	*
Lympne ..	58	46	41	-	-	7·8
Manston ...	59	41	38	-	-	9·0
Shoeburyness...	64	47	34	-	-	8·4
Felixstowe ...	61	47	38	-	-	8·7
Gorleston ...	59	49	43	-	-	8·4
Mildenhall ...	62	39	35	-	Tr	6·4
Cranwell ...	58	40	*	-	0·2	2·1
Birmingham ...	57	48	40	-	-	0·3
Upper Heyford	57	44	38	0·1	0·5	*
Ross-on-Wye	58	49	41	1	1	0·8
Hartland Point	55	49	46	0·1	Tr	1·8
Bristol ...	59	49	46	0·4	0·4	0·3
Portland Bill ...	58	52	*	5	5	*
Plymouth ...	59	46	38	3	-	0·7
The Lizard ...	60	51	*	0·5	-	4·2
Scilly (St. Mary's)	60	52	*	·	-	5·5
Guernsey ...						
Pembroke ...	57	49	*	Tr	Tr	5·8
Holyhead (Valley)	62	48	43	0·5	0·5	*
Chester (Sealand)	58	52	49	-	-	0·7
Manchester ...	58	44	34	-	-	*
Spurn Head ...	55	49	*	-	Tr	6·3
Catterick (Sc)...	53	47	46	Tr	-	0·5
Tynemouth ...	53	48	45	-	-	*
St. Abbs Head	56	43	*	-	Tr	*
Leuchars ...	59	39	33	0·4	-	2·1
Renfrew (Abbots I.)	59	48	35	-	-	1·7
Eskdalemuir ...	56	43	36	-	-	7·1
Point of Ayre...	56	53	*	0·1	-	12·5
Tiree	55	52	48	Tr	Tr	0·0
Stornoway ...	57	52	48	-	Tr	3·2
Dalwhinnie ...	56	44	37	-	-	3·1
Aberdeen † ...	54	50	49	-	-	0·0
Wick ...	56	48	45	-	Tr	*
Sumburgh ..	53	51	48	Tr	-	0·0
Blacksod Point	54	49	*	0·2	0·2	*
Malin Head ...	56	47		-	-	0·0
Aldergrove ...	57	48	44	0·5	-	1·6
Birr Castle ...	55	47	43	0·2	-	0·0
Valentia Obsy.	54	48	43	-	Tr	0·0
Roches Point	56	53	*	0·3	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 3rd November; 18h. G.M.T.; 01h. G.M.T. 4th November; 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
100	5-	05625	14428	57	05645	18328	5-	05445	14225	5-	05543	15323
115	53	02854	20224	53	02864	20324	57	02854	16226	54	01861	12224
203				5-	08383	16328	5-	02848	16328			
206	53	05663	00026	5-	05668	00028	5-	08461	00021	53	05663	24104
210	53	01873	12213	57	05555	08126	00	00690	14210	53	01764	14204
219	5-	02757	12217	5-	05548	14228	5-	01643	17458	5-	05645	15465
230	62	02755	00068	53	05653	00023	5-	02863	00018	5-	02757	14127
245	5-	05524	17245	50	05551	00011	5-	05538	17128	5-	05528	15128
260	2-	01863	20123	60	08490	00000	5-	08434	00015	53	45245	25146
278												
279	53	05654	12314	5-	05556	10216	5-	05568	06128	57	08463	10113
285	5-	05628	12328							23	41636	10347
288	80	05653	14323	57	41605	10243	5-	05665	13115	50	05642	13212
575	57	08428	00028	57	05553	00025	50	05553	00023	--	46309	00043
301	53	05552	12324	57	08465	02328	50	05552	12323	54	05664	12315
321				5-	05668	10228	50	05563	12223	--	48109	16149
290	44	01743	16313	50	01752	12312	00	00790	18100	5-	02746	16216
292	50	05644	12244	57	05566	12228	50	05564	10122	52	47118	00048
310				--	46209	16349				--	46109	10249
614	57	05546	10227	5-	08455	10228	5-	45358	10148	--	48009	04143

13h. G.M.T. 3rd November; 18h. G.M.T.; 01h. G.M.T. 4th November; 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	4-	81756	06386				52	05653	04268	54	01762	14323
334				--	51537	26288				--	05545	06216
340	57	05655	12427	5-	05547	13457	5-	05548	12328	5-	08448	14328
136	18	01843	16313	40	01751	12211	00	49490	00040	5-	08438	06348
336	52	41644	12368	57	05546	12328				50	05554	12314
350	5-	05644	14326	5-	68455	12225	00	47190	00040	--	46009	00049
368	87	05645	14367	87	05644	12168	5-	05653	16168	5-	05648	14128
379	8-	02735	14457				5-	46107	12447	--	46009	08149
390	8-	05655	14325	50	05561	10211	00	45290	10140	--	46009	02149
382	86	02855	14326	57	22687	12367	5-	02763	14125	--	46109	00049
438	87	01854	20314	57	01753	12214	50	01763	04203	53	05644	32485
430	27	02354	47426	5-	61636	14228	40	04642	00012	53	01752	30213
409	86	02844	27326	87	02844	00226	8-	25755	11.[illegible]	57	47254	12318

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 4th November, Day 7h—18h Kew and Croydon, 9h—18h Kensington 1943, 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 ...				
Croydon ...				
Greenwich ...	bc	r.cb	bf+F2	Kew 24 hours ended 7h. Max. Time 0·5 2·31 Min. Time 4th 6·15h 3rd
Camden Square	bc	c	*	
Kensington ..	bcc	cbc	*	
Hampstead ...	bcp	of	of	

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							*	*
Croydon ...							*	*
Greenwich ...	58	44	31	Tr	Tr	2·8	89	96
Westminster ...	53	46	40	-	-		[illegible]	97
Regent's Park ...								
Camden Square	58	45	35	-	-	*	*	97
Kensington ...	58	44	35	Tr	Tr		89	99
Hampstead ...	57	41	38	Tr	-		*	99

SECRET

Friday 5th November 1943

Page 1

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

BRITISH SECTION

No. 29333

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

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)	32.6	-4	ENE	3	z0	54	85	48	5	8	-	-	7-8	7-8	4000
	Croydon	32.7	-4	NE	4	c	54	85	50	8	5	-	-	4-6	10	1000
	S. Farnborough	32.4	-6	NE	2	cf	51	97	51	3	5	-	-	10	10	400
	Boscombe Down	32.1	-4	NE'E	3	z0	53	97	51	6	5	-	-	10	10	1500
	Thorney Island	31.1	-6	NNE	3	z0	55	85	50	5	-	-	-	0	0	-
	Lympne	31.5	-6	ENE	5	z0	51	75	42	5	-	-	-	0	0	-
	Manston	32.2	+2	E	4	c-bc	52	75	44	7	5	-	6	7-8	7-8	1500
2	Shoeburyness	33.0	+2	E'N	3	z0	54	75	46	5	1	-	-	4-6	4-6	2500
	Felixstowe	33.2	-2	E	4	c-bc	54	65	43	7	7	-	-	7-8	7-8	4000
	Gorleston	33.5	0	SSE	4	c	53	75	45	7	8	-	-	9	9	1800
	Mildenhall	33.5	-2	SE'E	4	bc	54	75	47	7	5	-	-	4-6	4-6	2500
	Cranwell	33.8	-2	ESE	3	z0	50	97	50	6	5	-	-	10	10	800
3	Birmingham	33.4	0	E	2	f	48	97	48	3	5	-	-	10	10	450
	Upper Heyford	32.7	-6	E'N	2	df	48	97	48	3	5	-	-	10	10	200
4	Ross-on-Wye	32.0	0	E'S	2	bc	55	86	51	7	7	-	-	4-6	4-6	2000
5	Hartland Point	31.3	+8	S	3	c-bc	57	85	53	8	2	4	-	1	7-8	1200
	Bristol	32.5	0	ESE	1	z0	53	92	50	6	5	-	-	9+	9+	600
	Portland Bill	31.0	-2	ENE	3	bc	58	85	56	8	1	-	-	4-6	4-6	4000
	Plymouth	31.5	+2	SE	2	c-bc	60	85	54	8	8	-	-	7-8	7-8	2000
	The Lizard	30.6	+6	SE	2	bc	59	85	55	8	2	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	31.0	+4	SE	2	bc	61	85	56	7	8	-	-	4-6	4-6	1200
	Guernsey															
6	Pembroke	31.6	+2	S'E	3	c-bc	55	97	54	8	8	-	-	7-8	7-8	1600
7	Holyhead (Valley)	31.5	+2	S'W	3	b-bc	57	75	50	8	8	3	1	Tr	2-3	4000
	Chester (Sealand)	32.4	-2	S'E	3	c	57	75	50	8	8	6	1	7-8	9	3000
8	Manchester	32.5	-2	SWS	2	z0	57	75	50	6	4	-	-	1	1	3000
10	Spurn Head	34.2	+6	SE	4	o	53	85	49	7	7	-	-	10	10	2500
	Catterick (Sc)	33.8	-6	S	2	c/f	49	97	49	4	5	-	-	9+	9+	1200
	Tynemouth	34.0	0	S	3	z0	52	85	49	6	8	-	-	9+	9+	1400
11	St. Abbs Head	31.8	-2	SE	3	c-bc	54	85	49	7	1	4	-	2-3	7-8	3000
	Leuchars	30.7	-4	SSW	4	z0	56	85	50	6	5	3	8	1	4-5	4000
12	Renfrew (Abbots I.)	30.2	-4	S'E	4	z0	56	85	53	5	5	2	-	7-8	10	1200
	Eskdalemuir	31.0	-6	SSE	4	e	54	73	48	7	5	-	-	9	9	1800
	Point of Ayre	31.0	+2	SSW	4	c-bc	56	92	53	8	5	-	-	7-8	7-8	1000
13A	Tiree	24.4	-8	S	4	z0	55	97	53	6	-	7	-	0	2-3	-
13B	Stornoway	23.0	-28	S	7	ir0	55	85	50	6	5	-	-	9	10	1500
15	Dalwhinnie	28.0	-4	S	4	id0	50	85	46	6	5	-	-	10	10	1500
	Aberdeen	31.0	-8	S	4	z0	52	85	50	6	5	-	-	10	10	800
	Wick	27.5	-18	S	3	z0	54	85	50	6	-	7	-	0	2-3	-
16	Sumburgh	28.1	-18	S	6	c	52	92	50	8	5	3	2	4-6	9	1500
17	Blacksod Point	26.1	-6	S	6	c/r	54	85	50	8	6	-	-	10	10	1500
18	Malin Head	26.4	-6	S	3	bc	55	76	48	7	5	-	1	2-3	4-6	2500
	Aldergrove	29.1	-2	S	3	z0	56	85	53	6	5	-	-	9+	9+	1800
19	Birr Castle	28.6	-2	SSW	2	c	54	85	50	8	5	2	-	7-8	10	2500
20	Valentia Obsy.	29.1	-4	S'E	4	c	53	85	49	9	5	7	-	4-6	9+	6000
	Roches Point	30.4	+2	SSW	2	c	55	92	53	8	5	3	-	4-6	9	2500

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

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)	33.1	+10	E'N	4	z0	50	75	42	5	5	-	-	9+	9+	2500	1	*
Croydon	33.2	+8	ENE	2	m	49	85	44	4	5	-	-	10	10	1300	1	*
S. Farnborough	32.9	+8	E	2	m	48	92	46	4	5	-	-	7-8	7-8	1600	1	*
Boscombe Down	32.4	+2	NE'N	2	m	48	97	47	4	-	-	-	0	0	-	1	*
Thorney Island	32.0	+8	NE'E	2	m	51	85	48	4	-	-	-	0	0	-	1	*
Lympne	33.0	+10	ENE	3	z0	49	75	42	5	5	-	-	10	10	2000	0	§
Manston	33.0	+6	E'N	3	z0	51	75	42	6	5	-	-	9+	9+	1900	1	*
Shoeburyness	33.3	+4	E'N	3	z0	52	75	44	5	5	-	-	9	9	1500	1	*
Felixstowe	33.8	+2	E'N	3	c	52	75	43	6	5	-	-	9+	10	2500	0	3
Gorleston	33.9	+4	E'S	4	c	52	75	43	7	8	-	-	10	10	500	0	4
Mildenhall	34.0	+2	E	2	c	50	75	44	8	5	-	-	9	9+	2300	0	*
Cranwell	33.9	+6	E'S	2	z0	50	92	47	6	5	-	-	9	9	2500	1	*
Birmingham	33.3	+2	SE	2	of	49	92	47	3	5	-	-	10	10	450	1	*
Upper Heyford	33.5	+6	NNE	1	m	47	97	47	4	5	-	-	9	9	1500	1	*
Ross-on-Wye	32.8	+6	E	2	z0	50	92	48	5	5	-	-	10	10	800	1	*
Hartland Point	31.4	+2	ENE	2	b-bc	55	97	55	8	4	4	-	1	2-3	2000	1	3
Bristol	33.0	+6	E	2	id0	49	97	48	4	5	-	-	10	10	500	1	*
Portland Bill	31.1	+4	NE	4	c-bc	53	92	51	7	5	-	-	7-8	7-8	4000	1	4
Plymouth	31.5	0	ESE	1	m	51	97	51	4	-	4	-	0	Tr	-	1	1
The Lizard	31.8	+4	SE	3	b-bc	52	92	51	8	5	-	-	2-3	2-3	2500	1	3
Scilly (St. Mary's)	30.1	+2	SE'E	2	b-bc	52	92	50	7	5	-	5	2-3	2-3	1200	1	2
Guernsey																	
Pembroke	32.6	+2	SSE	3	c-bc	54	92	52	7	8	-	-	7-8	7-8	1500	1	3
Holyhead (Valley)	31.2	+2	SSE	4	c	55	85	51	7	5	4	-	7-8	9+	3000	0	2
Chester (Sealand)	32.8	+6	S	3	f+	50	92	49	3	-	-	-	10	10	<150	0	*
Manchester	33.0	+4	S'E	2	m	51	85	47	4	5	-	-	9+	9+	1500	1	*
Spurn Head	34.5	+6	SE	5	c	52	85	46	7	7	3	-	4-6	9	2500	0	3
Catterick (Sc)	33.8	0	S	1	z0	50	92	48	5	5	-	-	10	10	1800	0	*
Tynemouth	33.1	0	S	3	z0	52	85	48	5	5	-	-	9+	9+	1500	1	3
St. Abbs Head	30.6	-2	S	3	c	50	85	46	5	5	-	-	9+	9+	2500	0	3
Leuchars	29.9	+2	SSW	3	z0	53	92	51	6	5	3	-	7-8	9+	3500	1	*
Renfrew (Abbots I.)	29.2	-4	S'E	3	z0	55	85	50	5	5	3	-	4-6	10	2500	1	*
Eskdalemuir	31.0	+4	S'W	3	z0	50	85	47	6	5	-	-	9+	9+	1600	1	*
Point of Ayre	30.3	-2	SW'S	4	b	53	92	50	8	5	4	-	Tr	1	1600	0	3
Tiree	24.9	-4	S	5	ir	53	92	51	5	6	2	-	4-6	10	600	1	4
Stornoway	21.0	-14	S	8	ir	54	85	50	6	5	-	-	10	10	1200	1	6
Dalwhinnie	28.0	-8	S	4	z0	50	85	45	6	5	-	-	9	9	1500	1	*
Aberdeen	29.5	-8	S	4	m	52	92	49	4	5	-	-	10	10	800	1	3
Wick	25.3	-6	SSE	4	z0	52	92	50	5	-	4	5	0	4-6	-	1	*
Sumburgh	25.5	-18	S'E	6	c	52	92	49	7	5	-	-	9+	9+	800	0	4
Blacksod Point	24.9	-4	S	5	dd	53	97	52	6	6	2	-	2-3	10	800	1	4
Malin Head	25.2	-6	S'W	5	r0r0	52	92	50	7	5	-	-	10	10	1500	1	4
Aldergrove	28.5	-2	S'E	1	z0	51	92	49	6	5	2	-	7-8	10	1500	1	*
Birr Castle	28.0	0	SSE	2	c	55	85	51	8	5	2	-	7-8	10	2500	1	*
Valentia Obsy.	28.7	+6	S'E	4	c	53	85	49	8	5	7	-	2-3	10	2200	1	3
Roches Point	30.2	+2	SW	2	c	54	92	52	8	5	7	-	4-6	10	1500	1	3

PAST 24 HOURS.

Stations	Weather 7h.–13h. 4th (39)	13h.–18h. 4th (40)	18h. 4th to 1h. 5th (41)	1h.–7h. 5th (42)
London (Kew)	oFefcm0w	bbcew	cm0w	cmw
Croydon	oFeom	cmbmbcm0cm	cmbccm0	cm0cm
S. Farnborough	oFcfe	ofebmbm0bcm	bcmm0c	cm cmcm0
Boscombe Down	bFebfcm0	cm0bm	bmcm0	cm0bm0c
Thorney Island	bm0bcm0bm0	bm0bm	cm	cm om0
Lympne	bmbz	z0c	cm0	cz0
Manston	cm0bcz0	ccz0	cz0	cz0
Shoeburyness	cbcm0	bccm0	cm0	c
Felixstowe	cm0bc	bcz0c	ccm0	cz0
Gorleston	c	c	ce	c
Mildenhall	Fembcm0	bcc	cbcc	bccbcm0
Cranwell	Fcm0	cm0	cm0bm0	bm0cm0w
Birmingham	Fcfo	off	fom	om
Upper Heyford	oFemf	cm0	m	bm0cm
Ross-on-Wye	cm0bc	bccom	om0	om
Hartland Point	bbc	cbc	bm0	bbc
Bristol	ocm0	cm0om0id0	om0id0om0	om0bcm0
Portland Bill	cbc	c	cc	cc
Plymouth	cm0fbc	bccbc	cmwbcm0w	cm0bcmcmw
The Lizard	bccbc	bcw	bcw	c
Scilly (St. Mary's)	cbc	bcbc	bcW	bccw
Guernsey				
Pembroke	c	c	bccm0	cw
Holyhead (Valley)	bc	bc	bcb,cm0	cir0
Chester (Sealand)	bccm0	bcm0ff	cffm0	ocm
Manchester	bcbcz0	bcz0m0	bcmm0	cm0id0
Spurn Head	om0	c	c	c
Catterick (Sc)	oFof	cmcm0	cm	cm0cm
Tynemouth	cmm0	cbccm	cocm0	cm0
St. Abbs Head	cm0bcm0	bcm0cm0	cbccbcm0	obcm0
Leuchars	cfmm0	bcm0cm0w	bcm0cm0	cr0r0m0
Renfrew (Abbots I.)	cmfcm0	cm0	cr0r0m0	cr0r0m0
Eskdalemuir	bcc	c	cm0	orr
Point of Ayre	c	cb	c	cr0r0
Tiree	cid0m0cm0	cbcr0m0	cm0r0m0d0m0	cr0d0d0m0
Stornoway	cm0cir0m0	cir0m0	cr0r0d0d0m0	cd0d0m0
Dalwhinnie	oid0	oid0c	*	cir0o
Aberdeen	ofomz	cm0	ozbcz0oz	or0r0m
Wick	bm0bcm0	cm0bccm0	cr0m0	cr0r0m0
Sumburgh	c	c	om0ir0o	om0r0o
Blacksod Point	r	d	d	r
Malin Head	bc	r	r	r
Aldergrove	cFcm0f	cm0	cr0r0rr m	cm0cd0m0
Birr Castle	c	c *	*	r
Valentia Obsy.	c	r	r	r
Roches Point	d	c	r	r

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

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Light easterly to variable winds; mainly cloudy but chance of a few bright intervals, local fog around dawn; rather cold.
4 W. Midlands	As 6-10
5 S.W. England	As 1-3
6 South Wales; 7 North Wales; 8 N.W. England; 9 N. Midlands; 10 N.E. England	Light to moderate south to southwest winds; cloudy, rain spreading southeastwards across area; mild.
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 to fresh south west winds, strong locally at first, veering west and decreasing; dull with rain or drizzle at first, bright intervals and scattered showers later; mild becoming rather cold.
16 Orkneys and Shetlands; 17 N. W. Ireland; 18 N. E. Ireland	As 11-15
19 S. E. Ireland; 20 S. W. Ireland	Moderate south west winds; cloudy with occasional rain or drizzle; mild.

GENERAL INFERENCE

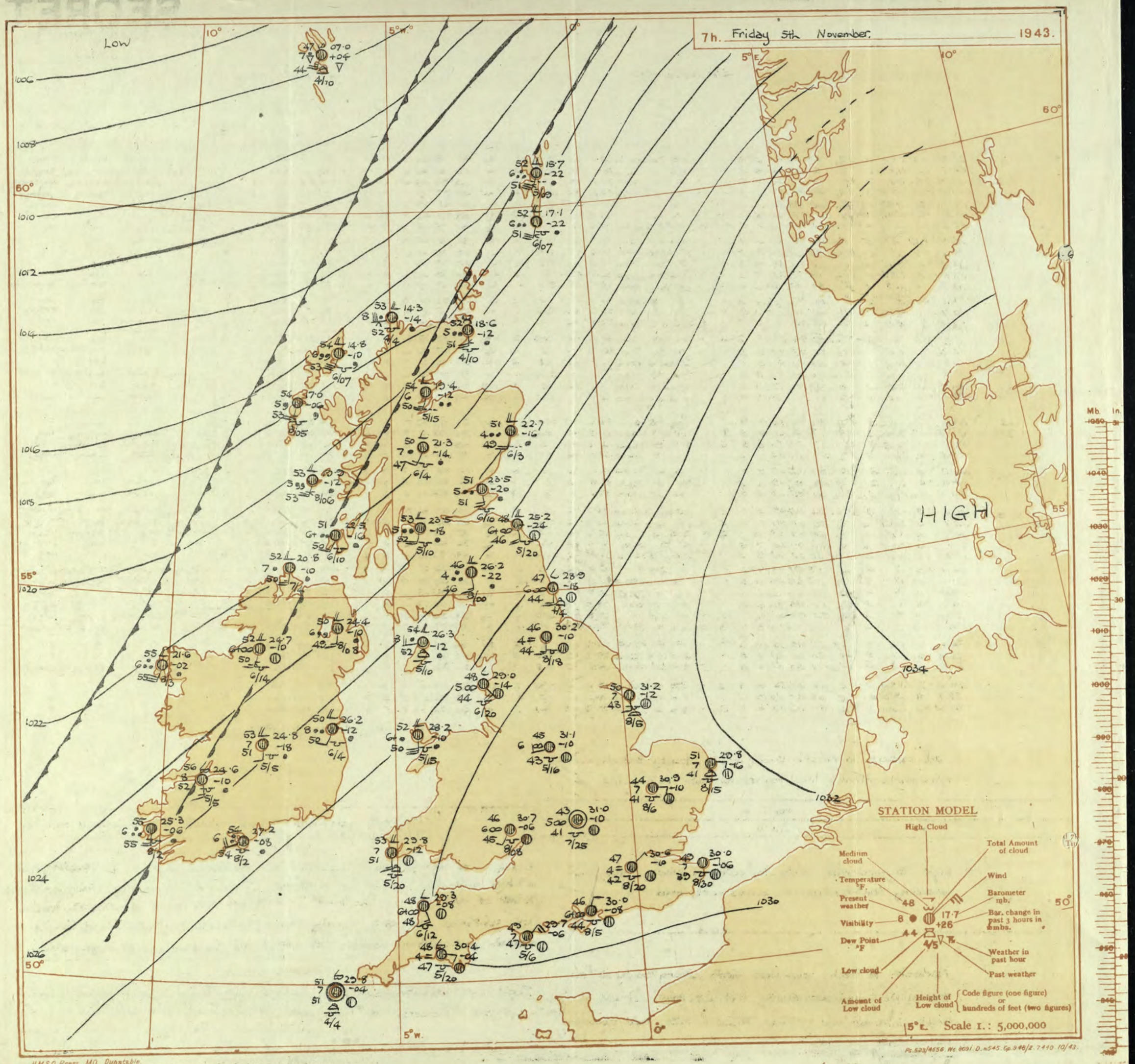
A ridge of high pressure covering our southeast districts is receding and a trough extending along the northwest seaboard is moving slowly southeast. A belt of rain covering Scotland and Ireland will move southeast, but it will continue fair but cloudy in the Southeast half of England. Bright intervals and scattered showers will spread into Scotland and Northern Ireland.

FURTHER OUTLOOK

Slight rain probably spreading to Southeast England, bright intervals and scattered showers in Northwest.

Forecasts issued at 1030

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



H.M.S.O. Press, M.O. Dunstable.
Ps.523/4556. Wt.8091. D.N545. Gp.946/2. 7440. 10/43.

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).

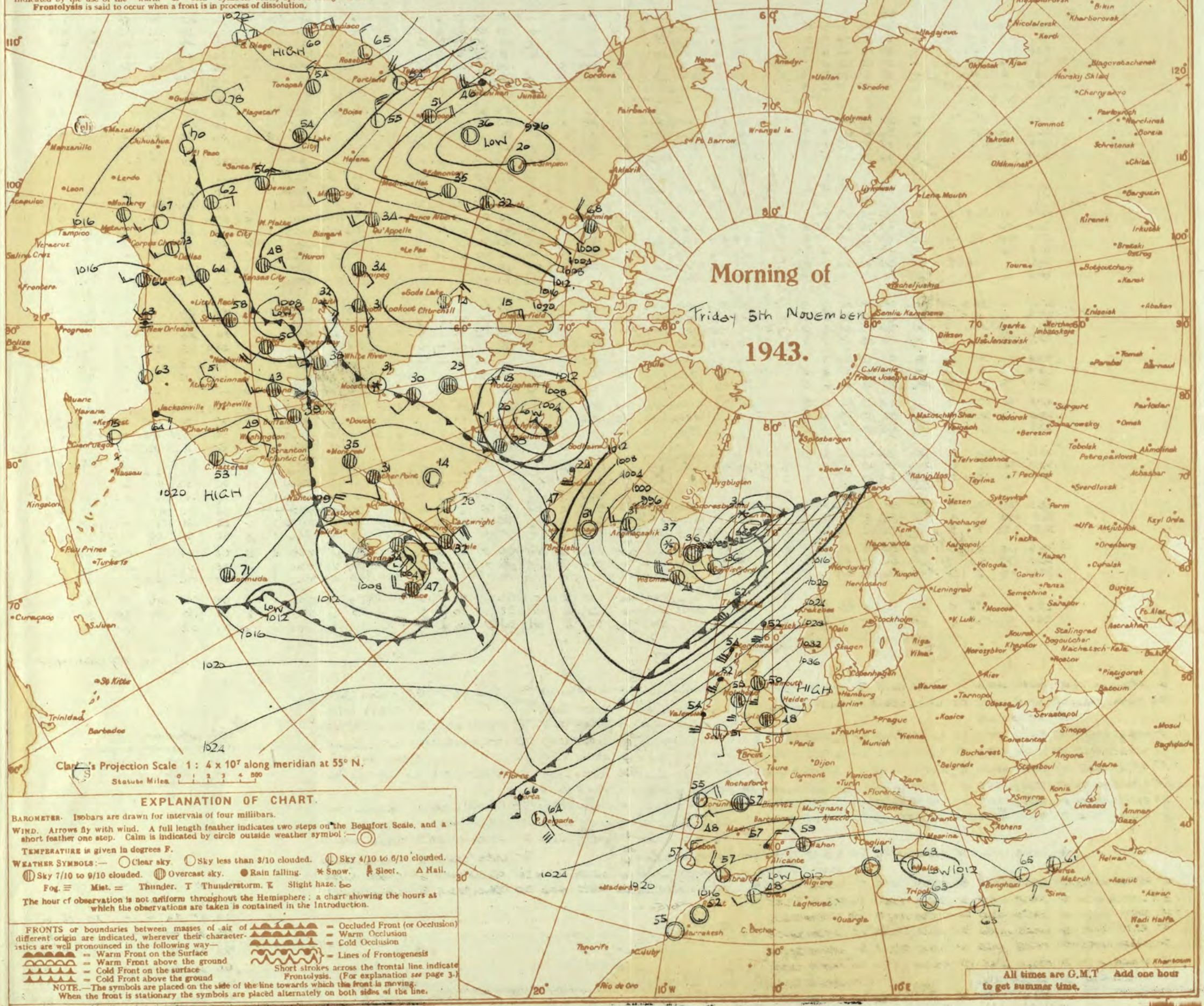
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



Page 4. BRITISH SECTION

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

Friday 5th November 1943

No. 29933

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

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	32·9	-2	ENE	1	z₀	48	85	42	5	5	-	-	10	10	2400
	S. Farnborough	226	32·7	-8	ENE	1	c	47	65	36	7	5	-	-	9+	9+	2500
	Boscombe Down	417	32·7	-2	SE'E	1	z₀	46	92	43	6	5	-	-	10	10	1800
	Thorney Island	10	32·0	-6	NE	2	m	48	85	43	4	5	-	-	10	10	3000
	Lympne	283	32·3	-6	ENE	2	z₀	48	75	40	5	5	-	-	9+	9+	2900
	Manston	154	31·9	-10	E	3	z₀	49	65	39	6	5	-	-	10	10	2800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	33·0	-6	E	2	z₀	52	75	44	6	5	-	-	10	10	4000
	Gorleston	5	32·6	-14	E'S	3	c	52	65	41	7	5	-	-	10	10	1500
	Mildenhall	15	33·1	-10	E'S	1	c-bc	47	92	45	7	5	-	-	7-8	7-8	3500
	Cranwell	203	33·7	+4	SE	1	z₀	45	92	44	6	-	-	-	0	0	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	33·2	-6	-	0	m	46	92	43	4	5	-	-	9	9	1700
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	30·8	-6	ESE	3	b	48	97	48	7	-	-	-	0	0	-
	Bristol	209	33·2	-2	-	0	z₀	47	85	44	6	5	-	-	10	10	1400
	Portland Bill	32	31·5	+4	NE	4	c-bc	50	92	48	7	5	-	-	7-8	7-8	4000
	Plymouth	86	32·1	-4	E	2	z₀	48	97	47	4	5	-	-	4-6	4-6	1000
	The Lizard	240	31·3	-2	NE	2	bc	50	97	50	7	5	-	-	4-6	4-6	2000
	Scilly (St. Mary's)	163	31·2	-2	SSE	1	bc	51	97	51	7	5	-	-	4-6	4-6	1000
	Guernsey	175															
6	Pembroke	142	31·2	-6	SE'S	4	c-bc	53	97	52	7	8	-	-	7-8	7-8	1500
7	Holyhead (Valley)	32	30·8	-6	S	5	c	53	92	51	7	5	2	-	7-8	10	1700
	Chester (Sealand)	16	32·1	-10	SSW	2	m	50	85	47	4	5	-	-	10	10	1300
8	Manchester	230	32·3	-10	S	3	z₀	49	85	45	5	5	-	-	7-8	7-8	1800
10	Spurn Head	29	33·9	-4	SW	2	c	50	85	44	7	7	-	-	9+	9+	2500
	Catterick (Sc)	192	32·6	-6	S	4	m	48	97	47	4	5	-	-	10	10	1600
	Tynemouth	108	32·1	-6	S	5	z₀	50	85	46	6	5	-	-	7-8	7-8	1500
11	St. Abbs Head	280	29·7	-6	SSE	2	z₀	46	92	44	5	5	-	-	2-3	7-8	2500
	Leuchars	36	28·0	-10	SSW	3	z₀	52	92	49	6	5	-	-	10	10	2000
12	Renfrew (Abbots I.)	19	27·2	-6	S	2	r₀r₀	54	92	53	5	5	-	-	10	10	1500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	29·4	-8	SW	3	c	54	92	52	7	5	-	-	9+	9+	1000
13A	Tiree	44	22·7	-16	S	5	d₀d	53	97	53	5	-	2	-	10	10	600
13B	Stornoway	12	18·6	-6	SSW	7	d₀d₀	54	92	52	6	5	2	-	9	10	800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	25·9	-20	SSW	5	c/r	51	92	48	6	5	-	-	9+	9+	1400
	Wick	114	21·9	-22	S	4	o/r	52	97	50	5	5	-	-	10	10	1200
16	Sumburgh	19	21·3	-22	S	5	ir₀	52	92	50	6	5	2	-	9+	10	700
17	Blacksod Point	18	23·1	-14	S	6	DD	55	97	54	6	-	2	-	10	10	800
18	Malin Head	84	23·3	-12	S'W	5	ir₀	52	85	48	7	5	-	-	9+	9+	1500
	Aldergrove	268	27·6	-8	S	3	rr	52	92	50	6	5	-	-	10	10	1500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	27·4	-8	S'E	5	dr	54	97	53	5	5	-	-	10	10	500
	Roches Point	22	30·0	-2	SW	4	iR	54	97	53	6	6	2	-	4-6	10	800

OBSERVATIONS at 7 hr. G.M.T. 5th November — 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)	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 4th Hrs. (38)
London (Kew)	30·5	-8	N'W	2	m	48	85	43	4	5	3	-	9	9+	4000	1	*	54	47	39	Tr	-	0·2
Croydon	30·6	-10	NE	1	m	47	85	42	4	5	-	-	10	10	2000	0	*	54	47	45	0·2	-	2·4
S. Farnborough	30·6	-6	-	0	z₀	46	92	44	5	5	-	-	10	10	2000	0	*	53	45	39	0·1	-	0·3
Boscombe Down	30·7	-8	NNE	2	c	41	92	39	7	5	-	-	9+	9+	4500	1	*	53	40	33	Tr	Tr	1·0
Thorney Island	30·0	-8	NNE	2	z₀	46	92	44	6	5	-	-	10	10	2500	0	*	56	44	41	Tr	-	*
Lympne	30·3	-8	NE	3	z₀	46	75	39	6	5	-	-	9+	9+	2500	0	§ (3)	52	46	*	-	-	*
Manston	30·0	-6	ENE	2	c₀	49	65	39	7	5	-	-	10	10	3000	1	*	53	47	46	-	-	4·0
Shoeburyness	30·1	-6	NE	2	c	49	85	44	8	5	-	-	10	10	2500	1	*	54	48	46	-	-	3·9
Felixstowe	30·8	-6	NE	1	c	50	65	48	7	5	-	-	10	10	4000	0	1	55	49	42	-	[illegible]	4·6
Gorleston	29·8	-16	E	2	c	51	65	41	7	8	-	-	10	10	1500	0	3	56	50	49	-	-	3·2
Mildenhall	30·9	-10	E'S	2	c	44	92	41	7	5	-	-	10	10	4000	0	*	57	43	34	Tr	-	3·9
Cranwell	31·4	-8	-	0	z₀	43	97	42	6	5	-	-	9	9	2500	1	*	53	37	*	0·1	-	0·0
Birmingham	30·0	-4	-	0	m	46	85	42	4	5	-	-	10	10	800	1	*	51	46	44	-	-	0·0
Upper Heyford	31·0	-10	-	0	z₀	43	97	41	5	5	-	-	9+	9+	2500	1	*	48	41	31	0·1	-	*
Ross-on-Wye	30·7	-6	SW'S	1	z₀	46	97	43	6	5	-	-	10	10	800	1	*	56	46	45	-	-	3·5
Hartland Point	29·3	-8	SE	3	z₀	48	97	48	6	5	1	-	9	10	1200	1	3	57	55	45	-	-	5·1
Bristol	31·3	-4	S	1	z₀	42	97	42	5	5	3	-	4-6	7-8	3000	1	*	54	41	*	Tr	Tr	0·0
Portland Bill	29·7	-6	NE	4	c-bc	49	92	47	7	5	-	-	7-8	7-8	4000	1	4	57	47	*	-	-	*
Plymouth	30·4	-4	ESE	2	m	48	97	47	4	5	7	-	7-8	9	2000	1	1	61	45	39	-	-	5·9
The Lizard	29·4	-4	NNE	3	z₀	50	92	48	5	5	-	-	9+	9+	2000	1	3	61	49	*	-	-	3·5
Scilly (St. Mary's)	29·8	-4	-	0	c	51	97	51	7	8	7	-	4-6	9+	1500	1	2	61	50	*	-	Tr	5·2
Guernsey																							
Pembroke	29·8	-12	S'E	3	c	53	92	51	7	8	2	-	7-8	10	2000	0	3	56	50	*	-	-	1·1
Holyhead (Valley)	28·2	-10	S	6	ir₀	52	92	50	6	5	2	-	7-8	10	1500	1	4	58	51	46	-	2	*
Chester (Sealand)	29·2	-14	S	3	m	48	85	45	4	5	7	-	7-8	10	2500	0	*	58	48	45	-	-	2·7
Manchester	29·7	-16	SSE	3	c/d	47	85	43	6	5	2	-	7-8	10	1500	1	*	58	45	39	-	Tr	*
Spurn Head	31·2	-12	SSE	2	c	50	75	43	7	7	-	-	10	10	2500	1	1	53	48	*	-	0·4	0·5
Catterick (Sc)	30·2	-10	S	3	m	46	92	44	4	5	-	-	10	10	1800	0	*	51	45	43	-	Tr	0·0
Tynemouth	28·9	-18	S	4	z₀	47	85	44	6	2	4	-	4-6	7-8	1500	1	3	52	47	44	-	-	*
St. Abbs Head	25·2	-24	SSE	4	z₀	48	92	46	6	5	2	-	7-8	9+	2000	0	3	56	50	*	-	-	*
Leuchars	23·5	-20	SSE	4	r₀r₀	51	97	51	5	5	-	-	9	10	1000	1	*	57	51	48	Tr	0·4	3·6
Renfrew (Abbots I.)	23·5	-18	SSW	4	r₀r₀	53	92	52	5	5	2	-	7-8	10	1000	1	*	56	53	48	-	5	0·2
Eskdalemuir	26·2	-22	SSE	3	rr	46	97	46	4	-	2	-	10	10	150	1	*	54	46	45	-	2	0·7
Point of Ayre	26·3	-12	WSW	3	ir₀	54	92	52	8	8	2	-	7-8	10	1000	1	3	57	53	*	-	2	1·4
Tiree	19·9	-12	SSW	5	d₀d₀	53	97	53	5	-	2	-	10	10	600	1		56	52	50	0·1	9	0·1
Stornoway	14·8	-10	SSW	6	d₀d₀	54	97	53	6	5	2	-	9	10	700	1		56	52	51	Tr	2	0·0
Dalwhinnie	21·3	-14	SSW	3	ir₀	50	92	47	7	5	1	-	9	10	1500	1	*	50	49	47	0·1	3	0·0
Aberdeen †	22·7	-16	SSW	4	r₀r₀	51	92	49	4	6	2	-	9	10	800	1	3	53	50	49	-	1	0·0
Wick	18·6	-12	S	4	r₀r₀	52	97	51	5	5	6	-	4-6	10	1000	1	*	54	51	47	-	0·5	*
Sumburgh	17·1	-22	S'W	6	r₀r₀	52	97	51	6	5	2	-	9	10	700	1	4	53	51	50	-	7	0·0
Blacksod Point	21·6	-2	SSW	6	rr	55	97	55	6	-	2	-	10	10	800	2	5	54	52	*	0·4	10	*
Malin Head	20·8	-10	S'W	5	ir₀	52	92	50	7	-	2	-	9+	9+	1500	1	4	55	51		0·2	3	5·1
Aldergrove	24·4	-10	S	3	d₀d₀	50	97	49	6	-	2	-	10	10	800	1	*	57	50	49	-	3	1·4
Birr Castle	24·8	-18	S	2	c	53	92	51	7	5	2	-	7-8	10	2500	1	*	55	51	49	-	2	0·6
Valentia Obsy.	25·3	-6	S	4	rr	55	97	55	6	5	-	-	10	10	500	1	3	54	53	51	Tr	5	0·1
Roches Point	27·2	-8	SW	4	id	54	97	54	6	5	-	-	10	10	450	1	4	56	53	*	0·1	3	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 4th $C_L C_M$	$wwVhN_h$	DDFWN	18h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN	01h. G.M.T. 5th $C_L C_M$	$wwVhN_h$	DDFWN	07h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN
109	5-	05666	16526	07	05690	48524	5-	62448	49668	5-	64548	49568
115	83	02764	20324	57	02854	20327	52	62735	53668	52	61844	53667
203				6-	65738	16628						
206	5-	05667	00027	57	05655	20528	52	62665	20668	62	22645	18568
210	54	05663	15024	5-	01764	16324	02	64630	16468	62	62854	17368
219	52	05545	16427	57	61545	16668	5-	52438	16668	5-	51528	51458
230	57	09655	14126	57	05646	14268	5-	52648	16368	63	62635	18368
245	53	05653	16324	5-	05567	16417	5-	05567	51428	02	62548	50568
260	5-	05654	12324	5-	05568	16228	00	05590	18400	52	62654	53365
273												
278	53	05672	14213	50	05562	18112	57	05564	14218	02	62548	18368
285										5-	05518	12428
288	5-	05546	20226	5-	05648	14328	5-	05648	15428	5-	05645	17325
575	52	05526	18148	5-	05645	17316	5-	22646	49468	52	05646	51328
301	10	05651	12421	00	08490	14300	00	05590	14300	54	05556	12428
321	5-	43228	00048	5-	05548	44350	5-	05658	12228	07	43290	14146
290	5-	05648	14328	5-	03748	14428	5-	02747	20427	5-	05648	20228
292	5-	05648	14328	5-	08448	12348	5-	08458	14328	00	08490	14214
310	7-	46209	16349	20	08428	16328				--	48209	20449
614	..	46109	06149	52	08435	00028	5-	05648	14228	5-	45358	00048
333	23	05863	14314	5-	01765	00015	5-	05647	15317	57	05644	15428
334	-	01753	20215	--	02755	20216				--	02653	20115
340	5-	15348	14248	50	08443	14243	5-	08448	14328	5-	08448	14358
136	50	05654	12314	5-	02757	12317	50	01764	12214	5-	02717	12127
336	10	01764	16314	10	01762	12312				57	05654	16328
350	5-	42427	08147	04	05690	08211	50	05553	14223	54	04573	00015
368	20	05613	08123	5-	05548	08218						
379	00	43208	10249	5-	08425	08357	5-	08448	12228	5-	05634	00028
390	5-	05654	08324	5-	05656	06226	5-	05667	06227	5-	05557	00027
382	5-	08428	02148	5-	08455	05225	5-	05658	00028	5-	05656	00026
438	00	05690	06440				5-	05557	08427	5-	02648	32428
430	00	08490	62300	00	05690	04200	50	05653	06113	5-	05658	32128
409	50	02856	15266	86	01852	14213	50	05644	10314	5-	05647	10427

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 5th November
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	ofefcmub	bccum₀	cmw
Croydon	ofeom	cmbmbcm₀	cmbcc
Greenwich	fec	cbc	cm₀
Camden Square	o	bc	*
Kensington	ofbc	bcc	*
Hampstead	bc	bc	bc

Atmospheric Pollution, Milligrams of solid impurity per cubic metre.
Kew 24 hours [illegible] ended 7h. [illegible] 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	54	47	39	Tr	-	0·2	*	*
Croydon	54	47	45	0·2	-	2·4	*	*
Greenwich	54	47	44	-	-	2·0	76	67
Westminster	55	48	45		-			83
Regents Park	55	47	39	-	-		78	88
Camden Square	60	46	40	-	-	*	*	83
Kensington	54	47	40	-	-		81	79
Hampstead	52	43	39	-	-		*	81

SECRET

Page 1

BRITISH SECTION

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

Saturday 6th November 1943

No. 29934

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

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)	27·8	-20	NNE	2	z_0	51	65	38	5	5	–	–	9	9	4000
	Croydon ...	28·1	-20	E	1	c	51	89	48	6	5	–	–	10	10	5500
	S. Farnborough	27·7	-24	ENE	1	z_0	51	65	41	6	5	–	–	10	10	3000
	Boscombe Down	27·9	-22	–	0	c	50	75	43	7	5	–	–	9+	9+	3000
	Thorney Island	27·3	-14	E'N	2	c	52	75	41	7	5	–	–	10	10	4000
	Lympne ...	27·5	-20	NE	3	c	48	75	40	7	5	–	–	10	10	2200
	Manston ...	27·5	-18	E	2	z_0	49	75	42	6	5	–	–	9+	9+	3000
2	Shoeburyness ...	27·5	-24	E	2	c	52	65	42	7	5	–	–	9+	9+	4000
	Felixstowe ...	27·9	-18	E'N	3	c	50	75	40	7	5	–	–	9+	9+	4000
	Gorleston ...	27·9	-14	SE'E	2	c-bc	50	65	39	7	8	–	–	7-8	7-8	2000
	Mildenhall ...	28·0	-22	–	0	c	51	65	39	7	5	–	–	9+	9+	3500
	Cranwell ...	27·5	-24	SSW	3	c	50	75	42	7	5	–	–	10	10	2500
3	Birmingham ...	27·7	-24	SSW	2	z_0	47	85	43	6	5	–	–	10	10	1500
	Upper Heyford	28·3	-22	W'S	1	c	49	65	41	7	5	–	–	9	9+	2600
4	Ross-on-Wye	27·2	-28	S	2	z_0	50	75	43	6	5	7	–	2-3	9+	1000
5	Hartland Point	27·2	-18	WSW	3	ir_0	53	92	50	6	5	2	–	7-8	10	1200
	Bristol ...	28·3	-22	S'E	1	z_0	49	75	41	6	5	7	–	7-8	10	2500
	Portland Bill ...	28·2	-16	NE	4	c	51	92	49	8	5	2	–	9	9	4000
	Plymouth ...	27·9	-18	S	1	z_0	53	75	47	6	5	2	–	9	10	3000
	The Lizard ...	27·3	-16	SE	3	z_0	56	85	52	5	5	3	–	7-8	7-8	2000
	Scilly (St. Mary's)	27·9	-16	WSW	2	r_0r_0	55	92	52	7	8	7	–	4-6	10	1200
	Guernsey ...															
6	Pembroke ...	27·7	-12	SW'W	4	c	55	97	54	7	8	–	–	9+	9+	2000
7	Holyhead (Valley)	25·3	-22	S'W	6	z_0	53	92	51	5	9	2	–	9	10	600
	Chester (Sealand)	25·9	-26	S	3	r_0r_0	51	85	47	6	5	2	–	9	10	1500
8	Manchester ...	26·1	-30	S'E	3	z_0	49	85	44	5	5	7	–	4-6	10	2500
10	Spurn Head ...	27·8	-24	S	4	c	51	65	41	8	7	7	–	9+	9+	2500
	Catterick (Sc.)...	26·4	-26	SSE	3	m	48	92	46	4	5	–	–	10	10	600
	Tynemouth ...	24·8	-28	S	4	ir_0	49	85	46	5	–	2	–	10	10	2200
11	St. Abbs Head	19·8	-30	SW	5	rr	51	92	49	6	5	2	–	7-8	10	2000
	Leuchars ...	20·7	-14	SW	3	ir_0	53	97	51	6	6	2	–	7-8	10	1200
12	Renfrew (Abbots I.)	19·9	-22	SSW	3	d_0d_0	54	97	53	6	5	2	–	4-6	10	800
	Eskdalemuir ...	22·5	-28	SSW	4	rr	49	97	48	5	–	2	–	10	10	200
	Point of Ayre...	22·8	-26	WSW	4	c	55	85	52	8	5	7	–	Tr	10	800
13A	Tiree	19·2	-6	WNW	3	d_0d_0	51	92	49	8	5	2	–	2-3	10	600
13B	Stornoway ...	16·6	+8	W	4	c	51	85	47	8	8	7	5	4-6	9	2000
15	Dalwhinnie ...	17·5	-14	SW	4	c/r	50	92	48	7	5	–	–	9	9	1500
	Aberdeen ...	19·0	-22	SSW	3	rr	52	92	50	7	6	2	–	7-8	9+	800
	Wick ...	16·3	-6	SW	2	c	54	92	51	8	5	7	–	9	9+	4000
16	Sumburgh ...	13·7	-20	SSW	6	d_0d_0	52	97	52	4	6	2	–	9+	10	300
17	Blacksod Point	22·0	0	WNW	3	o/d	53	97	52	7	6	–	–	10	10	800
18	Malin Head ...	19·5	-8	W	3	id_0	54	97	53	6	5	–	–	10	10	800
	Aldergrove ...	21·6	-18	S'W	2	r_0r_0	53	97	52	5	5	–	–	10	10	450
19	Birr Castle ...	22·4	-18	S	1	ir	55	92	53	7	5	–	–	10	10	1500
20	Valentia Obsy.	23·6	-14	SSW	3	r_0r_0	57	97	56	6	5	–	–	10	10	500
	Roches Point	24·6	-22	SSW	4	dr	55	97	54	5	5	–	–	10	10	450

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

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)	25·1	-12	NW'N	1	m	46	75	40	4	–	–	8	0	9+	–	1	*
	Croydon ...	25·5	-10	–	0	of+	46	75	40	3	5	–	–	10	10	3500	0	*
	S. Farnborough	25·5	-10	–	0	m	47	85	42	4	5	–	–	10	10	2500	0	*
	Boscombe Down	25·5	-10	WNW	1	c-bc	47	85	43	7	5	–	–	7-8	7-8	4000	0	*
	Thorney Island	25·1	-12	N'W	1	z_0	49	85	43	5	5	–	–	10	10	3300	0	*
	Lympne ...	25·4	-12	ENE	2	z_0	41	75	38	6	5	3	–	4-6	7-8	2000	0	§2
	Manston ...	25·2	-12	E	1	z_0	45	85	39	6	5	–	–	9+	10	2000	1	*
2	Shoeburyness ...	25·2	-4	–	0	z_0	46	85	42	6	5	–	–	9+	9+	4000	0	*
	Felixstowe ...	25·5	-10	–	0	c-bc	45	75	38	8	5	7	–	7-8	7-8	4000	0	2
	Gorleston ...	25·5	-8	–	0	z_0	47	75	39	6	8	–	–	7-8	7-8	1800	0	2
	Mildenhall ...	24·9	-10	–	0	z_0	45	85	40	6	–	7	7	0	10	–	0	*
	Cranwell ...	24·2	-14	SW	2	z_0	44	85	42	5	–	7	–	0	10	–	0	*
3	Birmingham ...	24·4	+18	SSW	3	ir_0	46	92	44	6	6	2	–	7-8	10	800	1	*
	Upper Heyford	25·4	-14	SW	1	z_0	46	85	42	6	5	–	–	10	10	2200	0	*
4	Ross-on-Wye	24·5	-14	SW	2	z_0	48	85	43	5	5	–	–	10	10	800	1	*
5	Hartland Point	24·2	-16	W	3	c/pr	54	92	52	6	5	2	–	9	10	1500	1	3
	Bristol ...	25·5	-12	S	1	z_0	48	85	44	6	5	–	–	10	10	2500	0	*
	Portland Bill ...	25·2	+2	NE	4	c-bc	48	92	47	7	5	–	–	7-8	7-8	4000	1	4
	Plymouth ...	26·0	-10	S'W	1	id_0	52	85	47	6	5	–	–	7-8	10	1000	1	
	The Lizard ...	25·2	-14	WSW	2	pr	53	85	49	6	5	3	–	10	10	1500	1	3
	Scilly (St. Mary's)	25·8	-10	SW'W	2	ir_0	54	92	51	7	8	7	–	7-8	10	1000	1	2
	Guernsey ...																	
6	Pembroke ...	24·1	-12	WSW	4	c/r	54	92	51	7	8	–	–	10	10	2000	1	3
7	Holyhead (Valley)	22·0	-16	S	6	id_0	53	97	52	7	5	2	–	7-8	10	600	2	4
	Chester (Sealand)	22·3	-20	S	3	m	50	85	47	4	5	–	–	7-8	10	1500	1	*
8	Manchester ...	22·7	-22	S	4	ir_0	48	92	46	4	5	2	–	9	10	1700	1	*
10	Spurn Head ...	24·1	-14	S'W	3	c	49	75	42	7	7	7	–	4-6	9	2500	0	2
	Catterick (Sc.)...	21·7	-30	SSE	2	rf	48	97	47	3	5	–	–	10	10	1700	1	*
	Tynemouth ...	21·2	-20	S	4	o/r	50	92	47	4	–	2	–	10	10	1500	1	3
11	St. Abbs Head	17·7	-4	SSW	5	r_0r_0	57	85	54	7	5	–	–	10	10	2500	1	3
	Leuchars ...	16·6	-18	SW	3	z_0	54	97	53	6	5	2	–	7-8	10	1000	1	*
12	Renfrew (Abbots I.)	17·2	-14	SW'S	2	id_0	54	97	53	6	5	2	–	4-6	10	600	1	*
	Eskdalemuir ...	18·4	-18	S'W	4	rf	50	97	49	3	–	2	–	10	10	<150	1	*
	Point of Ayre...	20·5	0	W	4	ir_0	55	97	54	7	5	7	–	4-6	10	2000	1	3
13A	Tiree	19·1	0	NW	3	bc	47	85	42	8	5	–	–	4-6	4-6	2000	1	3
13B	Stornoway ...	16·8	-2	WSW	3	b-bc	45	75	38	8	4	–	–	2-3	2-3	1800	1	2
15	Dalwhinnie ...	17·5	-16	SW	3	ir_0	47	92	44	7	5	–	–	9+	9+	1500	1	*
	Aberdeen ...	16·3	-10	SW	2	fs	53	92	51	2	5	–	–	10	10	1500	1	2
	Wick ...	16·3	+8	WNW	2	c	48	92	45	8	5	7	–	4-6	9+	3000	1	*
16	Sumburgh ...	13·2	-6	W'S	5	c-bc	50	85	45	7	5	7	–	2-3	7-8	800	1	3
17	Blacksod Point	22·3	+2	NNW	2	c	50	85	46	8	6	3	–	4-6	9+	1500	1	2
18	Malin Head ...	19·6	+2	N'W	3	c	51	85	47	7	5	2	–	4-6	10	800	2	3
	Aldergrove ...	19·9	-2	W	2	o/d	51	97	51	6	5	–	–	10	10	600	1	*
19	Birr Castle ...	20·7	-8	S	1	ir	55	97	54	7	5	–	–	10	10	1500	1	*
20	Valentia Obsy.	23·2	0	NW'N	3	c/d	53	97	52	7	5	–	–	9+	9+	700	1	2
	Roches Point	22·0	-12	SW	2	f	55	97	54	3	–	–	–	10	10	<150	1	4

PAST 24 HOURS.

District	Stations	Weather 7h.—13h. 5th (39)	Weather 13h.—18h. 5th (40)	Weather 18h. 5th to 1h. 6th (41)	Weather 1h.–7h. 6th (42)
1	London (Kew)	cmwcm₀	cz₀mw	cmfmw	cmr₀rm
	Croydon ...	czcz₀m₀	cm₀cz₀of	cf	cm₀crrm₀
	S. Farnborough	cm₀	cm₀	cmm₀	cm₀m₀r₀r₀
	Boscombe Down	ccm₀c	c	cr₀m₀c	cr₀r₀m₀
	Thorney Island	om₀c	com₀	om	ofid₀fr₀
	Lympne ...	c	bcm₀wc	cbcbm₀w	cm₀cir₀cf
	Manston ...	crz₀	cz₀	cm₀	cm₀
2	Shoeburyness ...	c	m₀c	cm₀	crrm
	Felixstowe ...	c	cbcc	ccm₀	r₀r₀m₀
	Gorleston ...	c	bccz₀	ccz₀	corr
	Mildenhall ...	c	ccm₀	ccm₀	cm₀id₀r₀m
	Cranwell ...	cm₀bm₀c	cm₀	cm₀cm₀id	m₀crrir₀c
3	Birmingham ...	oz	ocr	or₀r	oirc
	Upper Heyford	cmcm₀c	cm₀	cmr₀m₀	cid₀rf
4	Ross-on-Wye	om₀cm₀	cz₀	om₀ir₀	or₀om₀
5	Hartland Point	c	cir₀c	ir₀rrc	rr ir₀c
	Bristol ...	cm₀bccz₀	cz₀cm₀	cm₀id₀cm₀	cm₀id₀cm₀
	Portland Bill ...	c	c	oo	orr
	Plymouth ...	cmwcm₀	cmzid₀	cir₀m₀	or₀r₀m₀c
	The Lizard ...	cz₀m	czopr	cz₀pr	oprrido
	Scilly (St. Mary's)	c	r₀	cr₀r₀c	cid₀
	Guernsey ...				
6	Pembroke ...	c	r₀ir₀	cid₀dd	qcq
7	Holyhead (Valley)	or₀r₀m₀	r₀r₀d₀d₀c	or₀r₀d₀d₀m₀	cbcc
	Chester (Sealand)	cmm₀r₀r₀	cir₀m	cmr₀r₀m₀	cddd₀d₀
8	Manchester ...	cm₀	r₀r₀ir₀m₀m	ir₀r₀m	r₀r₀mfcm₀
10	Spurn Head ...	c	c	cm₀	or₀r₀
	Catterick (Sc.)...	cmm₀m	cid₀fcrf	cf	cm₀bc
	Tynemouth ...	cm₀ir₀	air₀m	omirmm₀	om₀bc
11	St. Abbs Head	cm₀rr	cm₀r₀cr₀	cr₀rr	bcrrbc
	Leuchars ...	rcir₀m₀	cir₀cm₀	cid₀m₀c	cbcb
12	Renfrew (Abbots I.)	cr₀r₀d₀d₀m₀	cd₀d₀ir₀m₀	bc	c₀r₀bc
	Eskdalemuir ...	orr	orrf	orrfc	cbc
	Point of Ayre...	r₀r₀c	ccir₀	ir₀d₀d₀c	prc
13A	Tiree	cd₀m₀	cbc	cpr₀cb	cpr₀bcbpr
13B	Stornoway ...	cd₀d₀m₀f	ccpr₀bc	bccpr₀bc	bcpr₀bcpr₀b
15	Dalwhinnie ...	air₀c	cir₀	*	coir₀c
	Aberdeen ...	crrmcrr	cir₀f	cf₀cir₀cz₀	cz₀cbcb
	Wick ...	cm₀rrc	c	bbcc	bcbbcc
16	Sumburgh ...	cm r₀d₀c	cd₀m₀c	bcpr₀	bcpr₀
17	Blacksod Point	d	c	pr	pr
18	Malin Head ...	r	d	pr	pr
	Aldergrove ...	cd₀d₀r₀r₀m₀	cm₀cddm₀	cid₀m₀	bcc
19	Birr Castle ...	r	r	*	bc
20	Valentia Obsy.	r	r	bc	pr
	Roches Point	r	r	d	bc

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

Districts	Forecast
1 S.E. England; 2 E. England ...	Moderate or fresh northwest to north winds; dull, with rain at first, bright periods and local showers later; cold or rather cold.
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 ...	Moderate or fresh northwest to north winds; local showers, bright periods; cold or rather cold.
13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Moderate or fresh northwest to northeast winds; cloudy, occasional wintry showers, some bright intervals; cold.
16 Orkneys and Shetlands	As 13b-15
17 N.W. Ireland; 18 N.E. Ireland; 19 S.E. Ireland; 20 S.W. Ireland	As 3-13A

GENERAL INFERENCE

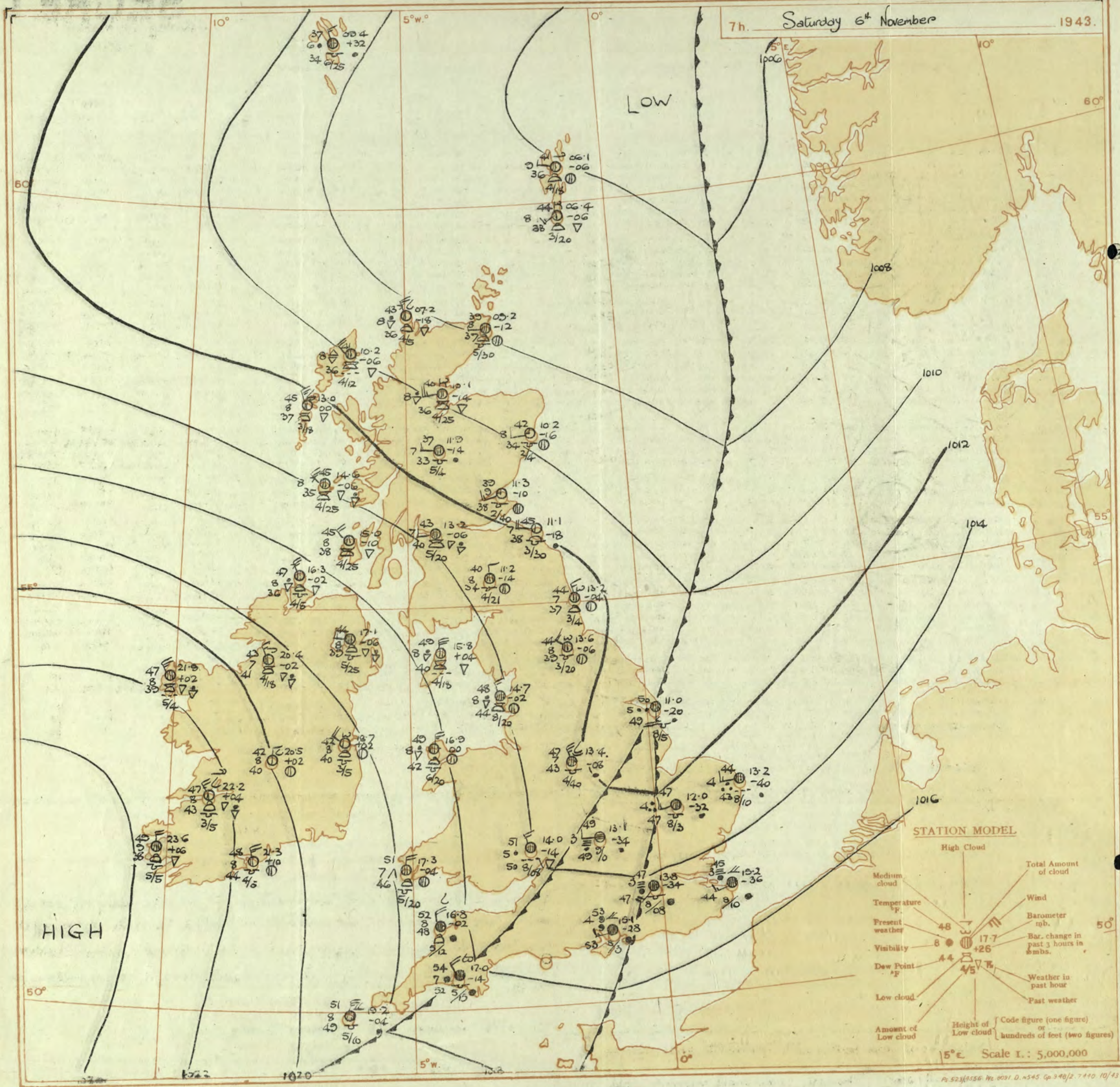
A trough of low pressure over Southeast England will move away southeast, and a cold northwest to north current will affect the whole of the British Isles. There will be dull rainy conditions in the Southeast at first. Elsewhere there will be showers and bright intervals, the showers having a wintry character in the North.

FURTHER OUTLOOK

Cold northeast winds. Local showers.

Forecasts issued at 1030

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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

Ps. 523/8556 Wt. 8091. D. 545. Gp. 948/2. 7440. 10/43.

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.

Saturday 6th November, 1943

No. 29934

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

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	*	*	*	*	*	46	*	*	*	*	*	*	*	*	*
	Croydon ...	290	20·9	-28	SSE	2	of	44	85	40	3	5	-	-	10	10	1900
	S. Farnborough	226	20·5	-26	SW'W	2	z	46	85	42	5	5	-	-	10	10	1900
	Boscombe Down	417	20·9	-26	SSW	2	o/r	45	92	43	7	5	-	-	10	10	1400
	Thorney Island	10	21·0	-24	W	1	of	48	85	45	3	5	-	-	10	10	2600
	Lympne ..	283	21·0	-26	WNW	1	z	40	92	38	6	5	1	-	1	2-3	2000
	Manston ...	154	21·5	-22	SW	2	z	41	85	37	6	5	-	-	9	9	2000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	20·6	-36	SW'S	3	z	47	85	42	6	5	-	-	7-8	7-8	2200
	Gorleston ...	5	20·6	-26	SW	2	z	44	75	38	6	5	-	-	10	10	2500
	Mildenhall ...	15	19·2	-32	S	2	z	45	85	40	6	5	-	-	10	10	2500
	Cranwell ...	203	17·2	-38	ESE	3	id	46	97	46	4	5	-	-	10	10	1500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	19·8	-34	SW'W	2	id	45	92	43	5	5	-	-	10	10	800
4	Ross-on-Wye .	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	19·0	-26	WSW	4	rr	53	97	53	6	5	2	-	9	10	800
	Bristol ...	209	19·9	-30	SW	4	z	50	92	47	6	5	-	-	10	10	1000
	Portland Bill ...	32	20·6	-30	S	2	o	51	92	49	7	5	-	-	10	10	2500
	Plymouth ...	86	21·4	-24	WSW	4	z	54	85	51	6	5	-	-	10	10	1700
	The Lizard ...	240	21·7	-2	W'S	5	pr	53	97	52	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	21·5	-26	WSW	5	c	54	97	54	6	5	-	-	10	10	800
	Guernsey ...	175															
6	Pembroke ...	142	18·9	-16	W'N	4	dd	55	97	55	6	8	-	-	10	10	1500
7	Holyhead (Valley)	32	17·5	-16	NW'N	4	d d	53	97	53	6	5	2	-	7-8	10	500
	Chester (Sealand)	16	16·3	-30	-	0	dd	54	85	51	4	5	2	-	7-8	10	1200
8	Manchester ...	230	16·6	-30	S'W	3	r	49	97	49	4	6	2	-	4-6	10	300
10	Spurn Head ...	29	16·4	-44	SW	4	z	47	85	44	6	7	7	-	7-8	10	2500
	Catterick (Sc) ...	192	15·5	-30	S	1	of	49	97	49	3	5	-	-	10	10	1600
	Tynemouth ...	108	15·2	-28	W	3	c/r	52	92	49	6	-	2	-	10	10	1500
11	St. Abbs Head	280	13·6	-12	NNE	3	r	48	97	48	7	5	-	-	10	10	2500
	Leuchars ...	36	14·0	-8	SW	2	c	49	75	42	7	5	-	-	9	9	3500
12	Renfrew (Abbots I.)	19	15·6	-12	W'S	2	b-bc	43	85	40	6	5	3	-	Tr	2-3	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	16·8	-10	N	4	c	51	85	47	8	6	7	-	1	10	1000
13A	Tiree	44	16·5	-18	WNW	3	c-bc/pr	57	85	51	7	5	7	-	7-8	7-8	2500
13B	Stornoway ...	12	12·8	-18	WSW	4	b-bc/pr	43	75	37	8	3	-	-	2-3	2-3	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	13·7	-18	NW	2	c	45	85	41	7	5	7	-	9	9+	5000
	Wick ...	114	12·5	-26	SW	3	c-bc	41	92	39	8	5	7	-	4-6	7-8	5300
16	Sumburgh ..	19	09·8	-22	WSW	5	pr	47	75	41	8	5	3	-	9	9	1600
17	Blacksod Point	18	22·4	+2	WNW	3	bc/pr	47	92	45	8	9	-	-	4-6	4-6	1500
18	Malin Head ...	84	17·4	-18	WNW	4	pr	48	75	40	8	8	-	-	9	9	1500
	Aldergrove ...	268	18·7	-12	WNW	1	bc	47	92	45	7	5	-	-	4-6	4-6	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	23·3	-2	N	4	b	50	85	46	8	7	-	-	1	1	2500
	Roches Point	22	21·1	-4	NW	5	bc	52	92	50	8	5	-	-	4-6	4-6	1500

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

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)	13·2	-36	SW'W	3	rr	49	97	48	4	6	2	-	9+	10	1500	1	*
Croydon ...	13·8	-34	SSW	4	r	47	92	47	3	5	-	-	10	10	800	1	*
S. Farnborough	13·6	-34	WSW	3	rr	50	97	50	5	6	2	-	9	10	600	1	*
Boscombe Down	14·8	-30	W'S	3	o/r	50	97	50	6	5	-	-	10	10	800	1	*
Thorney Island	15·1	-28	SW'W	3	id	53	97	53	4	-	2	-	10	10	800	1	*
Lympne ..	15·2	-34	WSW	3	rF	47	97	44	1	5	-	-	10	10	600	1	3
Manston ...	15·2	-36	SW	3	r	45	97	44	3	-	2	-	10	10	1000	1	*
Shoeburyness ...	14·5	-26	SSW	3	rr	47	97	45	4	5	-	-	10	10	1500	1	*
Felixstowe ...	14·0	-34	WSW	4	r	47	92	45	5	6	2	-	9	10	1500	1	4
Gorleston ...	13·2	-40	SW'W	3	rr	44	97	43	4	6	-	-	10	10	1000	1	3
Mildenhall ...	12·0	-32	SW	3	rr	47	97	47	4	5	-	-	10	10	800	1	*
Cranwell ...	11·6	-22	WNW	3	r	49	97	49	4	5	-	-	10	10	700	1	*
Birmingham ...	14·0	-8	NW	4	z	48	92	46	6	6	7	-	4-6	4-6	800	1	*
Upper Heyford	13·1	-34	W'S	2	rf	49	97	49	3	-	-	-	10	10	<150	1	*
Ross-on-Wye .	14·0	-14	NW'N	3	r	51	97	50	5	6	-	-	10	10	800	0	*
Hartland Point	16·8	-2	NW	4	c	52	85	48	8	2	4	-	7-8	9	1200	1	4
Bristol ...	14·4	-22	WSW	3	z	53	92	51	6	5	7	-	9	10	1500	1	*
Portland Bill ...	15·2	-26	SW	4	r	55	92	53	7	5	-	-	10	10	2500	1	4
Plymouth ...	17·0	-14	WNW	4	r	54	92	52	7	5	7	-	7-8	10	1500	1	2
The Lizard ...	17·9	-10	NW	4	o/d	52	97	52	6	5	-	-	10	10	1000	1	4
Scilly (St. Mary's)	19·2	-4	N	5	o/d	51	92	49	8	5	2	-	7-8	10	1000	1	4
Guernsey ...																	
Pembroke ...	17·3	-4	N'W	4	c-bc q	51	85	46	7	8	-	-	7-8	7-8	2000	1	2
Holyhead (Valley)	16·9	0	NW	5	pr	49	75	42	8	8	-	-	9	9	2000	1	3
Chester (Sealand)	14·7	-2	N'W	3	o/d	48	85	44	8	8	3	-	9	9+	1000	1	*
Manchester ...	14·3	-2	NW'N	3	z	46	85	43	6	4	3	-	7-8	7-8	3000	1	*
Spurn Head ...	11·0	-20	S'E	4	r	50	97	49	5	5	-	-	10	10	2500	1	3
Catterick (Sc) ...	13·6	-6	WNW	3	bc	44	85	39	8	5	3	-	2-3	4-6	2000	1	*
Tynemouth ...	13·2	-4	NW	3	bc	44	75	47	7	2	3	-	2-3	4-6	1500	1	2
St. Abbs Head	11·1	-18	W	4	b-bc	45	75	38	7	4	-	-	2-3	2-3	3000	0	4
Leuchars ...	11·3	-10	SW	3	b	39	97	38	9	5	-	-	1	1	4000	1	*
Renfrew (Abbots I.)	13·2	-6	SW'W	2	c-bc/pr	43	92	40	7	3	-	-	7-8	7-8	2000	1	*
Eskdalemuir ...	11·2	-14	NNW	2	c	40	85	34	8	5	-	-	4-6	10	2100	1	*
Point of Ayre ...	15·8	+4	N'W	6	pr	49	75	40	8	9	-	-	4-6	4-6	1800	1	4
Tiree	14·6	-6	WNW	5	bc/pr	45	65	35	8	3	-	-	4-6	4-6	2500	1	4
Stornoway ...	10·2	-6	WNW	4	phr	41	85	36	8	9	-	-	4-6	4-6	1200	1	3
Dalwhinnie ...	11·9	-14	W	3	c-bc	37	85	33	7	5	-	-	7-8	7-8	1500	1	*
Aberdeen † ...	10·2	-16	WSW	2	b	42	75	34	8	5	-	-	1	1	1500	1	3
Wick ...	09·2	-12	WSW	1	c-bc	39	92	37	8	8	-	-	7-8	7-8	3000	1	*
Sumburgh ..	06·4	-6	SW	3	b-bc	44	75	38	8	2	6	-	2-3	2-3	2000	1	2
Blacksod Point	21·9	+2	NW	5	bc/pr	47	75	39	8	9	-	-	7-8	7-8	1500	1	4
Malin Head ...	16·3	-2	NW	5	pr	47	65	36	8	8	-	-	4-6	4-6	2500	2	4
Aldergrove ...	17·1	-6	W'N	3	bc/pr	44	85	39	8	8	-	-	7-8	7-8	2500	1	*
Birr Castle ...	20·5	+2	N	2	b-bc	42	92	40	8	-	4	-	0	2-3	-	1	*
Valentia Obsy.	23·6	+6	N'W	4	c-bc	49	65	38	9	8	-	-	7-8	7-8	2700	1	3
Roches Point	21·3	+10	NNW	5	bc	48	85	44	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 5th Hrs. (38)
London (Kew)	51	43	31	-	2	0·0
Croydon ...	51	42	39	-	1	0·0
S. Farnborough	51	45	39	-	2	0·0
Boscombe Down	51	43	39	-	1	0·0
Thorney Island	51	46	42	-	1	*
Lympne ..	48	39	32	-	1	0·1
Manston ...	50	39	36	-	0·2	0·2
Shoeburyness ...	52	43	43	*	1	0·1
Felixstowe ...	53	45	40	-	3	0·1
Gorleston ...	56	42	37	-	3	1·9
Mildenhall ...	57	41	35	-	5	0·0
Cranwell ...	53	42	39	-	5	2·7
Birmingham ...	47	45	43	Tr	3	0·0
Upper Heyford	49	45	39	-	3	*
Ross-on-Wye .	50	48	46	Tr	0·6	0·0
Hartland Point	54	52	50	Tr	4	0·0
Bristol ...	51	47	45	Tr	1	1·6
Portland Bill ...	53	49	*	-	2	*
Plymouth ...	54	51	49	-	2	0·0
The Lizard ...	57	56	*	Tr	2	0·7
Scilly (St. Mary's)	54	51	*	Tr	1	0·0
Pembroke ...	55	49	*	0·3	3	0·0
Holyhead (Valley)	54	49	46	2	5	*
Chester (Sealand)	51	48	46	0·4	3	0·0
Manchester ...	50	46	44	Tr	2	*
Spurn Head ...	52	46	*	-	7	0·7
Catterick (Sc) ...	48	43	39	0·1	1	0·0
Tynemouth ...	50	48	42	1	1	*
St. Abbs Head	50	43	*	5	1	*
Leuchars ...	54	39	38	3	0·2	0·0
Renfrew (Abbots I.)	56	42	33	2	1	0·0
Eskdalemuir ...	50	40	33	11	3	0·0
Point of Ayre ...	55	47	*	3	3	0·0
Tiree	47	43	37	1	2	0·0
Stornoway ...	54	40	35	1	4	2·0
Dalwhinnie ...	51	36	30	1	0·3	0·0
Aberdeen † ...	53	41	31	7	0·3	0·0
Wick ...	54	48	33	2	0·3	*
Sumburgh ..	52	44	39	5	0·3	
Blacksod Point	55	45	*	1	1	*
Malin Head ...	55	45		1	2	
Aldergrove ...	54	43	38	4	0·3	0·0
Birr Castle ...	56	42	38	2	0·6	
Valentia Obsy.	57	48	43	6	Tr	
Roches Point	55	48	*	7	0·1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 5th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 6th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	5-	62548	25658	57	02645	24325	8-	15764	23484	87	25754	22485
115	87	02844	24556	54	02854	24525	24	81854	24484	24	81854	61854
203												
206	6-	61747	24367	53	02755	24266	5-	02866	24326	36	81854	21585
210	53	02964	20125	52	61745	25267	5-	02866	20226	5-	01954	20414
219	87	02866	24457	46	02844	24425	80	01843	24413	37	01843	28584
230	02	54528	18358	83	01954	26364	8-	81858	24388	9-	01854	59484
245	62	22636	18368	52	05647	20128	5-	02767	00167	50	01962	23212
260	5-	05648	20368	5-	05645	22225	5-	05663	20223	5-	01753	20223
276												
279	62	05538	52658	62	54425	18558	52	05644	28158	73	01753	26224
285												
288	52	61685	17428	57	08446	17568	57	05656	17468	53	02862	26425
575	52	53636	18358	57	02845	29256	57	61744	30325	3-	25744	28384
301	62	62556	14368	5-	52428	16358	5-	52438	16358	3-	81858	29318
321	57	05561	16346	57	08455	16228	02	62448	16368	57	05655	28268
299	5-	03748	20328	5-	05646	20326	5-	64548	22468	5-	05647	28327
292	07	17590	14328	5-	57348	14228	5-	45248	14168	57	02864	28345
310	--	48205	20429							10	02626	24466
614	5-	05557	16127	57	08465	18228	5-	05658	20218	52	05665	28228

III	13h. G.M.T. 5th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 6th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	62	22645	18468	62	62535	18358	52	52535	24468	5-	01754	31424
334	--	51537	26288	--	51537	26228				--	02645	22116
340	5-	05547	18328	52	08457	16368	52	22438	18368	57	02755	30268
136	5-	02757	16127	07	02790	16126	5-	27747	20368	02	58418	20368
330	57	05656	12328	--	67305	20369				13	02753	28316
350	5-	12858	00028	57	02753	00026	5-	05648	16268	62	62426	22368
368	57	05655	08227	5-	21648	16258				53	02743	30466
379	5-	05634	00028	57	05655	20228	5-	62808	20368	--	62109	26569
390	5-	05667	02127	57	05666	00027	5-	43368	00048	52	67337	30368
382	57	02765	00027	53	05656	00028	5-	62638	20228	5-	54638	24368
438	5-	05648	32328	51	05654	32217	5-	05648	00028			
430	5-	02768	06228	5-	05668	04128	5-	08458	00028	5-	52438	13358
409	57	61653	14268	57	02654	17268	51	52527	17356	5-	02846	31458

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 November, 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 ...	cmwcm	czmw	cmfgw
Croydon ...	czczcm	cmczcf	cmprrf
Greenwich ...	c	c	cmdrrf
Camden Square	c	c	*
Kensington ...	cm	cmcf	*
Hampstead ...	bc	cr	cr

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ending 7h. Time
1·0 20-21h 5th
Min.
0·1 2-7h 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	51	43	31	-	2	0·0	*	*
Croydon ...	51	42	39	-	1	0·0	*	*
Greenwich ...	51	41	35	-	4·3	0·0	71	97
Westminster ...	52	44	39	4·8			77	100
Regents Park ...								
Camden Square	51	43	37	-	5·6	*	*	96
Kensington ...	51	43	35	-	5·0		76	99
Hampstead ...	50	43	37	-	5·6		*	99

Page 1 BRITISH SECTION

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

SECRET

Sunday 7th November, 1943

No. 29935.

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

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)	11·7	-6	NNW	4	z0	51	65	40	6	8	3	-	9	9+	1500
	Croydon	11·8	-6	WNW	4	z0	50	75	40	6	2	7	-	7-8	7-8	2000
	S. Farnborough	12·3	-6	NNW	3	pr	51	75	45	6	8	-	-	9+	9+	2000
	Boscombe Down	14·3	-2	NNW	4	bc/pr	47	85	42	8	8	-	-	2-3	4-6	2000
	Thorney Island	13·3	0	NW'N	5	bc	51	75	42	8	2	6	-	1	4-6	2500
	Lympne	10·3	-14	NNW	5	c/r	47	85	44	5	5	7	-	4-6	10	1000
	Manston	09·7	-22	N'W	5	c/r	49	75	40	6	5	7	-	1	10	700
2	Shoeburyness	12·4	-24	NNW	3	z0	49	75	41	5	5	3	-	7-8	9+	2500
	Felixstowe	09·8	-6	NW	5	c/r	49	92	46	8	5	-	-	4-6	9	4000
	Gorleston	08·3	-6	NNW	4	ir0	47	97	46	6	6	-	-	10	10	800
	Mildenhall	10·3	-10	NW	4	b-bc	51	75	41	7	1	3	-	2-3	2-3	2500
	Cranwell	10·8	-10	WNW	3	c-bc	50	65	38	7	5	-	-	7-8	7-8	2000
3	Birmingham	13·8	-4	NW	4	c-br/pr	44	85	40	6	8	-	-	9	9	1500
	Upper Heyford	12·9	-10	NNW	4	bc	49	75	41	7	2	6	-	4-6	4-6	2500
4	Ross-on-Wye	14·7	-6	NW	4	bc	51	55	40	8	1	-	-	4-6	4-6	3000
5	Hartland Point	18·0	+2	NNW	4	c-bc/pr	50	75	43	8	2	-	-	7-8	7-8	2000
	Bristol	15·2	-2	NW'W	5	bc	51	65	38	8	4	4	-	4-6	4-6	2500
	Portland Bill	15·1	-4	NW	5	c-bc	54	92	52	8	2	-	-	7-8	7-8	4000
	Plymouth	18·0	+2	NW'N	5	bc/pr	50	75	41	8	2	6	-	2-3	4-6	2500
	The Lizard	18·7	0	NW	6	bc	52	65	41	8	2	3	-	2-3	4-6	2500
	Scilly (St. Mary's)	21·1	+4	N	6	c	53	65	42	8	8	6	-	7-8	9+	1500
	Guernsey															
6	Pembroke	19·1	+4	N'W	5	bcq	50	65	39	8	2	-	-	4-6	4-6	2000
7	Holyhead (Valley)	17·2	-4	NW	5	c-bc	49	55	33	8	8	6	-	4-6	7-8	2500
	Chester (Sealand)	14·6	-2	NNW	4	b-bc/pr	47	85	42	8	2	-	-	2-3	2-3	2500
8	Manchester	13·4	-10	NW	5	z0	48	65	38	6	3	6	-	4-6	4-6	2000
10	Spurn Head	09·8	-4	NW	5	c-bc	49	75	41	8	7	7	-	4-6	7-8	2500
	Catterick (Sc)	11·7	-10	NNW	5	bc	48	65	36	8	8	-	-	4-6	4-6	3000
	Tynemouth	11·3	-8	WNW	4	b-bc	48	65	36	7	2	-	-	2-3	2-3	2500
11	St. Abbs Head	10·0	-6	NW	5	bc	45	65	33	7	1	4	-	2-3	4-6	3000
	Leuchars	10·6	-4	NW	4	bc	47	65	35	9	1	4	-	4-6	4-6	3500
12	Renfrew (Abbots I.)	13·0	-2	WNW	5	bc	45	75	39	8	3	6	-	2-3	4-6	2000
	Eskdalemuir	11·4	-8	W'N	5	b-bc	44	65	31	8	7	-	-	2-3	2-3	2500
	Point of Ayre	14·9	-2	N'E	7	bJP	48	65	39	8	3	-	-	1	1	2500
13A	Tiree	16·8	+10	NW	6	bc	47	75	40	8	3	-	3	4-6	4-6	2000
13B	Stornoway	14·1	+38	NNW	7	PHR	43	85	40	8	9	6	3	7-8	9+	1600
15	Dalwhinnie	11·5	-2	NW	3	prs	36	85	32	7	5	1	-	9	10	1500
	Aberdeen	08·6	-6	NW'W	4	b	44	65	34	9	3	4	-	1	1	3000
	Wick	09·0	+2	NW	3	c-bc/pr	42	85	39	9	3	6	3	7-8	7-8	1800
16	Sumburgh	07·0	+6	N'W	3	c-bc	46	65	36	9	3	6	3	4-6	7-8	2000
17	Blacksod Point	24·6	+10	NNW	5	bc	51	55	36	8	3	-	3	2-3	4-6	1500
18	Malin Head	18·3	+6	NW'N	6	phr	49	75	42	8	2	-	-	4-6	4-6	2500
	Aldergrove	18·1	0	NW	4	c-bc/pr	45	85	40	8	3	-	-	4-6	7-8	2500
19	Birr Castle	22·2	+6	NNW	2	pr	48	75	41	8	8	2	-	4-6	7-8	1500
20	Valentia Obsy.	25·7	+10	N	5	bc	52	65	41	9	1	-	-	4-6	4-6	2700
	Roches Point	23·4	+6	N	5	bc	51	75	44	8	2	-	-	4-6	4-6	2500

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

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)	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)	12·8	-12	NW	4	z0	45	65	34	6	5	-	-	Tr	Tr	2500	1	*
Croydon	12·8	+14	NWN	4	z0	45	65	35	5	5	4	-	Tr	1	4000	1	*
S. Farnborough	13·6	+14	NW	4	b-bc	44	75	37	8	5	3	-	1	2-3	2500	1	*
Boscombe Down	15·3	+14	NWN	3	bc	44	75	37	7	4	-	-	4-6	4-6	3500	1	*
Thorney Island	14·4	+10	NW	4	b-bc	45	75	39	8	2	6	-	1	2-3	2500	1	*
Lympne	10·9	+6	NWN	4	z0	44	85	38	5	-	3	-	0	2-3	-	1	§ 3
Manston	04·3	+6	NWN	5	z0	47	75	40	6	5	-	-	7-8	7-8	2500	1	*
Shoeburyness	11·2	-6	NW	2	z0	46	75	39	5	-	3	-	0	4-6	-	1	*
Felixstowe	09·3	+6	NW	5	b	47	65	35	7	5	-	-	1	1	2500	0	5
Gorleston	07·6	0	N'W	6	tlr0	44	85	39	7	8	-	-	9	9	800	1	4
Mildenhall	10·3	+6	WNW	6	bc	43	85	38	8	4	-	-	2-3	4-6	2500	1	*
Cranwell	10·9	+6	NW'W	4	b	42	75	34	7	-	-	-	0	0	-	0	*
Birmingham	13·8	0	NW	4	z0	42	85	38	6	8	-	-	2-3	2-3	1500	1	*
Upper Heyford	13·4	+6	NW	4	b	41	85	36	8	4	-	-	1	1	4000	1	*
Ross-on-Wye	16·0	+12	NW	4	c	44	65	33	8	8	-	-	1	10	3000	1	*
Hartland Point	19·0	+8	NNW	5	bc	49	65	39	8	2	-	-	4-6	4-6	2500	1	5
Bristol	16·5	+14	NW'W	3	b	45	65	35	8	4	-	-	1	1	4000	1	*
Portland Bill	15·8	+10	NW	5	bc	50	92	48	8	5	-	-	4-6	4-6	4000	1	4
Plymouth	19·4	+14	NNW	5	b-bc	48	55	35	8	5	-	-	2-3	2-3	2500	1	3
The Lizard	20·9	+14	NW	4	bc	46	75	39	8	2	-	-	4-6	4-6	1500	1	3
Scilly (St. Mary's)	22·2	+6	N	6	c-bc	49	65	38	8	8	-	-	7-8	7-8	1800	1	5
Guernsey																	
Pembroke	19·4	+2	N'W	6	bcq	48	65	35	8	2	-	-	4-6	4-6	2000	1	4
Holyhead (Valley)	17·8	+10	NNW	7	c-bc	48	55	31	8	2	-	-	7-8	7-8	1500	1	4
Chester (Sealand)	14·4	-2	NNW	6	c-bc	47	65	37	8	2	-	-	7-8	7-8	2000	1	*
Manchester	13·6	+6	NW	4	z0	42	75	35	6	2	6	-	1	1	2000	1	*
Spurn Head	09·6	+4	NW	6	b-bc	45	65	34	7	7	-	-	2-3	2-3	2500	0	4
Catterick (Sc)	11·9	+14	WNW	4	bc	40	85	35	8	2	-	-	2-3	2-3	3500	0	*
Tynemouth	11·4	+4	WNW	3	b-bc	42	75	34	7	2	4	-	2-3	2-3	2500	1	2
St. Abbs Head	10·4	+6	N	5	c-bc/pr	45	65	33	8	3	6	-	4-6	7-8	1500	0	5
Leuchars	12·8	+26	W	3	bc	41	85	37	9	5	-	-	4-6	4-6	3000	1	*
Renfrew (Abbots I.)	15·1	+22	NW'W	4	b-bc	42	85	37	8	5	-	-	2-3	2-3	2000	1	*
Eskdalemuir	13·0	+10	NW'W	4	b	41	65	29	8	7	-	-	·	1	2500	1	*
Point of Ayre	15·4	+6	N	8	b	48	75	39	8	3	-	-	1	1	2000	1	5
Tiree	19·3	+16	NNW	5	bc	45	65	35	8	3	-	3	4-6	4-6	1800	1	
Stornoway	18·1	+24	NNW	4	bc	40	65	31	8	8	6	-	2-3	4-6	2000	2	3
Dalwhinnie	15·0	+16	NNE	3	pr	36	92	33	6	5	-	-	10	10	1500	1	*
Aberdeen	11·1	+22	NNW	4	bc/pr	41	92	40	8	9	6	3	7-8	9+	2500	1	3
Wick	13·6	+20	NNW	5	bc/phr	40	92	36	8	9	-	3	4-6	4-6	2300	1	*
Sumburgh	10·9	+30	N'W	6	cbc/pr	40	65	29	8	3	6	3	4-6	7-8	2000	1	3
Blacksod Point	24·8	+6	NNW	4	bc	47	75	40	8	8	-	-	4-6	4-6	1500	1	3
Malin Head	20·2	+10	N	6	pr	47	75	40	8	8	-	-	9+	9+	2500	2	5
Aldergrove	19·6	+14	NNW	5	bcjp	44	75	36	8	3	6	-	4-6	4-6	2500	1	*
Birr Castle	22·6	-6	N	2	b-bc	45	75	38	8	-	4	-	0	2-3	-	1	*
Valentia Obsy.	26·0	+4	N	4	c-bc	48	65	37	8	5	-	1	7-8	7-8	2500	1	3
Roches Point	24·4	+12	N'W	4	b	49	75	42	8	5	-	-	1	1	2500	1	*

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)	ir0bccz0	cbcbz0	bz0w	bz0bw
Croydon	cr0r0f,id0z	cz0bcb	bcz0bm0	bm0
S. Farnborough	crdd0drm0z0pr0	cpr0z0cpr	bcb	bw
Boscombe Down	cd0m0bcpr0	bcc pr0bc	bcb	b
Thorney Island	cm0d0df	bc	b	bbm0b
Lympne	corr Fr0f0	cm0blm0	bm	cm0bcm0bm0
Manston	cm0r0r0pr	cir0v	cz0bc	bcbcc
Shoeburyness	cr0r0cm0	cbcm0	bcm0b	bm0bbc
Felixstowe	r0f0m0c	cbcb	bm0	cm0c
Gorleston	orccir0	cprtlr	cpr-tq	cprq
Mildenhall	cir0m0c	bcb	bbc	cprbcm0b
Cranwell	cm0c	bcb	bbc	
Birmingham	cpr0	cprb	b	bz
Upper Heyford	cm0bcm0	ccpr0bc	b	bm0
Ross-on-Wye	cvcbc	cp bcy	bbcb	b
Hartland Point	cprbc	bc	bc	bc
Bristol	bcpr0bc	bccbcb	bbw	bw
Portland Bill	c	cbc	bc	bcc
Plymouth	cbcpr0	pr0bc	bcybc	bc
The Lizard	cbc	bc	bc	bcc
Scilly (St. Mary's)	c	c	cbcc	cbcc
Guernsey				
Pembroke	cbcq	bcb	bcq	bcpr0cq
Holyhead (Valley)	pr0cbc	pr0bvpr0	cbc	cpr0pr0bc
Chester (Sealand)	cbc phr	cPHRc	pr0hbc	cpr0hb
Manchester	cpr0bc	bcpr z0	bz0bm0	bm0oz0x
Spurn Head	bc	bc	cq,ir	ophr
Catterick (Sc)	bc	bc	bc	bcb
Tynemouth	bc	bc	cbcp0q	bcq
St. Abbs Head	bc	bccpro	cprcqcbc	bcc
Leuchars	bvbc	bc	bcb	b
Renfrew (Abbots I.)	bcpr0qbc	bc	b	bbxbcx
Eskdalemuir	bc	bcb	b	bbx
Point of Ayre	cohrb	bpmr	b	bv
Tiree	bcphbc	bc	cbcpr0	cbccpr0v
Stornoway	cprh	cpRHbc	bcprhbcpr	bcpr0cw
Dalwhinnie	cprso	oprspr	*	opr0c
Aberdeen	b	bbcq pr	bcprq	bcx
Wick	cbccpr	bcpr,cph	cphbcpr0	cpr0sbcpr0c
Sumburgh	bbc	cbcc pr0	cpr0	bcpr0ps0
Blacksod Point	bc	pr	bc	c
Malin Head	pr	pr	pr	pr
Aldergrove	bbcpr0	bcpr0bc	bcpr0cpr	cprbcpr0c
Birr Castle	pr	pr	*	c
Valentia Obsy.	pr	bc	bc	c
Roches Point	bc		b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 7th November, 1943.

Districts	Forecast
1 S.E. England; 2 E. England	Moderate or fresh north or northwest winds, strong locally on coasts at first, backing and decreasing; mainly fine inland but local rain or hail showers on East coast; cold or very cold with slight frost at night.
3 E. Midlands; 4 W. Midlands	Moderate north or northwest winds, falling light and backing; fine; cold with frost at night.
5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England; 9 N. Midlands	Light or moderate north winds backing southwest and freshening later; fine at first apart from a few scattered coastal showers; rain spreading from west later, but slight in south; cold becoming milder.
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	As 5-9.
14 Mid Scotland; 15 N.E. Scotland	Moderate north-northwest winds backing southwest later, occasional wintry showers at first, rain spreading from west later;
16 Orkneys and Shetlands	very cold becoming milder.
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	As 5-9.

GENERAL INFERENCE

A ridge of high pressure is moving eastwards across the British Isles. Weather will be fine at first except for some scattered showers, mainly in coastal districts. A trough of low pressure will follow the ridge and cause rain to spread to Scotland, Ireland Wales and western districts of England, but rainfall amounts will be small in the South. It will be cold or very cold at first but will become milder in the west.

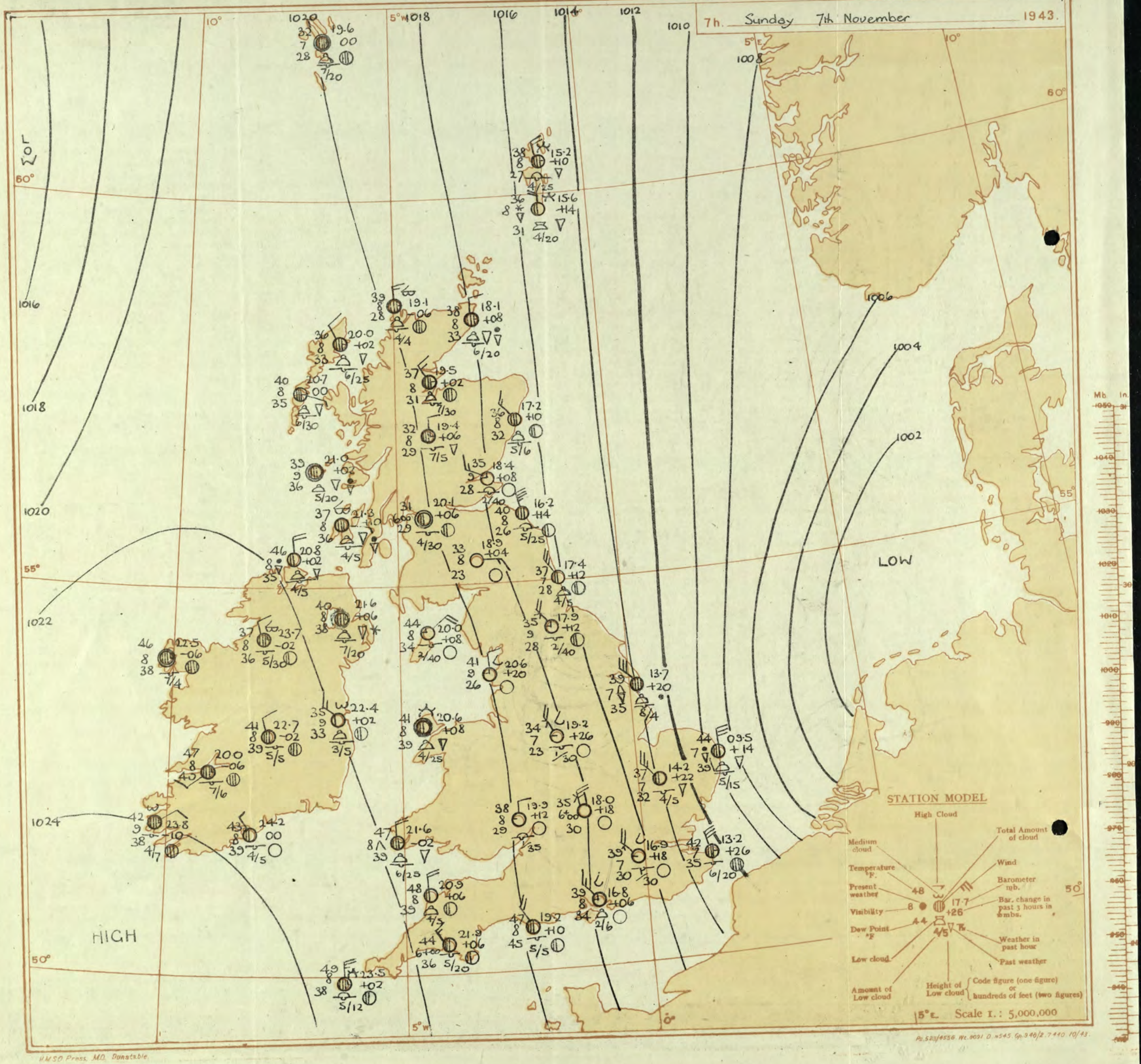
FURTHER OUTLOOK

Rain spreading eastwards across England but amounts small in Southeast. Becoming showery in Northwest.

Forecasts issued at 10.30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Sunday 7th November 1943.



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

Pc.523/4556. Wt.8091. D.N545. Gp.946/2. 7440. 10/43.

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).

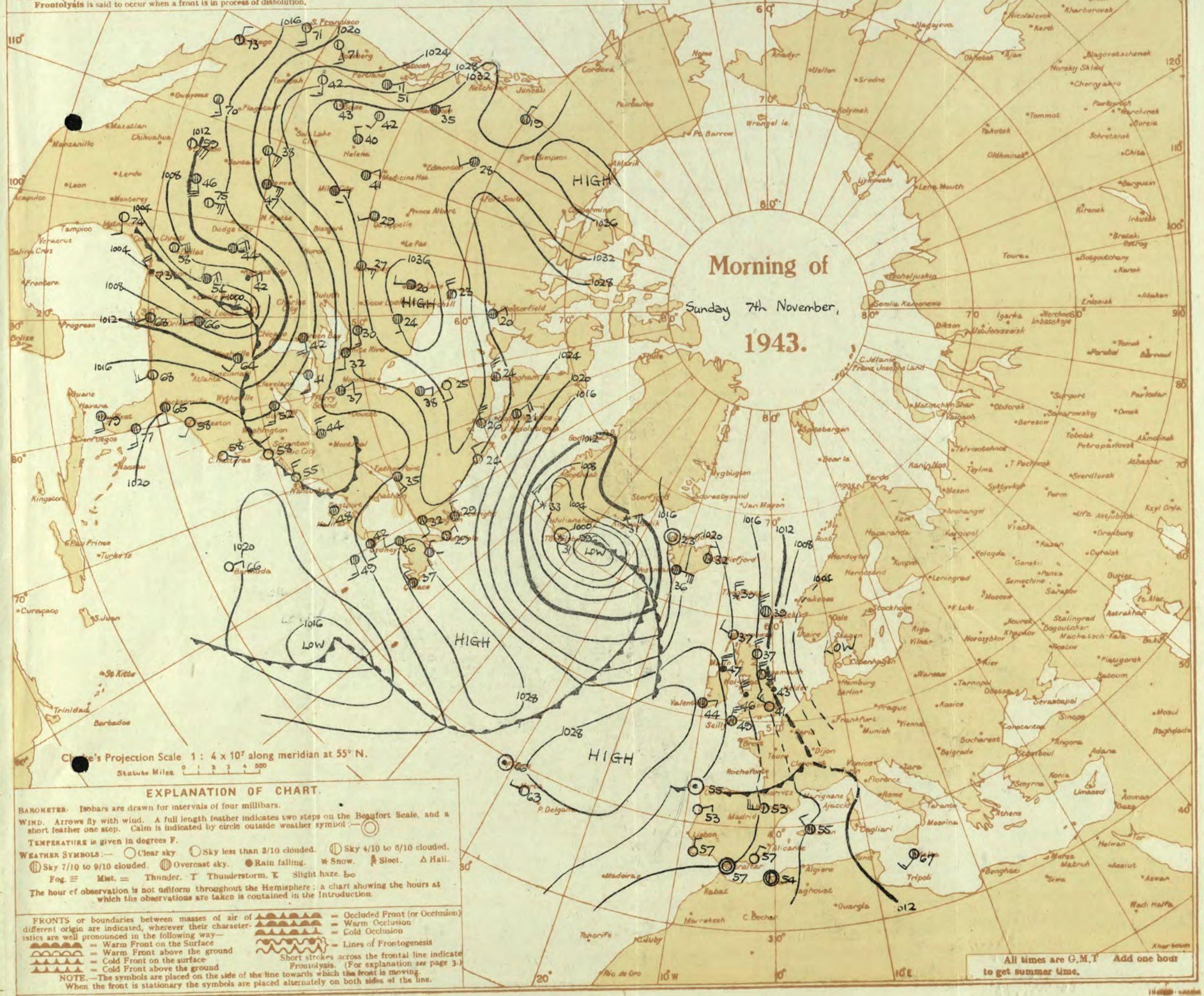
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.

Sunday 7th November, 1943

No. 29935

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

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	14.3	+2	NW	3	z₀	41	85	35	6	–	–	–	0	0	–
	S. Farnborough	226	15.2	+6	NW	3	b	41	85	36	8	–	–	–	0	0	–
	Boscombe Down	417	17.0	+6	NW'N	4	b	40	75	34	8	–	–	–	0	0	–
	Thorney Island	10	15.3	0	WNW	4	b	42	85	36	8	–	–	–	0	0	–
	Lympne ..	283	12.1	+6	NNW	5	z₀	39	85	34	6	–	–	–	0	0	–
	Manston ...	154	10.6	+4	NNW	5	bc	42	75	34	7	4	–	–	4-6	4-6	2000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	02.7	+2	NW	5	z₀	41	75	35	6	–	–	–	0	0	–
	Gorleston ...	5	08.1	+6	NW'N	5	l	43	92	40	7	8	–	–	4-6	4-6	1500
	Mildenhall ...	15	11.2	+2	NW	5	c-bc	40	85	35	7	5	6	–	7-8	7-8	3000
	Cranwell ...	203	13.0	+6	NW'W	5	bc	41	75	33	7	–	4	–	0	4-6	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	15.3	+12	NNW	4	b	39	85	34	7	–	6	–	0	Tr	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	20.3	+2	NNW	5	bc	48	65	38	8	2	–	–	4-6	4-6	2500
	Bristol ...	209	17.8	+2	NW	4	b	42	75	36	7	5	–	–	Tr	Tr	2500
	Portland Bill ...	32	18.2	+12	NW	4	b-bc	47	92	45	8	1	–	–	2-3	2-3	4000
	Plymouth ...	86	21.1	+2	NW'N	5	b-bc	47	65	36	8	5	–	–	2-3	2-3	2500
	The Lizard ...	240	21.3	+6	N	4	bc	46	75	35	8	2	–	–	4-6	4-6	2000
	Scilly (St. Mary's)	163	23.8	-2	N	5	c-bc	49	65	39	8	8	–	–	7-8	7-8	1500
	Guernsey ...	175															
6	Pembroke ...	142	21.8	+10	N'W	4	bcq	47	75	39	8	2	–	–	4-6	4-6	2500
7	Holyhead (Valley)	32	19.6	+6	NNW	6	pr	46	65	37	7	2	–	–	9	9	3100
	Chester (Sealand)	16	17.1	+6	N'W	4	pr	45	65	36	8	9	–	–	9+	9+	2000
8	Manchester ...	230	16.5	+14	NW	4	z₀	38	85	34	6	5	–	–	Tr	Tr	4000
10	Spurn Head ...	29	10.3	-4	NW'N	6	iR	43	92	41	7	8	–	–	9+	9+	1500
	Catterick (Sc) ...	192	14.9	+18	NW	5	b-bc	39	85	33	8	–	3	–	0	2-3	–
	Tynemouth ...	108	14.8	+14	NNW	6	bcq	41	75	33	7	2	–	–	4-6	4-6	2500
11	St. Abbs Head	280	14.3	+26	NNW	7	bc	42	75	28	8	5	–	–	4-6	4-6	2500
	Leuchars ...	36	17.2	+16	–	0	b	37	75	29	9	4	4	–	Tr	Tr	4000
12	Renfrew (Abbots I.)	19	18.6	+8	–	0	b	34	85	31	8	–	4	–	0	Tr	–
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	18.7	+12	N'E	4	b	45	65	34	8	–	4	–	0	1	–
13A	Tiree ...	44	20.4	+2	N'W	3	bc/pr	47	85	37	8	2	–	–	4-6	4-6	2000
13B	Stornoway ...	12	20.0	+6	NW	2	b-bc/pr	37	85	32	8	3	–	–	2-3	2-3	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	15.9	+10	NNW	4	pr	37	65	27	8	3	4	3	2-3	4-6	1500
	Wick ...	114	17.2	+14	NNW	5	pr	35	85	32	7	3	–	3	9	9	2000
16	Sumburgh ..	19	13.6	+8	NW'N	5	c-bc/pr	39	65	38	8	3	6	3	4-6	7-8	2000
17	Blacksod Point	18	24.8	-2	NW'W	3	bc	46	75	39	8	5	–	–	4-6	4-6	2500
18	Malin Head ...	84	20.7	-2	N'W	5	pr	47	65	36	8	8	–	–	4-6	4-6	2500
	Aldergrove ...	268	21.2	0	NW'N	1	pr	41	92	39	8	8	–	–	7-8	7-8	1500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	25.9	-6	ENE	1	c	44	75	37	9	5	–	1	7-8	9	5000
	Roches Point	22	25.4	-2	N'W	3	b	44	97	43	8	5	–	–	1	1	2500

OBSERVATIONS at 7 hr. G.M.T. 7th November — 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 6th Hrs. (38)
London (Kew)	16.9	+18	NW'N	4	b	39	65	30	7	5	–	–	1	1	2500	1	*	51	39	30	1	–	0.4
Croydon	16.9	+18	NW	4	b	39	65	30	7	5	4	–	Tr	Tr	3000	1	*	51	39	36	3	–	0.8
S. Farnborough	17.6	+22	NW	3	b	38	75	33	8	–	4	–	0	Tr	–	1	*	51	37	31	1	Tr	1.5
Boscombe Down	18.8	+16	NW'N	3	b	37	85	33	8	–	3	–	0	Tr	–	0	*	52	35	32	0.3	Tr	2.9
Thorney Island	16.8	+6	NW'W	3	b	39	85	34	8	2	4	–	Tr	1	4000	0	*	55	37	31	1	–	*
Lympne	14.1	+16	NNW	5	b-bc	38	75	31	7	5	–	–	2-3	2-3	2000	0	§ 4	52	37	32	11	–	1.3
Manston	13.2	+26	NNW	6	c	42	75	35	7	5	–	–	9	9	2000	1	*	50	41	39	10	–	0.6
Shoeburyness	14.6	+12	NW	3	b-bc	38	85	34	7	5	–	–	2-3	2-3	1500	0	*	51	38	35	7	–	1.8
Felixstowe	11.4	+14	NNW	5	c	39	85	35	7	5	1	–	4-6	10	2500	1	5	50	39	37	7	0.[illegible]	0.9
Gorleston	09.5	+14	N'W	6	pr	44	85	39	7	8	–	–	7-8	7-8	1500	1	5	49	40	35	13	12	0.1
Mildenhall	14.2	+22	NW	5	bc	37	85	32	7	5	–	–	4-6	4-6	2500	0	*	51	36	33	3	Tr	2.9
Cranwell	16.4	+24	NNW	5	b-bc	37	65	25	7	2	6	–	1	2-3	2500	0	*	51	36	31	*	–	5.2
Birmingham	20.0	+20	NNW	3	z₀	33	75	27	6	–	–	–	0	0	–	1	*	48	35	30	1	–	2.0
Upper Heyford	18.0	+18	NNW	5	z₀	35	85	30	6	–	–	–	0	0	–	0	*	50	35	30	0.4	–	*
Ross-on-Wye	19.9	+12	N	2	b	38	75	29	8	4	–	–	Tr	Tr	3500	1	*	51	38	28	0.6	–	4.2
Hartland Point	20.9	+6	NNW	4	bc	48	75	39	8	2	–	–	4-6	4-6	2500	1	5	52	47	45	0.4	–	3.3
Bristol	20.5	+22	SW	3	b	40	65	30	7	5	–	–	Tr	Tr	5700	1	*	53	39	28	Tr	–	4.3
Portland Bill	8.2	+10	NW	4	c-bc	47	92	45	8	5	–	–	7-8	7-8	2500	1	4	56	46	*	0.3	–	*
Plymouth	21.9	+6	NW	3	z₀	44	75	36	6	5	–	–	7-8	7-8	2000	0	2	55	43	32	Tr	–	3.9
The Lizard	22.4	+2	NW	4	c-bc	46	65	36	8	8	–	–	7-8	7-8	2000	0		53	42	*	–	–	4.2
Scilly (St. Mary's)	23.5	+2	N	5	c	48	65	38	8	4	6	–	7-8	9+	1200	1	4	53	48	*	–	–	6.1
Guernsey																							
Pembroke	21.6	-2	N'W	4	cq	47	75	39	8	8	–	–	9	9	2500	1	3	51	49	*	Tr	Tr	6.0
Holyhead (Valley)	20.6	+8	–	0	bc	41	92	39	8	2	6	–	4-6	4-6	2500	1	1	50	40	33	1	1	*
Chester (Sealand)	19.8	+18	N	2	b	38	65	27	7	–	–	–	0	0	–	1	*	50	37	30	2	1	2.9
Manchester	19.6	+20	NNW	3	b	34	75	26	8	–	–	–	0	0	–	1	*	49	43	31	2	–	*
Spurn Head	13.7	+20	NW	6	phr	39	85	35	7	8	–	–	10	10	1500	1	5	50	37	*	–	4	4.5
Catterick (Sc)	17.9	+12	NW	4	b	35	75	28	9	5	–	–	1	1	4000	0	*	49	34	29	–	–	6.6
Tynemouth	17.4	+12	NW	5	bc	37	75	28	7	2	–	–	4-6	4-6	2500	1	4	48	36	33	–	Tr	*
St. Abbs Head	16.2	+14	NNW	7	c-bc	40	55	26	8	4	–	–	7-8	7-8	2500	0	5	46	39	*	Tr	–	*
Leuchars	18.4	+8	WNW	3	b	35	75	28	9	4	–	–	1	1	4000	0	*	47	35	26	–	–	8.0
Renfrew (Abbots I.)	20.1	+6	–	0	z₀	31	92	29	6	5	–	–	4-6	4-6	3000	1	*	45	27	20	0.4	–	6.6
Eskdalemuir	18.9	+4	ESE	3	b	33	65	23	8	–	–	–	0	0	–	3		45	28	19	–	–	7.0
Point of Ayre	20.0	+8	NE'N	4	b	44	65	34	8	5	–	–	1	1	4000	0	3	50	43	*	3	–	3.6
Tiree	21.0	+2	–	0	c-bc/pr	39	85	36	9	2	–	–	7-8	7-8	2000	1	1	49	38	28	0.6	1	3.5
Stornoway	20.0	+2	NW	1	c	36	85	33	8	8	–	–	9	9	2500	1	1	46	33	29	3	0.2	2.8
Dalwhinnie	19.4	+6	N	2	c	32	85	29	8	5	–	–	9+	9+	2500	0	*	40	30	26	3	1	1.3
Aberdeen †	17.2	+10	NW	3	c-bc	36	85	32	8	8	–	–	7-8	7-8	4000	1	3	45	35	29	0.3	2	7.5
Wick	18.1	+8	N	2	c/pr	38	85	33	8	8	–	–	9	9	2500	1	*	44	33	30	4	3	*
Sumburgh	15.6	+14	N'W	4	prs	36	75	31	8	3	6	–	4-6	4-6	2000	1	3	47	35	32	Tr	0.2	6.0
Blacksod Point	22.5	-6	–	0	c	46	75	38	8	5	–	–	9+	9+	1500	1	2	53	46	*	0.4	Tr	*
Malin Head	20.8	+2	N'E	4	pr	46	65	35	8	8	–	–	4-6	4-6	2500	2	4	57	48	44	0.3	1	5.1
Aldergrove	21.6	+6	–	0	c/pr	40	97	38	8	8	–	–	9+	9+	2000	1	*	48	39	32	1	1	6.2
Birr Castle	22.7	-2	NNW	2	c-bc	41	92	39	8	5	–	–	7-8	7-8	2500	1	*	51	39	33	0.1	–	5.0
Valentia Obsy.	23.8	-10	NE'E	2	c	42	85	38	9	5	3	–	4-6	9+	5500	1	1	52	41	34	0.1	Tr	5.5
Roches Point	24.2	0	NW	1	bc	43	85	39	8	5	–	–	4-6	4-6	2500	1	3	43	41	*	3	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 6th November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 7th November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	34	25855	30586	87	25754	64784	87	85655	60685	8-	01744	28414
115	86	88844	65586	34	88844	65586	37	02844	32527	87	02844	32326
203	8-	88846	32586									
206	36	25854	26584	3-	81855	28585	50	01964	28314	8-	02867	28327
210	3-	81856	26386	3-	81845	63587	2-	01954	63414			
219	3-	25845	64685	86	02854	64525	30	01853	30383	8-	02866	10186
230	9-	81757	26387	3-	01853	61513	54	01961	61411	54	02961	12101
245	8-	01954	27314	80	01952	28312	40	01951	61581	84	01963	28303
260	50	01863	25413	20	01762	25212	4-	01773	28213			
276	·											
279	83	01854	30584	40	01851	61611	04	01730	63401	50	01951	30101
285	23	41854	28614							13	00861	30502
288	26	01853	26513	26	05651	26412	54	01761	28512	46	01862	61513
575	93	01854	61414	96	81744	64413	33	02865	27285	57	02865	30117
301	36	10854	61485	3-	01754	30514	20	01753	30503	04	00990	31202
321	20	01764	61514	00	00790	28410	50	01762	61412	30	01762	26402
290	80	01744	28464	8-	81745	30585	8-	22746	28766	80	14745	30715
292				40	01862	28412	50	01761	28501	50	01763	28403
310	26	01625	26416									
614	26	05664	28224	00	05690	30310	00	05690	28300	04	01790	80302

III	13h. G.M.T. 6th November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 7th November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	30	01854	63514	30	20755	65625	2-	02755	35525	3-	81867	28187
334	--	02743	02315	--	27645	24865						
340	8-	25755	30485	86	01854	30384	40	01852	32302	04	01890	01201
136	23	02845	28466	40	01861	26512	5-	25746	26586	5-	22746	28586
336	20	01854	29424	20	01752	28412						
350	23	02764	59465	00	00890	59410	00	00890	57400	54	01771	26502
368	86	25844	65585	53	01844	63414	50	01752	30382	50	01754	30184
379	83	01743	28524	50	25884	66594	40	01753	30483	50	01861	28501
390	07	05690	28564	46	05552	61512	00	05590	61500	57	05653	61514
382				46	01861	63482	04	01890	28301	00	00890	29300
438	5-	03648	30528				50	01762	30502	04	01790	30512
430	23	02754	61426	03	01890	32513	00	00890	61400	52	01851	28301
409	80	25955	31585	20	01954	63614	20	01954	53514	84	25855	28585

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 7th November, 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 ...	ir₀bcz₀	dbcbz₀	bz₀wbw	Kew 24 hours ended 7h. Time 0.3 10h
Croydon ...	cr₀r₀fidz	cz₀bcb	bcr₀ br₀	Min Time <0.1 6h 7th
Greenwich ...	cr₀c	cbcb	b	
Camden Square	c	b	*	
Kensington ...	odbc	bcb	*	
Hampstead ...	orbc	b	b	

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 ...	51	39	30	1	–	0.4	*	*
Croydon ...	51	39	36	3	–	0.8	*	*
Greenwich ...	51	38	32	0.3	–	1.3	65	63
Westminster ...	52	37	34		0.1		73	73
Regents Park ...								
Camden Square	51	38	34	–	–	*	*	61
Kensington ...	52	38	32	0.1	–			62
Hampstead ...	51	34	29	0.1	–		*	67

SECRET

Page 1 BRITISH SECTION

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

Monday 8th November 1943

No. 29936

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

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)	19.8	+8	NW	4	z₀	44	55	29	6	7	3	9	1	2-3	4000
	Croydon	19.8	+6	NW	4	z₀	43	55	29	5	5	7	-	4-6	9	4000
	S. Farnborough	20.3	+10	NW'N	3	b-bc	45	55	30	6	1	4	5	Tr	2-3	2500
	Boscombe Down	21.1	0	NNW	4	c	44	45	27	8	-	-	6	0	9	-
	Thorney Island	20.5	+6	NW'N	4	b-bc	46	55	25	8	-	-	5	0	2-3	-
	Lympne	17.1	+14	NNW	5	b	45	65	34	8	-	-	-	0	0	-
	Manston	16.7	+10	NNW	5	bc	45	65	35	8	5	-	-	4-6	4-6	2500
2	Shoeburyness	18.4	+12	NNW	4	z₀	45	65	35	6	-	-	-	0	0	-
	Felixstowe	16.7	+16	NW'N	4	b-bc	45	65	35	7	1	-	-	2-3	2-3	4000
	Gorleston	13.3	+4	N'W	5	bc	48	65	36	7	8	-	-	4-6	4-6	1800
	Mildenhall	17.8	+18	NW'N	5	bc	44	75	35	8	1	3	1	2-3	4-6	2500
	Cranwell	18.8	+6	NW	3	bc	45	65	32	7	5	-	5	Tr	4-6	3000
3	Birmingham	20.6	+2	NW	3	z₀	42	55	28	6	-	-	6	0	7-8	-
	Upper Heyford	20.3	+6	NNW	4	c-bc	42	55	26	8	1	-	6	Tr	7-8	2500
4	Ross-on-Wye	21.0	+8	N'W	1	c-bc	44	65	30	8	5	5	2	1	7-8	3500
5	Hartland Point	21.5	-	NW	3	c	49	75	40	8	2	4	-	4-6	9	2300
	Bristol	21.8	+2	NW	2	c	45	55	31	7	5	7	2	7-8	9	5700
	Portland Bill	21.8	-4	N	3	c	47	85	43	8	2	4	-	4-6	10	4000
	Plymouth	22.3	-6	NW	1	c	49	75	43	7	5	5	-	4-6	9+	2500
	The Lizard	22.7	0	NNW	2	c-bc	54	65	38	8	5	3	-	7-8	7-8	2000
	Scilly (St. Mary's)	23.6	-6	WNW	2	c	51	65	38	8	5	3	-	9+	10	1500
	Guernsey															
6	Pembroke	22.5	-2	NW	3	cbcq	48	65	36	8	8	-	-	7-8	7-8	3000
7	Holyhead (Valley)	21.2	-6	N	2	c	48	55	33	8	8	6	-	7-8	9	3000
	Chester (Sealand)	21.0	-2	NW'N	1	c-bc	44	55	30	8	-	-	9	0	7-8	-
8	Manchester	20.9	+6	NW'N	2	z₀	42	65	30	6	-	4	6	0	4-6	-
10	Spurn Head	17.2	+8	NW	6	prs	43	75	36	6	8	3	-	7-8	9	1500
	Catterick (Sc)	19.1	+2	NW	4	c-bc	42	65	30	9	5	-	6	Tr	7-8	3000
	Tynemouth	19.1	0	NNW	4	bc	43	65	32	7	2	4	2	2-3	4-6	2200
11	St. Abbs Head	18.3	0	N	4	c-bc	41	55	27	8	2	4	6	4-6	7-8	2500
	Leuchars	18.0	-8	NW	2	c	42	65	32	9	5	7	9	4-6	9	3500
12	Renfrew (Abbots I.)	19.9	-8	WSW	1	c	45	55	29	8	7	7	8	4-6	9	2000
	Eskdalemuir	19.6	-4	N'W	2	c-bc	40	45	23	8	1	7	2	1	7-8	2800
	Point of Ayre	20.9	0	E	1	c-bc	46	55	31	8	-	4	9	0	7-8	-
13A	Tiree	19.5	-12	ESE	1	pr	44	85	39	9	8	3	-	7-8	9+	1800
13B	Stornoway	18.3	-14	-	0	c	43	55	30	9	5	3	-	7-8	9+	3200
15	Dalwhinnie	19.5	-4	NW	2	c	38	65	28	8	5	-	-	9+	9+	2500
	Aberdeen	18.2	-2	NW'W	3	c	40	65	31	8	7	7	6	7-8	9+	4000
	Wick	18.1	-6	NNW	1	c	40	85	34	8	9	6	-	7-8	9+	2000
16	Sumburgh	15.5	-4	NW	4	c	41	75	34	9	8	6	6	2-3	9	2500
17	Blacksod Point	19.2	-22	S	3	c	49	65	38	8	5	-	-	10	10	2500
18	Malin Head	19.6	-10	S	2	pr	46	65	35	8	8	-	-	9+	9+	2500
	Aldergrove	21.0	-10	W	2	ir₀	44	85	39	8	5	-	8	4-6	9+	2000
19	Birr Castle	21.5	-14	S	1	c	47	65	36	8	5	2	-	7-8	10	2500
20	Valentia Obsy.	20.2	-32	S	4	c	50	75	43	8	5	2	-	9+	10	3200
	Roches Point	22.6	-16	S	1	c	49	75	42	8	5	-	-	9	9	2500

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

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)	21.2	+12	WSW	2	m	41	75	33	4	5	-	-	7-8	7-8	2500	1	*
Croydon	21.5	+14	WNW	2	c-bcf+	38	75	31	3	-	7	6	0	7-8	-	1	*
S. Farnborough	21.7	+14	WNW	1	z₀	38	75	31	6	-	-	7	0	9+	-	0	*
Boscombe Down	21.7	+6	-	0	bc	37	75	31	7	-	7	6	0	4-6	-	0	*
Thorney Island	21.4	+6	NW	2	z₀	40	75	32	6	-	7	6	0	9	-	0	*
Lympne	20.4	+16	NW	3	z₀	39	85	33	6	-	-	1	0	2-3	-	0	3
Manston	19.0	+12	NNW	4	bc	43	75	35	8	5	-	4	2-3	4-6	2500	0	*
Shoeburyness	20.7	+14	-	0	z₀	39	85	34	6	-	-	1	0	4-6	-	0	*
Felixstowe	18.5	+14	WNW	3	z₀	42	75	34	6	-	7	8	0	4-6	-	0	5
Gorleston	17.8	+22	NW'N	4	bc	42	85	37	7	8	-	-	4-6	4-6	2500	1	4
Mildenhall	19.8	+10	NW W	3	z₀	38	85	33	6	5	6	-	Tr	1	4000	0	*
Cranwell	19.9	+2	NW	1	b	36	75	29	7	-	4	-	0	Tr	-	0	*
Birmingham	21.4	+4	WNW	2	m	37	75	30	4	-	-	2	0	4-6	-	1	*
Upper Heyford	21.2	+10	WNW	1	z₀	36	75	28	6	-	7	2	0	4-6	-	1	*
Ross-on-Wye	21.1	+4	NW	1	z₀	39	85	34	6	5	7	-	2-3	10	3000	1	*
Hartland Point	21.1	0	WNW	2	c	47	75	38	8	2	7	-	4-6	9+	2500	0	3
Bristol	21.4	0	-	0	z₀	43	65	33	6	-	7	-	0	9	-	0	*
Portland Bill	21.8	+4	N	4	c	45	85	40	8	5	-	-	10	10	4000	1	4
Plymouth	22.0	-2	NW'W	2	c	48	65	36	7	5	7	-	7-8	10	3000	1	1
The Lizard	21.7	-2	NW	2	c	47	75	40	8	8	2	-	7-8	9+	1500	0	3
Scilly (St. Mary's)	22.0	-10	W'N	2	c	49	75	40	8	5	-	-	10	10	1800	1	3
Guernsey																	
Pembroke	21.1	-4	N'W	1	c	48	75	39	8	8	6	-	7-8	9+	3000	1	2
Holyhead (Valley)	20.4	-2	ENE	1	c	44	85	39	8	5	7	-	7-8	9+	2600	1	1
Chester (Sealand)	20.6	+2	-	0	z₀	37	85	32	6	-	3	2	0	9	-	0	*
Manchester	20.3	-2	SSW	1	z₀	35	75	28	5	5	5	-	2-3	9	3000	0	*
Spurn Head	19.1	+12	NW'W	6	bc	42	65	32	7	7	3	-	2-3	4-6	2500	1	4
Catterick (Sc)	20.4	+10	WNW	2	bc	33	85	29	7	-	7	5	0	4-6	-	0	*
Tynemouth	20.3	+4	NNW	3	z₀	38	65	27	6	-	4	1	0	4-6	-	0	3
St. Abbs Head	18.7	+2	WNW	3	c	40	45	22	8	5	7	-	7-8	9+	2500	0	3
Leuchars	18.5	-6	W	1	c	38	85	35	7	5	7	-	9+	10	3800	0	*
Renfrew (Abbots I.)	18.5	-10	-	0	f+	36	85	32	3	-	-	-	10	10	<150	1	*
Eskdalemuir	19.8	-2	-	0	bc	29	85	24	8	-	7	2	0	4-6	-	1	*
Point of Ayre	19.7	-6	SW'S	1	c	42	75	34	8	5	-	7	2-3	10	5000	0	1
Tiree	15.9	-22	S	3	c	46	85	42	9	4	7	-	4-6	10	2000	1	3
Stornoway	15.5	-14	S	4	c	43	65	31	9	5	7	-	4-6	9+	2200	1	3
Dalwhinnie	18.2	-6	S	1	c-bc	33	85	29	8	5	3	1	2-3	7-8	2500	0	*
Aberdeen	18.0	-2	WNW	2	z₀	37	75	29	5	5	4	5	1	2-3	4000	1	2
Wick	17.5	-4	W	1	c	36	92	34	8	5	3	-	2-3	9+	3000	1	*
Sumburgh	15.4	+2	NW	3	bc	40	75	34	8	2	6	-	2-3	4-6	2500	0	2
Blacksod Point	13.8	-26	S	5	c/r	49	75	42	7	6	-	-	10	10	1500	1	4
Malin Head	16.2	-18	S'W	4	c	43	75	36	8	5	2	-	2-3	10	2500	2	3
Aldergrove	18.7	-14	S'W	2	c	42	85	37	8	5	7	-	4-6	10	3700	1	*
Birr Castle	17.7	-18	SSW	1	c	45	75	38	8	5	2	-	7-8	10	2500	1	*
Valentia Obsy.	16.5	-22	S	4	r₀r₀	49	92	47	7	5	2	-	9	10	900	1	3
Roches Point	18.8	-18	SW	3	ir₀	51	85	47	8	6	2	-	4-6	10	4000	1	3

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 7th (39)	13h.—18h. 7th (40)	18h. 7th to 1h. 8th (41)	1h.—7h. 8th (42)
London (Kew)	bwbcz₀y	bcycm	cmbcfw	bcfcm₀x
Croydon	bbz₀cz₀y	cz₀ycf	bczxcmx	bcfxczx
S. Farnborough	byz₀	byz₀bcyacm	cm₀bm₀x	bm₀xcbcm₀
Boscombe Down	bbccy	cycbc	⊕cmfgcm₀	cm₀
Thorney Island	bbc	bbccm₀	cm	cm
Lympne	b	bbcm₀	bmcm	cmx
Manston	cbc	bcbbc	bcbbcz₀cm₀	cm
Shoeburyness	bcz₀	bz₀cm₀	cmx	bcm₀cm₀x
Felixstowe	cprob	cbc	bcm₀	cm
Gorleston	cpr₀	cpr₀bc	bcprbc	bccz₀
Mildenhall	bcb	bcccm₀	bm₀bcm₀x	bcm₀cm
Cranwell	bbc	bcb	bcm₀cm₀	bcm₀cm₀
Birmingham	bbcz	bcz	bccm	cz
Upper Heyford	bzdoby	cycz₀	bcz₀x	cm₀z
Ross-on-Wye	bycy	bcc	cm₀	cr₀c
Hartland Point	bcc	c	circ	circ
Bristol	bwcz₀yc	cycz₀ycz₀	cz₀m₀w	cm₀w m₀r₀c
Portland Bill	c	c	c	cpr
Plymouth	cpr₀	qc	cz₀cm₀	cr₀r₀m₀
The Lizard	c	c	c	rrpro
Scilly (St. Mary's)	c	c	crr	cr
Guernsey				
Pembroke	cq	c	cr₀r₀q	cddq
Holyhead (Valley)	bcpr₀c	cyc	c	pr₀r₀m₀
Chester (Sealand)	bbcm₀y	bcyc	m₀m₀	cm₀r₀r₀c
Manchester	bmxz₀	bcz₀yz	czz₀	cz₀id₀
Spurn Head	cqpr	pr₀bc	c	cm₀
Catterick (Sc)	bbc	bc	bcm₀cm₀	cm₀cf
Tynemouth	bc	bcm₀	bcmcm₀	cm₀
St. Abbs Head	cbcc	cbcc	bccm₀	cm₀cR
Leuchars	bvxbc	r₀	ccm₀	cm₀ir₀cm₀
Renfrew (Abbots I.)	bcxm₀y	z₀cycfof	cfm₀m₀	cid₀d₀f
Eskdalemuir	bxbcy	bcybc	bccx	or₀r₀f
Point of Ayre	bccV	c	c	cprd₀d₀
Tiree	bcrcvc	vpr₀ir₀cr	cir₀	cr₀
Stornoway	cwc	c	ccrrc	cir₀rrc
Dalwhinnie	c	c		cir₀o
Aberdeen	bcjpc	cbcz	bccz ⊕	cz₀
Wick	pr₀phrpr₀c	c	c	bcc
Sumburgh	phjpc	cpr₀bcc	bccpr₀	cir₀c
Blacksod Point	c	↑	r	bc
Malin Head	pr	pr	r	r
Aldergrove	ccir₀	c	ccir₀	cid₀c
Birr Castle	c	c		r
Valentia Obsy.	c	↑	r	pr
Roches Point	c	↑	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 8th November, 1943.

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands	Moderate south wind veering west; cloudy with occasional slight rain at first; fair later; mild.
5 S.W. England, 6 South Wales, 7 North Wales, 8 N.W. England, 9 N. Midlands, 10 N.E. England, 11 S.E. Scotland	Moderate south wind veering west, backing later; slight rain at first; fair later; mild.
12 S.W. Scotland & Isle of Man, 13A W. Scotland, 13B N.W. Scotland	Moderate west wind backing south and freshening; bright intervals; local showers; mild.
14 Mid Scotland, 15 N.E. Scotland	As 5-11
16 Orkneys and Shetlands	As 5-11
17 N.W. Ireland, 18 N.E. Ireland, 19 S.E. Ireland, 20 S.W. Ireland	Moderate west wind backing south and freshening strong locally later; bright periods and local showers at first; rain tomorrow morning; mild.

GENERAL INFERENCE

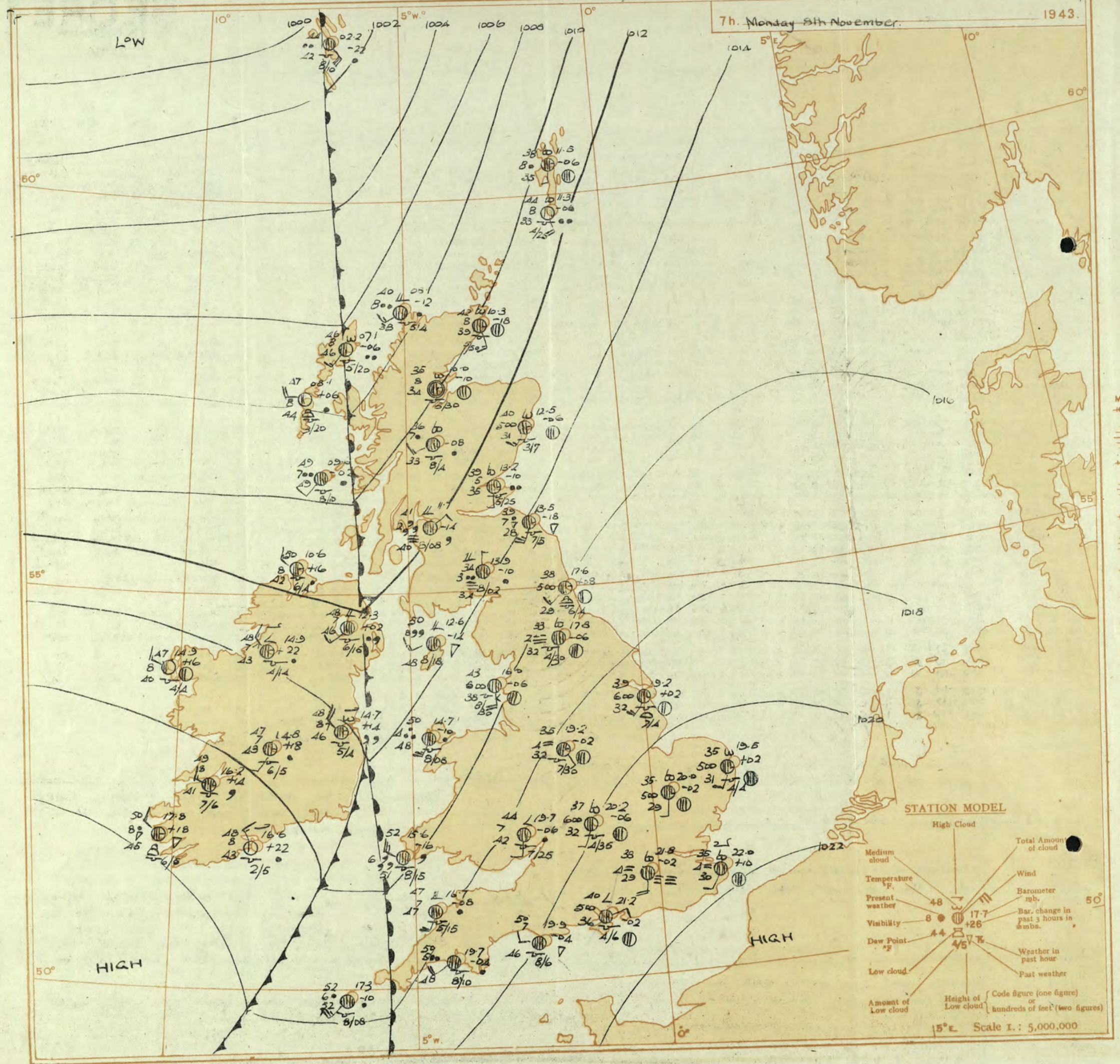
A trough of low pressure is crossing Great Britain followed by a ridge of high pressure. A deepening depression northwest of the Azores is moving northeast. Occasional light rain will spread east across Great Britain followed by mainly fair weather. Rain from the new Atlantic depression will probably reach Ireland tomorrow morning.

FURTHER OUTLOOK

Rain in Ireland spreading East and Northeast with strong south winds or gales in the Northwest and North.

Forecasts issued at 10.30

NELSON K. JOHNSON, K.C.B., D.Sc., 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).

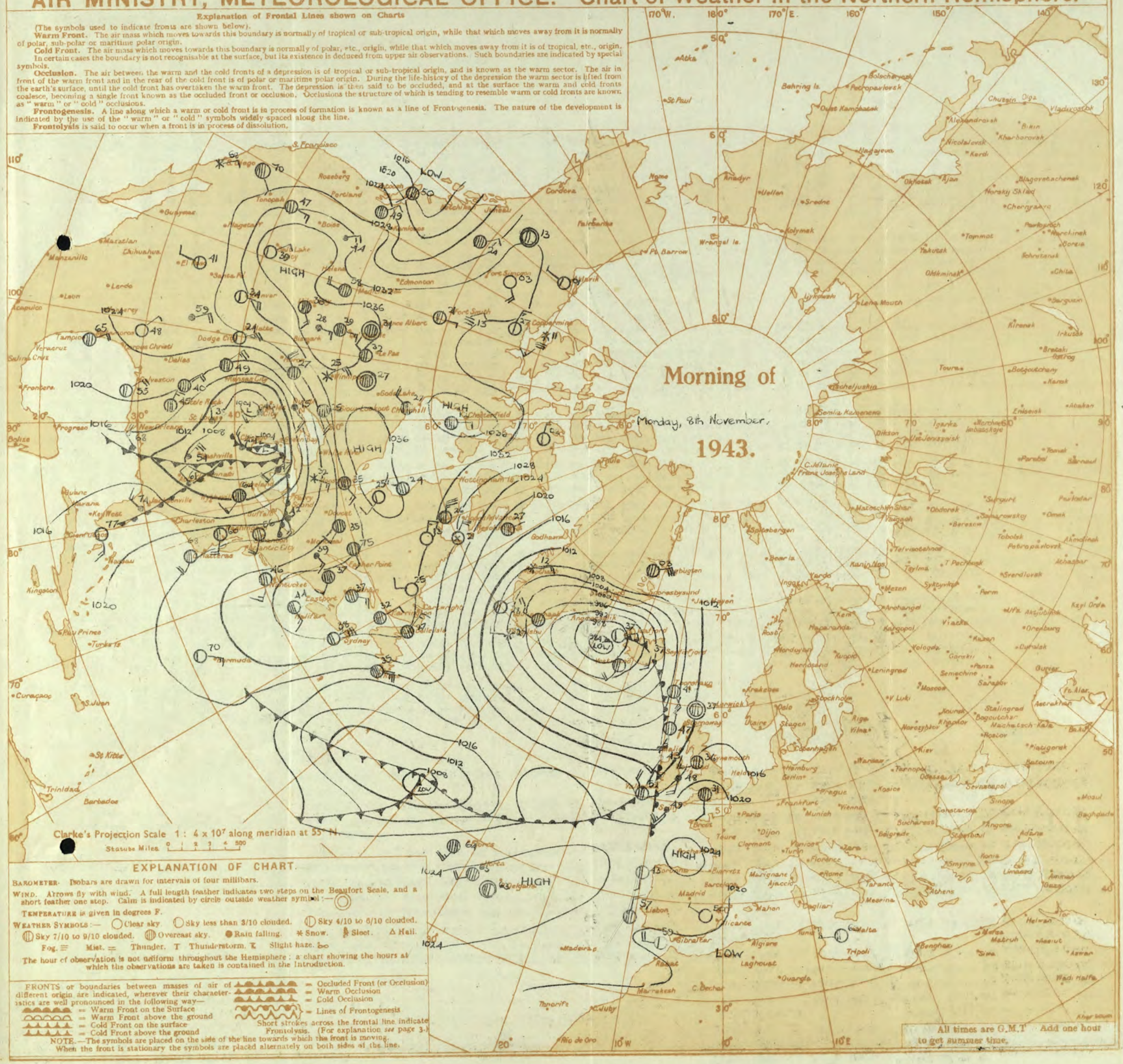
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.

Monday 8th November 1943

No. 29936

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

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	22·3	+2	S	2	m	31	85	28	4	-	3	7	0	10	—
	S. Farnborough	226	21·9	-2	—	0	z₀	30	92	29	6	5	3	2	1	2-3	3000
	Boscombe Down	417	21·8	-6	SE'S	1	z₀	36	85	33	5	5	-	-	10	10	5700
	Thorney Island	10	21·7	-2	NE	1	m	33	92	31	4	-	7	2	0	9	—
	Lympne	283	21·6	+2	NNW	3	m	32	85	30	4	-	5	2	0	9+	—
	Manston	154	20·8	+2	W	2	m	34	85	30	4	-	3	6	0	9	—
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	20·5	+2	W'N	3	z₀	38	85	33	6	-	7	-	0	4-6	—
	Gorleston	5	18·5	+4	WNW	3	bc	37	85	32	7	-	4	-	0	4-6	—
	Mildenhall	15	20·5	-2	SW	2	z₀	33	97	32	5	-	3	2	0	2-3	—
	Cranwell	203	19·9	-6	W'S	2	z₀	33	85	29	6	5	3	-	2-3	7-8	2500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	21·1	-2	SW	1	z₀	35	85	30	5	5	3	-	7-8	9+	3400
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	19·4	-8	SSW	3	ir	45	92	43	8	5	2	-	7-8	10	1500
	Bristol	209	20·9	-2	SE	1	z₀	42	85	38	6	5	7	-	9+	10	3600
	Portland Bill	32	20·5	-10	NW	2	c	48	85	44	8	5	7	-	7-8	10	4000
	Plymouth	86	21·0	-8	ESE	2	z₀	45	85	40	6	5	-	-	10	10	3800
	The Lizard	240	20·1	-10	W'N	4	c	50	65	40	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	19·2	-14	SW	5	rr	49	85	45	7	5	2	-	9+	10	1500
	Guernsey	175															
6	Pembroke	142	18·7	-10	WNW	4	r₀r₀	49	92	47	7	5	-	-	10	10	1500
7	Holyhead (Valley)	32	17·3	-6	S	4	ir₀	48	75	41	7	5	2	-	9	10	2200
	Chester (Sealand)	16	18·7	-12	SE'S	2	z₀	40	75	43	5	5	7	-	4-6	10	3200
8	Manchester	230	19·2	-12	SSE	3	z₀	39	75	30	6	5	7	-	7-8	10	3200
10	Spurn Head	29	19·4	-4	W	3	c	40	75	32	7	7	3	-	4-6	9+	1500
	Catterick (Sc)	192	19·8	-4	W	1	z₀	31	92	29	6	-	7	-	0	10	—
	Tynemouth	108	·9·3	-6	WSW	3	z₀	36	75	28	5	5	-	-	7-8	7-8	1500
11	St. Abbs Head	280	16·1	-18	SW	3	c	35	75	26	7	5	-	-	10	10	2500
	Leuchars	36	15·8	-16	SW	2	z₀	36	92	33	6	5	7	-	7-8	10	3500
12	Renfrew (Abbots I.)	19	14·8	-22	NE'E	1	z₀	40	75	33	6	5	-	-	10	10	2900
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	16·1	-16	SW	3	c	46	75	39	8	9	7	-	9	10	4000
13A	Tiree	44	11·1	-24	S'W	5	r₀r₀	46	92	43	8	5	1	-	9	10	1800
13B	Stornoway	12	09·3	-26	S	7	c/r	47	75	41	7	8	2	-	7-8	10	1800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	15·3	-16	SSW	3	c	36	75	29	8	-	1	-	0	10	—
	Wick	114	13·9	-18	S	2	c	41	75	34	8	5	2	-	7-8	10	2600
16	Sumburgh	19	13·5	+10	NE'N	1	c	37	92	35	8	8	7	6	2-3	9	2500
17	Blacksod Point	18	11·3	+10	WNW	6	ir₀	51	85	47	7	6	2	-	4-6	10	1500
18	Malin Head	84	09·9	-34	S'W	4	r₀r₀	43	85	39	8	5	2	-	2-3	10	1500
	Aldergrove	268	14·2	-20	SSE	3	ir₀	44	85	39	8	5	-	-	10	10	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	14·7	+6	NNW	4	c	52	92	50	7	5	-	-	9+	9+	1700
	Roches Point	22	14·1	-22	SW'S	5	dr	51	97	50	5	5	-	-	10	10	450

OBSERVATIONS at 7 hr. G.M.T. 8th November — 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)	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 7th Hrs. (38)
London (Kew)	20·9	-2	SSW	1	z₀	37	85	32	5	5	7	-	7-8	9+	2500	1	*	45	31	17	-	Tr	6·6
Croydon	21·8	-2	S	4	m/f	38	65	29	4	-	7	-	0	10	—	0	*	44	29	26	-	-	4·2
S. Farnborough	21·4	+2	S	2	z₀	38	75	32	6	5	7	-	7-8	9	1800	0	*	45	30	20	-	-	7·0
Boscombe Down	20·7	-2	SSE	2	z₀	39	85	36	6	-	7	-	0	10	—	1	*	44	33	27	-	Tr	5·9
Thorney Island	21·2	-2	E'N	2	z₀	40	85	36	5	5	1	-	4-6	10	4000	0	*	47	31	26	-	—	*
Lympne	22·3	+4	W'S	1	z₀	37	85	30	6	5	4	7	2-3	10	3000	0	2	45	31	27	-	-	8·4
Manston	22·0	+10	SSW	2	m	35	85	30	4	-	7	7	0	10	—	0	*	45	33	29	-	-	5·6
Shoeburyness	22·2	0	SSW	2	z₀	39	79	32	6	5	-	-	7-8	7-8	4000	1	*	45	33	34	*	-	7·9
Felixstowe	20·9	+2	WSW	3	m	37	75	31	4	-	7	-	0	10	—	0	2	46	35	33	0·2	-	6·9
Gorleston	19·5	+2	SSW	2	z₀	35	85	31	5	5	3	-	4-6	9+	1500	1	2	49	34	33	1	Tr	5·3
Mildenhall	20·0	-2	S'W	2	z₀	35	75	29	5	-	7	2	0	9+	—	0	*	45	31	26	-	-	5·8
Cranwell	18·8	+2	SW	3	z₀	37	85	33	6	-	3	-	0	7-8	—	0	*	45	31	26	-	-	6·3
Birmingham	18·9	0	SSW	2	z₀	40	92	38	5	-	2	-	0	10	—	1	*	42	35	23	-	-	4·9
Upper Heyford	20·2	-6	SSW	1	z₀	37	85	32	6	5	7	-	4-6	7-8	3500	0	*	43	32	28	-	-	*
Ross-on-Wye	19·7	-6	S	2	c	44	92	42	7	5	1	-	9+	10	2500	1	*	47	39	35	-	0·2	4·3
Hartland Point	16·7	-8	SSW	4	c	47	97	47	7	5	2	-	7-8	10	1500	1	4	49	44	42	-	1	0·4
Bristol	19·9	-6	S	3	c/r	44	85	40	7	-	7	-	0	10	—	1	*	48	41	36	-	0·5	4·8
Portland Bill	19·9	-4	W	2	c	50	85	46	7	5	-	-	10	10	4000	1	3	50	42	*	-	0·2	*
Plymouth	19·7	-4	SW	4	r₀r₀	50	92	48	5	5	-	-	10	10	1000	1	3	52	44	37	Tr	1	1·8
The Lizard	18·8	-6	WSW	5	o	51	92	49	7	5	-	-	10	10	1500	1	4	54	46	*	-	2	1·1
Scilly (St. Mary's)	17·3	-10	SW'W	5	ir₀	52	97	52	6	5	-	-	10	10	800	1	4	51	48	*	-	3	0·1
Guernsey																							
Pembroke	15·6	-16	WNW	5	dd	52	97	51	6	5	-	-	10	10	1500	1	4	50	46	*	-	9	1·7
Holyhead (Valley)	14·7	-10	SSW	5	rr	50	92	48	4	5	-	-	10	10	800	1	3	38	42	40	0·4	4	*
Chester (Sealand)	16·6	-10	SE	3	c/r	43	85	41	6	5	2	-	2-3	10	4000	1	*	46	37	34	-	0·2	6·2
Manchester	17·5	-4	S	4	z₀	41	85	37	6	5	-	-	10	10	3500	1	*	43	34	27	·	Tr	*
Spurn Head	19·2	+2	SW'S	4	z₀	39	75	32	6	7	-	-	9+	9+	1500	0	3	44	37	*	1	-	4·8
Catterick (Sc)	17·8	-6	S	1	cf+	33	97	32	2	5	7	-	4-6	10	2000	0	*	43	30	26	·	-	0·6
Tynemouth	17·6	-8	WSW	3	z₀	38	75	29	5	8	-	-	9	9	1500	0	3	43	35	33	·	-	*
St. Abbs Head	13·5	-18	SSW	5	pr	39	65	28	7	5	-	-	9+	9+	2500	0	4	42	34	*	-	Tr	*
Leuchars	13·2	-10	S	1	c/r	39	85	35	5	5	7	-	7-8	9+	2500	1	*	43	34	29	-	0·1	4·3
Renfrew (Abbots I.)	11·7	-14	NE'E	2	dd	41	97	40	2	-	2	-	10	10	800	1	*	45	36	29	·	0·6	2·7
Eskdalemuir	13·9	-10	N'W	1	r₀r₀	34	97	34	3	-	2	-	10	10	200	1	*	41	28	22	·	0·4	7·3
Point of Ayre	12·6	-14	WSW	3	d₀d₀	50	92	48	8	-	2	-	10	10	1800	1	3	48	41	*	-	0·1	5·8
Tiree	09·6	-2	SW'S	2	r₀r₀	49	97	49	7	5	-	-	10	10	1000	1	2	46	44	43	0·3	4	0·8
Stornoway	07·1	-6	SSW	3	c-bc/r	46	97	46	8	5	3	-	7-8	7-8	2000	2	3	44	42	39	·	5	0·0
Dalwhinnie	10·5	-8	SW	3	ir₀	36	85	33	7	5	7	-	7-8	10	1500	1	*	38	30	25	·	0·5	0·0
Aberdeen †	12·5	-6	SSW	3	z₀	40	65	31	5	5	5	-	2-3	9	5700	1	2	41	33	24	-	—	1·3
Wick	10·3	-18	SSE	3	c	42	85	39	8	5	7	-	7-8	9+	5000	1	*	41	34	28	0·3	0·1	*
Sumburgh	11·3	-6	SSE	4	c/r	44	65	33	8	5	7	-	4-6	10	2500	1	2	42	36	32	Tr	1	4·8
Blacksod Point	14·9	+16	WNW	3	bc	47	75	40	8	5	-	-	4-6	4-6	1500	1	3	50	47	*	Tr	2	*
Malin Head	10·6	+16	WNW	3	c	50	75	42	8	5	-	-	9	9	1500	2	3	47	42		0·6	1	0·0
Aldergrove	12·3	+2	WSW	3	c/d	48	92	46	7	5	2	-	9	10	1500	1	*	47	40	38	0·1	1	0·4
Birr Castle	14·8	+18	SSW	1	c	47	85	43	7	5	-	-	9	9	2500	1	*	47	44	42	-	6	0·0
Valentia Obsy.	17·8	+18	NW'W	3	pr	50	85	46	8	8	-	-	9	9	2700	1	3	50	49	47	2	7	0·0
Roches Point	16·6	+22	NNW	3	b-bc	48	85	44	8	5	-	1	1	2-3	2500	1	4	51	47	*	0·2	8	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 7th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 8th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
100	8-	02957	27327	04	02855	26126	57	02754	14227	57	02754	14328
115	87	02944	32227	53	02844	16127	52	02944	16227	52	62845	20368
203							8-	02847	16527			
206	58	02967	24328	57	02863	00026	5-	02764	00028	53	02865	00026
210	56	02854	26325	57	02965	20228	51	02864	14228	53	01964	14214
219	55	02955	16127	52	02955	16228	52	02854	16468	80	01853	24464
230	55	02964	00027	52	02864	00028	52	51845	24268	52	58647	22168
245	50	02952	30317	57	02953	24117	07	05690	22228	52	61657	00028
260	57	02864	20225	5-	05654	20224	52	05654	24128	5-	05645	20225
276												
279	10	02861	32215	57	02861	16125	57	02754	04128	57	61644	12167
285	53	02854	28416							5-	61638	06228
288	06	05690	61514	04	01790	23213	07	02790	18210	57	05663	18327
575	57	02864	16128	57	21864	16258	52	02855	51468	51	02744	61366
301	31	02851	28127	04	05590	08127	5-	08468	12328	5-	05668	47428
321	54	01852	30414	00	47390	22220	53	43363	20146	57	47364	15247
290	80	14744	32514	80	01743	24313				51	05545	24216
292	54	02961	30305	04	01890	28214	57	08463	00015	07	47390	00018
310										14	01635	20315
614	03	05690	30314	00	08490	28113	57	08463	00025	57	04475	24127

III	13h. G.M.T. 7th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 8th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	86	02866	30187	57	05665	30127	62	62655	18358	52	62535	18468
334										--	02645	24416
340	04	17690	30314	53	04561	30115	57	05564	16328	52	51465	16368
136	2-	81748	28588	06	01790	30482	04	05590	22115	03	05590	16118
336										57	22756	20368
350	00	05690	28304	00	05690	24225	00	05690	18114	57	02764	18116
368	57	02865	30216	52	02864	30128	5-	02768	30128	52	02744	16368
379	00	05690	28417	07	05690	26113	53	02744	16228	57	61674	20367
390	00	05690	61511	00	05590	26201	53	08490	24225	07	08490	16205
382	00	05690	27314	07	05690	26126	53	05564	00027	57	61663	21128
438	00	05690	30400	10	01763	28313	05	02696	30115	57	02764	16218
430	00	01890	28403	04	05690	28127	03	05690	00016	57	49553	04127
409	55	02954	30217	57	02956	26127	5-	02758	16328	5-	51648	16458

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 8th November. 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	bubcz₀y	bcyem	cmbcm₀x
Croydon	bbz₀ cz₀y	cz₀ycf	bczxczx
Greenwich	by	bbcbm	bcbxcm
Camden Square	b	bc	*
Kensington	bc	bc	*
Hampstead	b	bc	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·6, Time 19-20h 7th. Min. <0·1, Time 7-9h 8th.

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	31	17	-	Tr	6·6	*	*
Croydon	44	29	26	-	-	4·2	*	*
Greenwich	44	30	25	-	-	5·9	61	69
Westminster	48	32	27	—			53	80
Regents Park	45	33	21	-	-		59	66
Camden Square	46	33	25	-	-	*	*	73
Kensington	45	32	20	-	-		63	77
Hampstead	44	32	26	-	-		*	67

SECRET

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

BRITISH SECTION

Tuesday 9th November 1943

No. 29937

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

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)	21·0	-4	SW	4	ir₀	50	75	43	6	7	7	·	2-3	9+	2500
	Croydon	21·5	-4	SW	3	z₀	50	75	41	6	3	3	·	4-6	9+	3500
	S. Farnborough	21·1	-6	SWS	3	c/d	47	75	41	6	5	7	-	7-8	9+	2000
	Boscombe Down	20·6	-6	SE	3	c/d	49	97	48	6	5	2	-	7-8	10	1800
	Thorney Island	21·4	-2	SSW	3	c/d	52	85	48	7	5	7	·	4-6	10	3500
	Lympne	22·6	-2	SW	3	z₀	48	75	39	6	5	7	-	7-8	10	3000
	Manston	22·1	-2	SWS	3	z₀	49	65	37	6	5	·	·	9+	9+	5700
2	Shoeburyness	21·9	-4	SSW	3	z₀	50	75	42	6	-	7	-	0	10	-
	Felixstowe	21·7	-6	SW	4	z₀	50	65	38	6	-	7	-	0	9+	-
	Gorleston	21·0	-6	WSW	3	z₀	49	65	36	6	5	3	-	4-6	7-8	1800
	Mildenhall	20·3	-2	SWS	3	m	48	65	37	4	5	-	·	9+	9+	3500
	Cranwell	18·4	-4	SSW	4	d₀d₀	48	85	43	6	5	7	-	4-6	9+	2500
3	Birmingham	18·5	-6	S	3	o	48	85	44	7	5	-	·	10	10	800
	Upper Heyford	20·0	-6	SW	3	d₀d₀	47	92	44	6	6	2	·	4-6	9+	1800
4	Ross-on-Wye	18·0	-10	SW/S	4	c	51	85	48	7	5	-	-	10	10	2000
5	Hartland Point	18·3	+10	NW	3	c/r	53	97	53	8	5	2	-	7-8	9+	800
	Bristol	19·0	-10	SW	3	c/r	52	92	49	7	5	7	-	4-6	9+	700
	Portland Bill	20·0	-4	SW	5	pr	54	92	52	7	5	-	-	10	10	2500
	Plymouth	19·8	-4	SWW	4	d₀d	54	97	53	6	5	2	-	9	10	500
	The Lizard	19·0	-4	WNW	4	c/pr	55	97	55	7	5	-	-	9+	9+	1500
	Scilly (St. Mary's)	20·9	+16	NW	4	c/p	56	85	51	8	8	-	-	9+	9+	1200
	Guernsey															
6	Pembroke	19·1	+16	NNE	3	c	53	75	45	8	5	3	-	7-8	9	2600
7	Holyhead (Valley)	17·7	+16	NW	3	c	53	75	45	8	8	7	-	4-6	9	2500
	Chester (Sealand)	16·4	-2	-	0	d₀d₀	50	92	49	6	5	2	-	7-8	10	1500
8	Manchester	16·9	-6	S	3	d₀d₀	47	92	44	5	6	2	-	9	10	1500
10	Spurn Head	18·5	-10	SW	5	z₀	48	75	41	6	7	3	-	7-8	9	1500
	Catterick (Sc)	16·4	-6	SSE	3	c-bcf	42	92	40	4	5	-	-	7-8	7-8	2500
	Tynemouth	15·4	-6	SW	4	m	46	85	40	4	8	-	-	7-8	7-8	1200
11	St. Abbs Head	12·7	0	SSW	4	c	45	85	42	7	5	4	-	7-8	9+	3000
	Leuchars	13·0	+2	-	0	z₀	43	92	40	5	5	-	·	4-6	10	1400
12	Renfrew (Abbots I.)	13·3	+10	WNW	2	c/d	46	97	45	5	8	3	2	4-6	9+	2500
	Eskdalemuir	13·6	+4	SSW	2	c/d	44	97	44	5	5	-	-	10	10	150
	Point of Ayre	16·4	+24	NW	5	c	52	75	46	8	5	4	8	2-3	9+	3000
13A	Tiree	12·8	+8	WSW	3	c-bc	51	85	45	8	2	3	1	4-6	7-8	2000
13B	Stornoway	09·2	+6	SSW	2	c-bc/jp	50	75	43	8	3	6	9	4-6	7-8	1500
15	Dalwhinnie	11·9	+2	SSW	3	c	48	92	41	7	5	-	8	7-8	9+	1500
	Aberdeen	12·1	-6	SSW	4	c	46	85	40	7	-	3	9	0	9	-
	Wick	10·2	+2	S	3	c	46	92	44	8	5	7	6	2-3	9	3000
16	Sumburgh	09·4	-6	S	5	c/pl	47	86	41	8	8	7	1	9	9+	2000
17	Blacksod Point	17·3	+8	WSW	5	c	52	65	40	8	8	2	6	4-6	9	1500
18	Malin Head	14·2	+10	WS	4	bc	52	65	40	8	8	-	-	4-6	4-6	1500
	Aldergrove	16·3	+14	SWW	3	c	50	75	44	8	8	-	8	4-6	9+	4000
19	Birr Castle	18·4	+16	SW	1	c	51	75	43	8	5	1	-	7-8	10	2500
20	Valentia Obsy.	20·6	+10	WN	3	c	53	65	41	9	5	-	-	9+	9+	3500
	Roches Point	20·3	+10	NWN	3	c	52	85	48	8	5	7	·	4-6	9	1500

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

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)	21·0	+4	SSW	2	ir₀	49	92	47	5	5	2	-	9	10	2500	1	*
Croydon	21·5	+6	S	4	r₀r₀	50	92	49	5	5	2	-	2-3	10	800	1	*
S. Farnborough	21·0	+2	SSW	2	r₀r₀	50	97	50	5	5	2	-	9+	10	1000	1	*
Boscombe Down	20·5	+6	SSW	2	b-bcF+	49	97	49	1	-	3	-	0	2-3	-	1	*
Thorney Island	21·3	-2	SWS	3	d₀d₀	53	97	52	5	6	2	-	7-8	10	600	1	*
Lympne	22·6	+2	SSW	2	r₀r₀	48	97	48	4	5	7	-	8	10	700	1	3
Manston	22·3	+2	SW	2	ir₀	48	92	46	6	5	7	-	7-8	9+	2800	1	*
Shoeburyness	22·2	+6	SW	3	z₀	50	92	47	6	5	7	-	7-8	10	4000	0	*
Felixstowe	21·4	+2	SSW	4	o/r	50	85	44	6	5	-	-	10	10	2300	0	3
Gorleston	20·9	+4	SSW	3	z₀	48	75	41	6	5	-	-	10	10	1500	0	3
Mildenhall	20·3	+6	SW	3	ir	48	85	44	4	5	-	-	10	10	1600	1	*
Cranwell	17·4	+10	SW	2	z₀	47	97	47	6	5	7	-	9	9+	2000	1	*
Birmingham	20·4	+8	W	2	m	49	97	49	4	5	-	-	9	9	2500	1	*
Upper Heyford	20·0	+8	SSW	1	d₀d₀	49	97	49	5	6	2	-	9	10	500	1	*
Ross-on-Wye	20·1	+16	WS	2	c	51	92	49	7	5	-	-	9	9	2500	1	*
Hartland Point	26·7	+24	NW	3	c	52	75	43	8	5	6	-	4-6	9+	2500	1	3
Bristol	20·7	+18	WNW	3	z	53	92	51	6	5	7	-	7-8	10	2500	1	*
Portland Bill	20·4	+8	SW	5	pr	54	92	52	7	5	-	-	10	10	7200	1	4
Plymouth	22·3	+28	NW	2	z₀	53	85	48	6	5	5	-	7-8	9+	4000	1	1
The Lizard	22·5	+20	NW	4	c	49	85	45	8	5	-	-	9+	9+	1500	1	4
Scilly (St. Mary's)	23·1	+14	NW	2	c	52	75	45	8	5	-	-	10	10	1200	1	3
Guernsey																	
Pembroke	21·7	+6	NE	3	c	52	75	45	6	8	-	-	9+	9+	2500	1	3
Holyhead (Valley)	20·3	+18	WNW	2	c	50	75	44	8	8	4	-	7-8	9	2900	1	1
Chester (Sealand)	19·7	+22	WNW	2	c	49	75	43	7	5	4	2	7-8	9	2500	1	*
Manchester	19·6	+22	WSW	2	m	46	92	44	4	5	7	-	2-3	4-6	3000	1	*
Spurn Head	19·3	+22	SW	4	z₀	48	92	46	6	5	-	-	10	10	1500	1	3
Catterick (Sc)	18·2	+12	SSW	1	m	46	97	46	4	5	-	-	9	9	2000	0	*
Tynemouth	17·4	+26	W	3	z₀	50	85	46	6	-	3	-	0	4-6	-	0	3
St. Abbs Head	14·5	+12	W	4	b-bc	48	75	39	7	4	-	-	2-3	2-3	2500	0	3
Leuchars	15·3	+14	—	0	z₀	41	97	40	6	5	-	-	Tr	1	4000	1	*
Renfrew (Abbots I.)	16·3	+20	SW	3	c-bc/pr	48	92	45	7	8	-	5	4-6	7-8	2000	1	*
Eskdalemuir	17·5	+28	W	3	ir₀	43	85	39	7	5	3	-	7-8	9	1400	1	
Point of Ayre	18·6	+14	NWW	4	bc	49	75	42	8	2	-	8	1	4-6	3000	0	3
Tiree	15·6	+22	WS	2	pr	49	85	43	8	2	7	-	4-6	7-8	3000	1	1
Stornoway	11·3	+20	SW	2	c-bc	45	85	42	7	8	6	-	7-8	7-8	1800	1	2
Dalwhinnie	14·6	+6	SW	3	c-bc	41	92	38	8	8	-	-	7-8	7-8	2500	1	
Aberdeen	14·4	+20	WSW	2	m	44	85	39	4	-	-	-	0	0	-	1	*
Wick	12·0	+12	SW	2	b	43	92	41	8	2	4	-	Tr	1	3000	1	*
Sumburgh	09·6	+6	SW	5	c	49	75	41	8	2	3	2	2-3	9+	2000	1	3
Blacksod Point	19·6	+22	W	4	o/r	50	75	43	8	5	-	-	10	10	2500	1	3
Malin Head	17·0	+20	WN	4	PR	49	85	45	8	8	-	-	7-8	7-8	1500	2	3
Aldergrove	19·1	+10	WSW	3	c	48	85	44	8	5	-	-	9	9+	3000	1	*
Birr Castle	20·2	+14	SW	1	c	49	85	45	9	5	2	-	7-8	10	2500	1	*
Valentia Obsy.	22·4	+16	SWW	3	c	51	65	40	8	5	-	-	10	10	3500	1	
Roches Point	22·1	+14	W	2	c	51	85	47	8	8	-	-	10	10	1500	1	3

PAST 24 HOURS. WEATHER.

Stations	7h.–13h. 8th (39)	13h.–18h. 8th (40)	18h. 8th to 1h. 9th (41)	1h.–7h. 9th (42)
London (Kew)	cm ir₀ m₀	cir₀r₀ir₀	cir₀cm₀	cfw
Croydon	cz₀	cz₀cr₀r₀m₀	cr₀r₀m₀	cm fbcbf
S. Farnborough	cm₀ id₀ z₀	cz₀md₀r₀	cr₀cm₀bm₀cm₀	cbcm₀
Boscombe Down	cir₀d₀m₀	cm₀d₀bcf-	bcm₀cmbcmfg	bcm₀cm₀
Thorney Island	cm₀ id₀c	cd₀d₀	cm₀cm	cm
Lympne	cz₀	cm₀cir₀	pr₀rdFF	ofeb
Manston	cmbz₀	cz₀cir₀m₀	cm₀r₀cm₀	cm₀m
Shoeburyness	cm₀bcm₀	cm₀ ir₀	cm₀ir₀m₀	cm₀
Felixstowe	bcz₀ cz₀	cz₀cm₀	cm₀	cm₀w
Gorleston	cz₀	cz₀	cz₀cm	bcm₀g
Mildenhall	cz₀	czid₀cm	cir₀m	cbbcf
Cranwell	ccm₀cid₀m₀	crrmcm₀	bcfbfbcf	bf
Birmingham	cir₀o	ocm	cbc	bccz
Upper Heyford	cm₀r₀r₀c	cd₀d₀m₀	cd₀d₀m₀cm	cmbcm₀bm
Ross-on-Wye	cc	cod₀c	cbc	bwbcc
Hartland Point	cr₀r₀id₀r	c	c	c
Bristol	ccm₀r₀r₀cc	ccr₀r₀cm₀	cm₀w	cm₀w
Portland Bill	opr	opr	c	c
Plymouth	cr₀r₀d₀d₀m₀	cm₀ir₀cm₀	cm₀	cm₀
The Lizard	rrprc	cprc	c	c
Scilly (St. Mary's)	cdrc	c	c	c
Guernsey				
Pembroke	c	c	c	c
Holyhead (Valley)	rr r₀r₀c	c	c	c
Chester (Sealand)	cir₀dd	cir₀m₀c	bcc	m₀c
Manchester	r₀r₀irid₀	d₀d₀r₀r₀cm	bccm	cm₀w
Spurn Head	cm₀	om₀	cm₀	cF
Catterick (Sc)	cf	cfcmcm₀	c	ccm₀
Tynemouth	cm	cbcmm₀	bcm₀	bcm₀
St. Abbs Head	cprc	cm₀bcm₀	ccm₀bc	c
Leuchars	cd₀m₀	m₀bcibm₀	bm₀cm₀	cm₀w
Renfrew (Abbots I.)	cd₀d₀f m₀cm₀	cm₀bcprbc	bcpr₀ccpr₀c	cm₀bcm₀
Eskdalemuir	r₀rd₀ro	bcir₀	cir₀bc	bccm₀
Point of Ayre	c	bc	bcb	oc
Tiree	cvprbc	bcpr₀bc	bcpr₀c	cbccir₀
Stornoway	cbcpr₀c	cpr₀bcpr₀c	cbcc	cpr₀bcc
Dalwhinnie	oir₀c	epr		cir₀o
Aberdeen	cirm₀c	obm	bmbc*	c
Wick	cir₀	cbcb	bcb	c
Sumburgh	cpr₀c	cpr₀c	cpr₀bc	pr₀
Blacksod Point	pr	r	c	d
Malin Head	pr	pr	pr	c
Aldergrove	c	ccr₀c	cbcc	c
Birr Castle	c	c	-	bc
Valentia Obsy.	pr	c	r	pr
Roches Point	bc	c	c	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 9th November, 1943.

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Light or moderate southwest to South winds; fair at first; slight rain later; local morning fog; mild.
5 S.W. England; 6 South Wales	Light or moderate south wind; cloudy; slight rain locally; mild.
7 North Wales; 8 N.W. England; 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland	Moderate south to southwest wind, fresh locally. cloudy, occasional rain later; 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 to southwest wind strong to gale locally on coasts; cloudy; occasional rain; mild.
16 Orkneys and Shetlands ↓	As 12-15.
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	Moderate south wind fresh or strong locally later; cloudy; occasional rain; mild.

GENERAL INFERENCE

A depression off Northwest Scotland is moving northeast. Weather will be fair in the East and South at first but slight rain may occur later. There will be rain at times in the North and West.

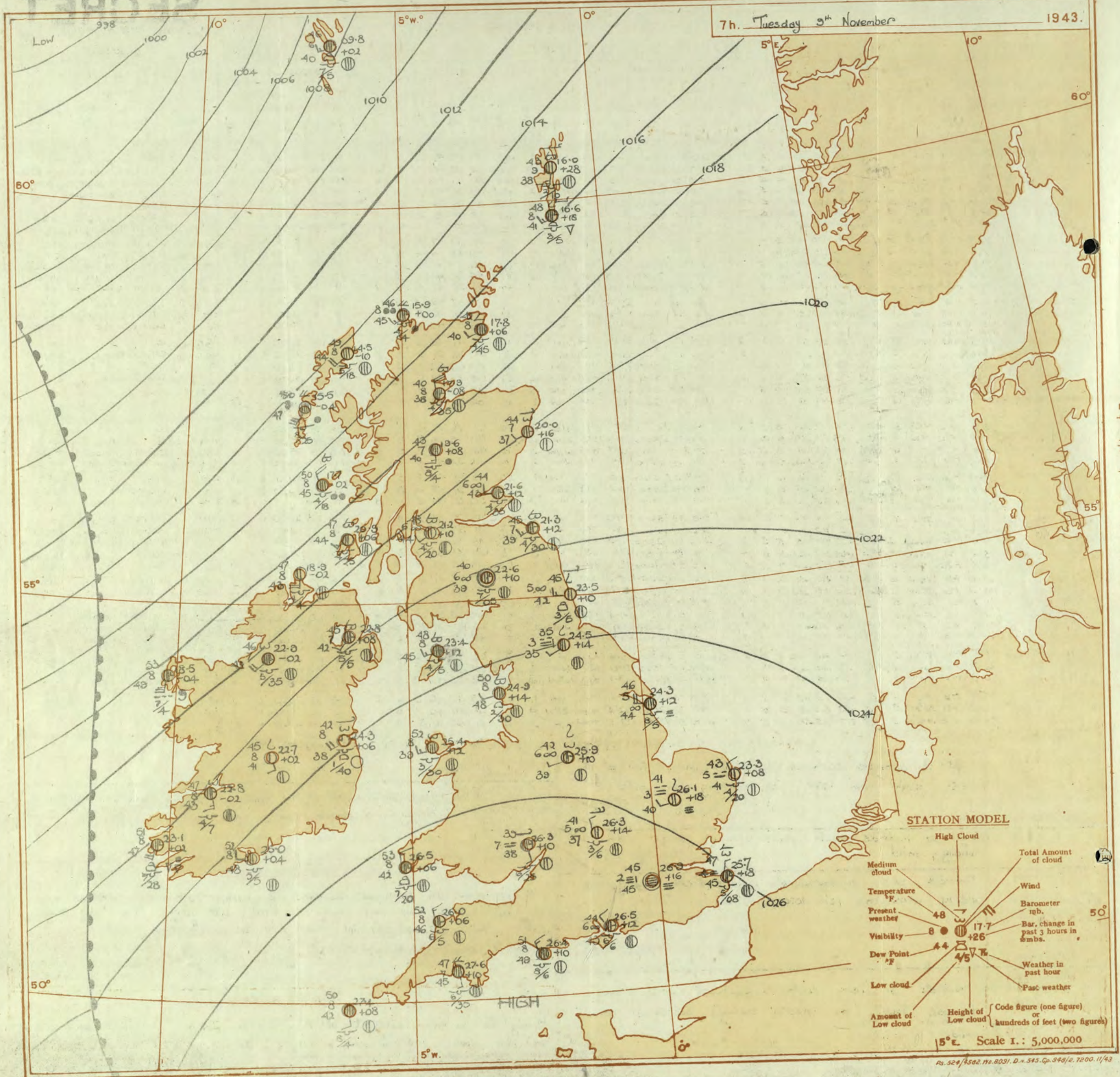
FURTHER OUTLOOK

Mainly fair in the Southeast of the British Isles. Unsettled and stormy in the Northwest. ↓ Gale warning in operation in districts 13B, 15, & 16. issued at 10.15 G.M.T. 9.11.43.

Forecasts issued at 10.30

NELSON K. JOHNSON, K.C.B., D.Sc., Director
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

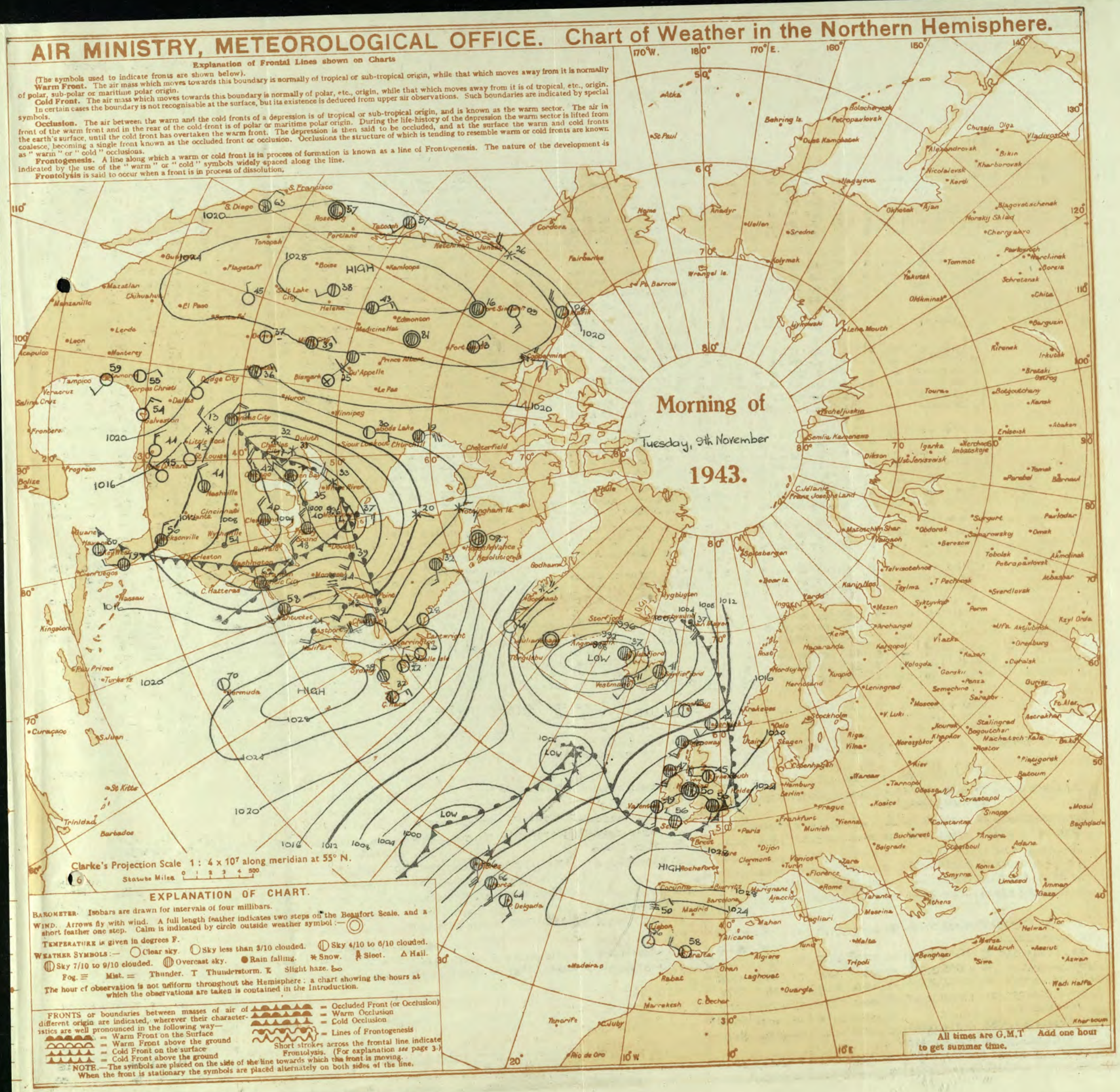
7h. Tuesday 9th November 1943.



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

Rs. 524/4582. Mc. 8091. D.x.545. Gp. 948/2. 7200. 11/43

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.

Tuesday 9th November 1943 — No. 29937

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

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	*	*	*	*	*	50	*	*	*	*	*	*	*	*	*
	Croydon	290	23·8	+12	SW	1	m	50	97	50	4	5	2	–	7-8	10	1000
	S. Farnborough	226	24·4	+18	WNW	1	z_0	47	97	46	6	5	–	–	10	10	1000
	Boscombe Down	417	24·4	+12	WNW	1	fg	42	97	41	5	–	3	6	0	2-3	–
	Thorney Island	10	24·0	+18	W	2	m	49	97	48	4	4	7	–	Tr	9+	2500
	Lympne	283	23·4	+4	W'S	2	Ft	50	97	50	1	5	–	–	10	10	<150
	Manston	154	23·2	+6	W'S	2	z_0	50	97	49	6	5	7	–	4-6	9+	900
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	22·6	+6	WNW	2	m	49	97	47	4	5	2	–	4-6	10	1400
	Gorleston	5	21·7	+2	NW'W	2	m	48	92	46	4	–	3	–	0	9+	–
	Mildenhall	15	23·4	+14	W'S	2	cf	46	97	45	3	5	–	–	9+	9+	4000
	Cranwell	203	23·3	+14	W'S	3	bcf	42	97	41	3	–	5	–	0	4-6	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	23·7	+16	NW	1	m	46	92	44	4	5	–	–	9+	10	5800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	24·7	+6	NNW	2	c	52	75	43	8	5	6	–	9+	10	2500
	Bristol	209	25·1	+14	W	1	z_0	43	85	38	6	5	–	–	9+	9+	5000
	Portland Bill	32	24·9	+18	W	4	c	51	92	49	7	5	–	–	10	10	4000
	Plymouth	86	25·8	+10	–	0	z_0	49	85	45	6	5	–	–	10	10	3800
	The Lizard	240	26·0	+12	NNW	1	c	49	75	42	8	5	–	–	9+	9+	1500
	Scilly (St. Mary's)	163	26·3	+6	NW	1	z_0	56	73	43	8	5	–	–	10	10	1200
	Guernsey	175															
6	Pembroke	142	27·6	+10	NNE	1	c	52	65	41	8	5	–	–	10	10	2500
7	Holyhead (Valley)	32	23·4	+8	–	0	c	50	65	40	8	5	3	–	4-6	9+	3000
	Chester (Sealand)	16	23·0	+10	–	0	c-bc	45	85	42	7	5	3	8	1	7-8	4000
8	Manchester	230	23·0	+10	S	3	z_0	43	92	41	5	4	3	6	4-6	9+	1700
10	Spurn Head	29	22·3	+16	WNW	4	z_0	46	85	43	5	7	1	–	4-6	7-8	2500
	Catterick (Sc)	192	22·1	+14	–	0	z_0	40	97	40	6	–	–	6	0	7-8	–
	Tynemouth	108	21·0	+10	W	3	z_0	45	92	43	6	2	4	–	2-3	4-6	2500
11	St. Abbs Head	280	18·5	+16	W	4	c	46	75	39	7	5	2	–	4-6	9+	4000
	Leuchars	36	19·1	+14	WSW	3	z_0	41	97	41	6	–	7	–	0	10	–
12	Renfrew (Abbots I.)	19	19·4	+10	SW	2	c	47	92	44	7	5	7	–	7-8	10	1400
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	22·0	+12	W'N	3	b	45	85	42	8	4	3	–	Tr	1	2500
13A	Tiree	44	18·2	+8	WSW	2	c	47	85	44	8	5	7	–	7-8	10	3000
13B	Stornoway	12	15·6	+14	SSW	3	c	40	92	37	7	2	7	–	4-6	10	2200
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	18·0	+16	WSW	3	bc	41	85	37	8	4	–	6	1	4-6	4000
	Wick	114	16·2	+18	SW	1	b-bc	40	92	37	9	–	4	6	0	2-3	–
16	Sumburgh	19	13·1	+18	WSW	6	c-bc	49	75	40	8	3	6	–	4-6	7-8	1500
17	Blacksod Point	18	19·9	-2	SW	5	c	52	75	44	8	5	–	–	10	10	2500
18	Malin Head	84	19·1	+6	SSW	3	c	47	85	43	8	5	2	–	4-6	10	1500
	Aldergrove	268	21·7	+20	SW	2	c	45	85	41	7	5	7	–	9	9+	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	23·4	-2	S	3	c	49	85	45	9	5	3	–	7-8	9+	3500
	Roches Point	22	24·1	+2	W	1	c	51	85	47	8	5	–	–	10	10	1500

OBSERVATIONS at 7 hr. G.M.T. 9th November — 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)	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 9th Hrs. (38)
London (Kew)	26·7	+18	WNW	1	cf	45	97	44	3	5	7	–	7-8	9+	2500	1	*	50	45	36	0·5	Tr	0·2
Croydon	26·9	+16	–	0	ft	45	97	45	2	–	–	–	10	10	<150	1	*	51	43	39	0·1	1	0·3
S. Farnborough	27·5	+18	W'N	1	z_0	42	92	40	6	–	7	4	0	4-6	–	1	*	51	41	33	1	0·1	0·0
Boscombe Down	27·2	+16	WNW	1	z_0	40	92	38	6	5	7	–	4-6	9	4000	1	*	51	39	33	2	Tr	0·0
Thorney Island	26·5	+12	W'N	2	z_0	44	97	43	6	5	–	–	9	9	4000	1	*	53	43	40	2	Tr	
Lympne	26·4	+22	N	2	m	46	97	46	4	5	7	–	2-3	4-6	2500	1	§2	49	45	43	0·5	2	1·1
Manston	25·7	+18	N	1	m	47	92	45	4	5	3	8	7-8	9+	800	1	*	50	47	43	Tr	4	1·9
Shoeburyness	26·2	+10	NW	2	z_0	45	92	43	5	–	7	–	0	9	–	1		52	44	39	–	Tr	2·0
Felixstowe	25·5	+14	NW'W	1	m	45	92	43	4	5	–	–	10	10	4000	0	1	51	44	42	Tr	Tr	[illegible]·2
Gorleston	23·3	+8	NW	2	fsp	43	92	41	5	5	–	–	4-6	4-6	2000	1	2	50	42	40	–	Tr	1·0
Mildenhall	26·1	+18	W'S	2	bcf	41	97	40	3	–	–	6	0	4-6	–	1	*	50	49	36	Tr	1	0·5
Cranwell	25·7	+18	W'S	2	m	42	92	40	4	5	4	–	7-8	7-8	3500	0	*	50	40	34	0·6	–	0·3
Birmingham	27·2	+12	WSW	2	z_0	45	75	38	6	5	7	–	7-8	10	2500	1	*	49	41	28	0·1	–	0·0
Upper Heyford	26·3	+14	NW	1	z_0	41	85	37	6	5	–	2	2-3	4-6	4000	1	*	49	39	32	0·2	0·2	*
Ross-on-Wye	26·3	+10	S'E	1	fg	39	97	38	7	5	–	1	9	9+	2500	1	*	52	36	29	Tr	–	0·0
Hartland Point	26·0	+6	NW	3	c	52	75	46	8	5	–	–	9	9	2500	1	3	54	49	47	1	–	0·0
Bristol	27·1	+12	S	1	z_0	42	92	41	6	5	4	–	9	9+	5700	1	*	55	39	31	0·4	Tr	0·0
Portland Bill	26·4	+10	NW	3	c	51	92	49	8	5	–	–	10	10	4000	1	4	58	50	*	0·1	0·1	*
Plymouth	27·6	+10	SSE	1	c	47	92	45	7	5	2	–	9	10	3500	1	1	58	47	45	4	–	0·2
The Lizard	27·0	+10	WNW	3	o	51	75	42	8	5	–	–	10	10	1500	0	3	55	48	*	1	–	0·0
Scilly (St. Mary's)	27·4	+8	S'E	2	c	50	75	42	8	5	–	–	10	10	1500	1	2	56	49	*	0·4	–	0·4
Guernsey																							
Pembroke	26·5	+6	NNW	3	c	53	65	42	8	8	–	–	9+	9+	2000	0	3	54	47		1	–	0·0
Holyhead (Valley)	25·4	+12	WSW	3	c	52	65	39	8	5	3	–	2-3	10	3000	1		55	47	42	5	–	*
Chester (Sealand)	25·3	+12	–	0	z_0	46	85	42	6	5	–	–	10	10	4500	0	*	52	41	35	1	–	1·1
Manchester	25·2	+12	S'W	2	z_0	44	85	40	6	5	3	–	7-8	9+	3500	1	*	48	41	33	1	–	*
Spurn Head	24·3	+12	W	4	z_0	46	92	44	5	5	–	–	10	10	2500	1	3	48	45	*	0·4	–	1·8
Catterick (Sc)	24·5	+14	SW	1	c-bcf	39	97	35	3	–	4	8	0	7-8	–	0	*	48	35	31	–	–	0·0
Tynemouth	23·5	+10	W	3	z_0	45	92	42	5	2	4	1	2-3	4-6	2500	0	3	50	45	40	–	–	*
St. Abbs Head	21·3	+12	SW	3	c	45	85	39	7	5	7	–	4-6	9	3000	0	3	49	43	*	Tr	–	
Leuchars	21·6	+12	W	2	z_0	44	97	43	6	5	7	–	4-6	9+	3500	1	*	44	33	29	Tr	–	0·0
Renfrew (Abbots I.)	21·2	+10	SW'S	2	z_0	48	85	44	6	5	7	–	4-6	7-8	2000	1	*	50	43	32	1	0·4	1·9
Eskdalemuir	22·6	+10	–	0	z_0	40	97	39	6	5	–	–	9+	9+	500	1	*	48	38	34	3	0·2	1·0
Point of Ayre	23·4	+12	WSW	3	c	48	85	45	8	5	7	–	4-6	9+	1800	0		53	44	*	Tr	–	1·9
Tiree	17·7	-2	SSW	4	c/r	50	85	45	8	5	7	–	4-6	10	1800	1	3	53	43	37	0·1	1	3·0
Stornoway	14·5	-10	SSW	4	c	49	85	44	8	5	2	–	7-8	10	1800	1	3	51	39	35	3	0·6	3·4
Dalwhinnie	19·6	+8	S	3	o	43	85	40	7	5	–	–	10	10	1500	1	*	46	36	30	1	0·5	2·1
Aberdeen †	20·0	+16	WSW	2	c	44	75	37	7	–	3	1	0	9	–	1	1	46	38	35	0·4	–	0·9
Wick	17·8	+6	SW	2	c	42	92	40	8	5	1	–	4-6	10	4500	1	*	49	38	36	Tr	–	*
Sumburgh	16·6	+18	SW'W	3	c	48	75	41	8	4	4	7	2-3	9+	2500	1	2	49	46	42	Tr	1	0·0
Blacksod Point	18·5	-4	S'W	6	c	53	85	49	8	6	–	–	9+	9+	1500	1	5	53	49	*	0·1	Tr	*
Malin Head	18·9	-2	S	4	bc	47	85	43	8	5	–	–	4-6	4-6	1500	2	4	52	42		2	1	1·8
Aldergrove	22·8	+8	S'W	2	c	45	85	42	7	5	7	–	7-8	9	2500	1	*	52	42	34	Tr	–	1·3
Birr Castle	22·7	+2	SSE	2	b-bc	45	85	41	8	–	4	–	0	2-3	–	1	*	52	44	40	–	–	0·1
Valentia Obsy.	23·1	+2	S'W	4	c/pr	51	85	47	8	8	–	–	9+	9+	2800	1	3	53	48	45	Tr	0·1	0·2
Roches Point	25·0	+4	W	2	c-bc	52	85	48	8	5	–	–	7-8	7-8	2500	1	3	53	49	*	–	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 8th Nov. $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 9th Nov. $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109				53	81753	19484	87	02854	22484	57	02765	20326
115	24	62854	20426	84	81864	20486	21	02854	24426	52	62844	20367
203				53	62845	20586						
206	57	22865	26266	26	01963	22383	40	02863	22285	57	02864	28427
210	2-	81767	22227	5-	01864	18284	53	02963	20226	03	02890	16226
219	20	25854	23434	84	01853	24614	27	02853	20428	52	61858	18668
230	82	25956	22287	26	02954	22385	53	02962	21288	87	25856	20287
245	57	02753	24128	04	05581	23111	57	05661	22116	57	02762	22127
260	5-	48318	23228	00	41490	20241	54	05662	20228	57	05664	20327
276												
279	57	01746	26357	57	01752	23324	57	02764	22225	57	05555	24127
285	5-	05628	22428							53	02745	28227
288	03	47390	50565	57	45364	15346	00	02790	16226	50	01751	17124
575	37	25865	24326	46	02855	24326	57	02855	15228	57	02863	18325
301	5-	51448	17258	4-	02852	25355	03	01890	24214	17	02862	22228
321	57	05565	17357	51	08409	20265	57	08462	21226	57	47364	00017
299	5-	05546	2026				54	05644	28214	40	48009	08149
292	57	43345	16248	53	05554	20365	04	04590	14116	07	47390	18114
310	--	46209	20449	70	02426	20326						
614	57	05545	18328	53	45254	28126	53	41463	28115	5-	45335	26145

III	13h. G.M.T. 8th Nov. $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 9th Nov. $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	87	02853	28327	43	02865	00025				53	02863	22127
334	--	02646	26217							--	05546	00028
340	57	22653	18268	53	05654	26126	57	05665	14227	57	02766	14128
136	05	05690	18326	5-	61448	20328	03	47190	24145	00	45190	24248
330	52	22654	20368							57	05654	28228
350	57	22753	20368	51	52685	18258	5-	08467	25167	07	08590	20116
368				57	02754	26226	92	02665	26128	5-	05678	26128
379	52	21645	18363	--	52209	22169	53	01763	30214	53	02764	26328
390	07	43390	16345	5-	57358	18258	5-	43326	20166	53	41463	26144
382	57	51755	18328	52	02745	18158	5-	05667	26227	57	05664	00026
438							87	22755	30467	50	47354	30444
430	52	05753	18258	52	52437	20358	5-	05657	28227	5-	08467	24927
409	5-	21737	26457	5-	02944	29328	5-	02868	22128	5-	02867	16127

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 November
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	cmir$_0$m$_0$	cir$_0$r r$_0$ ir$_0$	cir$_0$cfw$_0$
Croydon	cz$_0$	cz$_0$cr$_0$r$_0$m$_0$	cr$_0$r$_0$bcf.
Greenwich	c	cd$_0$d	d$_0$cmf
Camden Square	c	c	*
Kensington	crcp	bcm	*
Hampstead	bc	od	odbc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ending 7h. Max. Time 0·4 [illegible]5h 8th. Min. Time 0·1 1-5h 9th.

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	50	45	36	0·5	Tr	0·2	*	*
Croydon	51	43	39	0·1	1	0·3	*	*
Greenwich	52	44	36	0·5	Tr	0·1	78	91
Westminster	52	41	39	0·3			85	98
Regents Park	52	42	37	–	–		69	92
Camden Square	51	41	38	0·3	–	*	*	89
Kensington	53	45	35	0·2	0·5		91	95
Hampstead	50	39	36	Tr	Tr		*	93

SECRET

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BRITISH SECTION

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

Wednesday 10th November 1943

No. 29938

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

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)	29·6	+6	WSW	2	Zo	51	75	43	5	2	–	–	Tr	Tr	4000
	Croydon ...	29·4	–2	WSW	1	Zo	54	65	42	5	1	–	9	Tr	1	3000
	S. Farnborough	29·6	+2	NW	1	b	56	65	43	7	1	4	–	Tr	Tr	2500
	Boscombe Down	29·2	+2	WSW	2	c-bc	54	55	40	7	2	3	–	Tr	7-8	2500
	Thorney Island	19·4	–4	–	0	b-bc	54	75	41	8	1	7	1	Tr	2-3	2500
	Lympne ...	29·4	+6	NNW	1	m	50	85	45	4	5	–	–	9+	9+	5000
	Manston ...	29·1	+12	NNW	2	Zo	51	85	46	5	5	–	–	9+	9+	5700
2	Shoeburyness ...	29·3	+10	SSW	2	Zo	54	75	46	5	–	7	–	0	2-3	–
	Felixstowe ...	28·7	+10	WNW	3	Zo	55	65	45	6	–	7	–	0	Tr	–
	Gorleston ...	27·3	+8	NW	2	Zo	54	75	46	6	5	–	–	2-3	2-3	1500
	Mildenhall ...	28·8	+4	WSW	1	Zo	54	75	45	6	5	–	–	4-6	4-6	5700
	Cranwell ...	28·2	+6	W'S	3	Zo	52	75	43	6	8	3	–	2-3	7-8	3500
3	Birmingham ...	28·3	+6	SW	2	Zo	51	65	40	6	5	–	–	9	9	4000
	Upper Heyford	28·8	+4	W'S	2	c	51	75	43	7	8	–	–	9+	9+	4800
4	Ross-on-Wye	28·5	+4	SW	2	Zo	51	75	42	6	5	–	–	10	10	3000
5	Hartland Point	29·0	+8	WSW	2	c	53	85	47	8	8	7	–	4-6	9+	2000
	Bristol ...	29·6	+6	S'E	1	c	52	65	41	7	5	7	–	4-6	10	5700
	Portland Bill ...	29·3	+12	N	2	c	51	92	49	8	5	–	–	10	10	4000
	Plymouth ...	30·3	+6	SW	1	c	54	75	45	8	7	3	–	2-3	9+	4000
	The Lizard ...	29·5	+10	SW	3	c	54	65	43	8	5	–	–	9	9	1500
	Scilly (St. Mary's)	29·8	+10	W'S	2	c	54	65	43	8	5	–	–	10	10	1500
	Guernsey ...															
6	Pembroke ...	29·0	+14	W'N	3	c-bc	54	65	43	8	8	–	–	7-8	7-8	2000
7	Holyhead (Valley)	26·7	+4	SW	4	bc	56	55	40	9	7	–	6	2-3	4-6	3500
	Chester (Sealand)	27·4	+6	–	0	Zo	54	65	43	6	5	3	–	4-6	9+	3500
8	Manchester ...	27·7	+6	SSW	3	Zo	52	75	44	6	5	–	–	7-8	7-8	5000
10	Spurn Head ...	27·7	+10	SW	3	Zo	51	75	43	5	7	3	–	4-6	9+	2900
	Catterick (Sc) ...	26·1	+2	SSW	3	c	53	85	48	7	8	6	–	7-8	9	3500
	Tynemouth ...	25·7	+6	SW	3	Zo	54	75	45	6	5	–	–	7-8	7-8	2300
11	St. Abbs Head	22·0	0	SW	4	c	50	75	42	7	4	4	–	7-8	9+	3000
	Leuchars ...	21·3	–4	SW	4	Zo	50	85	45	6	5	7	–	4-6	9+	4000
12	Renfrew (Abbots I.)	22·0	0	SW	3	c	52	75	43	8	7	7	–	4-6	10	2000
	Eskdalemuir ...	23·6	0	SSW	3	c-bc	50	75	42	7	8	7	–	7-8	7-8	1500
	Point of Ayre ...	24·6	+2	SW'W	4	b	57	65	45	8	1	–	1	Tr	1	3000
13A	Tiree ...	17·0	–6	SW'S	6	dodo	52	92	50	7	–	2	–	10	10	1500
13B	Stornoway ...	10·0	–18	SSW	8	rorô	50	97	50	5	6	2	–	9+	10	500
15	Dalwhinnie ...	18·0	–4	SSW	5	c	47	85	41	8	5	–	6	4-6	9+	1500
	Aberdeen ...	19·8	–8	SSW	3	c/p	48	85	43	6	5	7	7	4-6	10	7200
	Wick ...	16·2	–14	S	4	c/p	49	92	47	8	–	7	–	0	9+	–
16	Sumburgh ...	16·0	–8	S	4	iô	49	85	43	8	6	2	–	2-3	10	1500
17	Blacksod Point	19·8	+2	SW'S	7	rorô	55	97	54	6	6	2	–	4-6	10	800
18	Malin Head ...	18·2	–2	S	5	c	53	85	49	8	5	1	–	4-6	9+	1500
	Aldergrove ...	23·0	–2	S'W	4	c	51	75	44	8	5	7	1	4-6	9	4000
19	Birr Castle ...	24·6	+6	SSW	2	c	54	75	47	8	5	1	–	7-8	9	2500
20	Valentia Obsy.	25·7	+6	S'W	4	dodo	54	97	53	7	5	–	–	10	10	900
	Roches Point	26·9	+6	SW	3	c	55	85	51	8	5	–	–	9	9	1500

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

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)	31·4	+18	W	1	Zo	49	85	44	5	5	3	–	4-6	4-6	4000	1	*
	Croydon ...	31·4	+18	W	1	cf+	48	65	38	2	5	–	–	9+	9+	3000	0	*
	S. Farnborough	31·6	+6	W'S	2	Zo	47	85	42	6	5	3	–	2-3	4-6	3000	0	*
	Boscombe Down	30·9	+10	–	0	c	48	85	43	7	–	3	–	0	9	–	0	*
	Thorney Island	31·1	+6	W'N	1	m	49	85	44	4	5	3	–	4-6	9	1800	1	*
	Lympne ...	31·6	+20	NW	1	Zo	45	85	41	5	–	–	–	0	0	–	1	§1
	Manston ...	31·3	+14	W'S	1	m	46	85	42	4	–	–	5	0	4-6	–	0	*
2	Shoeburyness ...	31·1	+16	–	0	m	45	85	42	4	–	4	–	0	1	–	2	*
	Felixstowe ...	30·1	+6	–	0	Zo	47	85	44	5	–	–	1	0	Tr	–	0	2
	Gorleston ...	29·3	+14	NW'W	1	Zo	48	85	44	5	–	7	–	0	2-3	–	0	2
	Mildenhall ...	30·7	+14	SW'W	2	m	47	85	42	4	–	4	–	0	Tr	–	0	*
	Cranwell ...	29·8	+20	SSE	1	m	45	92	42	4	–	3	–	0	7-8	–	0	*
3	Birmingham ...	30·3	+16	SSW	2	Zo	49	85	45	6	5	–	–	9+	9+	4000	1	*
	Upper Heyford	31·0	+14	SW	1	Zo	47	85	42	6	5	5	–	2-3	9+	3400	0	*
4	Ross-on-Wye	30·1	+16	W'S	1	Zo	49	85	46	6	5	–	–	7-8	7-8	3000	1	*
5	Hartland Point	30·1	+10	WSW	3	c	53	75	46	8	7	6	–	7-8	9	2500	1	3
	Bristol ...	31·1	+14	S	1	Zo	49	85	44	6	5	7	–	7-8	9+	4000	1	*
	Portland Bill ...	31·0	+10	N	2	c	55	92	52	8	5	–	–	10	10	4000	1	4
	Plymouth ...	31·6	+10	W'S	1	c	52	75	43	7	5	3	–	7-8	9	3000	0	2
	The Lizard ...	30·5	+8	N	2	c	52	75	42	8	5	–	–	9+	9+	1500	0	3
	Scilly (St. Mary's)	30·5	+6	SW'W	2	c	53	75	46	8	5	–	–	9+	9+	1500	1	2
	Guernsey ...																	
6	Pembroke ...	30·9	+6	WNW	4	c	54	75	45	8	8	–	–	9+	9+	1800	0	3
7	Holyhead (Valley)	27·9	+8	SW'S	5	c	54	75	47	8	5	7	1	4-6	9	2500	1	3
	Chester (Sealand)	28·9	+14	SW'S	1	Zo	47	85	42	5	–	4	6	0	Tr	–	0	*
8	Manchester ...	28·8	+12	S	3	Zo	48	85	43	6	5	3	–	2-3	2-3	3000	1	*
10	Spurn Head ...	29·2	+12	SW	4	Zo	49	75	41	5	7	3	–	2-3	4-6	2500	1	
	Catterick (Sc) ...	27·3	+8	S	1	bc	47	85	44	8	8	3	–	4-6	4-6	3000	0	*
	Tynemouth ...	24·7	+8	S'E	4	c	48	92	45	8	5	–	–	0	4-6	–	0	2
11	St. Abbs Head	20·9	+8	SW	6	bc	50	75	41	7	4	4	–	4-6	4-6	4000	0	4
	Leuchars ...	20·8	0	WSW	5	Zo	52	85	47	6	5	7	–	9+	10	2200	1	*
12	Renfrew (Abbots I.)	22·1	+10	SSW	5	c/d	53	85	47	6	5	7	–	9	10	2000	1	*
	Eskdalemuir ...	24·7	+8	S'E	4	c	48	92	45	8	5	–	–	10	10	1500	1	*
	Point of Ayre ...	25·3	+4	WSW	4	c	53	75	47	8	5	7	–	1	9+	2000	0	3
13A	Tiree ...	18·2	+12	SW'S	5	dodo	54	97	53	6	6	–	–	10	10	400	1	
13B	Stornoway ...	11·4	+22	SW	7	Zo	55	92	53	6	5	3	–	4-6	9	1000	2	5
15	Dalwhinnie ...	18·5	+2	SSW	5	pr	48	92	46	6	5	–	–	10	10	1500	1	*
	Aberdeen ...	17·2	–14	SSW	4	c	50	75	43	7	5	7	–	Tr	9+	2500	1	3
	Wick ...	13·8	–2	SSW	4	c-bc	50	92	48	8	5	7	–	4-6	7-8	2500	1	*
16	Sumburgh ...	11·8	–22	S'W	6	rorô	48	97	48	6	5	2	–	9	10	1000	1	3
17	Blacksod Point	21·7	+14	SSW	6	idô	55	97	54	7	6	2	–	4-6	10	800	1	5
18	Malin Head ...	19·9	+16	S	5	iô	54	92	52	8	5	2	–	2-3	7-8	1500	2	4
	Aldergrove ...	24·0	+14	S'W	2	c	52	85	48	8	5	2	–	9+	10	2500	1	*
19	Birr Castle ...	25·8	+6	SSW	2	c	54	85	50	8	5	–	–	9	9	2500	1	*
20	Valentia Obsy.	26·8	+12	S'W	4	c	54	92	52	7	5	–	–	10	10	700		3
	Roches Point	27·9	+10	SW'W	2	c	54	92	52	8	5	–	–	10	10	1500	1	3

PAST 24 HOURS.

District	Stations	Weather 7h.–13h. 9th (39)	Weather 13h.–18h. 9th (40)	Weather 18h. 9th to 1h. 10th (41)	Weather 1h.–7h. 10th (42)
1	London (Kew)	cfbcb	czbcmow	cmfbcm	bcmf Fx
	Croydon ...	cfcmbmo	bczbcm	cfbmo	bcmwbcmo
	S. Farnborough	cbcmob	bbcyc	bmcFcbcf	bcf
	Boscombe Down	cmob	cyc	cmobcmobmfg	bcmwocfmo
	Thorney Island	cmobc	bbcmo	bmbcm	bcmcmw
	Lympne ...	bcmcm	cmbbczo	cmobmowbmw	bmwmwomg
	Manston ...	cmo	cmozcm	cmbcmw	bcmowz
2	Shoeburyness ...	cmobczo	bczmo	bcmf	bcfmx
	Felixstowe ...	bcmobzo	bzobmo	bcfofc	bmbccx
	Gorleston ...	cbcmzo	cbczo	bzow	cbczo
	Mildenhall ...	bcfmbzo	bczocmo	bmbcmbm	bcmbcmo
	Cranwell ...	cmo	cmo bcm	bcmo	bmocz
3	Birmingham ...	cz	cz	cbm	bmcz
	Upper Heyford	bccmo	ccmo	cmobmo	bcmow
4	Ross-on-Wye	ccfcz	c	cmbcifb	bwbc
5	Hartland Point	c	c	cbc	cbc
	Bristol ...	cmowczoc	cczocmo	ccw W	cwvzow
	Portland Bill ...	ccmo	c	cmo	c
	Plymouth ...	c	c	c	o
	The Lizard ...	c	c	cmowbczw	cbcc
	Scilly (St. Mary's)	c	c	c	cbcc
	Guernsey ...				
6	Pembroke ...	c	c	cq	cq
7	Holyhead (Valley)	cbcy	c	cifo	c
	Chester (Sealand)	cmo	cbczomo	bbccmo	cbcmo
8	Manchester ...	cmo	czomo	bccmo	cmo
10	Spurn Head ...	cmo	bcmo	bcmo	cmo
	Catterick (Sc) ...	bcfbcc	bc	cbccifo	ccmo
	Tynemouth ...	bcf cmo	bcmo	bcmo	bcmo
11	St. Abbs Head	cbcc	cbc	bcc	c
	Leuchars ...	cmo	cmoccmo	cmoc	c
12	Renfrew (Abbots I.)	bccmoc	ccmo	cdodomcmo	cmo
	Eskdalemuir ...	mobcfc	c	cirwb	cifow
	Point of Ayre ...	b	bbcc	c	c
13A	Tiree ...	cfôccdo	cdomo	cdomfcdo	cdomoc
13B	Stornoway ...	cdoorrmocfôdocmo	cidomfbcc	errmo	
15	Dalwhinnie ...	oc	crro	oirdc	
	Aberdeen ...	ccifô	cifô mocq	c	c
	Wick ...	cifôerro	ccfôcifôc	c	bcc
16	Sumburgh ...	cifô	cmofôro	cmordoc	cmoidoc
17	Blacksod Point	r	d	d	d
18	Malin Head ...	c	r	r	c
	Aldergrove ...	cbcc	cbcc	c	cidoc
19	Birr Castle ...	c	c	c	c
20	Valentia Obsy.	r	d	d	r
	Roches Point	pr	c	d	d

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

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands 5 S.W. England South Wales	Moderate southwest wind fresh locally; mainly fair; 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 ✦	Fresh southwest wind strong to gale locally decreasing later; cloudy; occasional rain; mild.
13A W. Scotland ... ✦ 13B N.W. Scotland ✦ 14 Mid Scotland ✦ 15 N.E. Scotland ✦	Fresh or strong southwest wind, gale at exposed places, severe locally, decreasing later; rain at first; bright intervals and local showers later; mild becoming colder.
16 Orkneys and Shetlands ✦	As 13A - 15
17 N. W. Ireland ✦ 18 N. E. Ireland ✦ 19 S. E. Ireland 20 S. W. Ireland	As 7-12.

GENERAL INFERENCE

A deep depression off northwest Scotland is moving northeast. There will be southwest gales and rain in the North but weather will be fair in the South.

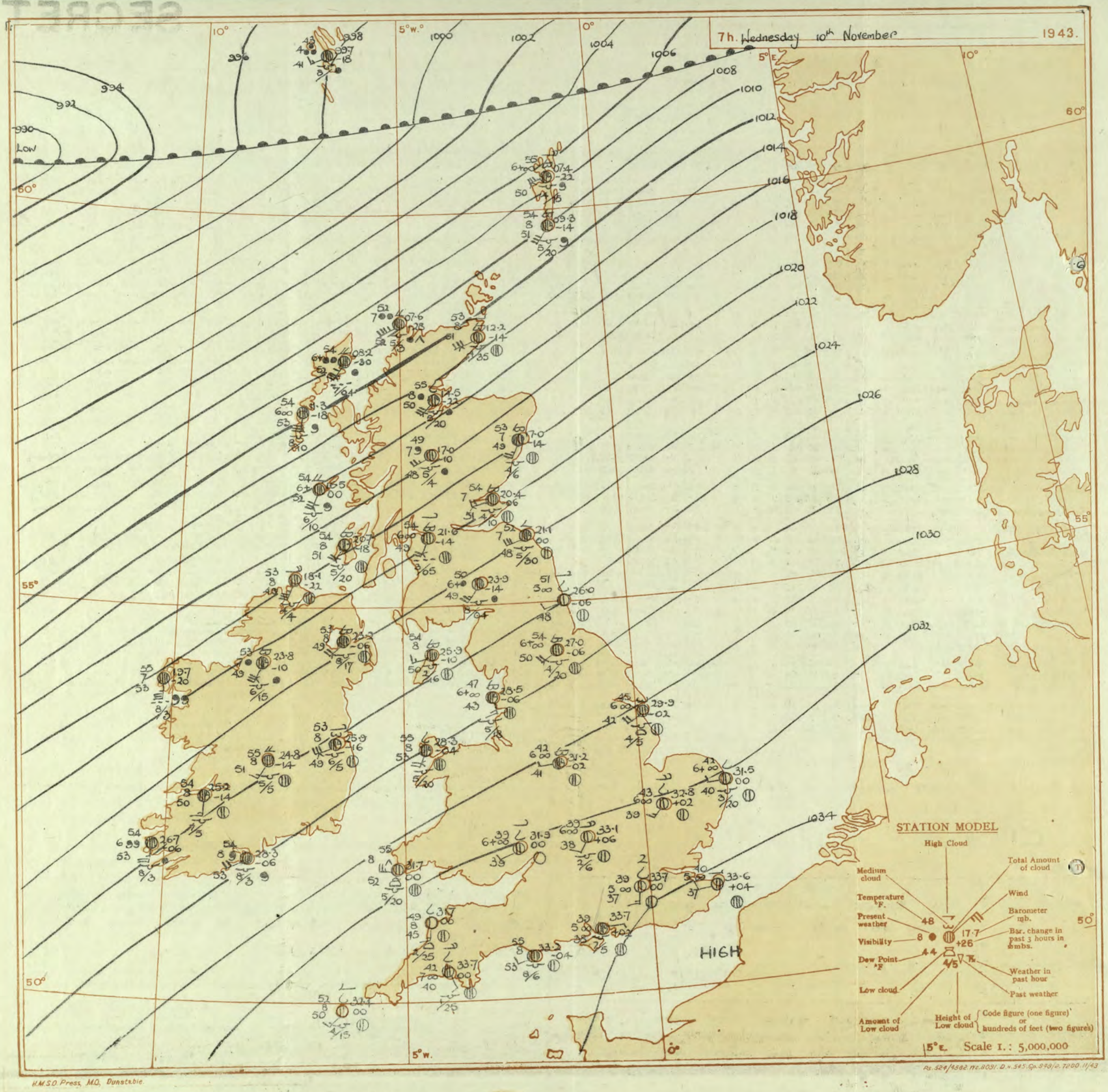
FURTHER OUTLOOK

Showers in the North. Cloudy in the South with perhaps local rain.

✦ Warning of Southerly gale in operation in districts 7 to 18 inclusive. Times of issue 1015h on 9th, 0745 and 1015h on 10th.

Forecasts issued at 1030

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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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.

Wednesday 10th November 1943

No. 29938

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

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	33·7	+2	SW	2	z0	40	92	38	5	-	-	2	0	2-3	-
	S. Farnborough	226	33·6	0	-	0	b-bcf	40	97	39	2	-	4	-	0	2-3	-
	Boscombe Down	417	33·7	+8	-	0	fg	43	92	41	5	-	3	5	0	2-3	-
	Thorney Island	10	33·7	+4	-	0	m	36	97	36	4	-	-	6	0	4-6	-
	Lympne	283	34·0	+4	NNW	2	m	42	97	42	4	-	-	1	0	2-3	-
	Manston	154	33·5	+2	W	1	m	42	85	39	4	-	-	5	0	7-8	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	33·1	+2	W'N	1	bf+	45	97	43	3	-	-	-	0	0	-
	Gorleston	5	31·7	+2	WSW	2	z0	44	75	38	5	-	-	-	0	0	-
	Mildenhall	15	32·8	+6	SSW	2	m	41	92	38	4	-	-	2	0	2-3	-
	Cranwell	203	31·4	0	SW	2	z0	40	97	39	6	-	-	6	0	7-8	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	33·2	+6	SW	1	z0	42	92	40	5	5	-	-	4-6	4-6	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	32·4	+2	SSE	3	b-bc	47	85	43	8	-	-	2	0	2-3	-
	Bristol	209	33·2	+6	SW	2	c	47	75	40	7	-	3	6	0	9	-
	Portland Bill	32	32·8	+6	NW	2	c	53	92	47	8	5	-	-	10	10	4000
	Plymouth	86	33·9	+4	SSE	1	z0	44	92	42	6	5	4	2	2-3	4-6	3500
	The Lizard	240	32·8	+4	S	3	c	52	75	45	8	4	-	-	9+	9+	2000
	Scilly (St. Mary's)	163	32·8	+8	S'W	3	c-bc	53	92	50	8	5	3	-	4-6	7-8	1500
	Guernsey	175															
6	Pembroke	142	31·7	+6	WNW	4	cq	55	75	48	8	5	-	-	9+	9+	2500
7	Holyhead (Valley)	32	30·0	+4	S'W	4	ir0	54	92	52	7	5	7	-	4-6	10	1800
	Chester (Sealand)	16	29·9	-2	S'E	1	z0	44	92	42	6	-	3	-	0	9+	-
8	Manchester	230	30·4	0	S	3	z0	44	92	42	6	-	3	5	0	9	-
10	Spurn Head	29	30·9	0	SW	4	z0	46	85	42	6	7	3	-	4-6	4-6	2500
	Catterick (Sc)	192	28·0	0	SSW	4	c-bc/r	51	85	47	7	5	6	-	1	7-8	5000
	Tynemouth	108	27·0	+4	W	1	z0	51	85	47	6	2	3	1	4-6	4-6	2500
11	St. Abbs Head	280	22·4	+8	SW	6	c	52	85	48	7	5	2	-	7-8	9+	2500
	Leuchars	36	21·4	-8	WSW	6	c-bc	53	97	52	7	5	7	9	4-6	7-8	1000
12	Renfrew (Abbots I.)	19	21·2	+2	SSW	4	z0	54	85	51	6	5	2	-	4-6	10	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	27·1	+4	W	5	c	54	85	49	8	4	4	6	1	9+	1800
13A	Tiree	44	20·1	0	SSW	5	d0d0	54	97	53	6	5	-	-	10	10	800
13B	Stornoway	12	13·4	+2	SSW	6	r.	55	85	51	7	5	-	-	9+	9+	2200
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	18·9	+6	SW	2	c	52	85	48	9	5	7	9	1	9+	3000
	Wick	114	15·0	-2	SW'S	4	bc	54	85	50	8	5	7	-	1	4-6	3500
16	Sumburgh	19	12·0	-2	SSW	3	id0	53	97	53	6	5	2	-	9	10	1000
17	Blacksod Point	18	23·0	+2	S'W	6	dd	54	97	54	6	6	2	-	2-3	10	800
18	Malin Head	84	21·8	-2	S	5	c-bc	55	85	53	8	8	5	-	4-6	7-8	1500
	Aldergrove	268	25·6	+4	SSW	3	c	53	85	50	8	5	-	-	9+	10	1300
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	27·6	-6	S	5	d0d0	54	97	54	6	5	-	-	10	10	900
	Roches Point	22	29·9	+6	SW'W	3	id0	54	97	54	7	5	-	-	10	10	800

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

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)	33·9	+2	-	0	bcF+	35	97	35	0	5	4	2	Tr	4-6	4000	1	*
Croydon	33·7	0	S'W	3	z0	39	92	37	5	-	4	6	0	4-6	-	0	*
S. Farnborough	33·8	0	S'W	1	c-bc/F	34	92	32	2	-	4	6	0	7-8	-	0	*
Boscombe Down	33·6	+6	SSE	1	fg	47	97	47	6	-	7	5	0	4-6	-	0	*
Thorney Island	33·7	+2	E'N	1	z0	39	97	38	5	5	-	-	9+	9+	2500	1	*
Lympne	34·4	+2	NW	1	z0	41	92	39	6	-	-	6	0	4-6	-	1	§ 1
Manston	33·6	+4	WSW	2	z0	40	85	37	5	-	-	8	0	4-6	-	1	*
Shoeburyness	33·5	0	WSW	2	mf+	38	97	37	4	-	4	-	0	2-3	-	1	*
Felixstowe	33·4	+4	SW'W	1	bcf+	40	97	39	3	-	-	5	0	4-6	-	0	1
Gorleston	31·5	0	WSW	2	z0	42	92	40	6	5	4	-	2-3	4-6	2000	0	2
Mildenhall	32·8	+2	SSW	3	z0	43	85	39	6	-	4	2	Tr	4-6	4000	0	*
Cranwell	30·4	-4	WSW	3	z0	44	92	42	6	-	7	-	0	7-8	-	1	*
Birmingham	31·4	-2	SSW	2	z0	45	92	43	6	5	-	6	9	9+	2500	1	*
Upper Heyford	33·1	+6	SSW	2	z0	39	97	38	6	5	-	2	1	4-6	4000	0	*
Ross-on-Wye	31·9	0	SW'W	1	z0	39	97	39	6	-	4	1	0	4-6	-	1	*
Hartland Point	31·7	0	S	3	b-bc	48	85	45	8	1	4	-	1	2-3	2500	0	3
Bristol	32·8	0	-	0	z0	42	85	39	6	-	4	8	0	4-6	-	1	*
Portland Bill	33·2	-4	SW	2	c	55	92	53	8	5	-	-	10	10	4000	1	3
Plymouth	33·7	0	SE	1	z0	42	97	40	7	5	4	2	Tr	7-8	2500	0	1
The Lizard	32·7	0	SW	3	bc	51	92	49	8	7	4	-	2-3	4-6	2500	0	3
Scilly (St. Mary's)	32·4	0	SW'S	3	bc	52	92	50	8	5	4	5	4-6	4-6	1500	1	3
Guernsey																	
Pembroke	31·7	0	W	5	c-bcq	55	92	52	8	8	-	-	7-8	7-8	2000	0	4
Holyhead (Valley)	28·3	-4	SSW	4	c	55	92	53	8	5	4	-	7-8	9+	2000	1	3
Chester (Sealand)	28·9	-6	S'W	2	z0	46	92	44	5	5	4	-	2-3	4-6	2500	0	*
Manchester	29·4	-6	S	3	c	45	85	41	7	5	4	6	1	9	3000	1	*
Spurn Head	29·9	-2	SW'S	4	z0	45	92	42	6	7	3	-	4-6	7-8	2500	0	2
Catterick (Sc)	27·0	-6	SW	4	z0	54	85	50	6	5	7	-	4-6	7-8	2000	0	*
Tynemouth	26·0	-6	SW	1	z0	51	85	48	5	-	4	1	0	4-6	-	1	2
St. Abbs Head	21·1	0	SW	6	c	52	85	48	7	5	1	-	7-8	9+	3000	0	4
Leuchars	20·4	-6	WSW	4	c	54	92	51	7	5	7	-	4-6	10	1000	1	*
Renfrew (Abbots I.)	21·6	-14	SSW	4	z0	54	85	49	6	6	7	1	2-3	7-8	500	1	*
Eskdalemuir	23·9	-14	SSW	5	ir0	50	97	49	6	5	-	-	10	10	400	1	*
Point of Ayre	25·9	-10	SW'W	3	c	54	85	50	8	5	7	-	1	10	1600	0	3
Tiree	16·5	0	SSW	6	c/d	54	92	52	6	5	2	-	9	10	1000	1	4
Stornoway	18·2	-30	SSW	8	r0r0	54	92	52	6	6	2	-	9+	10	400	1	6
Dalwhinnie	17·0	-10	SW	5	id0	49	92	48	7	5	-	-	7-8	7-8	1500	1	*
Aberdeen †	17·0	-14	SSW	5	c	53	85	49	7	5	7	-	4-6	10	4000	1	3
Wick	12·2	-14	SW	6	c-bc	53	92	51	8	6	7	8	4-6	7-8	3500	1	*
Sumburgh	09·3	-14	SSW	6	c	54	85	51	8	5	7	-	7-8	9+	2000	1	3
Blacksod Point	19·7	-20	S	7	o/d	55	92	53	7	6	-	-	10	10	800	1	
Malin Head	18·1	-22	S'W	7	c-bc	53	85	49	8	5	-	2	4-6	7-8	1500	2	5
Aldergrove	23·2	-6	SW'S	4	c	53	85	49	8	5	7	-	10	10	1700	1	*
Birr Castle	24·8	-14	SSW	3	c	55	85	51	8	5	2	-	7-8	10	2500	1	*
Valentia Obsy.	26·7	-6	S'W	5	d0d0	54	97	53	6	5	-	-	10	10	800	1	4
Roches Point	28·3	-6	SW	4	id0	54	97	53	8	5	-	-	10	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 9th Hrs. (38)
London (Kew)	53	34	26	-	Tr	3·5
Croydon	55	38	33	-	Tr	3·9
S. Farnborough	57	33	26	-	-	4·6
Boscombe Down	55	37	31	-	Tr	1·0
Thorney Island	59	33	29	1	-	*
Lympne	55	37	32	-	-	1·9
Manston	53	40	34	-	-	2·5
Shoeburyness	54	35	30	-	-	3·4
Felixstowe	56	39	30	-	-	5·6
Gorleston	56	42	34	-	-	5·4
Mildenhall	55	37	30	Tr	-	2·5
Cranwell	54	39	32	0·1	-	1·9
Birmingham	52	43	35	-	-	0·1
Upper Heyford	53	39	33	-	-	*
Ross-on-Wye	52	37	29	-	-	0·0
Hartland Point	53	47	44	-	-	0·0
Bristol	53	42	32	-	Tr	0·0
Portland Bill	54	51	*	-	-	*
Plymouth	55	41	34	-	-	0·0
The Lizard	54	50	*	-	-	0·0
Scilly (St. Mary's)	55	51	*	Tr	-	0·0
Guernsey						
Pembroke	55	52		-	-	0·1
Holyhead (Valley)	57	53	50	-	Tr	*
Chester (Sealand)	55	43	35	-	-	1·1
Manchester	54	42	37	-	-	*
Spurn Head	52	44	*	Tr	-	0·9
Catterick (Sc)	53	47	40	-	-	2·7
Tynemouth	54	48	43	-	-	*
St. Abbs Head	52	48	*	-	-	*
Leuchars	52	54	37	-	-	0·0
Renfrew (Abbots I.)	54	52	47	Tr	0·4	1·9
Eskdalemuir	51	48	47	-	2	2·1
Point of Ayre	57	52	*	-	-	5·3
Tiree	54	53	37	0·4	0·4	0·0
Stornoway	55	53	52	5	0·4	0·0
Dalwhinnie	48	47	46	7	3	0·0
Aberdeen †	50	49	43	0·4	-	0·1
Wick	51	49	47	1	-	*
Sumburgh	50	48	48	2	0·4	0·1
Blacksod Point	56	53	*	3	4	*
Malin Head	54	52		1	0·1	0·0
Aldergrove	52	51	50	-	Tr	3·8
Birr Castle	56	52	47	-	-	1·1
Valentia Obsy.	55	53	51	0·2	-	0·0
Roches Point	56	54	*	0·1	0·1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

IIl	13h. G.M.T. 9th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 10th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	5-	62658	15568	5-	51658	51668	57	02764	53567	57	21754	20655
115	52	62744	20367	52	62735	87768	52	63635	87768	52	62735	87868
203												
206	57	02964	52927	52	62846	53668	57	22855	51567	54	61855	51667
210	57	02965	16367	57	02864	20366						
219	62	52626	19658	5-	52628	19758	52	02756	18628	5-	05648	50658
230	62	54644	18368	62	54537	18368	5-	51648	18368	02	52648	18458
245	57	05662	19228	57	05654	20527	57	02754	20427	59	02753	53628
260	57	02763	20325	57	05644	23326						
276												
279	57	02863	20327	57	02855	53527	52	22645	18368	52	51646	51668
285	23	02744	26516									
288	53	05665	16417	54	01861	18414	03	05690	16416	59	02854	19417
575	87	25844	49588	52	22736	49468	52	03845	18268	57	61746	51667
301	7-	02767	17327	53	01763	20325	53	05673	16225	57	05645	14327
321	5-	01765	22145	53	05562	·8·214				07	05590	17215
290	5-	05547	22327	5-	05548	22328	53	05554	22414	40	05545	22315
292	5-	43367	18147	00	08490	16323	57	45363	16147	59	05642	18245
310				20	016·6	24316				20	16625	24415
614	53	08483	26125	53	47372	23247	03	43390	20245	53	08451	22214

IIl	13h. G.M.T. 9th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 10th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	53	02864	20226	5-	02857	18327	52	02763	18428	54	05635	18456
334	--	02743	26315	--	01753	28114						
340	5-	02668	20328	54	04753	18226	03	02890	18217	57	02846	18327
136	03	05590	22212	00	05590	20101	00	05690	20214	07	05690	20315
336	53	02754	20227	53	01754	20315				57	02754	20328
350	53	01752	22213	03	05690	18114	01	05590	18114	07	05690	20215
368	5-	22844	24368	57	02855	22127	50	01662	22124	50	01862	24224
379	5-	02766	20126	5-	05567	22227	33	05664	20317	07	02790	18415
390	10	05663	28224	07	04590	00013	00	08490	00010	--	46309	16249
382	53	02864	28225	56	05665	00026	53	05663	00024	54	04761	00014
438	53	05553	32214	00	05690	32110	50	05653	32103	54	01762	18113
430	13	01852	32113	03	17590	30114	00	05690	00015			
409	57	02966	17327	5-	02967	17127	04	01890	14213	44	01852	15313

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 November
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	cfbcb	cz0bcmzw	cmfbcmfx
Croydon	cfcmbm0	bcz0bcm	cfbcmzw
Greenwich	cff	cff	cfbmxf
Camden Square	c	c	*
Kensington	bcmbc	bcbc	*
Hampstead	bc	bc	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. 1·2 Time 20-21h 9th
Min. 0·1 Time 14-16h 9th

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	53	34	26	-	Tr	3·5	*	*
Croydon	55	38	33	-	Tr	3·9	*	*
Greenwich	49	35	25	-	-	0·0	86	91
Westminster	55	36	32	·	-		71	84
Regents Park	54	37	25	-	-		64	96
Camden Square	54	36	28	-	-	*	*	95
Kensington	56	32	26	-	Tr		77	93
Hampstead	54	40	32	-	-		*	81

SECRET

Page 1 BRITISH SECTION

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

Thursday 11th November 1943

No 29939

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

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)	30·6	-24	SW	4	Zo	52	75	43	6	7	3	-	7-8	7-8	4000
	Croydon	31·5	-20	WSW	4	Zo	55	65	44	6	5	-	5	4-6	9	3000
	S. Farnborough	31·3	-16	SW	4	c	54	75	46	8	7	7	-	9	9	3000
	Boscombe Down	30·9	-22	SW	4	c	53	85	45	7	5	-	-	9+	9+	2500
	Thorney Island	31·5	-22	SW'S	3	c	55	85	49	8	5	-	-	9+	9+	4000
	Lympne	32·1	-26	WSW	3	Zo	54	75	45	6	5	-	9	4-6	4-6	3500
	Manston	31·7	-22	WSW	3	Zo	54	55	40	6	5	-	1	Tr	1	3800
2	Shoeburyness	31·3	-20	SSW	3	Zo	57	65	45	6	-	4	1	0	4-6	-
	Felixstowe	30·7	-26	SW	4	Zo	55	65	42	5	-	-	5	0	7-8	-
	Gorleston	29·1	-30	SW	4	Zo	53	85	50	6	-	7	2	0	7-8	-
	Mildenhall	29·2	-26	SW'S	4	Zo	54	65	42	6	-	3	1	0	4-6	-
	Cranwell	27·0	-26	SW	6	bc	53	75	46	7	5	-	-	4-6	4-6	1500
3	Birmingham	27·2	-28	SW	4	bc	53	75	46	7	5	5	-	2-3	4-6	1500
	Upper Heyford	29·8	-22	SW	4	bc	55	65	44	7	1	4	9	2-3	4-6	2500
4	Ross-on-Wye	28·7	-28	SW	4	cbc	56	75	45	8	4	4	-	4-6	7-8	3500
5	Hartland Point	29·2	-22	WSW	4	c	54	92	52	8	5	-	-	9	9	2000
	Bristol	30·6	-22	WSW	4	b.bc	55	65	45	8	7	4	-	1	2-3	4000
	Portland Bill	31·6	-18	WSW	3	c-bc	56	85	52	8	2	-	-	7-8	7-8	4000
	Plymouth	32·3	-14	SW'S	4	c	55	75	48	7	5	-	-	10	10	2500
	The Lizard	31·9	-10	SW	4	c	55	92	53	7	5	2	-	9	10	1500
	Scilly (St. Mary's)	31·6	-12	SW'S	4	c	57	92	55	8	5	-	-	10	10	1500
	Guernsey															
6	Pembroke	28·2	-14	WNW	6	dd	55	85	51	6	8	2	-	7-8	9+	1500
7	Holyhead (Valley)	24·6	-26	SSW	8	ido	55	97	55	7	5	-	-	10	10	1500
	Chester (Sealand)	25·7	-22	SW	4	c	57	75	48	8	5	4	-	4-6	9	2000
8	Manchester	25·3	-30	SW'S	5	Zo	57	75	48	6	4	4	-	2-3	9	2500
10	Spurn Head	26·0	-28	SW	5	Zo	52	75	42	6	7	3	-	7-8	7-8	1400
	Catterick (Sc)	22·7	-26	SSW	5	Zo	55	85	50	6	5	3	-	7-8	9+	1300
	Tynemouth	20·2	-36	SW	6	cbc	56	75	46	7	2	3	1	4-6	7-8	2400
11	St. Abbs Head	14·1	-42	SW	7	c	55	75	48	8	5	6	-	7-8	9+	2000
	Leuchars	13·7	-46	SW	6	c	55	85	49	7	5	8	-	7-8	9+	2000
12	Renfrew (Abbots I.)	14·1	-50	SSW	6	%r	55	85	49	8	5	-	-	2-3	10	1500
	Eskdalemuir	17·7	-46	SW'S	7	roro	51	92	49	6	-	2	-	10	10	400
	Point of Ayre	20·5	-34	WSW	6	c	58	85	51	8	5	7	-	4-6	9+	1600
13A	Tiree	08·2	-50	SSW	7	rr	53	97	53	6	6	-	-	10	10	300
13B	Stornoway	03·9	-4	WNW	6	rr	46	97	46	5	6	2	-	7-8	10	500
15	Dalwhinnie	09·5	-58	SW	6	iro	51	85	46	6	5	2	-	9	10	1500
	Aberdeen	11·9	-26	WSW	3	c	56	75	47	8	5	7	9	7-8	9+	1500
	Wick	04·5	-56	SSW	7	c	57	85	52	8	5	4	-	7-8	9+	2500
16	Sumburgh	02·0	-46	SSW	6	c	53	85	50	8	5	7	-	1	9+	3000
17	Blacksod Point	20·8	-42	W'N	6	%r	50	85	46	8	6	-	-	9+	9+	1500
18	Malin Head	11·4	-36	SSW	7	rr	55	85	51	6	-	2	-	10	10	800
	Aldergrove	17·1	-38	SSW	5	c	56	85	51	8	5	7	-	9+	10	1500
19	Birr Castle	21·8	-24	SSW	3	c	57	85	53	8	5	2	-	7-8	10	2500
20	Valentia Obsy.	24·7	-16	SW'S	6	dr	56	92	54	6	5	-	-	10	10	800
	Roches Point	26·6	-12	SSW	4	id	55	97	54	6	5	-	-	10	10	450

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

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)	27·6	-14	SW	3	Zo	51	75	45	6	5	-	-	10	10	2500	1	*
Croydon	28·3	-14	SSW	4	Zo	52	75	44	5	5	-	-	9+	9+	3000	0	*
S. Farnborough	28·5	-10	SW'W	3	c	52	75	45	7	5	7	-	9	9+	2800	0	*
Boscombe Down	28·2	-14	SW'S	4	c	51	85	46	7	5	2	-	9+	10	2900	0	*
Thorney Island	29·0	-14	SW'W	3	c	53	85	47	7	5	-	-	9+	9+	3200	1	*
Lympne	29·4	-10	WSW	4	c	49	75	43	7	5	-	-	9+	9+	2600	0	4
Manston	28·7	-14	SW	3	Zo	48	75	41	6	5	-	-	7-8	7-8	2500	1	*
Shoeburyness	28·2	-12	SSW	4	Zo	53	75	46	6	5	-	-	7-8	7-8	2500	0	*
Felixstowe	27·6	-12	SW	4	Zo	51	85	46	6	5	7	-	7-8	9	3300	0	4
Gorleston	25·8	-14	WSW	4	Zo	50	65	40	6	-	7	-	0	4-6	-	0	3
Mildenhall	25·6	-18	SW'S	4	c	51	75	45	8	5	3	-	7-8	9+	4000	0	*
Cranwell	21·6	-36	SW	7	Zo	51	85	46	6	5	5	-	2-3	9+	2000	0	*
Birmingham	23·9	-26	SSW	4	c	52	85	48	7	5	-	-	10	10	1500	1	*
Upper Heyford	26·7	-16	SSW	4	c	51	85	45	7	5	7	-	9	9+	2100	0	*
Ross-on-Wye	25·3	-20	SW	4	c	53	92	50	8	5	7	-	9+	10	2500	1	*
Hartland Point	26·8	-12	WSW	4	%r	55	97	54	7	3	6	-	4-6	9+	1500	1	4
Bristol	27·5	-20	SSW	4	dodo	53	85	47	6	5	2	-	4-6	10	800	1	*
Portland Bill	28·6	-14	WSW	4	o	54	92	52	7	5	-	-	10	10	2500	1	4
Plymouth	29·3	-2	SW'W	5	Zo	56	85	51	6	5	-	-	10	10	2800	1	3
The Lizard	29·9	-10	W	4	c	55	85	51	8	5	-	3	10	10	1500	0	4
Scilly (St. Mary's)	30·1	-4	W	4	%r	54	97	53	7	5	7	-	9	10	1000	1	4
Guernsey																	
Pembroke	25·1	-12	NW'W	6	ido	55	97	55	7	8	-	-	10	10	2000	1	4
Holyhead (Valley)	23·4	+10	NW	6	iro	49	97	49	6	6	2	-	10	10	3800	1	5
Chester (Sealand)	21·7	-18	SW	3	c	57	75	50	7	5	7	-	7-8	10	1500	0	*
Manchester	21·0	-26	SW	5	c	54	85	49	7	2	-	-	9	9+	1800	1	*
Spurn Head	21·0	-26	S'W	6	Zo	51	75	45	6	7	7	-	4-6	7-8	1500	0	4
Catterick (Sc)	17·6	-24	SW	6	iro	53	97	52	6	5	7	-	4-6	9	2000	1	*
Tynemouth	15·1	-14	SW	8	cq	55	85	50	7	8	-	-	9+	9+	2500	0	3
St. Abbs Head	11·8	+8	W	6	%r	49	75	43	7	8	4	-	7-8	9	2500	1	5
Leuchars	12·2	+24	W	6	bc	49	85	44	9	7	3	-	2-3	4-6	1000	1	
Renfrew (Abbots I.)	16·2	+46	W	5	bs/r	45	75	39	7	3	-	3	4-6	4-6	2500	1	*
Eskdalemuir	16·3	+18	W	5	rr	45	85	42	6	6	2	-	7-8	10	700	1	*
Point of Ayre	13·4	+26	NW'N	6	b-bc	50	85	46	8	2	7	-	1	2-3	2000	1	4
Tiree	17·2	+22	WNW	5	bc/pr	46	75	39	8	2	-	-	4-6	4-6	2000	1	3
Stornoway	11·3	+38	WNW	5	bc/phr	42	85	38	8	8	-	-	4-6	4-6	1500	2	4
Dalwhinnie	13·0	+60	WNW	4	cbc/pr	49	92	46	8	8	-	-	7-8	7-8	2500	1	
Aberdeen	09·9	+20	WNW	5	b.bc	46	85	40	8	5	-	-	2-3	2-3	1500	1-	4
Wick	07·5	+52	WNW	6	cbc/r	43	92	41	7	5	6	-	4-6	7-8	2000	1	*
Sumburgh	01·4	+26	WNW	6	roro	45	92	42	6	5	2	-	9	10	1200	1	4
Blacksod Point	25·6	+30	WNW	5	c	48	75	41	8	8	-	5	7-8	9	1500	2	4
Malin Head	19·8	+36	NW	7	bc	47	75	40	8	8	-	-	4-6	4-6	1500	2	5
Aldergrove	22·0	+42	W	4	cbc	46	85	41	8	8	7	-	4-6	7-8	2000	1	*
Birr Castle	25·3	+26	NNW	3	c	47	85	42	8	8	7	-	7-8	9	1500	1	*
Valentia Obsy.	29·3	+22	W'N	3	c	50	75	42	8	4	-	3	1	9+	2500	1	4
Roches Point	26·6	+14	NNW	5	bc	51	92	49	8	5	-	5	4-6	4-6	1600	1	4

PAST 24 HOURS.

Stations	Weather 7h.—13h. 10th (39)	13h.—18h. 10th (40)	18h. 10th to 1h. 11th (41)	1h.—7h. 11th (42)
London (Kew)	bcFfczo	cmo	crorro	rocmo
Croydon	cbcmo	czo	cz moiro	cmororocmo
S. Farnborough	bcfbcmoc	cbcc	croRro mo	cromo bcc
Boscombe Down	bcmocmo	cbcc	cmocdodmo	romocbc
Thorney Island	cmcwcmowc	cw	cmororo	cmororocbc
Lympne	bczobzo	czoc	cido	crromoc
Manston	czobczoy	bczo	czmoiro	crorocmo
Shoeburyness	bcmo	bczoczo	cmorr	cmorrbc
Felixstowe	cbmobczo	bczoczo	ccroromo	cobcmo
Gorleston	czo	bczo	czopro	c
Mildenhall	bcmczobczo	bczo bc	cciroc	cbfc
Cranwell	cmoc	bcmocmo	cmocirmocmoc	bcbbcmo
Birmingham	cbc	bcc	ciR	cmf
Upper Heyford	bcmocmo	bcc	cdodroromc	iromobc
Ross-on-Wye	bccbbc	c	cpq roc	cbc
Hartland Point	bcc	ciro	idoiroc	cbc
Bristol	cmowcbc	bbcomodo	bmodocmodd	c
Portland Bill	c	co	orr	prrc
Plymouth	cmbcmoc	cmoc	crdomo	c
The Lizard	bcc	c	prrrc	b
Scilly (St. Mary's)	bcc	ciroc	cidrc	c
Guernsey				
Pembroke	croroidoq	cidoq	ciroq	qcbc
Holyhead (Valley)	cidoc	crrmo	cprc	cbc
Chester (Sealand)	bcmoc	c	croromo	bccbc
Manchester	cmozo	cbczoc	cmobc	cbccmo
Spurn Head	cmo	cmo	cmo	bc
Catterick (Sc)	c	cciroco	cbcb	bc
Tynemouth	bcmoc	cq	bcb	bc
St. Abbs Head	cbcc	roircq	cqbq	bq bcqcqbq
Leuchars	ciroc	cdoro mobcv	bcvb	bbw
Renfrew (Abbots I.)	bcmoidoiroc	crmoirobc	cpRpobc	bc
Eskdalemuir	ciroro	roRrr	crrbc	bc
Point of Ayre	c	cPHRq	cprb	bcPR
Tiree	ccrormo	ciro cproc	bccpro bcc	cprocprbc
Stornoway	croro crmo	crmoprph	bcprcphobcc	bccproc
Dalwhinnie	coir	orrc		coprc
Aberdeen	c	cqPRbc	bcb	bbc
Wick	c	croromocrors	cprnbcpro	cprobc
Sumburgh	c	crormo	cprohro	cbcpro
Blacksod Point	r	pr	c	c
Malin Head	r	pr	pr	pr
Aldergrove	c	cbcc	bcc	cwbcwcw
Birr Castle	c	pr		bc
Valentia Obsy.	d	r	pr	pr
Roches Point	d	r	bc	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 11th November 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	Light or moderate Northwest wind backing west to southwest, fair at first; occasional rain later; rather cold.
8 N.W. England; 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland; 12 S.W. Scotland & Isle of Man	Moderate west to northwest wind backing southwest fresh or strong locally veering northwest later, cloudy; occasional rain; rather cold.
13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Fresh southwest to west wind becoming strong to gale locally veering northwest; rain at first; bright intervals and wintry showers later; becoming cold.
16 Orkneys and Shetlands	As 13A-16
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	As 8-12.

GENERAL INFERENCE

A depression off Southeast Iceland is moving rapidy eastsoutheast. Rain in the North of the British Isles will spread southeast but weather will be fine at first in the South and Midlands

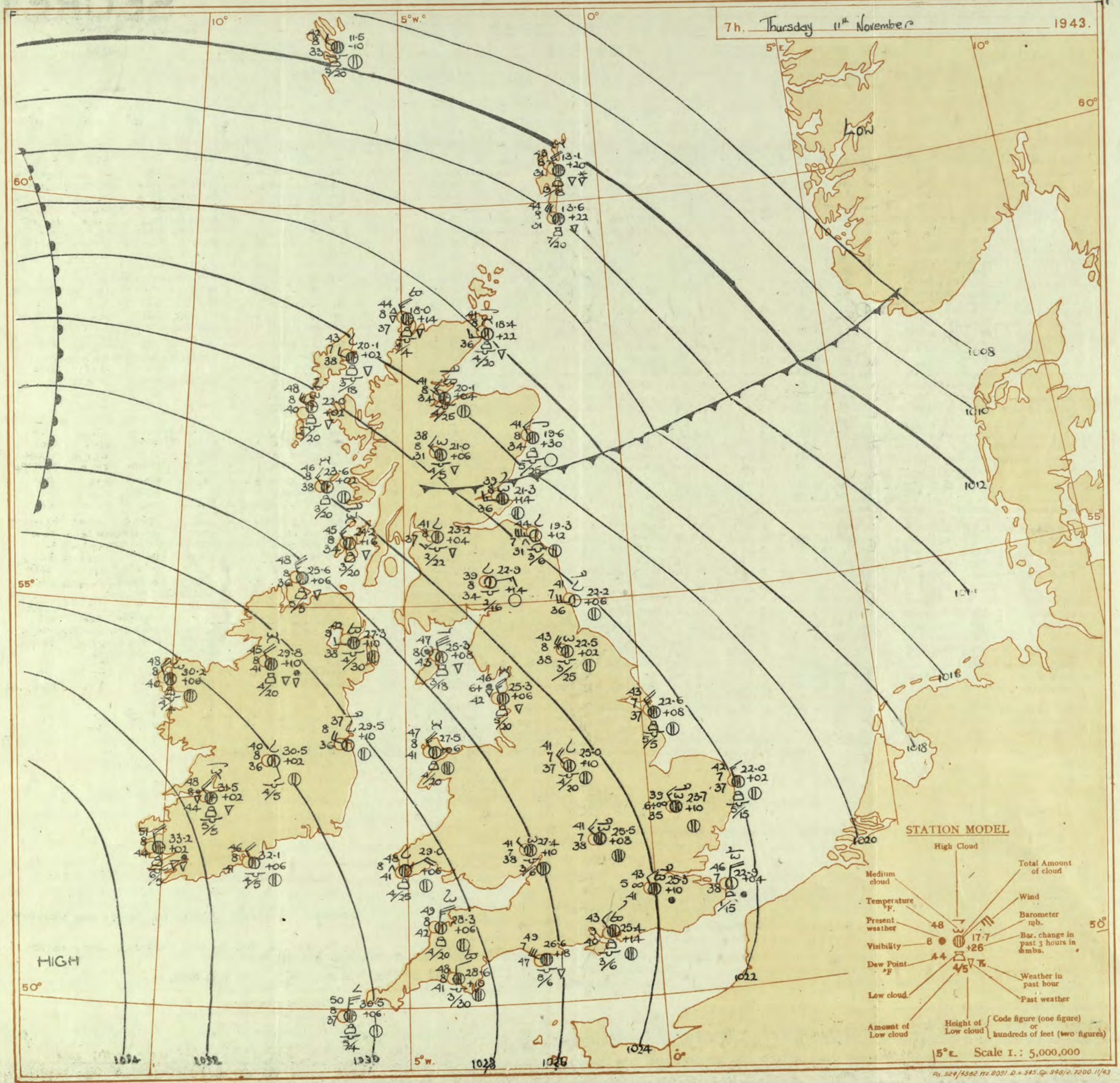
FURTHER OUTLOOK

Wintry showers in the North of the British Isles; fair in the South; cold.

Forecasts issued at 0630

NELSON K. JOHNSON, K.C.B., D.Sc., Director
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Thursday 11th November 1943.



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

Rs. 524/4562 Wt. 8051. D.w. 545. Gp. 998/2. 7200. 11/43

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).

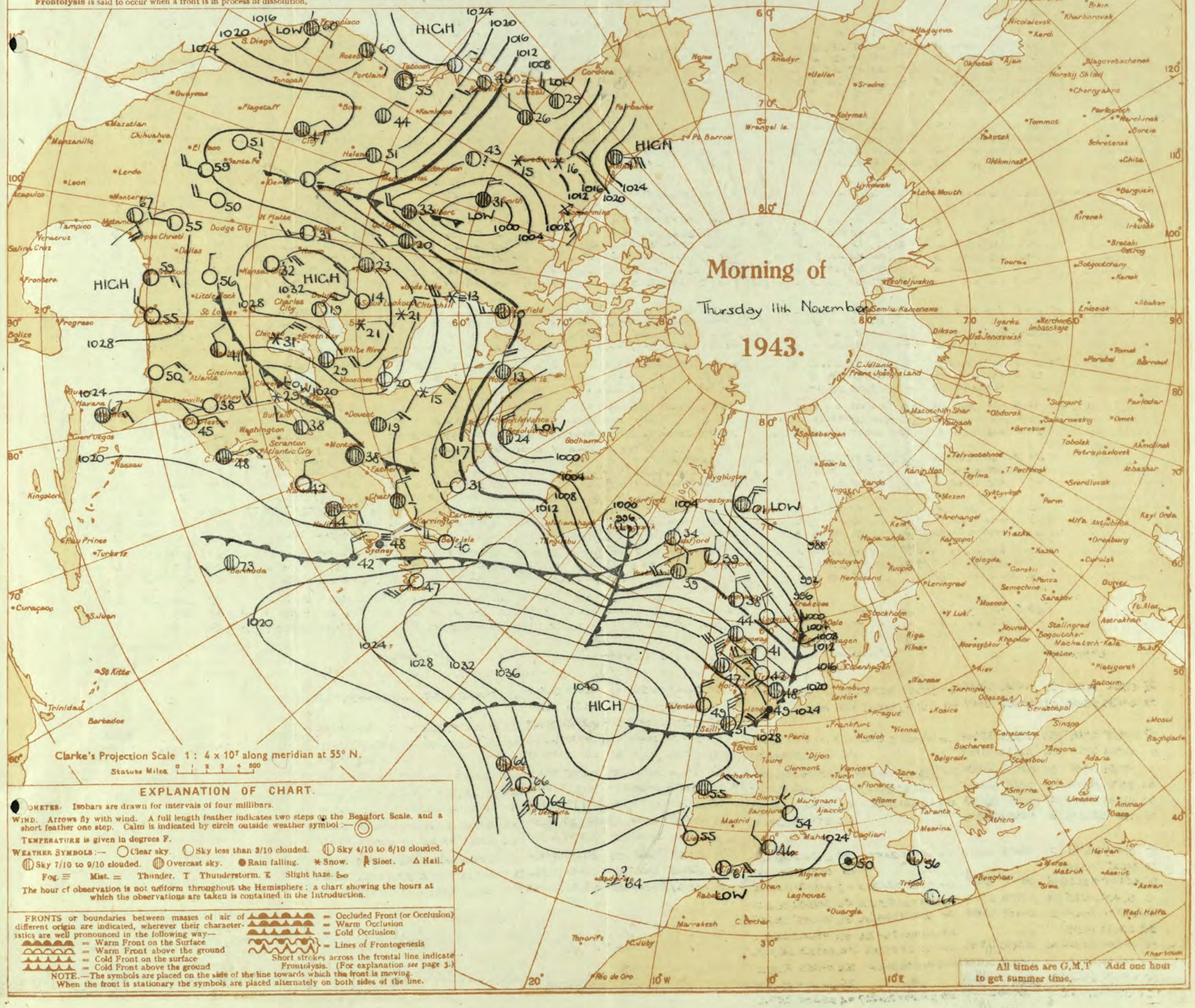
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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 11th November 1943

No. 29939

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

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	24·3	-8	SW	4	r r	49	92	47	5	5	-	-	7-8	10	800
	S. Farnborough	226	24·7	0	NNW	3	r0 r0	47	92	45	6	5	-	-	10	10	1400
	Boscombe Down	417	25·3	+2	SW'W	4	r r	46	97	45	6	5	2	-	9	10	700
	Thorney Island	10	23·3	-14	WSW	3	r0 r0	54	97	53	6	6	-	-	10	10	1500
	Lympne ..	283	23·8	-16	WSW	3	r0	50	85	48	8	5	-	-	10	10	2400
	Manston ...	154	23·1	-10	W'S	3	c	51	85	47	7	5	-	-	9+	9+	2300
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	23·6	-4	SW	5	r0 r0	49	97	48	6	6	-	-	9	10	1500
	Gorleston ...	5	22·1	-6	NW	1	c/pr	48	85	44	7	5	-	-	10	10	1500
	Mildenhall ...	15	23·0	+10	W'N	2	c/r	47	92	45	7	5	7	-	2-8	10	2500
	Cranwell ...	203	22·5	+4	W	3	c-bc	46	85	41	7	-	7	-	0	7-8	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	24·5	+16	NNW	1	ir0	46	97	45	6	-	2	-	10	10	1000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	27·3	+14	N	5	c	50	75	43	8	2	-	6	4-6	9	2500
	Bristol ...	209	26·1	+18	W	2	c-bc/d	45	92	45	7	5	3	8	1	7-8	2500
	Portland Bill ...	32	24·7	-10	WSW	4	r r	52	92	50	7	5	-	-	10	10	2500
	Plymouth ...	86	27·1	+2	W'N	3	c	50	85	46	8	5	7	-	7-8	10	1500
	The Lizard ...	240	27·6	0	NNW	5	c/r	49	92	47	7	5	-	-	9+	9+	1000
	Scilly (St. Mary's)	163	29·3	+4	N	5	c-bc	51	75	45	8	8	4	2	1	7-8	1200
	Guernsey ...	175															
6	Pembroke ...	142	28·1	+10	NE'N	5	c-bcq	49	75	41	8	2	-	-	7-8	7-8	2500
7	Holyhead (Valley)	32	27·1	+18	NW'N	6	c	48	75	40	8	2	3	8	2-3	9+	2000
	Chester (Sealand)	16	25·1	+16	NNW	4	bc	48	75	39	8	2	-	5	4-6	4-6	2200
8	Manchester ...	230	24·8	+14	NNW	4	c	45	85	40	7	2	6	-	7-8	9	1800
10	Spurn Head ...	29	20·6	+4	WNW	5	r0	48	85	41	6	8	-	-	9	9	1500
	Catterick (Sc.) ...	192	22·2	+10	W	4	b	43	85	39	8	-	-	-	0	0	-
	Tynemouth ...	108	21·4	+14	NW	3	b	42	85	35	7	-	-	-	0	0	-
11	St. Abbs Head	280	17·6	+10	W	7	bq	44	65	31	7	4	-	-	Tr	Tr	4000
	Leuchars ...	36	18·9	+14	WSW	4	b	39	92	37	8	-	-	-	0	0	-
12	Renfrew (Abbots I.)	19	21·3	+14	W'S	3	b-bc	42	85	38	8	8	6	-	2-3	2-3	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	25·2	+28	N'W	6	bc	48	75	41	8	2	-	6	1	4-6	1800
13A	Tiree	44	22·6	+18	WNW	4	c	47	75	39	8	2	6	3	2-3	9	2000
13B	Stornoway ...	12	17·7	+24	WSW	6	c-bc	44	65	34	7	2	-	2	4-6	7-8	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	16·3	+16	W	4	b	41	75	34	9	1	-	-	Tr	Tr	2500
	Wick ...	114	12·4	+10	NW	7	pr	42	97	41	7	3	6	3	9	9+	1000
16	Sumburgh ..	19	00·0	+10	W'S	6	pr	46	75	38	8	3	-	-	9+	9+	1800
17	Blacksod Point	18	29·7	+12	WNW	5	c	48	75	40	8	8	-	6	2-3	10	1500
18	Malin Head ...	84	24·7	+22	NW'N	7	c-bc	47	65	36	8	2	-	-	7-8	7-8	2500
	Aldergrove ...	268	26·0	+14	W	4	c	45	85	38	8	8	-	-	4-6	10	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	32·5	+8	N	4	bc/pr	49	75	41	8	8	-	-	4-6	4-6	2700
	Roches Point	22	30·9	+12	NW	4	bc	47	85	43	8	5	-	5	1	4-6	1500

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

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)	25·0	+6	NNW	2	Z_0	43	85	38	6	5	3	6	4-6	9	2500	1	*
	Croydon ...	25·3	+10	NW'N	2	Z_0	43	92	41	5	-	7	2	0	7-8	-	1	*
	S. Farnborough	26·7	+22	NW'N	2	c	43	85	39		-	7	-	0	10	4000	1	*
	Boscombe Down	26·7	+16	NW	3	bc	41	85	37	8	5	7	-	4-6	4-6	2500	1	*
	Thorney Island	25·4	+14	WNW	2	c-bc	43	85	40	9	8	7	4	2-3	7-8	4000	1	*
	Lympne ..	23·3	+6	N	4	bc	42	97	41	7	5	-	4	4-6	4-6	2500	1	3
	Manston ...	22·9	+4	N'W	4	b-bc	46	75	38	7	1	3	5	Tr	2-3	1500	1	*
2	Shoeburyness ...	23·8	+2	NW	3	Z_0	42	92	39	6	-	4	-	0	2-3	-	1	*
	Felixstowe ...	22·9	+2	NW	4	Z_0	43	75	39	6	-	7	1	0	2-3	-	1	3
	Gorleston ...	22·0	+2	NW'N	3	c-bc	42	85	37	7	8	-	-	7-8	7-8	1500	1	3
	Mildenhall ...	23·7	+10	NW'N	3	Z_0	39	85	35	6	-	3	2	0	7-8	-	1	*
	Cranwell ...	23·8	+8	W	3	Z_0	40	92	36	6	-	7	-	0	4-6	-	0	*
3	Birmingham ...	25·5	+2	NW	3	Z_0	42	85	38	6	-	7	-	0	4-6	-	1	*
	Upper Heyford	25·5	+8	NW'N	3	c-bc	41	92	38	7	-	3	2	0	7-8	-	1	*
4	Ross-on-Wye	26·3	+6	W'N	1	bc	43	75	27	8	-	4	-	0	4-6	-	1	*
5	Hartland Point	28·3	+6	N	5	bc	49	75	42	8	2	-	9	4-6	4-6	2000	1	5
	Bristol ...	27·4	+10	NNW	1	c-bc	41	85	38	7	5	3	-	2-3	7-8	4000	1	*
	Portland Bill ...	26·6	+18	NNW	6	c	49	92	47	7	5	-	-	10	10	4000	1	4
	Plymouth ...	28·6	+10	NNW	2	c-bc	48	75	41	8	5	7	-	2-3	7-8	3000	1	
	The Lizard ...	29·2	+6	NW	4	c-bc	46	75	39	7	5	3	-	7-8	7-8	2000	0	3
	Scilly (St. Mary's)	30·5	+6	N	5	c	50	65	37	8	8	1	-	7-8	9+	1500	1	4
	Guernsey ...																	
6	Pembroke ...	29·0	+6	NE	4	bcq	48	75	41	8	2	4	-	4-6	4-6	2500	1	3
7	Holyhead (Valley)	27·3	+6	NW	5	bc	47	85	41	8	2	6	-	4-6	4-6	2000	1	4
	Chester (Sealand)	25·6	+4	NNW	3	bc	46	75	39	7	2	4	6	4-6	4-6	2500	0	*
8	Manchester ...	25·4	+6	WNW	3	bc	40	97	39	7	4	6	1	2-3	4-6	3000	1	*
10	Spurn Head ...	22·6	+8	WNW	5	c-bc	43	85	37	7	8	-	-	7-8	7-8	2500	0	4
	Catterick (Sc.) ...	22·5	+2	WNW	5	bc	43	75	38	8	5	3	-	2-3	4-6	2500	0	*
	Tynemouth ...	22·2	+6	W	4	b-bc	41	85	36	7	-	4	1	0	2-3	-	1	3
11	St. Abbs Head	19·3	+12	W	7	b-bcq	44	65	31	7	4	4	-	2-3	2-3	4000	0	5
	Leuchars ...	21·3	+14	WSW	3	c-bc	39	85	36	8	-	3	6	0	7-8	-	1	*
12	Renfrew (Abbots I.)	23·2	+4	SSW	3	bc	41	92	37	8	5	4	-	1	4-6	2200	1	*
	Eskdalemuir ...	22·9	+14	ENE	3	b-bc	39	85	34	8	5	4	-	1	2-3	1600	1	*
	Point of Ayre ...	25·3	+8	NNW	6	bcq	47	85	43	8	3	-	8	2-3	4-6	1800	1	4
13A	Tiree	23·6	+2	WNW	3	bc	46	75	38	8	2	6	-	2-3	4-6	2000	1	2
13B	Stornoway ...	20·1	+2	W	2	c	43	85	38	7	8	4	-	2-3	9+	1800	1	2
15	Dalwhinnie ...	21·0	+6	WNW	3	c-bc	38	75	31	8	5	3	-	4-6	7-8	2500	1	*
	Aberdeen † ...	19·6	+30	WNW	3	c-bc	41	75	34	8	8	-	3	7-8	7-8	2500	1	2
	Wick ...	18·4	+22	WSW	3	bc	41	85	36	8	8	6	3	4-6	4-6	2000	1	*
16	Sumburgh ..	18·6	+22	WNW	6	c	44	65	31	8	3	-	-	9+	9+	2000	1	4
17	Blacksod Point	30·2	+6	WNW	4	c-bc	48	75	38	8	8	5	-	4-6	7-8	1500	1	4
18	Malin Head ...	25·6	+6	NW	5	c-bc	48	65	36	8	2	-	-	7-8	7-8	2500	2	4
	Aldergrove ...	27·3	+10	W'S	2	c-bc	42	85	38	9	5	7	-	4-6	7-8	3000	1	*
19	Birr Castle ...	30·5	+2	SSE	1	bc	40	85	36	8	5	4	-	4-6	4-6	2500	1	*
20	Valentia Obsy.	33·2	+2	NW'N	4	c/pr	51	75	44	8	8	-	-	9	9	2500	1	3
	Roches Point	32·1	+6	NW	4	bc	46	85	41	8	5	-	-	4-6	4-6	2500	1	4*

PAST 24 HOURS.

District	Stations	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 10th Hrs. (38)
1	London (Kew)	53	43	36	-	3	3·4
	Croydon ...	55	43	39	-	2	4·5
	S. Farnborough	56	41	35	-	1	3·7
	Boscombe Down	54	39	36	-	1	3·7
	Thorney Island	56	42	36	-	2	*
	Lympne ..	56	39	39	-	3	4·1
	Manston ...	54	46	42	-	1	6·0
2	Shoeburyness ...	57	41	36	*	2	6·9
	Felixstowe ...	56	39	39	-	1	5·7
	Gorleston ...	54	42	38	-	2	4·6
	Mildenhall ...	56	37	27	-	-	5·7
	Cranwell ...	54	39	33	-	0·6	2·2
3	Birmingham ...	54	41	36	-	2	1·9
	Upper Heyford	51	40	34	-	2	*
4	Ross-on-Wye	56	42	34	-	0·5	3·2
5	Hartland Point	55	47	46	0·2	1	2·9
	Bristol ...	56	38	30	Tr	2	5·7
	Portland Bill ...	56	48	*	-	1	*
	Plymouth ...	56	47	43	Tr	0·5	1·7
	The Lizard ...	55	45	*	-	1	1·0
	Scilly (St. Mary's)	57	49	*	Tr	1	0·2
6	Pembroke ...	56	46	*	0·3	3	0·3
7	Holyhead (Valley)	56	46	42	1	Tr	*
	Chester (Sealand)	57	45	42	-	1	1·6
8	Manchester ...	58	40	33	-	2	*
10	Spurn Head ...	53	42	*	-	1	4·0
	Catterick (Sc.) ...	56	42	35	Tr	0·2	0·5
	Tynemouth ...	57	41	37	-	1	*
11	St. Abbs Head	55	50	*	1	-	*
	Leuchars ...	56	37	31	0·3	-	0·2
12	Renfrew (Abbots I.)	55	34	32	3	1	1·0
	Eskdalemuir ...	51	37	31	7	1	0·0
	Point of Ayre ...	58	45	*	2	3	0·5
13A	Tiree	55	43	39	6	1	0·0
13B	Stornoway ...	56	40	37	16	1	0·0
15	Dalwhinnie ...	51	36	30	8	1	0·0
	Aberdeen † ...	56	41	34	4	-	0·8
	Wick ...	56	39	35	7	5	*
16	Sumburgh ..	54	41	38	5	2	0·0
17	Blacksod Point	57	45	*	7	0·1	*
18	Malin Head ...	56	45		6	0·4	0·2
	Aldergrove ...	56	40	35	2	0·1	0·1
19	Birr Castle ...	57	40	35	3		0·0
20	Valentia Obsy.	57	51	*	4	Tr	0·5
	Roches Point	56	45	*	2	*	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 10th November: $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T.: $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 11th November: $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhNh	DDFWN
109	57	61764	51627	52	64646	59668	8-	27754	59784	87	02754	27425
115	52	64635	87868	32	88744	98867	87	88844	95887	87	88844	28587
203												
206	57	61855	51867	53	22853	59464	30	81854	57684	57	02854	26317
210	5-	10864	51527	52	22854	57668				46	01943	59583
219	5-	58628	61758	80	01854	58624	20	02854	59685	83	02854	26686
230	62	58747	18568	36	25745	59685	9-	25657	93487	36	81854	24384
245	53	02745	53626	57	01971	57463	50	01961	22201	54	01962	26103
260	57	05645	53728	5-	05662	22462				54	85544	22315
276												
279	5-	51548	53728	2-	22654	24364	40	01761	24511	53	01862	24213
285	22	61625	24668							33	01743	32514
288	57	05653	52526	57	61644	51665	00	00890	24310	07	01890	24413
575	62	53436	51758	86	02855	59417	30	25744	59488	36	25854	28485
301	54	02844	20425	5-	04658	53668	30	25854	26564	36	81655	28585
321	53	05633	18215				03	01790	26324	54	05662	24214
290	53	05644	22314	50	05455	22415	40	01753	28313	40	01753	26313
292	53	17644	51427	57	05554	20528	04	01890	26261	54	01852	26214
310	50	08428	24528	50	02628	24528				26	01625	26485
614	53	08464	20428	57	05556	53528	05	05690	26227	04	08490	24114
333	5-	52627	50557	62	02525	52568	2-	02865	30467	24	02868	25825
334	--	51637	26428	--	53537	26588						
340	53	02854	22425	51	02845	20527	24	81844	30265	5-	00863	28215
136	03	05690	20414	03	02790	53416	57	22655	24467	57	02762	24317
336	57	02754	20428	52	05546	24428				13	01762	28313
350	13	01763	20414	53	02855	53317	02	62638	27268	03	05653	26265
368	57	01863	24214	5-	61635	57468	53	02743	28167	64	01753	32324
379	13	02765	20415	5-	02745	53428	5-	21754	31368	51	02764	28315
390	07	41590	18224	57	05654	20314	52	61545	24528	07	05690	28464
882	74	01864	20914	5-	02855	20327	52	22745	28168	07	02890	29325
438	5-	02757	20417	52	02755	22428	5-	02758	22618	54	05654	18414
430	5-	02668	18327	5-	0566-	26326	5-	61448	22258	57	02752	28265
409	5-	02757	18327	52	62636	21468	36	02854	32555	27	02755	30325

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 11th November
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 ...	bcFfz0	cm0	cfcm0	Kew 24 hours ended 7h. Max. Time 0·88 10h15 10th. Min. Time 0·1 21–24h 10th
Croydon ...	cbcm0	cz0	czcm0	
Greenwich ...	b	bc	cdqrbc	
Camden Square	c	c	*	
Kensington ...	dcmbc	bcc	*	
Hampstead ...	bc	bcor	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 (Yesterday)	Humidity 15h % (Yesterday)	Humidity 9h % (Today)
Kew	53	43	36	-	3	3·4	*	*
Croydon ...	55	43	39	-	2	4·5	*	*
Greenwich ...	57	48	37	-	1·8	4·6	65	80
Westminster ...	56	38	38	2·1		*	72	83
Regents Park ...	56	39	31	-	2·3	*	69	79
Camden Square	55	40	35	-	1·8	*	*	79
Kensington ...	57	43	36	-	2·6	*	75	79
Hampstead ...	55	39	34	-	2·3	*	*	88

SECRET

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

BRITISH SECTION

Friday 12th November 1943

No. 29940

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

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)	24·6	-10	NNW	3	zo	50	65	39	6	8	4	1	4-6	9	4000
	Croydon	24·7	-12	NW'N	3	zo	49	65	38	5	2	3	-	4-6	9	2000
	S. Farnborough	25·5	-10	NNW	3	cbc	49	75	40	8	7	4	1	4-6	7-8	2500
	Boscombe Down	26·0	-8	NW'N	4	cbc	48	65	39	8	1	3	1	1	7-8	3000
	Thorney Island	25·2	-12	NW	4	cbc	49	65	39	8	1	7	4	Tr	7-8	2500
	Lympne	23·5	-6	N	4	zo	48	65	37	6	1	-	9	Tr	2-3	3600
	Manston	23·3	-6	N'W	4	bc	48	65	37	8	1	4	1	2-3	4-6	2100
2	Shoeburyness	23·8	-8	NNW	3	zo	49	75	40	6	1	-	1	2-3	4-6	1500
	Felixstowe	23·3	-4	NNW	4	zo	49	65	38	6	1	-	9	Tr	4-6	4000
	Gorleston	22·2	-4	NNW	3	bc	49	75	40	7	2	7	-	2-3	4-6	2500
	Mildenhall	23·5	0	NW'N	4	zo	49	65	39	6	5	4	1	Tr	1	5700
	Cranwell	23·1	-10	NW	2	zo	50	85	49	6	1	3	5	Tr	7-8	2500
3	Birmingham	25·4	-6	NW	3	cbc	48	75	41	7	8	-	-	7-8	7-8	1500
	Upper Heyford	25·1	-6	NW'N	5	zo	47	75	40	6	1	4	1	Tr	1	4000
4	Ross-on-Wye	25·8	-10	W'N	3	c-bc	51	65	36	8	1	4	-	4-6	7-8	3500
5	Hartland Point	28·3	-6	NNW	4	c-bc	49	75	42	8	2	5	2	2-3	7-8	2000
	Bristol	27·1	-10	NW	4	bc	51	65	41	7	1	3	-	2-3	4-6	4000
	Portland Bill	26·5	-10	N	4	c-bc	51	92	49	8	2	4	-	4-6	7-8	4000
	Plymouth	28·3	-12	NW'N	5	bc	51	65	39	8	2	-	9	2-3	4-6	2500
	The Lizard	29·3	-4	NNW	3	cbc	51	75	42	8	6	2	-	7-8	7-8	2500
	Scilly (St. Mary's)	31·0	-4	N'W	5	cjp	52	65	41	7	8	9	9	4-6	9+	1800
	Guernsey															
6	Pembroke	30·0	-2	NE	4	cbcq	50	75	41	8	2	4	-	4-6	7-8	2000
7	Holyhead (Valley)	26·8	-24	NW'W	4	c-bc	50	85	44	8	2	5	3	4-6	7-8	2500
	Chester (Sealand)	25·3	-8	NNW	4	b-bc	50	65	40	8	2	-	-	2-3	2-3	2500
8	Manchester	24·7	-6	NW'W	4	c	49	85	43	7	2	3	3	4-6	9	2000
10	Spurn Head	22·9	0	WNW	4	b-bc	48	65	38	7	2	3	-	2-3	2-3	2500
	Catterick (Sc)	22·8	-10	NNW	3	cbc	49	75	40	8	5	5	6	1	7-8	2500
	Tynemouth	22·4	-14	W	3	bc	48	75	39	7	2	3	1	2-3	4-6	2600
11	St. Abbs Head	20·1	-8	W	4	cbc	46	65	32	7	5	3	-	4-6	7-8	3000
	Leuchars	19·4	-18	W	4	c	45	85	40	8	5	7	-	2-3	10	6500
12	Renfrew (Abbots I.)	21·4	-24	W	3	pr	47	85	43	8	5	7	-	2-3	10	3000
	Eskdalemuir	21·8	-14	W'S	2	cbc	44	75	37	8	5	3	-	4-6	7-8	1800
	Point of Ayre	24·7	-10	NNW	5	c	49	75	42	8	9	3	-	2-3	9+	1800
13A	Tiree	20·6	-24	W	4	ido	49	85	46	7	5	2	-	7-8	10	2000
13B	Stornoway	15·2	-32	WSW	4	ido	47	92	55	7	5	7	-	7-8	10	1500
15	Dalwhinnie	18·5	-16	W	4	c	42	75	36	8	5	4	-	7-8	10	1500
	Aberdeen	18·1	-18	WSW	2	c	45	65	35	7	-	7	-	0	9+	-
	Wick	15·5	-20	SW	4	c	45	92	42	9	5	7	-	2-3	9+	4000
16	Sumburgh	10·6	-30	WSW	5	pr	45	85	41	8	3	-	-	10	10	1400
17	Blacksod Point	28·4	-18	W'S	5	c	51	92	49	8	6	-	-	10	10	1500
18	Malin Head	23·3	-22	W	5	ir	49	85	45	8	5	2	-	4-6	10	1500
	Aldergrove	25·6	-14	WSW	4	c	47	85	48	8	5	7	-	2-3	9+	4600
19	Birr Castle	29·1	-14	WNW	2	c	51	75	44	8	5	-	-	7-8	9+	2500
20	Valentia Obsy.	32·9	-4	NW'N	4	c/pr	50	92	48	8	8	-	-	10	10	5000
	Roches Point	31·5	-10	NN'N	3	cbc/pr	51	85	47	8	3	-	5	4-6	7-8	1500

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

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)	24·4	0	W'N	2	m	45	75	38	4	-	-	-	0	0	-	1	*
Croydon	25·0	0	W	3	bf+	43	85	39	2	-	-	-	0	0	-	0	*
S. Farnborough	24·9	-2	WNW	2	b	43	85	38	7	-	4	-	0	Tr	-	0	*
Boscombe Down	25·5	-2	WNW	2	b	43	75	37	7	4	-	-	Tr	Tr	4000	0	*
Thorney Island	25·4	+4	W'N	3	b	43	85	38	5	-	-	-	0	0	-	1	*
Lympne	23·7	+2	NNW	3	m	41	85	36	4	-	-	-	0	0	-	0	9
Manston	23·6	+4	NW'N	2	zo	44	75	37	5	-	3	-	0	Tr	-	1	*
Shoeburyness	23·5	-2	NW	1	zo	42	92	39		5	-	-	4-6	4-6	4000	1	*
Felixstowe	22·5	-4	W	2	zo	44	75	39	5	-	-	-	0	0	-	0	1
Gorleston	22·3	0	WNW	2	zo	42	75	35	6	-	-	-	0	0	-	0	2
Mildenhall	22·7	-4	W'S	3	m	40	92	38	4	-	-	-	0	0	-	0	*
Cranwell	21·3	-16	W'N	3	zo	43	85	39	6	-	-	-	0	0	-	0	*
Birmingham	24·5	-6	WSW	2	zo	45	85	41	5	5	3	-	2-3	4-6	2500	1	*
Upper Heyford	24·9	0	WNW	2	b-bc	39	92	36	7	4	-	1	1	2-3	4000	0	*
Ross-on-Wye	25·3	-6	S'W	2	bjp	45	75	37	8	5	4	-	Tr	Tr	3000	1	*
Hartland Point	27·2	-6	NNW	3	bc	50	75	43	8	2	-	2	4-6	4-6	2000	1	4
Bristol	26·3	-6	W	2	zo	41	85	38	6	-	4	-	0	1	-	1	*
Portland Bill	26·5	+6	NNW	4	c-bc	50	92	48	8	2	-	-	7-8	7-8	4000	1	4
Plymouth	28·2	-2	NNW	3	zo	47	75	41	4	5	-	2	2-3	7-8	2000	1	2
The Lizard	29·4	0	NW	3	c-bc	50	85	50	8	8	6	-	7-8	7-8	2000	0	4
Scilly (St. Mary's)	30·3	0	NNW	4	c-bc	51	75	43	8	8	2	-	4-6	7-8	1800	1	4
Guernsey																	
Pembroke	27·4	-6	NW	4	cbcq	52	85	46	8	2	7	-	4-6	7-8	2500	1	3
Holyhead (Valley)	24·7	-14	NW'W	5	c	51	85	46	8	3	7	-	4-6	10	2000	1	3
Chester (Sealand)	23·5	-14	WNW	3	cbc	48	75	42	8	2	7	-	4-6	7-8	2000	1	*
Manchester	22·7	-14	WSW	3	zo	45	85	41	6	2	6	-	4-6	7-8	2500	1	*
Spurn Head	21·5	-6	W'N	4	b-bc	47	65	38	7	4	4	-	2-3	2-3	2500	0	3
Catterick (Sc)	20·7	-10	SSW	2	zo	45	85	40	6	-	3	-	0	9	-	0	*
Tynemouth	19·4	-12	W	3	zo	47	75	41	6	8	-	-	9	9	2500	0	3
St. Abbs Head	14·6	-26	SW	4	cbc	46	75	39	7	4	5	-	2-3	7-8	4000	0	4
Leuchars	13·1	-46	WSW	4	bc	45	92	42	7	-	3	-	0	4-6	-	1	*
Renfrew (Abbots I.)	15·2	-42	SW'W	5	iro	49	92	48	6	6	2	-	7-8	10	600	1	*
Eskdalemuir	17·6	-28	SSW	4	iro	43	97	42	6	5	-	-	10	10	400	1	*
Point of Ayre	22·2	-4	NW'W	5	c	50	85	47	8	9	7	-	4-6	9+	1800	1	4
Tiree	16·5	-22	WNW	6	c/d	51	85	47	7	5	7	-	4-6	10	1500	1	
Stornoway	09·9	-20	W	6	c	49	75	43	7	5	7	-	7-8	9+	1200	2	4
Dalwhinnie	12·3	-44	W	4	iro	46	95	43	7	5	-	-	9+	9+	1500	1	
Aberdeen	11·1	-42	SW	3	zo	45	75	38	6	-	3	-	0	9	-	1	2
Wick	07·6	-44	SW	3	roro	45	97	45	6	5	7	-	9	10	2000	1	*
Sumburgh	02·6	-54	SW	3	roro	45	97	43	8	5	2	-	9	10	1600	1	3
Blacksod Point	26·7	-6	W	5	c/d	52	92	50	7	6	-	-	10	10	800	1	4
Malin Head	19·7	-18	W'N	5	dd	50	97	49	6	-	2	-	10	10	800	2	4
Aldergrove	21·3	-26	W'S	3	c/d	49	92	47	7	5	-	-	10	10	1000	1	*
Birr Castle	26·4	-10	WNW	2	c	50	92	48	8	5	2	-	7-8	10	2500	1	*
Valentia Obsy.	31·0	-10	NW'W	4	o/r	52	97	51	6	5	-	-	10	10	700	1	4
Roches Point	29·4	-10	NW	3	c	51	85	47	8	3	-	5	4-6	9	1500	1	3

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)	cmo	bcbzom	b, cmmzw	crocmo
Croydon	cbcmoczo	bczbf	bfbcmocmo	cmoccir
S. Farnborough	cmobcc	bccbcb	bmocirom	cmowc
Boscombe Down	bcc	bc	bbcc	c
Thorney Island	cbcc	b	bcmcmo	cmoidoc
Lympne	cmo czo	czobbczobm	bmw	ccromo
Manston	bccbc	bc	bmombmo	cmzidodo
Shoeburyness	bcmob cbc	bczocmo	cmo	cmoiro
Felixstowe	bmobczo	bzo	cmocmow	cmiromo
Gorleston	cbc	bczo	czo	czoiro
Mildenhall	cmobcmocz	bzobmo	bmcmo	cmociro
Cranwell	bcmo	bcmobmo	cmo	cmo
Birmingham	bcc	cbcz	bc	bcc
Upper Heyford	cbcc	bzo bcb	bcbc	cidoc
Ross-on-Wye	bcbbcc	bcb	bbcc	c
Hartland Point	cbcc	bccbc	bcc	cidoc
Bristol	ccmobzo	bccbczo	cmowc	c
Portland Bill	c	c	c	c
Plymouth	bcc	bcproc	cmoido	cidomo
The Lizard	cbcc	prbcc	cidc	cidc
Scilly (St. Mary's)	c	cpoc	c	cpoc
Guernsey				
Pembroke	bcq	cq	cq	cproq
Holyhead (Valley)	bccbc	bcc	crorocdodo	crorocir
Chester (Sealand)	bccpro	bccpro	bccroro	czopro
Manchester	bcprmo	cpropr	prododocmo	bccprpro
Spurn Head	bczo	bc	orom	proc
Catterick (Sc)	bcc	ccmo	c	cbc
Tynemouth	bc	bccmo	cmoc	cbc
St. Abbs Head	bcc	cbc	cbc	bcbbc
Leuchars	bwbcc	c	cirocbc	bcb
Renfrew (Abbots I.)	ccpr	cirocirom	crorobc	bcprob
Eskdalemuir	bcc	ciro	cirod	cprro
Point of Ayre	c	c	prcbc	cprb
Tiree	cprocido	cidodoc	cccpro	bcc
Stornoway	cciro cido	cidoriko	cprbcc	cbcprb
Dalwhinnie	co	oiroc		coirc
Aberdeen	bcc	c	cirbc	bccirobc
Wick	c	cirorom	bccirc	ccirocp
Sumburgh	cbccpro	cproro	cpro	cpro
Blacksod Point	c	d	d	d
Malin Head	pr	d	d	pr
Aldergrove	cprocbcc	cidociroc	c	idocpro
Birr Castle	c	c		c
Valentia Obsy.	pr	d	+	+
Roches Point	pr	pr	d	d

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

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands ↑	Moderate northwest wind fresh or strong locally; mainly fair; rather cold.
5 S.W. England; 6 South Wales	Moderate or fresh west to northwest wind; cloud; local rain; rather 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 ↑; 13A W. Scotland ↑; 13B N.W. Scotland ↑; 14 Mid Scotland ↑; 15 N.E. Scotland ↑	Moderate to fresh northwest wind, strong to gale locally on coasts; variable cloud; showers; hail locally; cold.
16 Orkneys and Shetlands ↑	Moderate or fresh northwest wind decreasing temporarily; cloudy, occasional rain sleet or snow; cold.
17 N. W. Ireland ↑; 18 N. E. Ireland ↑; 19 S. E. Ireland; 20 S. W. Ireland	Moderate or fresh west to northwest wind strong locally; mainly cloudy; showers; rather cold.

GENERAL INFERENCE

A deep depression near South Norway is moving southeast and further depressions are expected to move southeast from Iceland. Weather will be mainly fair in the East and Southeast but weather will be showery in the North.

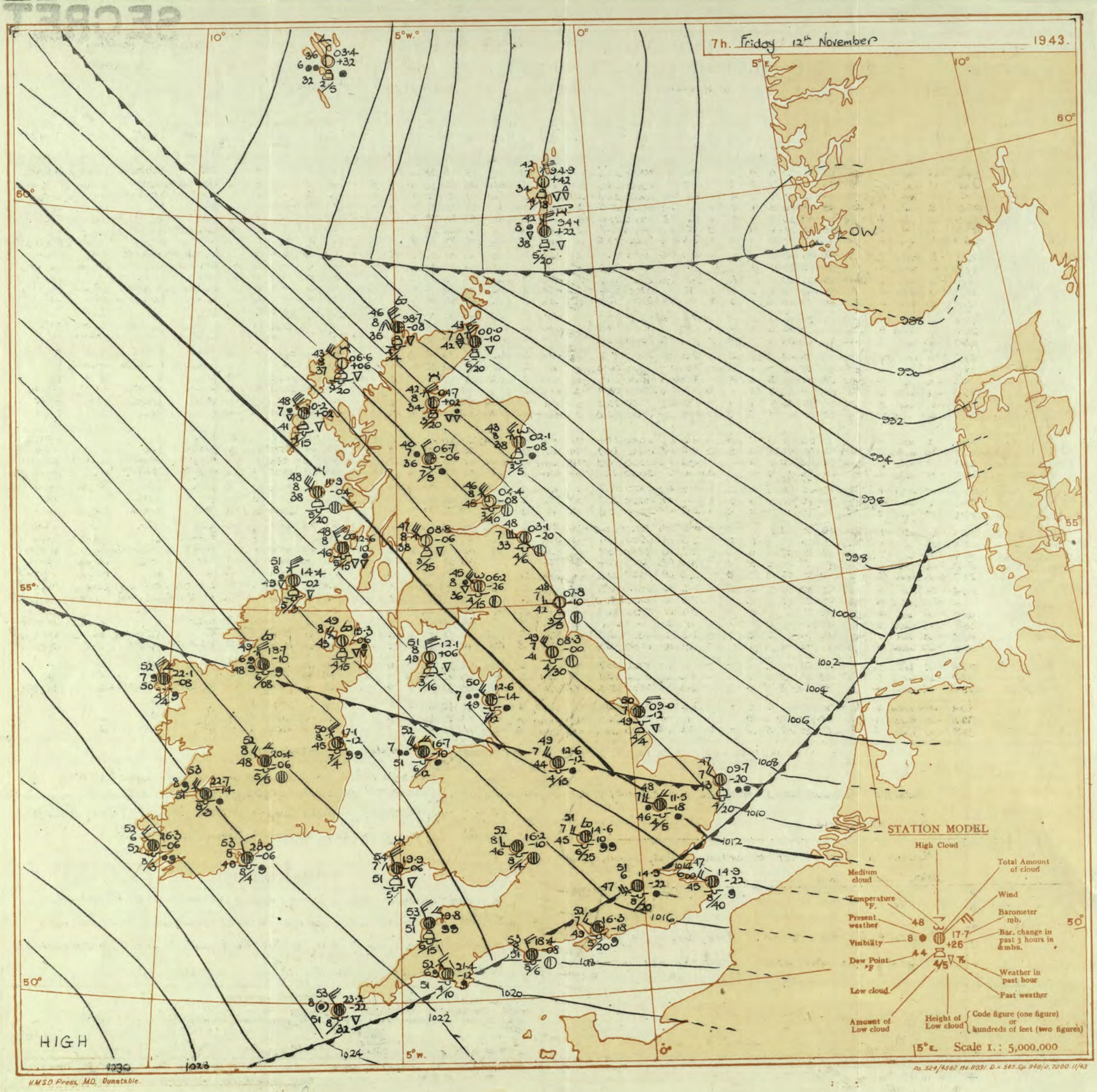
FURTHER OUTLOOK

Unsettled and probably cold.

Gale warning in operation in districts: ↑
13B 15. 16 issued 1100 G.M.T. 11th November 1943
13A. 17 " 1405 " " "
12. 11. 12. 14 " 1755 " " "
2 " 2240 " " "
4. 7. 8. 9. 18 " 0210 " 12th " "

Forecasts issued at 1030

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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

Rs. 524/4582 Ms. 8091. D.v. 545. Gp. 948/2. 7200. 11/43

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 12th November 1943

No. 29940.

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

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	*	*	*	*	*	44	*	*	*	*	*	*	*	*	*
	Croydon	290	20.0	-38	S	4	c	45	85	41	6	5	-	-	9+	9+	3000
	S. Farnborough	226	20.4	-34	W	5	Z0	44	85	40	6	5	7	-	7-8	10	3000
	Boscombe Down	417	21.2	-34	SW	3	c	44	92	42	8	5	-	-	10	10	1500
	Thorney Island	10	21.4	-28	SW'W	3	Z0	45	85	41	6	5	-	-	9	9	4000
	Lympne	283	20.9	-24	WNW	3	Z0	37	92	36	5	-	-	-	0	0	-
	Manston	154	19.5	-28	W'S	3	Z0	40	85	36	6	1	3	-	Tr	9+	2000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	19.0	-26	WSW	4	Z0	43	85	39	6	5	7	-	4-6	9+	4000
	Gorleston	5	16.4	-46	W'N	3	Z0	44	85	38	6	5	-	-	10	10	2500
	Mildenhall	15	16.3	-44	SW	4	Z0	43	85	40	6	5	7	-	2-3	9	4000
	Cranwell	203	14.3	-48	W'S	5	d0d0	46	92	44	6	5	-	-	10	10	2300
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	18.7	-44	WSW	4	c	44	92	41	7	5	7	-	7-8	9+	1800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	23.9	-14	NW	4	cjp	52	92	50	8	8	2	-	4-6	10	2500
	Bristol	209	21.0	-38	W	4	c	49	92	47	8	5	7	-	7-8	9+	900
	Portland Bill	32	23.0	-20	NW	4	c	49	92	47	8	2	4	-	7-8	10	4000
	Plymouth	86	25.5	-14	W'N	3	id0	50	97	49	6	5	-	-	10	10	3000
	The Lizard	240	26.3	-12	WNW	4	id0	52	92	49	7	5	-	-	9+	9+	1500
	Scilly (St. Mary's)	163	27.6	-18	NW	5	c	52	92	50	8	8	6	-	9+	9+	1500
	Guernsey	175															
6	Pembroke	142	23.7	-10	NW	4	cq	54	85	52	8	8	2	-	4-6	10	1500
7	Holyhead (Valley)	32	19.4	-18	WNW	6	ir0	53	92	51	8	5	2	-	9+	10	2100
	Chester (Sealand)	16	16.6	-34	WNW	6	c	53	75	47	7	9	2	9	7-8	10	1600
8	Manchester	230	16.0	-30	W'N	5	Z0	50	97	48	6	6	3	-	7-8	7-8	800
10	Spurn Head	29	12.7	-42	W'N	5	r0r0	47	85	44	7	8	-	-	10	10	1500
	Catterick (Sc)	192	11.8	-14	W	3	c	51	75	43	7	5	3	-	4-6	9	5000
	Tynemouth	108	11.2	-12	W	4	c	50	75	43	7	8	-	-	9	9	2500
11	St. Abbs Head	280	06.6	-18	WNW	6	b-bc	49	65	38	7	5	-	-	2-3	2-3	4000
	Leuchars	36	07.1	-14	WSW	4	b-bc	42	75	33	8	4	3	-	2-3	2-3	4000
12	Renfrew (Abbots I.)	19	10.3	-18	WNW	5	bc	49	75	41	7	8	-	-	4-6	4-6	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	15.5	-18	NW'N	7	c	52	85	47	8	3	-	-	9	9+	800
13A	Tiree	44	18.6	-16	WNW	5	c-bc/pr	49	97	46	8	8	6	-	7-8	7-8	2000
13B	Stornoway	12	06.9	-16	W	7	c	47	75	38	7	9	3	-	4-6	9	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	04.7	-24	WNW	5	bc	45	75	38	9	5	4	-	4-6	4-6	3500
	Wick	114	03.0	-18	WNW	6	c	43	92	41	8	5	-	-	9	9	4000
16	Sumburgh	19	94.4	-26	W'N	8	pr	47	85	42	8	8	-	-	9+	9+	2000
17	Blacksod Point	18	23.9	-26	WNW	5	d0d0	52	97	50	7	6	2	-	4-6	10	1500
18	Malin Head	84	16.7	-14	NW	7	id	51	85	47	8	8	2	-	4-6	9+	800
	Aldergrove	268	18.0	-16	W	5	c	50	85	46	8	5	-	-	9+	9+	1500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	28.8	-10	NW'N	4	d0d0	53	97	50	6	5	-	-	10	10	700
	Roches Point	22	26.5	-8	NW'N	4	c	52	92	50	8	5	-	-	9	9	1500

OBSERVATIONS at 7 hr. G.M.T. 12th November — 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)	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)	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 11th Hrs. (38)
London (Kew)	14.5	-20	W	2	Z0	50	85	46	5	5	2	-	9+	10	1500	1	*	50	41	31	-	Tr	3.1
Croydon	11.9	-22	WSW	3	c	51	85	47	6	5	-	-	10	10	2000	1	*	49	41	35	-	0.2	3.2
S. Farnborough	15.1	-20	WNW	3	c	51	85	47	8	5	7	-	78	10	1000	1	*	50	39	31	-	Tr	4.8
Boscombe Down	17.7	-6	WNW	5	c	51	85	47	8	5	7	-	9+	9+	1200	0	*	51	37	32	-	-	3.9
Thorney Island	16.3	-18	W'N	3	c	52	85	49	7	5	-	-	7-8	9	2000	1	*	51	39	30	Tr	Tr	*
Lympne	15.3	-18	W'N	4	ir0	46	97	45	5	5	2	-	7-8	10	1500	1	4	49	35	33	-	0.1	6.7
Manston	14.9	-22	W'N	4	Z0	47	92	45	6	5	-	-	10	10	4000	0	*	48	40	37	-	0.1	6.0
Shoeburyness	13.1	-8	W	3	Z0	49	92	47	6	5	-	-	10	10	1500	1	*	50	41	32	-	0.2	4.8
Felixstowe	12.9	-18	W'S	4	ir0	48	92	46	6	5	7	-	78	9+	4000	1	5	50	41	33	-	0.2	5.0
Gorleston	09.7	-20	WNW	4	bc/r	47	85	43	7	8	-	-	4-6	4-6	2000	1	4	49	39	34	-	0.2	3.4
Mildenhall	11.5	-16	W'N	4	ir0	48	97	46	7	5	2	-	4-6	10	2500	1	*	49	37	33	-	1	5.2
Cranwell	10.4	-16	W'N	5	c	50	85	45	6	6	2	-	4-6	10	1000	1	*	50	51	35	-	Tr	1.9
Birmingham	13.9	-12	W	4	c	51	85	47	7	5	-	-	9	9	1500	1	*	48	42	38	-	-	3.2
Upper Heyford	14.6	-10	W'N	4	c/d	51	85	45	7	5	7	-	9	9+	2500	0	*	48	38	29	-	Tr	*
Ross-on-Wye	16.2	10	W	3	c	52	75	46	8	5	-	-	10	10	2000	1	*	51	43	37	-	-	3.4
Hartland Point	19.8	-6	NW	5	·/d	53	92	51	7	8	2	-	9	10	1500	1	4	50	47	47	-	Tr	4.1
Bristol	17.3	-12	W	-	Z0	51	92	49	6	5	-	-	9	9	2500	1	*	52	40	32	-	Tr	4.9
Portland Bill	18.4	-8	NW	5	c	53	92	51	8	5	-	-	10	10	4000	1	4	54	47	*	-	-	*
Plymouth	21.4	-12	NNW	4	id0	52	97	51	6	5	-	-	4-6	10	1000	1	3	53	44	55	0.4	0.1	4.6
The Lizard	22.5	-12	WNW	5	c	53	92	50	7	5	-	-	9	9	1500	0	4	52	44	*	Tr	Tr	3.7
Scilly (St. Mary's)	23.2	-22	NW'N	5	cjp	53	92	51	8	5	-	-	10	10	3200	1	4	55	50	*	0.3	0.2	2.5
Guernsey																							
Pembroke	19.9	-6	NW	6	cq	54	92	51	7	8	6	-	7-8	9+	2000	1	4	56	50	*	-	Tr	4.0
Holyhead (Valley)	16.7	-10	WNW	7	r0r0	52	97	51	7	5	2	-	9	10	1200	1	5	51	49	47	-	0.4	*
Chester (Sealand)	13.8	-6	WNW	5	pr	51	85	48	7	5	-	-	9+	9+	2000	1	*	51	48	45	0.4	1	2.9
Manchester	13.3	-12	W'N	5	c/pr	50	85	46	6	2	7	-	9	10	1000	1	*	49	44	40	0.4	0.5	*
Spurn Head	09.0	-12	NNE	5	c	50	97	49	7	7	7	-	4-6	9+	1500	1	4	48	45	*	-	0.2	7.0
Catterick (Sc)	09.3	0	WNW	6	bc	49	75	41	7	5		-	4-6	4-6	3000	0	*	49	43	40	-	-	5.6
Tynemouth	07.8	-10	W	3	b-bc	48	85	42	7	2	-	-	2-3	2-3	2500	0	3	49	40	40	-	*	*
St. Abbs Head	03.1	-20	W	7	bc	48	55	33	7	4	-	-	4-6	4-6	4000	0	4	46	42	*	-	*	*
Leuchars	04.4	-8	WNW	6	b	46	97	45	8	5	-	-	1	1	4000	1	*	47	42	41	-	Tr	0.0
Renfrew (Abbots I.)	08.8	-6	WNW	6	b-bc	47	75	38	8	2	-	-	2-3	2-3	2500	1	*	49	46		1	0.3	0.0
Eskdalemuir	06.2	-26	WNW	7	pr	45	75	36	8	5	3	-	4-6	4-6	1500	1	*	45	43	40	Tr	1	0.3
Point of Ayre	12.1	+6	N'W	8	b-bc	51	92	49	8	9	-	-	2-3	2-3	1600	1	5	50	49	*	1	1	0.4
Tiree	11.9	-4	WNW	8	c-bc	48	65	38	8	8	6	-	7-8	7-8	2000	1	3	52	48	44	1	1	0.0
Stornoway	06.6	+6	WNW	7	b-bc/pr	43	75	37	8	8	6	-	2-3	2-3	2000	2	6	50	41	39	2	2	0.3
Dalwhinnie	06.7	-6	NW	4	ir0	40	85	36	7	5	-	-	9+	9+	2500	1	*	46	39	36	0.3	3	0.0
Aberdeen †	02.1	-8	WNW	5	bc	43	85	38	8	8	3	-	1	4-6	2500	1	4	46	43	39	-	1	0.1
Wick	00.0	-10	NW	8	PHR	43	97	42	7	9	-	-	9	9	2000	1	*	45	41	39	0.4	3	*
Sumburgh	94.1	+22	N'W	8	pr	42	85	38	8	9	6	3	7-8	7-8	2000	1	5	47	41	39	3	5	0.9
Blacksod Point	22.1	-8	NW'W	6	id0	52	92	49	7	6	2	-	4-6	10	1500	1	5	52	50	*	0.2	0.5	*
Malin Head	14.4	-2	NNW	7	pr	51	92	49	8	8	-	-	7-8	7-8	800	2	5	51	40		1	3	0.0
Aldergrove	15.3	-6	W'N	4	bc/pr	49	85	43	8	8	7	-	4-6	4-6	1500	1	*	49	49	44	Tr	Tr	0.5
Birr Castle	20.4	-6	WNW	4	e	52	85	48	5	5	2	-	7-8	10	2500	1	*	51	48	49	-	-	0.1
Valentia Obsy.	26.3	-6	NW'N	4	id0	52	97	52	6	5	-	-	10	10	800	1	4	52	51	49	0.5	1	0.1
Roches Point	23.0	-6	NW'N	4	c	53	85	49	8	5	-	-	10	10	1500	1	3	52	50	*	0.2	0.1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 11th November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 12th November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	82	25755	23588	52	61646	22758	83	52764	58785	36	25744	61784
115	87	81844	57687	87	81744	57687	87	81844	95884	87	15844	95886
203				5-	02848	24568				8-	81846	28526
206	57	61854	20667	53	51854	20566	20	25864	59784	36	25863	61634
210	47	25843	22487	5-	61857	20467				5-	05644	59884
219	87	25844	24588	87	02843	59764	8-	02744	59785	8-	81744	61887
230	82	25855	24388	8-	02748	22488	3-	25754	59584	3-	25853	61683
245	57	02951	22327	54	01751	22323	5-	01743	59423	54	01851	59502
260	57	08464	22428	57	16544	20225				10	05661	54411
278												
279	47	02865	57427	67	02756	57427	57	02755	57468	30	01753	57383
285	13	01743	28515							23	25744	26685
288	54	01863	24414	57	02853	21328	53	02865	24427	5-	02956	58526
575	77	22854	24468	67	54525	59358	57	51735	61658	57	02756	61488
301	97	82645	28487	57	81756	26487	27	02754	28526	5-	62747	26567
321	14	05653	28314	43	05561	22116	5-	61758	58568	86	02854	58585
290	83	01753	28314	5-	02755	22215						
292	14	01852	28313	57	02854	24117	53	02855	24457	54	01854	24324
310	20	02626	26326	2-	01426	26316				6-	02628	26528
614	13	05663	28315	40	05562	24113	57	21655	20355	57	[illegible]	55427

III	13h. G.M.T. 11th November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 12th November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	23	02855	26427	27	02854	16325	52	21646	24428	52	61635	58468
334	--	02744	28215							--	25847	28485
340	83	25954	28285	74	02864	28284	73	02853	28387	5-	02945	30387
136	17	01851	26401	00	00790	24200	57	05654	20316	53	22755	24466
336										57	22656	28468
350	13	05662	28413	00	05690	24200	57	22655	20467	57	21745	59568
368	83	02854	28315	04	01790	28313				57	02734	61456
379				04	01790	26313				52	51744	57328
390	17	05654	30415	00	05590	24300	57	08465	24427	57	05565	15048
382	53	01862	28323	04	01890	17101	07	02790	23326	52	02844	59427
438				00	05590	24210	07	01790	24404	57	02755	24658
430	13	02853	30415	00	05690	22211	53	05687	26427	5-	05548	20228
409	26	02954	31526	44	01854	29424	57	51755	24458	52	51636	61458

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 12th November
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	cm0	bcbz0m	b,cm0
Croydon	cbcm0	bczbf	bfccir0
Greenwich	bc ⊕	bcbm	bmcid0
Camden Square	bc	c	*
Kensington	bcm	bc	*
Hampstead	bc	bc	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.

Kew 24 hours ended 7h. Max. Time 0.5 11th 17-19h. Min. Time 0.1 0.7h 12th

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	50	41	31	-	Tr	3.1	*	*
Croydon	49	41	35	-	0.2	3.2	*	*
Greenwich	50	40	31	-	Tr	3.3	63	79
Westminster	52	40	32	0.1		·	77	86
Regents Park	53	41	35	-	Tr	·	68	79
Camden Square	52	41	28	·		*	*	79
Kensington	51	41	28	·	Tr	*	77	82
Hampstead	49	38	32	-	-	*	*	84

SECRET

Page 1 BRITISH SECTION

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

Saturday 13th November 1943

No. 29941

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

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	-4	NW	4	c	54	65	42	8	8	–	–	9+	9+	2500
	Croydon	12.3	-12	NW	5	zo	54	65	44	6	5	–	–	9+	9+	1500
	S. Farnborough	12.7	-10	WNW	4	iro	54	75	47	8	7	7	8	7-8	9+	1400
	Boscombe Down	14.9	-10	WNW	5	iro	51	92	49	7	5	7	–	4-6	10	1000
	Thorney Island	13.9	-16	W	6	c	56	75	50	8	5	7	–	1	10	2500
	Lympne	11.9	-14	NWW	4	zo	52	75	45	6	5	–	–	9	9	3700
	Manston	10.8	-12	NW	5	zo	53	75	45	6	5	–	–	4-6	4-6	2500
2	Shoeburyness	12.0	-8	WNW	3	c	54	75	45	7	5	7	–	7-8	9	1500
	Felixstowe	09.5	-10	WNW	6	cbc/pr	53	92	52	7	5	7	–	7-8	7-8	4000
	Gorleston	07.7	-6	NNW	5	cbc/pr	52	65	42	7	8	–	–	7-8	7-8	1500
	Mildenhall	09.9	-6	NW	5	c	52	75	43	8	8	–	–	4-6	9+	2500
	Cranwell	09.1	-10	NW	5	cbc	51	65	40	7	8	–	–	7-8	7-8	2500
3	Birmingham	12.2	-12	NW	5	c/pr	50	75	43	7	8	7	–	7-8	9	1500
	Upper Heyford	12.2	-6	NW	5	cbc/pr	51	85	45	8	5	–	9	2-3	7-8	4000
4	Ross-on-Wye	13.7	-10	W	4	c	53	75	43	8	8	7	8	7-8	9+	2500
5	Hartland Point	18.3	-8	W	8	ido	54	92	52	6	8	–	–	9	10	800
	Bristol	15.1	-10	NWW	4	c	54	75	46	7	5	1	8	4-6	9+	2500
	Portland Bill	16.2	-16	W	5	c	56	92	54	8	5	7	–	7-8	10	4000
	Plymouth	19.1	-12	NWN	5	ido	56	75	50	8	5	7	2	7-8	9+	1800
	The Lizard	20.8	-16	NW	6	c/d	55	92	51	7	5	–	–	9	9	1500
	Scilly (St. Mary's)	22.8	-10	NNW	5	c	55	85	52	7	5	–	–	10	10	1000
	Guernsey															
6	Pembroke	27.6	-8	NW	5	cq	54	92	51	8	8	–	–	9+	9+	1800
7	Holyhead (Valley)	14.9	-12	NWW	6	c	51	85	48	8	8	6	–	9	9+	2000
	Chester (Sealand)	12.5	-2	NWN	7	bc	52	65	42	8	8	–	6	4-6	4-6	2000
8	Manchester	11.6	-2	NWW	5	c/pr	49	75	42	7	9	–	3	7-8	9+	2000
10	Spurn Head	06.6	-20	WNW	7	b-bcq	51	65	38	8	1	–	–	2-3	2-3	2500
	Catterick (Sc)	08.0	-6	WNW	7	b-bc	50	55	35	8	1	–	1	2-3	2-3	4500
	Tynemouth	07.3	-6	NW	6	b-bcq	50	55	35	7	2	–	–	2-3	2-3	2100
11	St. Abbs Head	05.2	0	WNW	6	b-bc	47	55	32	8	1	4	–	2-3	2-3	3500
	Leuchars	06.4	-2	WNW	6	bc/pr	45	85	41	9	8	7	–	2-3	4-6	3500
12	Renfrew (Abbots I.)	08.1	-6	WNW	6	bc	47	75	38	8	9	–	–	2-3	4-6	1800
	Eskdalemuir	06.4	-2	WNW	7	bc	46	55	34	6	7	–	–	4-6	4-6	1800
	Point of Ayre	11.0	-2	NW	7	cbcq/pr	50	85	43	8	9	–	–	7-8	7-8	1000
13A	Tiree	11.4	-6	NW	6	bc/pr	47	75	37	8	2	–	–	7-8	7-8	2000
13B	Stornoway	06.5	-6	WNW	6	pr	45	65	34	8	8	6	9	7-8	9	1800
15	Dalwhinnie	06.5	-2	NNW	4	ir	38	85	34	8	5	–	–	9+	9+	2500
	Aberdeen	03.4	+14	NWN	3	b-bc/pr	40	85	36	8	9	6	3	2-3	2-3	2500
	Wick	03.0	0	NW	5	cbc	39	97	37	8	9	–	–	7-8	7-8	1000
16	Sumburgh	97.8	+4	NWN	7	phr	41	75	35	8	3	6	3	7-8	7-8	1400
17	Blacksod Point	19.5	-22	WNW	6	c	53	85	49	7	6	–	–	9+	9+	1500
18	Malin Head	13.8	-8	WNW	7	pr	47	75	40	8	8	–	–	9+	9+	2500
	Aldergrove	14.1	-10	WN	4	c	49	65	38	8	8	7	–	9	9+	1500
19	Birr Castle	18.4	-18	NNW	3	c	53	85	49	8	8	7	–	7-8	9	1500
20	Valentia Obsy.	24.7	-14	NWW	5	c/d	52	92	50	7	5	–	–	10	10	800
	Roches Point	21.3	-12	NWN	5	c	54	85	50	8	8	–	–	9	9	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	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. 12th (39)	13h.–18h. 12th (40)	18h. 12th to 1h. 13th (41)	1h.–7h. 13th (42)
London (Kew)	11.8	+2	WNW	3	zo	50	65	37	5	5	–	–	7-8	7-8	2500	1	*	cmo iroc	cprobcczo	cbcczow	crorirо mo
Croydon	12.1	-2	WNW	2	m	50	75	41	4	5	3	–	2-3	2-3	2000	1	*	cirocmo	cmorobcz	bmo cciro	cro ro mo cmo
S. Farnborough	12.4	0	WNW	3	c-bc	50	85	44	8	5	3	–	4-6	7-8	4400	0	*	ciro	ciroprociroc	bcbo cro riro	ciro ro proc
Boscombe Down	14.1	-2	WNW	4	c/r	48	85	46	7	5	–	2	7-8	9	2500	1	*	cbccro	ciroc	ciro ccpro	cproccciro
Thorney Island	13.8	+4	WN	4	ir	54	85	47	7	5	7	–	9	9+	2500	1	*	c	cidocir	bccmo iro	ciro
Lympne	11.5	+2	WNW	3	zo	47	75	39	5	5	–	–	4-6	4-6	2500	1	2	cromcromocmoczo		bcczobcmow	cmo iro cmo
Manston	10.4	+2	NWN	4	cbc	50	65	39	8	5	–	8	2-3	7-8	3500	1	*	cmoido cmo	bc mobcc	bc	cro ro
Shoeburyness	11.8	+4	WNW	3	zo	47	85	41	*	–	–	–	0	0	–	1	*	cmobcc	cczo	bmo bcmo	cmo rrcmo
Felixstowe	09.2	+2	WNW	4	zo	48	75	41	6	–	–	–	0	0	–	0	3	cproc	bczo bzo	cmob	cro ro cmo
Gorleston	07.2	0	WNW	4	b	48	75	37	7	–	–	–	0	0	–	0	3	cproeq	cqbcb.	bbcc	kcpro c
Mildenhall	09.1	-2	N	4	bc	47	75	40	8	5	4	–	4-6	4-6	2500	1	*	cirocprc	cbc	bcciro b	bcciro c
Cranwell	09.1	0	N'N	4	zo	46	75	39	6	5	–	–	4-6	4-6	2000	0	*	cmoc	cbc	cpro bcmo cmo	cmo
Birmingham	11.4	-6	WNW	4	c/r	47	85	42	8	5	7	–	9	9+	1500	1	*	cpro	cpro	ciro	ciro
Upper Heyford	12.0	0	WNW	4	c-bc	47	75	40	7	5		–	7-8	7-8	3300	1	*	cprobcpro	cjpbc	bccpro	crororomodo do
Ross-on-Wye	13.6	-4	W	4	c/pr	49	85	44	8	8	–	–	9	9	2500	1	*	cpcpoc	ccpoP	bcciro	ccr
Hartland Point	16.7	-6	NW	5	c	54	92	52	8	8	–	–	9+	9+	1500	1	5	idoc	idoc	cdr	cido ir
Bristol	14.0	-6	NWW	4	cbc/pr	50	85	45	6	5	7	–	4-6	7-8	2500	1	*	ccprocmo	ccmoprocmo	cmoidocpro	proccc
Portland Bill	15.2	-2	SW	5	c	55	92	53	8	5	–	–	10	10	4000	1	4	c	c	c	coir
Plymouth	17.6	-8	WNW	4	c-bc	54	85	49	7	5	–	–	4-6	7-8	2000	1	3	cmo	ciroc	ccidoc	croro
The Lizard	19.6	0	NW	6	c	54	85	49	7	5	–	–	9+	9+	1500	1	4	cidc	iddrc	ciddc	cirid
Scilly (St. Mary's)	21.1	-6	NWN	6	c	53	92	50	7	8	6	2	4-6	9	1000	1	5	c	c	c	cpoc
Guernsey																					
Pembroke	17.7	-8	NW	5	cq	54	85	50	7	8	4	–	4-6	9	2000	0	4	cq	cq	cq	cbroprq
Holyhead (Valley)	13.6	-6	NWW	5	c	50	75	43	8	8	7	–	7-8	9+	2000	1	4	bropro	cbcc	cpro	cpRproc
Chester (Sealand)	11.5	-6	NW	6	zo	49	65	38	6	8	–	8	7-8	7-8	2000	0	*	c, bcpro	bcjpzo	bcprmo	roromoc
Manchester	10.2	-6	NW	5	bc	46	85	40	7	2	–	–	4-6	4-6	2500	1	*	moplopr	cprobczo	bbpropr	ciromo
Spurn Head	06.7	0	WNW	7	b-bcq	48	75	39	7	4	–	–	2-3	2-3	4000	0	5	bcq	bcq	bc	bc
Catterick (Sc)	07.9	-6	WNW	5	bc	43	75	37	8	8	–	–	4-6	4-6	3300	0	*	bc	bcb	bcc	bc
Tynemouth	06.7	-2	WNW	5	bc	44	65	34	7	–	4	–	0	4-6	–	0	4	bcq	bc	bc	bcc
St. Abbs Head	04.2	-2	NNW	6	b-bc	45	65	32	7	4	–	–	2-3	2-3	2700	0	5	bc	bc	bccbc	bccbcc
Leuchars	04.5	-6	WNW	4	b-bc	43	75	46	8	4	–	–	2-3	2-3	3000	1	*	bcpro	bcpro	bc	bccbc
Renfrew (Abbots I.)	07.0	-6	WS	4	bc	43	75	36	8	8	3	5	2-3	4-6	2000	1	*	bbcprobbc	bcbbc	bccprcpRc	cbcc
Eskdalemuir	06.2	0	WNW	5	b-bc	41	75	35	8	8	3	–	1	2-3	2100	1	*	probc	bc	bc	pRbc
Point of Ayre	09.9	-8	NNW	7	b-bc/pr	48	75	40	8	3	–	–	2-3	2-3	2000	1	5	bbccq	cprb	bproc	cprbc
Tiree	08.7	-16	NW	5	bc/pr	44	75	37	8	2	6	–	2-3	4-6	2000	1	3	bccproc	cpr, phbc	bccPH	ccpro
Stornoway	04.3	-14	WNW	6	bc/pr	41	85	37	8	3	6	8	4-6	4-6	1600	1	3	cprhbccpr	cprc	cprbc	bcapro c
Dalwhinnie	05.5	-6	NW	3	c	37	75	30	7	5	–	–	9+	9+	2500	1		cir	coirc	bbcb	cpirc
Aberdeen	02.1	-10	NWN	4	b	39	75	32	8	3	–	3	1	1	2500	1	3	bcprqjp	bcprob	bbcb	bcx
Wick	01.6	-10	NW	2	b-bc	37	85	33	8	3	–	3	2-3	2-3	1500	1	*	cphropro	bccprcbcphc	c	cpromcmcpro
Sumburgh	96.7	-8	NW	5	bc/phr	39	75	32	8	3	6	3	4-6	4-6	1400	1	4	cjppho	cphobc	bcprobc	bcpbxro
Blacksod Point	16.8	-14	WN	6	c	51	92	49	7	6	–	–	10	10	1500	1	5	d	r	+	pr
Malin Head	10.8	-18	NWN	7	pr	48	65	37	8	8	–	–	4-6	4-6	2500	2	5	pr	pr	pr	pr
Aldergrove	12.1	-10	W	4	pr	45	85	40	8	8	7	–	9	9	1500	1	*	irocproc	bccproc	cproc	cRRpr
Birr Castle	16.4	-8	SW	3	id	51	92	49	7	6	2	–	7-8	10	800	1	*	c	d	*	+
Valentia Obsy.	22.6	-10	NWW	4	c	52	75	44	8	5	–	–	9+	9+	2500	1	4	r	pr	pr	+
Roches Point	20.3	-2	NWN	4	c	52	85	48	8	8	4	–	7-8	9	1500	1	3	pr	pr	c	pr

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 13th November

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Moderate or fresh westerly winds, veering north late in period; rain at first; scattered showers and bright intervals later; rather cold, becoming cold.
4 W. Midlands	Moderate westerly winds, veering north later; scattered showers and bright intervals; sleet showers in east tomorrow, with local thunder; rather cold to cold.
5 S.W. England ♠	Fresh or strong northwesterly winds, gale locally; rest, as 4.
6 South Wales ♠; 7 North Wales ♠; 8 N.W. England; 9 N. Midlands	Fresh or strong northwest to north winds; scattered thundery showers of rain and hail, with local thunderstorms; sleet and snow showers later, especially on high ground; cold to very cold.
10 N.E. England; 11 S.E. Scotland	Moderate west winds, veering north and freshening; a few showers at first, sleet and snow showers later, with local thunder; cold to very cold.
12 S.W. Scotland & Isle of Man ♠	As 6-9
13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Light northwest winds, becoming north to northeast, fresh or strong, showers of rain and hail at first; showers of sleet and snow later; scattered thunderstorms; very cold.
16 Orkneys and Shetlands	As 13A - 15.
17 N. W. Ireland ♠; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland ♠	Fresh or strong west to northwest winds; thundery showers of rain and hail, with local thunder; sleet showers in north later; cold, becoming very cold.

GENERAL INFERENCE

Pressure is high to the west and low to the east of the British Isles, and a trough of low pressure over North Scotland will move South across the British Isles; there will be rain at first in the South; otherwise there will be thundery showers of rain and hail in most districts, with sleet and snow showers soon spreading from the North; cold to very cold.

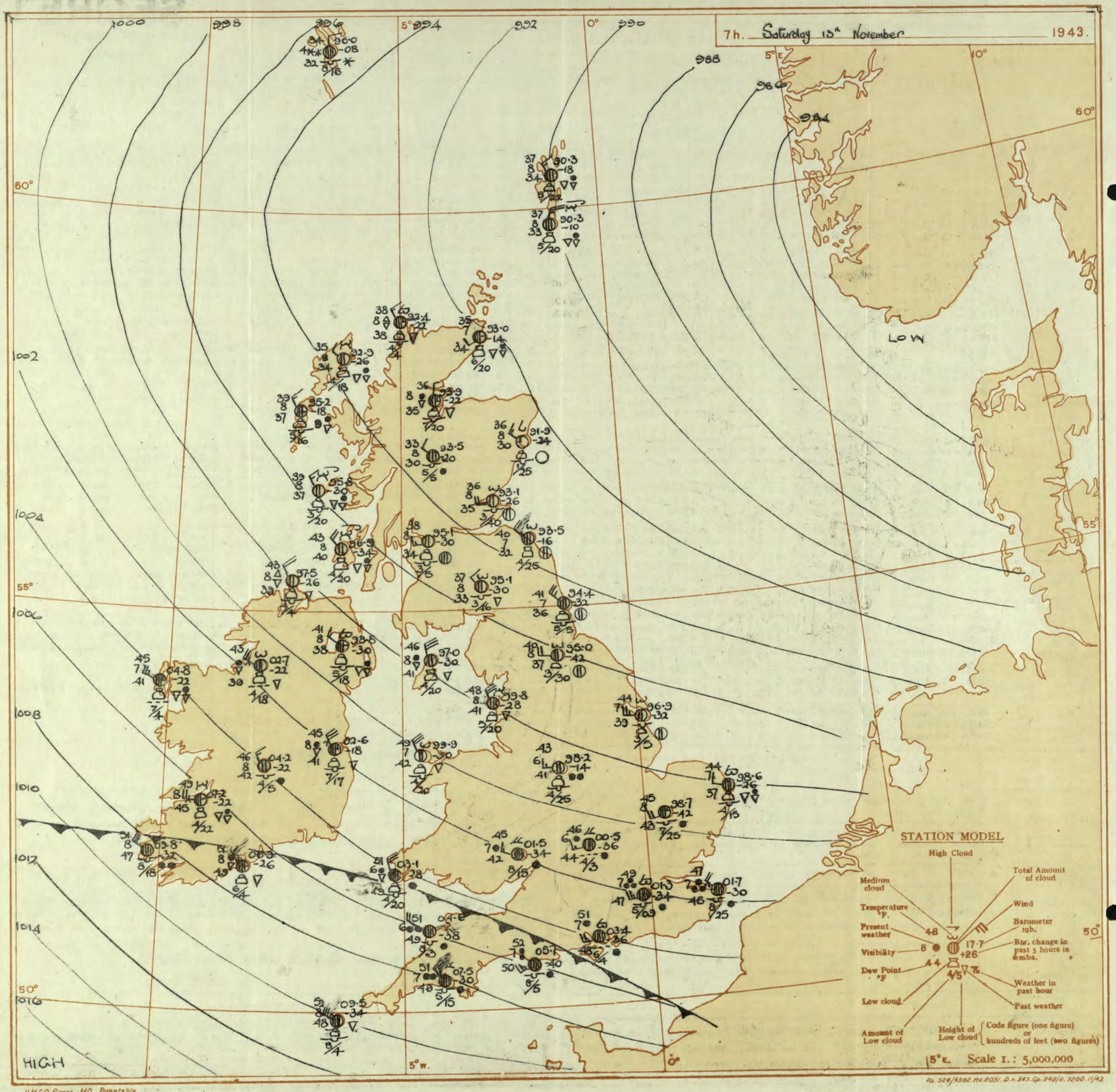
FURTHER OUTLOOK

Cold northerly type, with wintry showers in most districts
♠ Gale warning in operation in districts 5, 6, 7, 12, 17, 20. times of issue 1405 G.M.T Nov, 11th 0240 G.M.T Nov 12th, 0820 G.M.T Nov 13th.

Forecasts issued at 10.30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

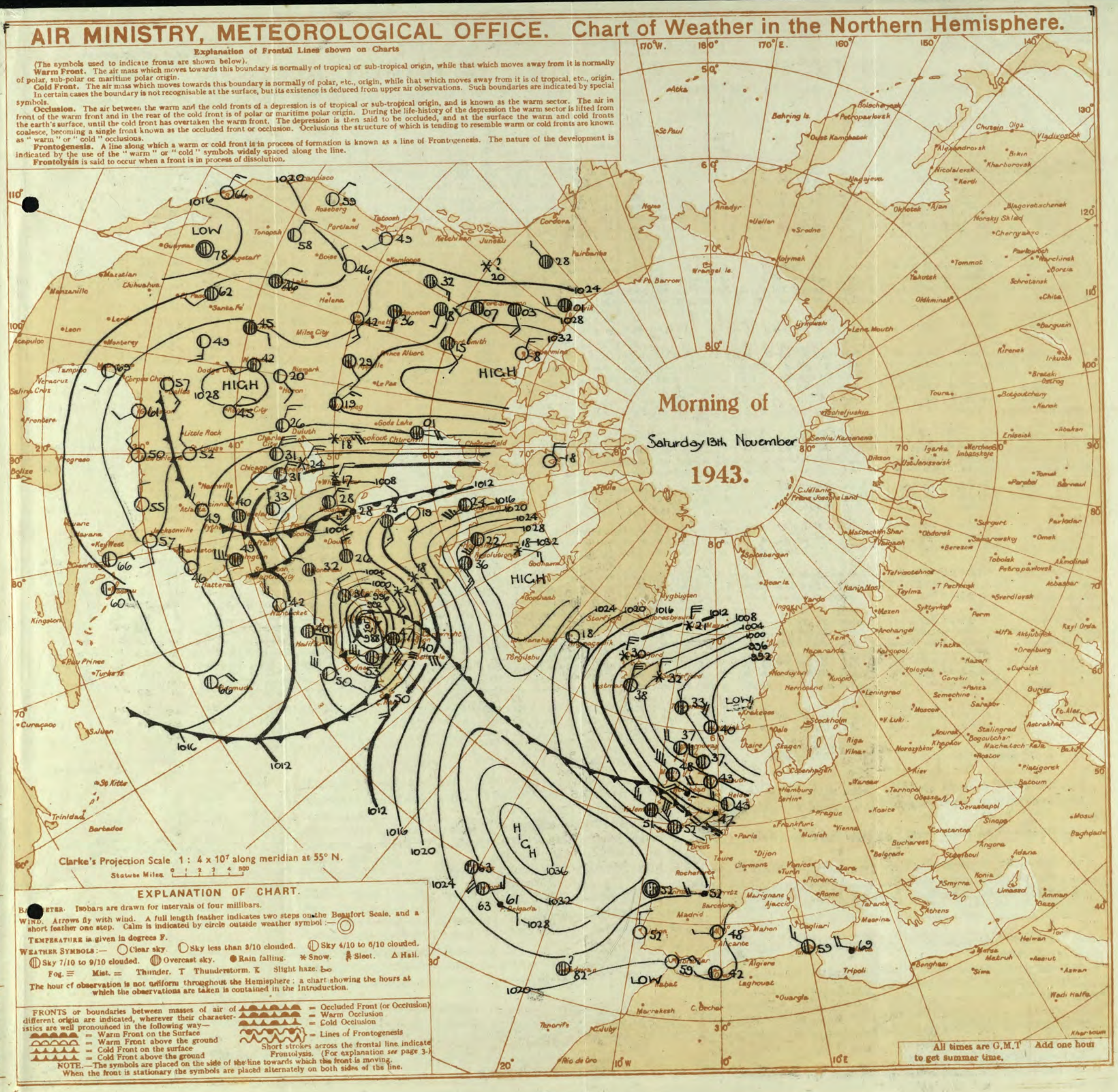
7h. Saturday 13th November 1943.



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

Rs. 324/4562. Pte. 8091. D.x.545. Gp. 949/2. 7200. 11/43

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.

Saturday 13th November 1943

No. 29941

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

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	*	*	*	*	*	46	*	*	*	*	*	*	*	*	*
	Croydon	290	08·2	-22	SW	4	ir₀	47	97	46	7	5	-	·	10	10	1500
	S. Farnborough	226	08·2	-30	W'S	3	ir₀	47	92	45	7	5	7	-	9+	10	2400
	Boscombe Down	417	09·6	-34	W	4	pr	50	85	46	7	8	6	-	7-8	9+	1600
	Thorney Island	10	10·6	-24	W'S	4	c/r	51	92	49	7	5	7	-	7-8	10	1500
	Lympne	283	08·2	-22	W	3	z₀	48	85	40	5	5	-	-	9+	9+	3500
	Manston	154	07·4	-24	WNW	3	z₀	44	85	40	6	5	3	·	1	2-3	5700
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	06·2	-18	WSW	4	b	45	75	39	7	-	3	·	0	1	-
	Gorleston	5	05·0	-10	WNW	3	c	48	85	38	7	-	3	·	0	9+	-
	Mildenhall	15	05·3	-30	WSW	4	bc	48	85	38	8	5	3	·	4-6	4-6	2500
	Cranwell	203	04·6	-16	WNW	4	z₀	63	92	41	6	5	3	-	4-6	9+	2600
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	08·1	-26	W'S	3	r₀r₀	45	97	44	6	5	-	·	10	10	2500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	11·8	-4	NW	5	c/r	52	85	48	8	5	2	·	9	10	1500
	Bristol	209	03·4	-32	WSW	4	pr	51	85	47	7	8	-	·	10	10	1700
	Portland Bill	32	11·3	-28	SW	5	c	52	92	50	7	5	-	·	10	10	2500
	Plymouth	86	13·4	-30	W'N	5	c/d	52	85	48	7	5	2	-	7-8	10	3200
	The Lizard	240	14·8	-26	NW	6	c	51	75	43	7	5	-	·	9+	9+	1000
	Scilly (St. Mary's)	163	16·5	-32	NWN	7	c	52	75	44	8	8	-	·	10	10	1500
	Guernsey	175															
6	Pembroke	142	11·0	-32	NW	5	cq	52	92	49	8	8	-	-	10	10	1500
7	Holyhead (Valley)	32	06·9	-34	WNW	5	PR	50	92	45	5	9	-	-	10	10	1100
	Chester (Sealand)	16	06·6	-30	NW	3	r₀r₀	47	92	44	6	5	2	-	2-3	10	2000
8	Manchester	230	05·3	-26	W'N	4	pr	46	85	42	6	2	6	·	9	9+	2000
10	Spurn Head	29	03·2	-22	W	6	bc	45	75	37	7	7	3	-	2-3	4-6	2500
	Catterick (Sc)	192	03·8	-14	W	3	bc	39	92	36	8	-	3	-	0	4-6	-
	Tynemouth	108	02·1	-20	W	4	bc	43	75	36	7	5	-	·	4-6	4-6	2500
11	St. Abbs Head	280	98·9	-26	WNW	6	bc	42	65	32	7	4	3	-	2-3	4-6	4000
	Leuchars	36	99·1	-30	WSW	4	bc	37	97	36	8	5	3	-	2-3	4-6	5000
12	Renfrew (Abbots I.)	19	01·7	-30	W	2	c-bc/pr	41	92	38	8	8	-	-	7-8	7-8	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	02·5	-36	NW'N	6	c	43	85	42	8	9	-	-	9+	9+	2500
13A	Tiree	44	01·5	-30	WNW	4	pr	43	85	39	8	3	3	3	4-6	4-6	2600
13B	Stornoway	12	98·6	-26	W	4	bc	37	92	35	8	2	6	-	2-3	4-6	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	97·7	-24	W	4	c-bc	37	85	32	8	8	3	-	4-6	7-8	2500
	Wick	114	97·1	-20	SW	3	phr	35	97	34	7	3	6	3	4-6	9+	1500
16	Sumburgh	19	93·2	-20	NW'N	5	bc	39	75	33	8	3	6	3	4-6	4-6	2000
17	Blacksod Point	18	09·8	-38	W'N	6	c/r	51	85	49	7	6	-	·	10	10	1500
18	Malin Head	84	03·3	-36	NW'N	7	cq	48	65	36	6	8	-	·	9	9	1500
	Aldergrove	268	05·2	-30	W	4	c	47	75	41	8	8	-	-	10	10	3500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	16·5	-30	WNW	5	c	51	92	49	8	5	-	-	10	10	2200
	Roches Point	22	14·1	-36	NWN	4	c	49	85	45	8	5	·	-	9	9	1500

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

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)	00·5	-36	W	3	ir₀	49	85	45	6	6	2	-	4-6	9	1500	1	*
Croydon	01·3	-34	WSW	3	rr	49	92	47	7	5	7	-	7-8	10	900	1	
S. Farnborough	01·2	-32	W	4	c	50	85	45	8	5	7	-	9	10	1200	1	*
Boscombe Down	03·1	-36	W'N	5	ir₀	49	92	46	9	5	-	-	7-8	9+	1200	1	*
Thorney Island	03·4	-36	WSW	4	ir₀	51	92	48	7	6	7	-	9	10	1500	1	*
Lympne	01·3	-34	W	3	ir₀	47	97	46	6	3	2	-	7-8	10	1100	1	3 §
Manston	01·7	-30	WNW	4	rr	47	85	45	7	5	-	·	10	10	2500	1	*
Shoeburyness	01·9	-20	W	3	c/r	47	92	45	6	5	-	·	10	10	1500	1	
Felixstowe	00·2	-34	WSW	3	c/r	46	92	44	6	5	7	·	7-8	10	2500	1	4
Gorleston	98·6	-26	W'N	2	c-bc/pr	44	92	32	7	8	7	·	4-6	7-8	1500	1	3
Mildenhall	98·7	-12	WSW	4	c	45	92	43	8	5	-	·	9+	9+	2500	1	*
Cranwell	98·4	-16	W	3	z₀	44	85	41	6	5	4	-	7-8	7-8	3000	0	*
Birmingham	99·9	-26	W	3	ir₀	46	85	42	6	6	2	·	7-8	10	800	1	*
Upper Heyford	00·8	-36	W'S	3	ir₀	46	97	44	6	6	2	·	4-6	10	800	1	*
Ross-on-Wye	01·5	-34	W'N	3	ir₀	45	92	47	7		2	·	10	10	1500	1	*
Hartland Point	04·6	-38	ENE	4	r₀r₀	51	92	49	6	5	-	·	10	10	800	1	5
Bristol	02·4	-40	WSW	5	c	50	85	46	7	5	7	-	4-6	10	1200	1	
Portland Bill	05·7	-40	SW	5	id	52	92	50	7	5	-	·	10	10	2500	1	4
Plymouth	07·5	-30	NW'N	5	r₀r₀	51	92	49	7	5	2	:	7-8	10	1500	1	3
The Lizard	08·3	-40	W	7	id₀	51	92	45	7	5	-	-	9+	9+	1000	1	5
Scilly (St. Mary's)	09·5	-34	NW	7	c	52	85	48	8	8	-	·	10	10	1500	1	5
Guernsey																	
Pembroke	03·1	-28	NW	6	pr	51	92	49	6	8	-	·	4-6	10	2000	1	5
Holyhead (Valley)	99·9	-30	NW'W	6	bc	49	75	42	7	8	8	·	4-6	4-6	2000	1	5
Chester (Sealand)	00·4	-30	NW'W	5	rr	47	85	41	7	9	-	·	10	10	2000	1	*
Manchester	98·3	-30	W'N	3	z₀	42	85	39	6	2	-	·	7-8	7-8	2000	1	*
Spurn Head	96·9	-32	W	5	bc	44	85	39	7	7	3	-	2-3	4-6	2500	0	4
Catterick (Sc)	95·0	-42	W	4	bc	40	85	37	8	1	3	·	1	4-6	3000	0	*
Tynemouth	94·4	-32	WNW	5	c-bc	41	85	36	7	8	-	-	7-8	7-8	2500	0	3
St. Abbs Head	93·5	-16	WNW	5	c-bc	40	75	32	7	3	3	-	4-6	7-8	2500	1	4
Leuchars	93·1	-26	WSW	4	bc	36	92	35	8	5	3	-	2-3	4-6	4000	0	*
Renfrew (Abbots I.)	95·1	-30	WSW	3	bc	38	85	34	8	8	7	-	2-3	4-6	3000	1	*
Eskdalemuir	95·1	-30	WNW	2	bc	37	85	33	8	5	3	-	2-3	4-6	1600	1	*
Point of Ayre	97·0	-30	NW'N	6	pr	46	85	41	8	3	-	·	4-6	4-6	2000	1	4
Tiree	95·8	-30	NW	3	bc/pr	39	92	37	8	8	6	3	2-3	4-6	2000	1	2
Stornoway	92·9	-36	WNW	2	bc/pr	35	92	34	8	3	6	-	4-6	4-6	1800	2	2
Dalwhinnie	93·5	-20	WNW	2	c-bc	33	85	30	8	5	-	-	7-8	7-8	2500	1	*
Aberdeen †	91·9	-24	WNW	3	b	36	85	36	8	8	4	-	Tr	1	2500	1	2
Wick	93·0	-14	SW	2	c/pr	35	92	34	7	9	-	-	9	9	2000	1	
Sumburgh	90·3	-10	N'E	5	c-bc/pr	37	85	33	8	3	6	3	7-8	7-8	2000	1	3
Blacksod Point	04·8	-22	W'N	6	c/pr	45	85	41	7	9	-	-	9+	9+	1500	1	5
Malin Head	97·5	-26	NW	4	phr	48	85	39	8	8	-	-	4-6	4-6	1500	2	4
Aldergrove	98·8	-30	WNW	3	c/pr	41	92	38	8	8	7	·	7-8	9	1800	1	*
Birr Castle	04·2	-22	NW	3	bc	46	85	42	8	5	-	-	4-6	4-6	2500	1	*
Valentia Obsy.	09·8	-32	WNW	6	c/r	51	85	47	8	5	-	-	10	10	1800	1	5
Roches Point	06·9	-26	NW	5	pr	51	92	49	8	8	-	-	9	9	1500	1	*

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 Hrs. (38)
London (Kew)	54	46	41	0·1	4	0·3
Croydon	54	46	43	Tr	5	0·6
S. Farnborough	66	46	39	0·2	0·6	1·1
Boscombe Down	54	45	41	0·1	0·4	1·2
Thorney Island	56	48	41	Tr	0·3	
Lympne	54	42	36	1	1	1·6
Manston	54	43	40	Tr	2	1·4
Shoeburyness	55	44	34	—	2	1·0
Felixstowe	53	43	39	1	0·4	1·4
Gorleston	54	42	36	Tr	0·3	4·2
Mildenhall	52	37	·	1	0·1	0·3
Cranwell	53	40	36	—	0·2	1·1
Birmingham	51	44	39	0·3	1	0·1
Upper Heyford	54	42	35	0·4	2	
Ross-on-Wye	59	45	43	0·6	2	0·5
Hartland Point	55	50	48	1	3	0·1
Bristol	54	47	41	Tr	Tr	0·5
Portland Bill	56	50		—	1	
Plymouth	57	50	48	0·2	Tr	1·0
The Lizard	56	50	*	0·5	0·5	1·7
Scilly (St. Mary's)	65	50	*	—	0·2	0·5
Guernsey						
Pembroke	55	49		—	4	0·1
Holyhead (Valley)	52	47	44	1	5	
Chester (Sealand)	54	46	43	0·1	19	3·3
Manchester	51	42	38	Tr	0·1	*
Spurn Head	51	42	·	—	-	6·3
Catterick (Sc)	50	39	32	—	-	5·6
Tynemouth	50	40	35	—	-	*
St. Abbs Head	47	40		—	-	
Leuchars	51	34	33	Tr	-	7·4
Renfrew (Abbots I.)	49	37	29	Tr	1	6·6
Eskdalemuir	46	36	31	0·1	1	6·4
Point of Ayre	53	44	*	0·3	1	0·9
Tiree	49	38	36	3	8	3·0
Stornoway	46	35	30	2	3	2·3
Dalwhinnie	40	33	27	5	1	0·5
Aberdeen †	46	36	30	0·4	-	3·5
Wick	48	33	30	5	2	
Sumburgh	44	35	29	1	0·6	2·8
Blacksod Point	53	43	*	2	3	
Malin Head	51	40		1	3	0·8
Aldergrove	50	41	37	0·3	1	2·4
Birr Castle	53	45	41	0·1	1	0·1
Valentia Obsy.	52	50	47	0·6	1	0·1
Roches Point	55	49	*	0·1	0·1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 12th November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 13th November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
100	36	02755	61686	36	02744	27524	36	26854	31285	36	81755	29186
115	87	15844	95826	37	81844	28586	37	10844	28426	87	88844	28387
203												
206	36	25854	59684	86	25855	26287	86	25854	26487	8-	81857	32187
210												
219	86	25854	62785	86	25855	59685	8-	25844	60785	8-	25845	28356
230	36	25855	60585	33	81854	61584	62	64645	28488	·		
245	36	01958	61583	36	01952	28412	53	02952	25324	84	01951	28212
260												
278												
279	20	01854	61585	83	02853	26485	83	02854	22385	83	02854	24385
285	23	01743	28714							23	01745	28414
288	20	01852	59613	04	01890	58513	53	02863	24315	53	01863	23315
575	92	25744	61586	97	82745	28488	97	02744	62428	93	81644	59585
301	86	12755	27685	8-	81646	60486	57	02744	57527	26	02855	28685
321	7-	05664	61514	50	05662	28412	83	81755	26426	54	22655	26266
299	5-	01753	24513	80	01752	24502	20	01753	24313	80	01752	22302
292	46	01854	59524	44	01852	59413	57	02854	22217	57	01890	24123
310	60	02628	26628	60	02628	20628				06	01624	20324
614	26	02754	61425	86	81655	30316	53	05654	24327	5-	05655	26325
333	23	02745	59687	32	81645	58588	52	62635	60567	27	22755	28427
334	--	02646	28317	--	02745	30516				--	25636	28367
340	77	02854	63525	40	01754	28484	5-	64844	24268	53	22754	26266
136	8-	01763	24613	40	01762	24512	03	05690	22426	57	22655	22368
336	52	22644	28546	57	05654	28526				57	22654	28467
350	5-	02854	59515	54	01753	59413	5-	22757	20267	57	22745	22367
368				83	25745	61586				87	62743	59688
379	5-	51845	61457	87	02854	28385				52	62636	25368
390	77	05654	59425	40	05663	61423	5-	05657	24217	57	51655	20268
382	86	22845	63466	57	02854	25384	62	62745	23268	52	62745	24368
438	80	01755	24615				8-	25757	24587	8-	02758	24628
430	53	02753	26327	53	01745	26425	5-	21745	59458	5-	63446	22428
409	5-	62635	27568	57	02845	26526	5-	54748	59658	52	62636	59668

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 13th November
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	cm₀ir₀f	pr₀bcz₀	cbcir₀m₀
Croydon	cir₀cm₀	cm₀r₀r₀bcz	bcm₀cm₀
Greenwich	c	cy	cbcbcrrm
Camden Square	c	c	*
Kensington	cbcpbc	bcc	*
Hampstead	bcp	or	or

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·31 Time 18h. 12th. Min. <0·1 Time 04h 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	54	46	41	0·1	4	0·3	*	*
Croydon	54	46	43	Tr	5	0·6	*	*
Greenwich	54	45	37	-	5·3	0·3	57	95
Westminster	55	46	38	4·6		*	68	97
Regents Park	54	46	40	-	4·7	*	61	96
Camden Square	54	46	39	-	5·1	*	*	95
Kensington	54	46	37	Tr	4·5	*	61	96
Hampstead	52	42	36	Tr	4·8	*	*	98

Page 1

BRITISH SECTION

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

SECRET

Sunday 14th November 1943

No. 29342

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

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)	93·0	-40	WNW	4	bc	51	65	43	7	8	3	3	4-6	4-6	1500
	Croydon	93·7	-42	N	4	bc	51	65	40	6	5	4	-	4-6	4-6	1500
	S. Farnborough	93·8	-44	W'N	5	b-bc	52	65	41	8	2	4	-	2-3	2-3	2000
	Boscombe Down	95·9	-34	WNW	6	bc	50	65	38	8	8	-	-	4-6	4-6	3000
	Thorney Island	96·5	-32	W'N	4	bc/p	52	85	47	8	1	4	-	4-6	4-6	1500
	Lympne	93·5	-42	WNW	4	c-bc	49	92	47	7	5	-	-	4-6	7-8	1000
	Manston	94·2	-40	NW	3	zo	49	75	42	6	5	-	-	9	9	2800
2	Shoeburyness	93·8	-40	W	2	zo	49	85	43	6	2	6	-	4-6	7-8	1500
	Felixstowe	92·2	-54	WNW	5	zo	50	75	43	6	5	7	-	4-6	7-8	4000
	Gorleston	91·3	-32	WNW	4	cbcq	50	65	40	7	1	-	-	7-8	7-8	2000
	Mildenhall	91·8	-40	W	3	c	46	92	42	8	8	6	-	4-6	9	2500
	Cranwell	91·4	-44	W'N	4	zo	46	75	39	6	8	7	-	7-8	9	1500
3	Birmingham	93·0	-36	WNW	4	cbc	47	75	40	7	8	-	-	7-8	7-8	2500
	Upper Heyford	94·5	-30	W'N	5	b-bc/pr	45	85	41	9	8	4	-	2-3	2-3	2500
4	Ross-on-Wye	94·9	-40	WNW	5	b-bc	47	65	35	8	8	-	3	2-3	2-3	3000
5	Hartland Point	98·5	-30	NW	5	cjp	49	65	39	7	3	6	-	4-6	9	1500
	Bristol	96·4	-34	W	4	c	50	65	37	7	8	6	-	7-8	9	2500
	Portland Bill	98·8	-20	W	5	rr	52	92	50	7	5	-	-	10	10	2500
	Plymouth	00·2	-36	NW	4	ir	50	92	47	6	6	2	-	9	10	800
	The Lizard	01·9	-40	W	7	c/r	52	92	50	8	8	-	-	9+	9+	1500
	Scilly (St. Mary's)	03·0	-38	NW'W	7	c-bc/pr	51	92	47	7	8	6	-	4-6	7-8	1100
	Guernsey															
6	Pembroke	98·4	-26	NW	6	cbcq	49	75	42	7	8	-	-	7-8	7-8	2000
7	Holyhead (Valley)	94·9	-22	NW'W	7	c/phr	40	97	40	8	3	-	-	9+	9+	1500
	Chester (Sealand)	94·7	-34	NW'N	6	phr	42	75	36	6	3	-	-	10	10	1500
8	Manchester	92·8	-34	NW	4	PR	40	97	39	6	9	6	-	9	9+	2000
10	Spurn Head	90·6	-30	WNW	5	zo	46	75	37	6	8	3	-	4-6	9	1500
	Catterick (Sc)	91·3	-18	WNW	5	c	45	65	35	8	8	7	-	7-8	9	2500
	Tynemouth	90·6	-20	WNW	3	bc	43	65	33	7	2	3	1	2-3	4-6	2500
11	St. Abbs Head	89·6	-18	WNW	4	cbc	42	55	27	7	2	4	-	4-6	7-8	3000
	Leuchars	98·7	-22	WNW	3	c-bc	44	65	33	8	8	4	1	4-6	7-8	3500
12	Renfrew (Abbots I.)	90·4	-24	NW	3	pr	44	75	34	8	8	4	-	4-6	9+	1500
	Eskdalemuir	89·6	-22	NNW	2	c	39	75	30	8	6	4	-	9	9+	1800
	Point of Ayre	91·9	-28	N'W	5	PR	42	92	40	8	9	-	-	9+	9+	2500
13A	Tiree	92·2	-14	NW	4	pr	39	85	36	7	3	-	-	9+	9+	1200
13B	Stornoway	92·9	+10	N	6	prs	40	85	35	6	9	-	3	4-6	9	1600
15	Dalwhinnie	91·0	-16	NW	3	c	35	85	29	8	5	7	-	4-6	9	1500
	Aberdeen	89·6	-16	NW	3	cbc	39	85	35	8	3	6	3	2-3	7-8	2500
	Wick	90·6	-6	W	3	bc	40	85	34	8	3	6	3	2-3	4-6	2000
16	Sumburgh	88·2	-14	N'W	5	bc	41	85	35	9	3	6	4	4-6	4-6	2500
17	Blacksod Point	01·8	-14	NW	7	c/phr	44	75	37	7	9	-	3	7-8	9	1500
18	Malin Head	93·3	-20	NW	6	phr	39	75	32	8	8	-	-	9+	9+	1500
	Aldergrove	94·0	-28	NW'N	3	c/pr	39	85	36	8	9	7	3	4-6	9+	2000
19	Birr Castle	09·3	-20	NNW	2	bc	41	85	37	8	8	-	-	4-6	4-6	1500
20	Valentia Obsy.	07·2	-10	NW'N	7	bc/phr	45	75	38	8	3	-	-	4-6	4-6	2100
	Roches Point	02·5	-14	NNW	7	bc/pr	48	85	44	8	3	-	3	4-6	4-6	1500

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

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)	90·1	-10	NWN	4	pr	40	85	34	5	6	2	-	9	9+	800	1	*
Croydon	89·9	-18	WNW	4	pr	41	85	36	6	8	-	-	9	9	1700	1	*
S. Farnborough	90·2	-16	WNW	4	c-bc	41	85	85	8	9	6	3	4-6	7-8	2000	1	*
Boscombe Down	92·5	-10	W'N	4	bc/pr	37	92	35	6	3	-	-	4-6	4-6	1500	1	*
Thorney Island	92·4	-10	W'N	4	m	42	92	38	4	8	2	-	7-8	9+	4000	1	*
Lympne	89·2	-24	WNW	4	zo	41	85	36	6	4	-	-	9	9	3000	1	§5
Manston	89·5	-24	W'N	3	pr	43	75	37	6	3	-	-	10	10	1400	1	*
Shoeburyness	89·8	-16	-	0	c/pr	40	92	35	6	9	-	-	7-8	10	1500	1	*
Felixstowe	88·9	-6	NW	5	zo	44	75	37	6	5	-	-	7-8	7-8	4300	0	3
Gorleston	86·9	-32	S	2	c/pr	43	75	37	6	8	-	-	9+	9+	800	1	3
Mildenhall	88·1	-18	W'N	4	c/pr	41	85	37	8	8	6	2	2-3	7-8	2500	1	*
Cranwell	·886	-2	W	3	iHo	37	92	35	6	5	-	-	10	10	1500		*
Birmingham	90·9	-10	NW	3	roro	37	97	36	6	6	-	-	10	10	800	1	*
Upper Heyford	90·5	-10	NW'W	5	bc/pr	35	92	34	8	4	-	-	4-6	4-6	3300	1	*
Ross-on-Wye	92·2	-10	W'S	2	bc	39	97	33	8	8	-	3	4-6	4-6	2500	1	*
Hartland Point	95·8	-8	NW	6	bc/c	45	65	31	7	3	6	-	7-8	9	1500	1	5
Bristol	93·6	-2	WNW	4	bc/pr	39	85	35	7	3	6	3	2-3	4-6	2500	1	*
Portland Bill	95·6	-4	NW	5	c-bc	45	92	43	8	5	-	-	7-8	7-8	4000	1	4
Plymouth	97·8	-2	WNW	5	c-bc/pr	42	75	33	7	9	6	3	4-6	7-8	2500	1	4
The Lizard	89·7	0	WNW	7	c-bc/r	46	65	36	7	8	-	-	7-8	7-8	2000	1	5
Scilly (St. Mary's)	01·4	+2	NNW	8	c-bc	46	85	40	7	8	6	-	4-6	7-8	1000	1	6
Guernsey																	
Pembroke	96·4	0	NW	8	cbcq	45	75	35	7	6	5	-	7-8	7-8	1800	1	5
Holyhead (Valley)	91·7	-4	NW	7	bc	42	75	35	8	8	-	-	4-6	4-6	2500	1	5
Chester (Sealand)	91·6	-2	NNW	5	c/phr	38	85	34	5	3	-	-	10	10	1400	1	*
Manchester	89·6	-6	NW'W	3	c/pr	38	92	35	6	3	-	-	9	9	2000	1	*
Spurn Head	87·6	-4	WSW	3	iro	40	85	36	6	8	-	-	9+	9+	1500	1	3
Catterick (Sc)	88·6	-10	NW	4	bc	37	85	33	7	5	6	-	4-6	4-6	1500	0	*
Tynemouth	88·7	-4	NW	4	zo	39	75	32	6	2	-	-	4-6	4-6	2500	0	3
St. Abbs Head	88·8	0	N	5	phr	41	65	30	7	8	-	-	9	9	2500	0	4
Leuchars	90·6	+2	N	3	b-bc	37	85	32	7	4	4	-	1	2-3	3000	0	*
Renfrew (Abbots I.)	92·6	+24	N'W	3	b	36	85	31	8	4	-	1	1	1	3000	1	*
Eskdalemuir	90·2	+10	NNW	1	bc	31	85	26	8	5	-	-	4-6	4-6	1800	1	*
Point of Ayre	83·8	-2	NE'E	5	cjp	41	85	37	8	9	-	-	9+	9+	2500	1	4
Tiree	95·9	+34	NNE	4	bc	42	85	37	8	3	-	-	4-6	4-6	2000	1	3
Stornoway	95·2	+14	N	5	bc/pr	40	85	35	7	3	-	3	4-6	4-6	1800	1	
Dalwhinnie	92·5	+12	N	3	c-bc	33	85	30	8	5	-	-	7-8	7-8	2500	0	*
Aberdeen	89·7	+4	NNW	3	rr	36	97	35	6	9	-	-	9+	9+	2500	1	2
Wick	90·0	-6	NNW	3	bc	36	85	31	8	9	6	3	2-3	4-6	2000	1	*
Sumburgh	88·5	+10	N'W	5	prs	38	92	36	9	3	6	3	9	10	1500	1	3
Blacksod Point	02·4	+10	NW	7	c/phr	44	65	33	7	4	-	-	9	9	1500	1	6
Malin Head	94·3	+16	NNW	7	PHR	43	75	36	8	8	-	-	10	10	1500	2	5
Aldergrove	93·7	+6	NW	4	c/phr	37	92	35	8	9	-	3	7-8	9+	1500	1	*
Birr Castle	99·4	+2	NW	3	b-bc	37	92	35	8	3	-	-	2-3	2-3	1500	1	*
Valentia Obsy.	07·2	+6	NNW	8	bc	44	75	37	8	3	6	-	4-6	4-6	2500	1	6
Roches Point	02·8	+10	NNW	6	bc/pr	43	85	39	8	3	-	3	4-6	4-6	1500	1	4

PAST 24 HOURS.

Stations	Weather 7h.—13h. 13th (39)	Weather 13h.—18h. 13th (40)	Weather 18h. 13th to 1h. 14th (41)	Weather 1h.—7h. 14th (42)
London (Kew)	rirobc	bcKqpr	bccpro	cbcbmox
Croydon	crorobczo	czocmopr	cmoprocirocc	cmobcmo
S. Farnborough	cirorromodo	bcprophq	cbbcc	cirobcmobx
Boscombe Down	ciro cbc	bccprobc	cpro	cbc bwbx
Thorney Island	cirobc	bcidobc	bwbcwpro	cprobcbx
Lympne	ciroRmocrocbc	cbcpRcm	cmopRciro	cmoidocmox
Manston	cdodororomo	CZoprm	eproc	cpromob
Shoeburyness	cmorrio	cpRpromo	bmoiro	bcmdrox
Felixstowe	cmocrocmo	cbcmoc	cmoerorom	ciromob
Gorleston	bccq	eprozol	cttpro	tlropro
Mildenhall	ccprobcc	ccproc	cprocirorno	bcmobc
Cranwell	c,cmo	crrmocdodo	cmo	bmocmo
Birmingham	cprobc	bccir	cirosir	c
Upper Heyford	bromobcpb	pro cprob	bccproc	bcmobmox
Ross-on-Wye	crobcPhc	bcpocp	bccpbc	bbcc
Hartland Point	irbcc	cpr rp	cqmprr	cqtlr
Bristol	cprocmobcc	cpr,mopr	bccpr.c	bcbbx
Portland Bill	orr	c	coir	cbc
Plymouth	ciromo	cph,qpR	cpr	cbcpro
The Lizard	circ	circq	bcbpr	cprlc
Scilly (St. Mary's)	cpo	cpc	bcpocp	cdo
Guernsey				
Pembroke	cprq	cprq	cprlq	bcpRtlr
Holyhead (Valley)	cphrc	cprh bc	bcctlr	bcqprc
Chester (Sealand)	cproph	cmoprh	cprmo	bcprozo
Manchester	prpRq	cphqtl,p	cbmo	bccxpro
Spurn Head	cmo	ciro	bcpr	cro
Catterick (Sc)	bcv	cbc	bc	cprocprmo
Tynemouth	cbcmo	bcmo	bcpbc	cirq
St. Abbs Head	cbc	bcc ph	cbc	cmoTrcmo
Leuchars	bc	bcb	crrmo	crrmorrc
Renfrew (Abbots I.)	cpr	eprcbcb	bbcc	cycbc
Eskdalemuir	bcbcc	roSocbc	bcxb	biRc
Point of Ayre	cprc	Phrc	b	bbccy
Tiree	cpr,ph,pro	cprophbc		cbcyeprobc
Stornoway	cmocpro	cpRscpr	cprcprocbcy	bccprobcphc
Dalwhinnie	c	c	*	cposbc
Aberdeen	bcprc	cprs-cr	cprosbcprs	cirscros
Wick	cbc	cpr,cbc	bcprocprphc	ccp robc
Sumburgh	bc	prsc	cpro	cpro
Blacksod Point	pr	pr	pr	pr
Malin Head	pr	pr	pr	pr
Aldergrove	prcphcp	cprocpH	prbcpphro	cprbcproc
Birr Castle	bc	pr	*	pr
Valentia Obsy.	pr	pr	pr	pr
Roches Point	pr	pr	pr	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 14th November 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
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

Fresh to strong squally northerly winds, with gales in many places; widespread thundery showers of rain, hail, and sleet, with snow on high ground; scattered thunderstorms; very cold, with local frost in morning.

16 Orkneys and Shetlands
17 N. W. Ireland
18 N. E. Ireland
19 S. E. Ireland
20 S. W. Ireland

As 1- 15

GENERAL INFERENCE

A very cold northerly current covers the British Isles, with gales in many places; there will be widespread wintry showers with local thunderstorms, and snow on high ground.

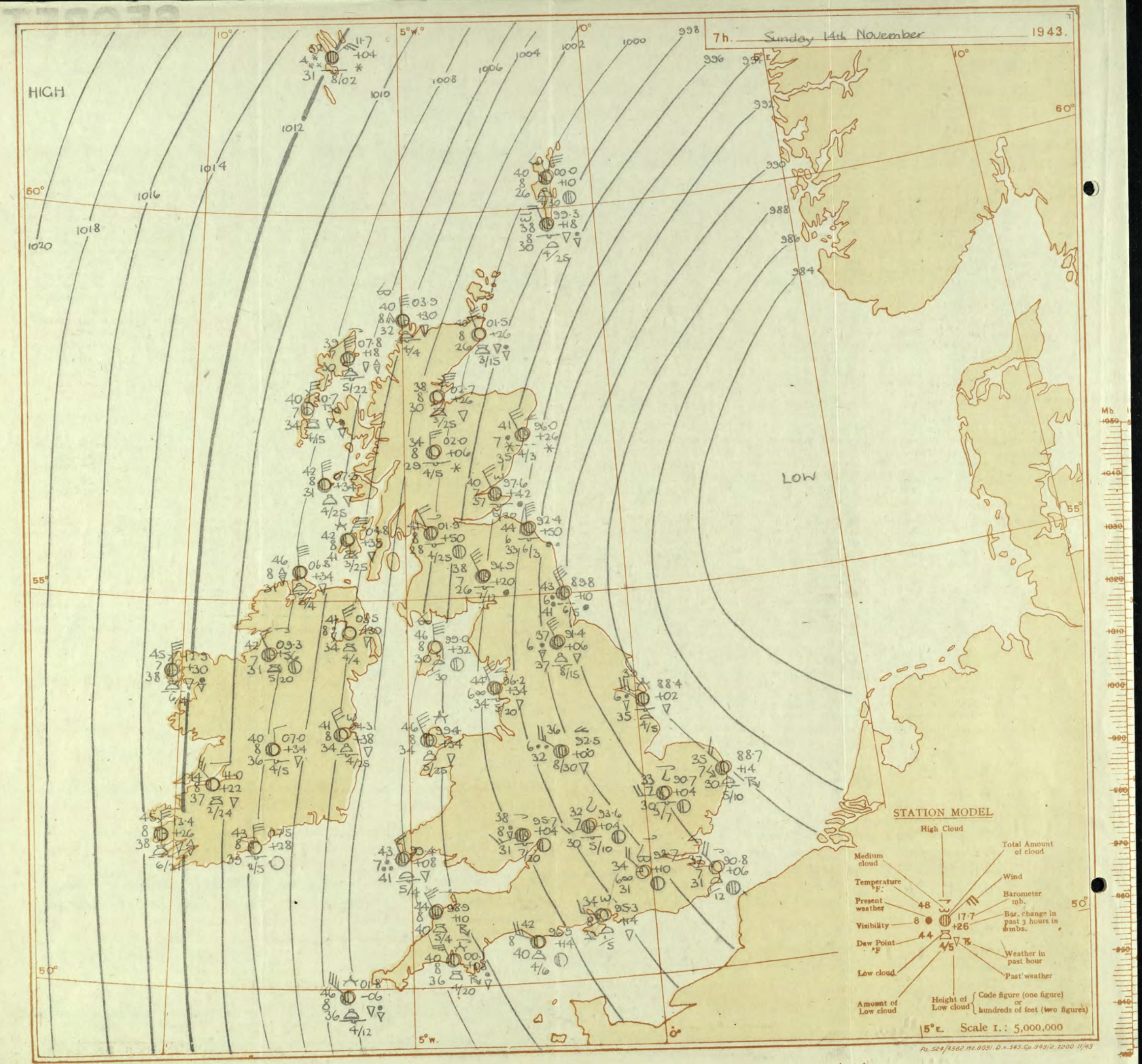
FURTHER OUTLOOK

Little change

Gale warning in operation in all districts 2 to 20. time of issue 1400 G.M.T Nov 11th 0240 G.M.T Nov 12th 0820 G.M.T Nov 13th 1700 G.M.T Nov 13th 0600 G.M.T Nov 14th 0840 G.M.T Nov 14th

Forecasts issued at 10·30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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Ps.524/4582. Wt.8091. D.w.545. Gp.943/2. 7200. 11/43

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 14th November 1943

No. 29942

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

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	90·7	+10	NW	4	c	39	85	34	6	5	-	-	10	10	1200
	S. Farnborough	226	91·3	+8	NW'W	3	c	38	85	33	8	5	7	-	9+	10	1500
	Boscombe Down	417	93·3	+6	NW	3	c	36	92	34	8	2	-	-	10	10	1500
	Thorney Island	10	92·2	+4	W'N	4	pr	39	85	35	8	2	-	-	2-3	9	2500
	Lympne	283	89·0	+8	NW	4	roro	36	92	34	6	5	2	-	7-8	10	1000
	Manston	154	87·9	+2	NW'N	5	pr	38	92	35	6	9	-	-	10	10	900
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	87·7	-2	NNW	4	roro	36	97	36	6	6	2	-	4-6	10	800
	Gorleston	5	86·3	0	NW'N	3	c/pr	34	85	30	7	8	-	-	9+	9+	1500
	Mildenhall	15	88·8	+6	NW'W	4	zo	36	92	34	6	5	4	8	2-3	9+	1500
	Cranwell	203	90·4	+6	NW'W	3	zo	35	85	32	6	-	3	-	0	4-6	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	91·6	+14	NW	3	zo	34	97	33	6	5	3	-	4-6	7-8	900
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	96·3	+10	NW	8	ir	44	75	38	7	9	-	-	9+	9+	800
	Bristol	209	94·3	+10	WNW	3	cbc/pr	37	85	34	8	8	6	3	2-3	7-8	1500
	Portland Bill	32	94·3	-8	NW	5	d	41	92	39	7	5	-	-	10	10	2500
	Plymouth	86	97·6	+4	NW	5	pr	41	85	36	8	3	-	3	7-8	9	2500
	The Lizard	240	99·0	-2	WNW	7	bc/pr	43	75	36	7	8	-	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	01·1	0	N'W	7	cbc/pr	45	75	38	8	8	-	-	7-8	7-8	1500
	Guernsey	175															
6	Pembroke	142	96·9	+6	NNW	7	cbc/pr	44	85	39	7	8	-	-	7-8	7-8	2000
7	Holyhead (Valley)	32	95·3	+16	N'W	6	cbc/rlR	44	75	37	8	3	-	-	7-8	7-8	2500
	Chester (Sealand)	16	93·2	-10	N	3	zo	38	75	31	6	3	-	-	2-3	2-3	2400
8	Manchester	230	92·0	+18	NW	2	zo	31	92	29	6	-	-	-	0	0	-
10	Spurn Head	29	87·9	+6	NW	6	pr	38	92	35	6	7	6	-	4-6	7-8	2500
	Catterick (Sc)	192	90·4	+2	NW	5	b-bc	35	75	29	7	5	-	5	2-3	2-3	2000
	Tynemouth	108	90·0	+2	NNW	4	bc	34	85	39	7	2	3	1	2-3	4-6	2500
11	St. Abbs Head	280	89·9	-12	WNW	5	bc	40	75	34	7	5	-	-	4-6	4-6	1500
	Leuchars	36	91·5	+8	WNW	4	roro	39	97	38	6	5	-	-	10	10	2000
12	Renfrew (Abbots I.)	19	95·5	+10	WSW	3	c	39	75	32	7	5	2	-	4-6	9+	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	94·0	0	N'E	6	b	43	65	33	8	2	-	-	Tr	Tr	2000
13A	Tiree	44	00·6	+34	N	6	c/p	43	75	36	7	5	-	-	9	9	1500
13B	Stornoway	12	02·5	+42	NNE	6	c-bc	44	55	40	7	8	-	-	7-8	7-8	2800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	90·1	+2	NNE	6	pr	41	85	38	7	8	-	-	4-6	10	900
	Wick	114	95·9	+38	NNE	9	c/pr	44	85	40	7	9	7	-	7-8	10	2000
16	Sumburgh	19	94·4	+26	N'E	8	c/pr	41	75	33	8	2	6	7	4-6	9+	1500
17	Blacksod Point	18	07·7	+18	N'W	7	cbc/phr	43	75	36	7	9	-	-	7-8	7-8	1500
18	Malin Head	84	00·3	+18	N	8	phR	45	75	38	8	8	-	-	9	9	1500
	Aldergrove	268	98·0	+6	N'W	2	pr	38	97	37	7	9	-	-	9+	9+	1600
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
20	Valentia Obsy.	30	09·5	+18	N'W	6	phR	44	75	37	6	9	-	-	10	10	1600
	Roches Point	22	04·7	+10	N'W	6	b	42	85	38	8	3	-	-	1	1	1500

OBSERVATIONS at 7 hr. G.M.T. 14th November — 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)	Temp. Max. Day 7h–18h °F. (33)	Temp. 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)	94·0	+12	WSW	2	zo	35	85	31	6	5	-	-	2-3	2-3	2500	1	*	51	35	28	3	0·2	1·7
Croydon	93·7	+10	NW'W	4	zo	34	85	31	6	-	7	1	0	1	-	0	*	51	33	30	4	0·2	2·0
S. Farnborough	94·3	+8	WNW	3	b	33	92	32	8	-	4	1	0	Tr	-	0	*	53	33	27	4	Tr	3·5
Boscombe Down	96·2	+10	WNW	4	b	35	85	30	8	8	-	1	Tr	1	2500	0	*	51	32	29	3	0·3	3·4
Thorney Island	95·3	+14	W'N	3	b	34	92	32	8	1	3	-	Tr	Tr	2500	1	*	54	33	29	3	Tr	*
Lympne	92·4	+22	NW	3	zo	32	92	31	5	5	-	3	Tr	2-3	1400	1	§	53	32	29	4	2	2·8
Manston	90·8	+6	NW'N	4	b-bc	37	85	31	7	1	-	8	Tr	2-3	1200	1	*	48	37	35	4	2	0·6
Shoeburyness	92·2	+16	N	4	zo	34	85	29	6	-	4	-	0	2-3	-	1	*	50	32	29	2	1	1·5
Felixstowe	90·3	+10	NNW	5	b	35	75	29	7	5	-	-	1	1	4000	1	5	50	35	31	1	1	2·8
Gorleston	88·7	+14	NW	3	l	35	85	30	7	8	-	-	7-8	7-8	1000	1	3	50	35	31	Tr	5	5·2
Mildenhall	90·7	+4	N	4	bc	33	85	30	7	6	4	2	2-3	4-6	5700	1	*	53	32	24	0·4	1	0·7
Cranwell	91·1	0	NW	3	c	36	85	32	7	5	-	-	9	9	2500	0	*		32			3	1·8
Birmingham	93·8	+4	WNW	5	zo	36	97	36	6	5	2	-	7-8	9	1500	1	*	47	33	28	2	4	2·8
Upper Heyford	93·6	+4	WSW	3	c	32	97	30	7	5	-	6	7-8	9	1000	1	*	49	31	26	4	0·2	*
Ross-on-Wye	95·7	+4	WSW	3	pr	38	75	31	8	6	-	3	9+	9+	2000	1	*	50	34	27	3	0·5	1·8
Hartland Point	98·9	+10	NNW	5	c-bc	44	85	40	8	3	-	-	7-8	7-8	1500	1	5	52	40	37	4	2	1·3
Bristol	96·7	+10	WSW	3	bc	36	92	34	7	4	4	-	2-3	4-6	2300	1	*	52	34	30	2	2	2·3
Portland Bill	96·9	+14	WNW	5	bc	42	92	40	8	2	-	-	4-6	4-6	4000	1	5	55	40		3	0·4	*
Plymouth	00·1	+8	NNW	5	cbc/pr	40	85	36	8	3	6	3	4-6	7-8	2000	1	3	53	37	35	8	3	0·3
The Lizard	00·8	+2	WNW	6	c/pr	43	85	39	7	8	-	-	9+	9+	2000	1	5	53	41	*	3	4	1·3
Scilly (St. Mary's)	01·8	-6	NW'N	7	cbc/pr	46	65	36	8	8	6	-	4-6	7-8	1200	1	6	54	43	*	-	0·4	1·7
Guernsey																							
Pembroke	99·4	+8	NW	4	rr	43	92	41	7	8	-	-	7-8	7-8	2000	1	5	52	40		4	0·3	1·0
Holyhead (Valley)	99·4	+34	NNW	7	c	46	65	34	8	2	6	-	7-8	9	2500	1	5	49	40	36	3	2	*
Chester (Sealand)	95·0	+18	N	5	c	44	75	36	7	8	-	-	9	9	2500	1	*	48	34	28	13	Tr	0·7
Manchester	93·9	+6	NW	5	pr	38	85	35	6	2	6	-	4-6	9	2000	1	*	45	31	24	5	0·3	*
Spurn Head	88·4	+2	WNW	6	pr	39	85	35	6	7	6	-	4-6	7-8	2500	1	4	46	36	*	1	0·5	1·7
Catterick (Sc)	91·4	+6	NNW	7	PR	37	97	37	6	8	-	-	10	10	1500	1	*	46	34	31	-	6	2·8
Tynemouth	89·8	+10	NNW	8	ir	43	92	41	6	6	-	-	9	9	2500	1	4	44	34	30	-	5	*
St. Abbs Head	92·4	+50	N	9	c/pr	44	65	33	6	5	-	-	9	10	800	1	6	42	28	*	Tr	9	*
Leuchars	97·6	+42	NNW	5	c	40	85	37	7	5	3	-	7-8	9+	2000	1	*	49	36	29	-	6	3·8
Renfrew (Abbots I.)	01·9	+50	NNW	4	ebc	41	55	28	8	5	-	1	4-6	7-8	2500	1	*	49	33	23	Tr	0·1	1·4
Eskdalemuir	94·9	+20	NNW	7	c	38	65	26	7	5	-	-	9+	9+	1200	1	*	40	30	24	0·3	6	2·2
Point of Ayre	99·0	+32	N'E	8	c	46	55	30	8	1	7	-	Tr	9+	3000	0	5	47	40	*	7	-	0·5
Tiree	07·3	+34	N	8	bc	42	65	31	8	2	-	-	4-6	4-6	2500	1		43		37	6	4	1·0
Stornoway	07·8	+18	N	7	cbc/phr	39	65	30	7	8	-	3	7-8	7-8	2200	1	6	41	34	25	1	2	0·0
Dalwhinnie	02·0	+6	N	5	bc	34	85	29	8	5	-	-	4-6	4-6	2500	1	*	37	30	27	-	1	1·1
Aberdeen †	96·0	+36	NNW	6	rs	41	75	35	7	6	2	-	4-6	9+	800	1	4	39	33	31	1	7	3·5
Wick	01·5	+26	N'W	8	b-bc/pr	40	55	26	8	3	-	3	2-3	2-3	1500	1	*	40	34	31	0·5	1	*
Sumburgh	99·3	+18	NW	6	c/pr	38	75	30	8	4	3	1	4-6	9+	2500	1	5	43	32	35	1	4	4·7
Blacksod Point	12·9	+30	N	7	c/pr	45	75	38	7	9	-	-	9	9	1500	1	6	45	40	*	2	5	*
Malin Head	06·8	+34	N	8	phR	46	55	31	8	8	-	-	7-8	7-8	1500	2	6	44	41		4	1	0·0
Aldergrove	03·6	+30	N	5	pr	41	75	34	8	3	-	-	4-6	4-6	1300	1	*	42	36	31	4	4	0·4
Birr Castle	07·0	+34	N	2	bc	40	85	36	8	5	-	-	4-6	4-6	2500	1	*	47	36	32	3	3	1·3
Valentia Obsy.	13·4	+26	N'E	6	c/phr	45	75	38	8	9	-	-	9	9	2100	1	6	52	38	34	3	8	2·0
Roches Point	07·5	+28	N	6	b	43	85	39	8	5	-	-	1	1	2500	1	4	51	41	*	1	0·2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 13th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 14th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	36	34685	90340	36	02754	61484	96	02645	65988	86	27654	65884
115	87	81844	08386	87	88544	32586	87	88744	99887	87	15844	99886
203												
206	23	02954	26285	30	25853	28383	36	02855	35687	30	01853	35783
210	26	02945	27285	26	01843	26584	9-	25634	65888	4-	02846	65725
219	9-	26847	02487	36	25844	02686	82	02855	35628	3-	25744	34684
230	9-	89538	32188	86	01353	02383	8-	25858	02288	5-	01863	32423
245	86	02954	64415	36	01943	30413	9-	81734	63687	36	02744	35765
260	53	05654	24215	46	05544	28314	57	05664	28225	57	05645	28326
276												
279	82	02866	26427	40	01753	28223	50	01863	28214	8-	02846	65686
285	23	02744	28516							62	67625	30678
288	87	01854	18415	04	41590	26341	06	01790	26412	9-	81658	63588
575	96	81735	63486	37	81744	65485	9-	81834	62687	3-	02755	63416
301	9-	81747	62487	9-	25645	61485	13	05552	31302	52	05655	64588
321	26	05664	28246	96	81645	28388				5-	02758	28428
299	20	02755	22315	80	01744	32514	8-	22746	26666	8-	63746	24566
292	26	02854	28215	09	01790	28394	04	01890	28313	9-	82856	63586
310	2-	89428	26588									
614	86	05654	24325	9-	81556	26386	04	05690	28213	52	26645	27377

III	13h. G.M.T. 13th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 14th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	57	88855	59587	2-	27755	61785	3-	88844	35586	33	25757	63788
334	--	89646	28387	--	27646	28487						
340	87	25854	26384	6-	22746	28286	50	05651	28211	72	02744	30488
136	26	01763	24514	8-	05648	24488	8-	81848	28588	46	01843	24525
336	80	81645	28585									
350	96	02845	55365	97	25845	57498	8-	02745	26485	54	05663	24314
368	80	25645	57587	8-	02864	61684						
379	87	02853	59584							87	01863	26415
390	8-	81557	28317	8-	81447	26388	8-	05567	57527	07	05590	24402
382	8-	25854	93484	96	01854	62384				54	01761	-----
438	80	25554	24484	8-	25757	26587	26	01851	28302	60	01752	26412
430	23	01933	23364	8-	61645	59467	10	01842	43414	03	01890	28312
409	57	22745	64687	30	27744	61684	2-	02856	61785	3-	25845	64685

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 14th November
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	rirobc	bckqpr	cbcmox
Croydon	crorcbczo	czo omopro	cmobcmo
Greenwich	rc	cqrtlcror	ircbcm
Camden Square	cpr	cpr	*
Kensington	crbc	bccrcr	*
Hampstead	orb ch	osx	o

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0·3 Time 8-10h 13th. Min. <0·1 Time 21-24 13th.

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	35	28	3	0·2	1·7	*	*
Croydon	51	33	30	4	0·2	2·0	*	*
Greenwich	50	33	28	0·3	1	1·0	62	77
Westminster	51	34	29	2			70	88
Regents Park								
Camden Square	51	34	29	2	0·1	*	*	87
Kensington	52	34	26	1	1		78	80
Hampstead	51	31	26	1	1		*	86

SECRET

Page 1 BRITISH SECTION

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

Monday 15th November 1943

No. 29943

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

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)	94·7	+6	NW	3	c/d	41	75	33	6	6	2	-	7-8	10	800
	Croydon	94·6	+4	WNW	4	zo	41	85	36	5	5	-	-	10	10	800
	S. Farnborough	95·2	+2	NNW	4	c/r	41	85	36	7	5	7	-	9	10	1000
	Boscombe Down	97·2	+6	NNW	6	c	43	75	34	8	5	-	-	9+	9+	1800
	Thorney Island	96·4	+6	NWW	3	c/r	43	85	38	7	5	7	-	4-6	9+	2500
	Lympne	93·2	-2	WNW	3	m/d	38	97	36	4	5	-	-	10	10	1500
	Manston	92·2	-2	NW'N	4	zo	41	85	36	6	8	-	-	10	10	1500
2	Shoeburyness	93·3	+4	WNW	4	c/pr	41	85	36	6	2	-	-	10	10	1500
	Felixstowe	90·7	+2	WNW	5	iro	41	92	38	7	5	-	-	10	10	4000
	Gorleston	89·1	+4	NW'W	3	iro	41	92	38	7	6	-	-	10	10	1000
	Mildenhall	91·8	+6	NW	5	c	42	85	38	8	5	-	-	10	10	1800
	Cranwell	94·3	+16	NW'N	5	prs	36	97	34	6	5	-	-	10	10	600
3	Birmingham	97·4	+10	NNW	5	zo	41	75	34	6	5	2	-	7-8	10	1500
	Upper Heyford	94·8	+6	NNW	6	c	40	75	33	7	5	-	-	9+	9+	1500
4	Ross-on-Wye	98·7	+10	N'W	6	cbcq	44	55	29	8	5	-	-	4-6	7-8	3000
5	Hartland Point	02·5	+16	N	5	pr	47	75	41	8	3	6	-	7-8	9	1200
	Bristol	99·2	+12	NW	5	zo	46	55	32	7	8	6	-	4-6	9+	2500
	Portland Bill	98·4	+6	WNW	5	c	47	92	45	8	2	-	-	9	9	4000
	Plymouth	02·5	+20	NNW	6	cbc/pr	48	65	38	8	3	6	3	4-6	7-8	2000
	The Lizard	04·2	+10	NW	6	bc	47	75	40	8	2	3	-	4-6	4-6	2500
	Scilly (St. Mary's)	06·8	+14	N'W	7	c	50	55	34	7	8	6	-	7-8	9+	1200
	Guernsey															
6	Pembroke	04·1	+12	N'W	7	cbcq	47	65	36	7	8	-	-	7-8	7-8	2000
7	Holyhead (Valley)	03·1	+12	N'W	7	bcjp	47	55	31	9	3	6	3	4-6	4-6	4000
	Chester (Sealand)	99·7	+8	N'W	5	c	44	55	29	8	7	-	2	4-6	9	4000
8	Manchester	98·3	+16	NNW	5	zo	41	65	30	6	4	6	-	4-6	10	2000
10	Spurn Head	90·9	+12	WNW	6	c/phr	44	75	35	7	8	-	-	9+	9+	800
	Catterick (Sc)	85·5	+16	NW	7	cbc	40	75	33	7	5	3	-	4-6	7-8	800
	Tynemouth	95·4	+20	NNW	8	c/r	42	85	36	6	6	-	-	10	10	1500
11	St. Abbs Head	97·8	+20	N	8	c	41	65	30	7	5	2	-	7-8	10	1500
	Leuchars	00·1	+4	NNW	5	c	41	55	28	8	5	7	8	4-6	10	2000
12	Renfrew (Abbots I.)	04·7	+4	N	4	bc	41	55	26	9	8	6	3	4-6	4-6	3500
	Eskdalemuir	98·8	+10	NNW	7	c-bc	37	75	29	8	5	7	-	4-6	7-8	1500
	Point of Ayre	02·5	+8	N'E	6	cbc	45	65	34	8	2	7	-	1	7-8	2500
13A	Tiree	08·0	-10	N	5	zo	41	75	26	8	5	6	-	4-6	7-8	2000
13B	Stornoway	07·9	+2	NNW	6	pso	32	97	32	6	3	6	-	7-8	9+	1600
15	Dalwhinnie	04·0	-2	N	4	ps	32	85	28	8	5	-	-	7-8	7-8	2500
	Aberdeen	99·3	+12	NNW	4	c	40	65	29	8	9	2	-	4-6	10	2500
	Wick	02·5	+4	N	7	c/pr	40	65	30	8	3	-	2	4-6	9+	1000
16	Sumburgh	00·4	+2	N'W	7	bc	40	85	34	8	2	6	3	Tr	4-6	2000
17	Blacksod Point	13·6	-6	N'W	4	c/phr	41	85	37	8	9	-	-	9+	9+	1500
18	Malin Head	07·3	-16	N	8	phr	43	97	43	8	8	-	-	4-6	4-6	1500
	Aldergrove	07·5	-10	NNW	3	bc/phr	39	92	37	8	3	7	-	4-6	4-6	2500
19	Birr Castle	10·8	+10	N	3	c	43	65	33	8	5	-	-	7-8	7-8	2500
20	Valentia Obsy.	15·1	+2	N'W	4	bc/phr	43	75	36	8	3	-	-	4-6	4-6	2300
	Roches Point	10·8	+16	N	6	bc	45	75	38	8	2	4	-	1	4-6	1500

OBSERVATIONS at 18h. G.M.T.

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)	96·0	+8	NNW	4	roro	37	85	33	5	6	2	-	9	10	800	1	*
Croydon	96·0	+10	NNW	5	dd	37	85	34	4	5	-	-	7-8	10	1100	1	*
S. Farnborough	97·6	+12	NW'N	4	rs	35	92	34	5	5	-	-	10	10	1400	1	*
Boscombe Down	99·3	+12	N'W	5	c	39	65	28	7	5	-	-	9+	9+	3500	1	*
Thorney Island	97·7	+12	NW	4	ido	40	85	35	6	5	2	-	2-3	9+	4000	1	*
Lympne	94·0	+14	NNW	5	o/d	37	85	33	5	5	-	-	10	10	1300	1	4
Manston	92·7	+8	NNW	5	zo	39	85	35	6	5	-	-	10	10	1200	1	*
Shoeburyness	94·4	+8	NNW	4	zo	37	85	34	6	5	-	-	9	9	1500	1	*
Felixstowe	91·6	+10	NW'N	5	o/r	39	85	35	6	5	-	-	10	10	800	1	5
Gorleston	89·9	+8	NW'W	3	rr	39	92	36	5	6	-	-	10	10	800	1	4
Mildenhall	93·2	+8	NW	6	o/r	37	92	34	6	5	-	-	10	10	1100	1	*
Cranwell	95·6	+14	NNW	7	o/r	39	75	30	6	6	-	-	10	10	600	1	*
Birmingham	99·2	+8	NW	5	c	38	75	31	6	5	2	-	9	10	1500	1	*
Upper Heyford	97·2	+10	N'W	7	c/ps	36	75	28	6	-	2	-	0	10	—	1	*
Ross-on-Wye	00·4	+6	N'W	4	c-bc	40	55	26	8	5	-	3	1	7-8	3000	1	*
Hartland Point	03·0	0	N	6	c-bcq	43	75	35	8	8	-	-	7-8	7-8	800	1	5
Bristol	00·9	+10	NW	4	zp	39	65	28	6	5	-	8	1	4-6	4000	1	*
Portland Bill	00·2	+4	WNW	5	c-bc	45	85	40	8	2	-	-	7-8	7-8	4000	1	5
Plymouth	03·5	+6	NNW	5	pr	41	85	35	8	9	-	3	4-6	9+	1700	1	3
The Lizard	05·0	+4	NW	5	c-bc/pr	42	65	31	8	6	-	-	7-8	7-8	1500	1	4
Scilly (St. Mary's)	07·2	+6	NNW	6	c	45	55	30	8	8	6	-	7-8	9	1200	1	6
Guernsey																	
Pembroke	04·5	-4	N'W	6	c-bcq	51	85	37	7	8	-	-	7-8	7-8	2000	1	5
Holyhead (Valley)	02·7	-2	N	6	c-bc/phr	41	65	30	8	3	6	3	4-6	7-8	2000	1	5
Chester (Sealand)	00·3	+4	N'W	4	c	41	55	26	8	1	-	8	1	10	3000	1	*
Manchester	99·3	+4	NW'N	4	zo	37	65	27	6	4	-	-	7-8	7-8	4000	1	*
Spurn Head	92·7	+12	NNW	7	roro	42	85	38	6	8	-	-	10	10	1500	1	5
Catterick (Sc)	87·4	+16	NW	6	c	37	75	31	8	5	7	-	2-3	9+	3000	1	*
Tynemouth	96·6	+4	NNW	8	c/pr	41	85	37	6	8	-	-	9	9	1500	1	6
St. Abbs Head	98·2	+12	N	8	cq	41	65	30	7	6	2	-	7-8	10	1500	1	6
Leuchars	01·4	+2	NNW	4	bc	38	65	27	8	5	7	-	2-3	4-6	2500	1	*
Renfrew (Abbots I.)	04·2	-2	NW	3	c-bc	35	75	27	8	4	4	3	4-6	7-8	2000	1	*
Eskdalemuir	00·3	+2	NNW	6	bc	34	65	24	8	5	1	-	4-6	4-6	1600	1	*
Point of Ayre	02·1	-6	N'E	6	b	41	75	33	8	2	-	-	1	1	2500	0	4
Tiree	08·8	+18	NNE	5	phr	35	85	32	7	9	-	-	10	10	1000	4	4
Stornoway	08·0	+8	N	5	ps	34	97	34	6	3	6	-	7-8	9	1400	2	3
Dalwhinnie	06·0	+12	N	4	c-bc	31	85	28	7	5	-	-	7-8	7-8	1500	0	
Aberdeen	00·4	+12	NNW	5	c	40	75	34	8	3	-	3	4-6	9+	2500	1	4
Wick	03·7	+10	NNW	5	b-bc	37	75	29	8	3	-	3	2-3	2-3	2000	1	*
Sumburgh	00·9	+14	N'W	6	pr	39	92	37	8	8	6	-	4-6	9	1800	1	4
Blacksod Point	10·9	-12	NNE	6	c/pr	38	92	36	7	9	-	-	9+	9+	1500	2	5
Malin Head	07·1	-2	N	7	ph	41	55	27	8	8	-	-	9	9	1500	2	6
Aldergrove	06·1	-2	NNW	1	c-bc	34	75	28	8	3	-	3	7-8	7-8	2500	4	*
Birr Castle	08·2	-12	NNW	2	c	36	85	32	8	5	2	-	7-8	10	2500	1	*
Valentia Obsy.	11·3	-28	N'W	4	PR	40	85	36	7	6	-	-	10	10	1800	1	5
Roches Point	09·8	-8	N	4	c/pr	41	85	37	8	3	7	-	4-6	9	1500	1	4

PAST 24 HOURS.

Stations	Weather 7h.—13h. 14th (39)	13h.—18h. 14th (40)	18h. 14th to 1h. 15th (41)	1h.–7h. 15th (42)
London (Kew)	idodocmo	cmoro	crorocmo	crcmo
Croydon	bmoidorsoc	cdodmodcd	docmo	cirodcmo
S. Farnborough	bcx, isocirc	crorosrsmo	cmrsszisosm	cirosmo
Boscombe Down	bxcpro crac	cbcc	c	cersoc
Thorney Island	cmoiro	cirocido	cmcodo	cposbc
Lympne	bczocm	cmocidmo	cmoc	cmmdodcmo
Manston	bcbcmo	cmo	cmoiro	cmoirocmo
Shoeburyness	bccpromo	cproma	cbcbmo	bccidoc
Felixstowe	bciro	iromocmo	crorobmo	cprcrrmo
Gorleston	cororoiro	octlhorr	crrogle	cbprhg
Mildenhall	cmoc	ciromo	ciromoc	cirbccpr
Cranwell	cprocprso	ciromo	crorom	cirocmo
Birmingham	ciro	c	cbc	bcm
Upper Heyford	cproc	prsrosoc	copsmcmo	cmopro
Ross-on-Wye	cirocbcc	cqybcy	cc	cc
Hartland Point	cprir	ccrphr	cqtsr	cbcc
Bristol	bcxqrocy	cybczoy	bczociro	irozoc
Portland Bill	prc	c	cc	oc
Plymouth	bcc pr	cpro jpc	cpro tlrc	c
The Lizard	tlrbc	bcprc	cbce	bcprc
Scilly (St. Mary's)	cpoc	c	c	bcdc
Guernsey				
Pembroke	cpr q	cprq	cprobcq	cprlq
Holyhead (Valley)	bcclb	cplcp	c	cbcc
Chester (Sealand)	c	cy	cyc	cbcpro
Manchester	cpromo	bczoyczo	bccz	cbcmo
Spurn Head	cphr	ororo	cqphr	bcpr
Catterick (Sc)	c pr	c	cpscir	bcbc
Tynemouth	orrcrsrs	ocpq	orrq	oirbcq
St. Abbs Head	cmoirc	cq	cqro	cqprcqro
Leuchars	cy	cycbc	cybcc	bccpro
Renfrew (Abbots I.)	bcy	cybcybc	bcbcybx	bcxpro
Eskdalemuir	c	cbc	bcc	cbc
Point of Ayre	c	b	bcc	cb
Tiree	cphbcphy	bcaPH	cbc	bcbobccy
Stornoway	cpsmo	cpsmbcqps	bcprc	cprhbcpr
Dalwhinnie	bc psoc	cpso		copsc
Aberdeen	cirsoqc	c	ccir *	ciro
Wick	bccpro	cbc	bhcccpr	cprcprmbc
Sumburgh	cjps bc	cprsho	hprsq	bccpro
Blacksod Point	pr	pr	c pr	pr
Malin Head	pr	pr	pr	pr
Aldergrove	bcphbcph	bcPHc	bbcphbbph	cbcb
Birr Castle	c	c *	*	bc
Valentia Obsy.	pr	pr	pr	pr
Roches Point	bc	pr	pr	b

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

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Moderate or fresh north to northwest winds, strong locally at first; scattered thundery showers of rain and hail especially in east, appreciable clearances tonight, local thunderstorms; very cold with local night frost.
5 S.W. England; 6 South Wales; 7 North Wales	Moderate or fresh northerly winds, strong to gale locally at first; thundery showers of rain and hail with sleet or snow on high ground, scattered thunderstorms; very cold.
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	Fresh or strong northerly winds, gale locally at first, backing and moderating slowly, thundery showers of rain and hail with sleet or snow on high ground, scattered thunderstorms, appreciable clearances tonight; very cold with local night frost.
13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Strong to gale northerly winds backing and moderating slowly; thundery showers of rain, hail, sleet and snow with local
16 Orkneys and Shetlands	Thunderstorms, more general rain and sleet in the North tomorrow with snow on high ground; very cold.
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	As 5-7.

GENERAL INFERENCE

Pressure is low to the east of the British Isles, and a large anticyclone covers the North Atlantic. Fresh or strong northerly winds, with gales locally at first, will moderate slowly. There will be thundery wintry showers in most districts with local thunderstorms; very cold

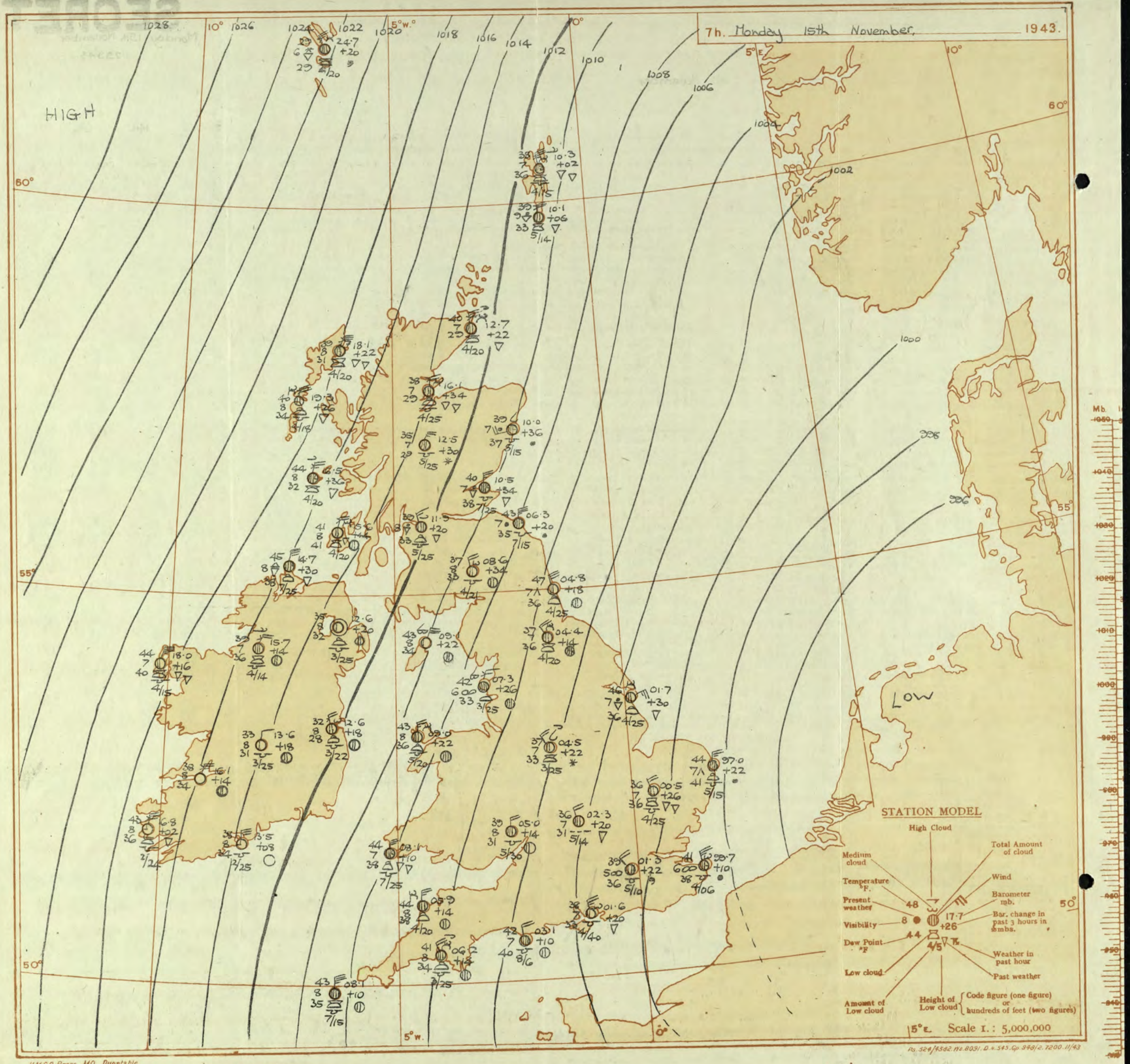
FURTHER OUTLOOK

Cold north to north west winds persisting with wintry showers in many areas

Gale warning in operation all areas 2-20. Times of issue 0240 GMT 12-11-43, 0820 GMT, 1700 GMT 13-11-43 and 0600 GMT, 0840 GMT, and 1135 GMT 14-11-43

Forecasts issued at 1030

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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

Rs. 524/4582. Wt. 8091. D.K. 545. Gp. 948/2. 7200. 11/43

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).

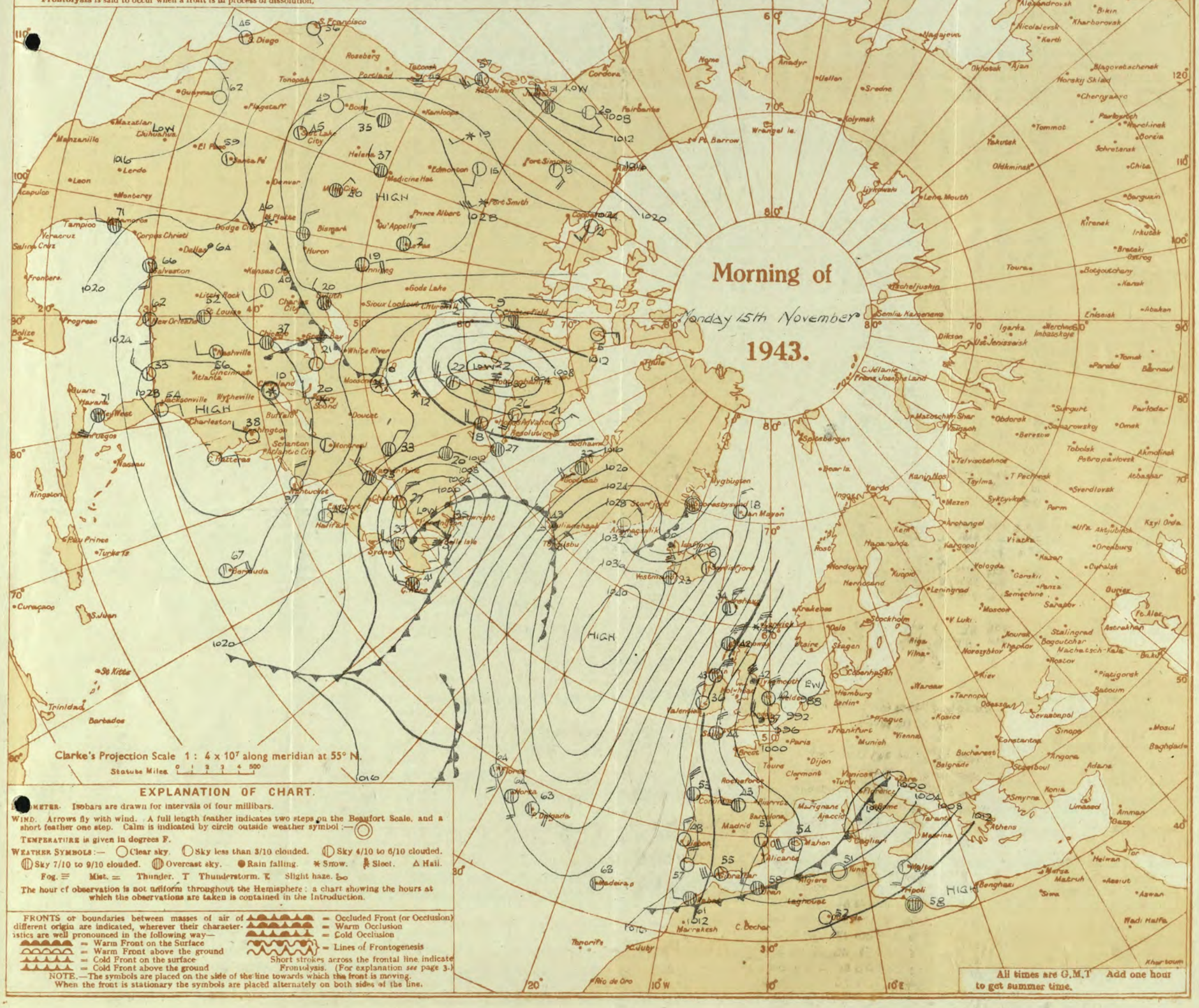
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.

Monday 15th November 1943

No. 23943

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

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	*	*	*	*	*	38	*	*	*	*	*	*	*	*	*
	Croydon ...	290	97·9	+10	NW	4	ic₀	37	85	34	6	5	-	-	7-8	10	1200
	S. Farnborough	226	98·8	+8	NW'N	4	rs	37	85	33	6	5	-	-	10	10	1400
	Boscombe Down	417	00·6	+10	NNW	4	c	37	75	30	7	-	7	-	0	9+	-
	Thorney Island	10	99·2	+10	NW	4	prs	38	85	33	7	8	7	-	9	10	3200
	Lympne ..	283	97·5	+14	NNW	4	m	36	92	33	4	5	2	-	9	10	800
	Manston ...	154	98·7	+14	NNW	4	z₀	39	85	37	6	5	3	-	7-8	9	1100
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	95·0	+18	NW'N	5	z₀	39	92	37	6	5	-	-	9	9	800
	Gorleston ...	5	92·7	+14	N'W	3	c/pr	43	85	38	7	8	-	-	9+	9+	800
	Mildenhall ...	15	96·1	+18	NW'N	4	c	36	97	35	7	5	-	-	9+	9+	700
	Cranwell ...	203	98·4	-16	NNW	7	r₀r₀	36	97	35	5	5	-	-	10	10	600
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	99·0	+10	NW'N	5	z₀	35	85	31	6	5	-	-	9	9	2100
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	04·2	+4	N	5	c-bc/phr	39	92	36	8	3	6	-	4-6	7-8	1500
	Bristol ...	209	02·4	+10	N	5	ir₀	36	75	29	6	5	2	-	1	10	4000
	Portland Bill ...	32	00·4	+2	WNW	5	c	43	92	41	7	5	-	-	10	10	2500
	Plymouth ...	86	04·2	+6	N	4	bc	38	85	33	8	3	-	3	2-3	4-6	2500
	The Lizard ...	240	04·9	+2	N	4	bc	39	65	29	8	2	3	-	4-6	4-6	2000
	Scilly (St. Mary's)	163	05·6	-2	N	5	c	44	55	28	8	8	6	-	7-8	9+	1500
	Guernsey ...	175															
6	Pembroke ...	142	05·7	+10	N'W	5	bcq	38	97	37	7	2	4	1	4-6	4-6	2500
7	Holyhead (Valley)	32	05·5	+18	N'W	5	c	41	65	30	8	2	7	3	4-6	9	2500
	Chester (Sealand)	16	03·0	+22	N	3	c	40	65	29	8	5	7	-	4-6	10	3500
8	Manchester ...	230	02·4	+18	NW'N	4	c	36	75	28	7	4	6	-	9	9+	2000
10	Spurn Head ...	29	96·9	+24	N	7	phr	42	85	38	6	8	6	-	7-8	9+	1500
	Catterick (Sc) ...	192	00·1	+16	NNW	6	ir₀	35	92	34	7	5	6	-	4-6	7-8	2000
	Tynemouth ...	108	00·6	+20	NNW	8	rr	42	92	39	6	6	-	-	10	10	1500
11	St. Abbs Head	280	01·7	+12	N	8	ir₀	42	85	37	7	5	2	-	7-8	9+	1500
	Leuchars ...	36	05·0	+16	N	4	c-bc	40	85	36	8	5	3	3	2-3	7-8	3000
12	Renfrew (Abbots I.)	19	07·2	+14	SW	1	b	32	75	24	8	-	-	6	0	1	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	06·0	+14	NNE	5	c	41	65	29	8	4	3	6	2-3	9+	2500
13A	Tiree	44	10·9	+18	N	6	bc	41	85	37	8	2	-	-	4-6	4-6	2000
13B	Stornoway ...	12	12·5	+26	NNE	7	phr	42	75	34	8	3	-	3	7-8	7-8	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	04·6	+20	NNW	4	c-bc	40	85	35	8	8	6	3	4-6	7-8	2000
	Wick ...	114	07·7	+22	NNE	8	pr	41	85	37	6	9	-	-	10	10	1000
16	Sumburgh ..	19	07·3	+30	N'E	6	c/ps	40	85	35	8	3	6	3	2-3	9+	1500
17	Blacksod Point	18	16·1	+24	NNE	7	c	41	75	34	7	9	-	-	9	9	800
18	Malin Head ...	84	10·1	+12	NE'N	8	c-bc	43	65	31	8	2	-	-	7-8	7-8	2500
	Aldergrove ...	268	03·1	+8	NNW	2	c-bc/phr	36	85	33	8	9	-	-	7-8	7-8	1500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	15·1	+26	N'W	3	c-bc/ps	36	85	31	8	3	-	-	7-8	7-8	2100
	Roches Point	22	10·9	+14	N'W	6	b-bc	38	85	34	8	5	-	5	1	2-3	1500

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

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)
London (Kew)	01·2	+20	NNW	4	z₀	39	85	34	6	5	-	-	9	9	2500	1	*
Croydon ...	01·3	+22	NW'N	4	z₀	39	85	36	5	5	-	-	7-8	10	1000	1	*
S. Farnborough	02·2	+22	NNW	3	c	38	85	33	7	5	-	-	10	10	1600	1	*
Boscombe Down	03·3	+14	N	5	c	38	75	30	7	5	7	-	7-8	10	2500	1	*
Thorney Island	01·6	+20	NNW	5	bc	38	85	33	7	5	5	-	4-6	4-6	4000	1	*
Lympne ..	98·5	+18	NNW	4	c/d	38	92	35	6	5	2	-	9	9+	800	1	3
Manston ...	99·7	+10	NNW	5	z₀	41	92	38	6	5	3	-	4-6	9	600	1	*
Shoeburyness ...	99·7	+16	NNW	4	c	39	92	35	8	5	3	-	7-8	9	1500	1	*
Felixstowe ...	99·3	+30	NNW	4	ir	39	92	37	6	-	2	-	10	10	1500	1	5
Gorleston ...	97·0	+22	NNE	5	bcq	44	85	41	7	8	-	-	7-8	7-8	1500	1	5
Mildenhall ...	00·5	+26	NW'N	4	bc/pr	36	97	36	7	9	-	-	4-6	4-6	2500	1	*
Cranwell ...	03·3	+26	NW'N	6	bc/r	35	97	35	6	8	3	3	4-6	4-6	2000	1	*
Birmingham ...	04·5	+14	NNW	4	m	35	85	31	4	5	-	-	Tr	Tr	1500	1	*
Upper Heyford	02·3	+20	NNW	4	c-bc	36	85	31	7	6	-	-	7-8	7-8	1400	1	*
Ross-on-Wye	05·0	+14	N	4	c-bc	39	75	31	8	5	-	-	7-8	7-8	3000	1	*
Hartland Point	05·9	+14	N	5	c-bc	44	85	38	8	2	6	-	4-6	7-8	2000	1	5
Bristol ...	04·8	+20	N	4	z₀	40	75	31	6	5	-	-	9+	9+	4000	1	*
Portland Bill ...	03·1	+10	NNW	4	c	42	92	40	7	5	-	-	10	10	4000	1	5
Plymouth ...	06·2	+14	N'W	4	c-bc	41	75	34	8	8	6	3	2-3	7-8	2500	1	3
The Lizard ...	06·8	+16	NNW	4	c-bc	38	92	35	8	8	6	-	7-8	7-8	2000	0	5
Scilly (St. Mary's)	08·1	+10	N	7	c	43	75	35	8	9	6	-	9+	10	1500	1	6
Pembroke ...	08·1	+10	N'E	6	c/pr	44	75	38	7	8	-	-	9+	9+	2500	1	4
Holyhead (Valley)	09·0	+22	N	5	c-bc	43	75	36	8	8	6	-	7-8	7-8	2000	1	4
Chester (Sealand)	06·0	+8	N	4	bc	41	75	33	8	5	6	5	2-3	4-6	4000	0	*
Manchester ...	05·6	+16	NNW	3	z₀	35	85	36	6	4	6	-	2-3	7-8	2500	1	*
Spurn Head ...	01·7	+30	NE	5	pr	46	65	36	7	2	6	-	4-6	4-6	2500	1	4
Catterick (Sc) ...	04·4	+14	NW	4	c-bc	37	97	36	7	3	6	-	4-6	7-8	2000	1	*
Tynemouth ...	04·8	+18	NNW	6	bcq	47	65	36	7	2	-	-	4-6	4-6	2500	1	5
St. Abbs Head	06·3	+20	N	7	ir₀	43	85	38	7	5	-	-	9+	9+	1500	1	6
Leuchars ...	10·5	+34	N	5	pr	40	92	38	7	5	-	-	9+	9+	2500	1	*
Renfrew (Abbots I.)	11·9	+20	NNW	3	pr	39	75	33	8	8	-	1	7-8	7-8	2500	3	*
Eskdalemuir ...	08·6	+34	N'W	4	bc	37	85	33	8	5	3	-	4-6	4-6	2100	1	*
Point of Ayre ...	09·1	+22	NNE	6	b-bc	43	65	34	8	-	7	-	0	2-3	-	0	4
Tiree	16·8	+36	NNE	5	c	44	65	32	8	3	-	3	4-6	9+	2000	1	4
Stornoway ...	18·1	+22	NNE	6	bc/pr	39	75	31	8	3	-	3	4-6	4-6	2000	1	4
Dalwhinnie ...	14·0	+30	NNE	5	c-bc	35	75	29	7	5	-	-	7-8	7-8	2500	4	*
Aberdeen † ...	10·0	+36	SW	4	ir₀	38	92	37	7	5	4	-	7-8	9	1500	1	2
Wick ...	12·7	+22	NNE	5	c-bc	40	65	29	7	3	6	3	4-6	7-8	2000	1	*
Sumburgh ..	10·1	+6	N	6	pr	39	75	38	9	3	-	-	7-8	7-8	1400	1	4
Blacksod Point	18·0	+16	N'E	7	bc/pr	44	85	40	7	8	-	-	4-6	4-6	1500	2	6
Malin Head ...	14·7	+30	NNE	8	phr	45	75	38	8	2	-	-	9+	9+	2500	2	6
Aldergrove ...	12·6	+20	-	0	b-bc	35	85	32	8	8	-	-	2-3	2-3	2500	5	*
Birr Castle ...	13·6	+18	NNE	2	b-bc	33	92	31	8	5	-	-	2-3	2-3	2500	1	*
Valentia Obsy.	16·8	+2	N'E	6	b	43	75	36	8	3	-	-	1	1	2400	*	4
Roches Point	13·5	+8	N	6	b	38	85	34	8	5	-	-	1	1	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 15th Hrs. (38)
London (Kew)	41	35	34	0·5	0·5	0·2
Croydon ...	41	35	35	0·5	0·3	0·0
S. Farnborough	42	34	32	3	0·3	0·7
Boscombe Down	44	34	33	1	0·4	0·5
Thorney Island	45	35	33	Tr	Tr	*
Lympne ..	40	31	25	Tr	0·4	2·5
Manston ...	42	38	37	-	Tr	1·6
Shoeburyness ...	41	36	33	1	0·3	1·5
Felixstowe ...	42	36	35	1	5	2·1
Gorleston ...	44	38	35	5	9	0·0
Mildenhall ...	42	36	28	0·6	3	0·0
Cranwell ...	47	34	30	4	2	0·3
Birmingham ...	41	34	30	0·2	-	0·0
Upper Heyford	41	32	32	4	0·5	*
Ross-on-Wye	46	37	33	1	-	1·5
Hartland Point	49	37	36	1	1	0·7
Bristol ...	47	36	29	0·2	Tr	2·2
Portland Bill ...	47	40	*	Tr	-	*
Plymouth ...	49	35	32	0·5	Tr	2·1
The Lizard ...	47	36	*	5	Tr	4·1
Scilly (St. Mary's)	49	42	*	1	Tr	3·7
Pembroke ...	48	33	*	2	4	4·6
Holyhead (Valley)	47	38	35	0·5	-	*
Chester (Sealand)	45	39	35	-	-	0·2
Manchester ...	42	35	33	0·1	-	*
Spurn Head ...	43	37	*	15	8	0·5
Catterick (Sc) ...	41	35	33	9	0·6	0·4
Tynemouth ...	45	39	37	8	6	*
St. Abbs Head	37	38	*	0·1	2	*
Leuchars ...	43	41	31	-	Tr	0·0
Renfrew (Abbots I.)	43	30	18	-	Tr	5·1
Eskdalemuir ...	38	31	29	-	-	0·5
Point of Ayre ...	46	39	*	-	-	4·5
Tiree	42	31	32	8	4	2·0
Stornoway ...	40	33	32	*	3	0·0
Dalwhinnie ...	36	28	24	0·1	2	1·0
Aberdeen † ...	42	38	35	1	1	0·0
Wick ...	41	35	33	Tr	3	*
Sumburgh ..	41	36	34	2	3	3·5
Blacksod Point	46	34	*	7	7	*
Malin Head ...	47	38		0·2	0·3	1·3
Aldergrove ...	42	32	22	2	1	3·0
Birr Castle ...	44	32	28	-	-	2·6
Valentia Obsy.	48	34	31	6	5	2·3
Roches Point	46	36	*	1	0·1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 14th November			18h. G.M.T.			01h. G.M.T. 15th November			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	14764	63884	86	02754	63624	8-	82658	65888	86	10645	64886
115	87	88344	55886				52	62735	98868			
203	6-	88838	32788									
206	36	01854	63324	40	26852	53482	36	02864	28385	86	25754	35485
210	3-	10955	64626	26	02855	65625	36	81855	35487	26	02864	02726
219	9-	88846	65786	20	01854	65684	36	26853	35684	86	25844	35685
230	96	26756	63487	30	01854	65584	36	01851	00012	3-	02855	02385
245	37	02053	64727	36	01843	63584	30	25850	64584	3-	81647	65587
260	57	01764	61524	53	05543	28324	53	05663	28214	53	05664	26215
278												
279	8-	02866	65726	57	02765	65425	57	02854	65425	54	01863	63524
285	27	02745	30627							27	85635	30587
288	9-	81644	63688	96	81655	62587	3-	81658	63688	36	25545	28385
575	34	01854	35415	37	88745	62628	36	81755	63477	90	10744	65415
301	57	05664	30628	27	05663	63527	57	05654	63428	17	05653	65328
321	5-	62635	63678	57	02855	63688	6-	62648	35588	36	05652	30463
290	8-	65748	01768	5-	22638	32768	80	14745	02685	80	10744	02664
292	64	61657	65678	57	02754	28666	9-	81657	20067	36	05654	30485
310										20	01025	20425
614	52	61544	63468	57	05656	61528	5-	71635	63425	58	05663	30413

	13h. G.M.T. 14th November			18h. G.M.T.			01h. G.M.T. 15th November			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	36	27864	35685	3-	01754	34684	9-	02854	65488	57	02765	35427
334										--	0364	28228
340	5-	02844	64667	57	05664	63525	57	02854	63428	57	02864	63425
136	9-	81737	28687	9-	82738	28688	26	27843	28484	26	25844	32384
336										63	01754	32415
350	6-	62634	61488	62	05644	28668	52	05644	61628	96	25744	63684
368	86	02853	65425	50	01744	61524				53	01753	32324
379										57	02755	63477
390	50	05648	61528	5-	67338	63668	52	05545	28528	57	05653	63625
382	5-	02747	28667	5-	05656	62686	57	24755	63578	5-	02757	64527
438	8-	61657	28487	8-	05656	28516	5-	05656	28428	84	02634	30515
430	5-	61746	28468	5-	64438	65468	5-	61648	63458	5-	05646	63366
409	36	25755	64636	36	28855	64635	26	02855	34525	36	02855	43525

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 15th November
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 ...	ld₀dcm₀	cm₀r₀	cr₀dcm₀	0·3	7-8h	<0·1	0-7h
Croydon ...	bm₀idr₀	cd₀d₀m₀d₀c	d₀dcir₀		14h		15h
Greenwich ...	ir₀	cir₀	r₀rcbc				
Camden Square	cp	cp	*				
Kensington ...	cpc	cpcd	*				
Hampstead ...	od	ots	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 (Yesterday)	Humidity 15h % (Yesterday)	Humidity 9h % (To-day)
Kew	41	35	34	0·5	0·5	0·2	*	*
Croydon ...	41	35	35	0·5	0·3	0·0	*	*
Greenwich ...	41	36	34	0·3	0·3	0·0	85	86
Westminster ..	42	37	34	1·0			75	89
Regents Park ..	41	36	33	1·1	0·5		86	86
Camden Square	41	36	33	1·3	0·3	*	*	86
Kensington ...	41	36	33	0·9	0·4		86	85
Hampstead ...	39	33	31	0·7	0·6		*	88

SECRET

Page 1 BRITISH SECTION

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

Tuesday 16th November 1943

No. 29344

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

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)	05·9	+20	N'W	4	z0	46	65	35	6	8	-	-	7-8	7-8	1500
	Croydon	05·9	+22	NW'N	3	z0	45	75	37	5	5	-	-	7-8	7-8	2000
	S. Farnborough	06·5	+20	NNW	4	z0	46	65	36	6	7	3	3	4-6	7-8	3000
	Boscombe Down	07·7	+18	N'E	4	z0	49	65	35	6	-	3	-	0	2-3	—
	Thorney Island	05·7	+16	N'W	6	z0	46	75	37	6	5	-	4	2-3	4-6	2500
	Lympne	03·2	+22	N	4	z0	46	75	38	6	2	6	3	7-8	7-8	1500
	Manston	03·2	+26	NNE	5	pr	48	75	38	7	3	6	3	4-6	4-6	1500
2	Shoeburyness	04·8	+22	NNW	5	z0	46	75	38	6	3	6	-	2-3	2-3	2500
	Felixstowe	02·1	+22	NNW	5	bc	49	65	36	7	2	-	-	4-6	4-6	4000
	Gorleston	02·4	+22	N'E	5	c-bcq	49	75	35	7	8	-	-	7-8	7-8	1500
	Mildenhall	05·4	+24	NNW	4	c-bc	36	75	30	5	2	6	-	7-8	7-8	2500
	Cranwell	07·0	+16	N'W	6	c-bc	45	75	37	7	8	6	4	4-6	7-8	2000
3	Birmingham	08·1	+16	NNW	4	z0	43	75	36	6	1	-	1	Tr	2-3	2500
	Upper Heyford	07·1	+20	N	4	z0	44	75	37	6	2	7	-	2-3	7-8	2500
4	Ross-on-Wye	09·4	+20	N	4	b-bc	45	65	34	7	7	-	1	2-3	2-3	3000
5	Hartland Point	09·8	+18	NE	6	bc	46	85	41	8	2	4	-	4-6	4-6	1500
	Bristol	09·1	+6	N	4	z0	46	65	35	6	1	4	-	4-6	4-6	2500
	Portland Bill	07·5	+22	N	2	bc	45	85	40	8	2	-	-	4-6	4-6	4000
	Plymouth	09·6	+14	NNE	5	c-bc	47	65	35	8	1	4	-	7-8	7-8	2500
	The Lizard	09·9	+18	NNE	4	bc	47	75	38	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	11·6	+14	N	6	cjp	47	75	39	8	9	6	-	7-8	9+	1500
	Guernsey															
6	Pembroke	12·4	+6	NE	4	c-bcq	46	85	43	8	8	-	-	7-8	7-8	2500
7	Holyhead (Valley)	13·3	+18	N'E	4	c-bc/pr	44	85	39	8	8	6	-	7-8	7-8	2000
	Chester (Sealand)	10·8	+22	N	4	c	45	65	35	8	8	7	-	7-8	9	2500
8	Manchester	10·7	+22	N	5	z0	43	75	35	6	2	6	-	7-8	9	2000
10	Spurn Head	06·5	+28	NNW	5	phr	45	85	42	7	2	4	-	9	9+	1500
	Catterick (Sc)	10·2	+26	NNW	5	c/pr	39	85	36	7	9	2	-	4-6	9+	2000
	Tynemouth	10·8	+30	N	8	c-bc/pr	42	85	38	7	8	-	-	7-8	7-8	2000
11	St. Abbs Head	12·0	+30	N	7	c-bcq	41	65	30	9	3	9	-	4-6	7-8	2000
	Leuchars	14·3	+18	NNW	4	bc	41	75	33	8	3	7	3	4-6	4-6	3000
12	Renfrew (Abbots I.)	16·4	+18	NNW	3	bc	42	55	28	8	8	-	3	2-3	4-6	5000
	Eskdalemuir	13·1	+26	NNW	6	c-bc	37	65	24	8	5	1	-	7-8	7-8	1800
	Point of Ayre	14·6	+24	NNE	6	c	45	65	32	8	7	-	-	9+	9+	2500
13A	Tiree	19·9	+10	NNE	5	c-bc/pr	41	65	31	9	2	-	3	7-8	7-8	2000
13B	Stornoway	20·4	+6	N	6	c	38	75	30	8	3	6	5	4-6	9	1800
15	Dalwhinnie	15·5	+6	N	4	c	32	85	27	8	5	-	-	9+	9+	2500
	Aberdeen	12·2	+6	NW	5	c-bc	38	75	33	7	3	-	3	2-3	7-8	1500
	Wick	14·9	+8	N'W	6	c	41	65	29	8	9	-	1	7-8	9+	1000
16	Sumburgh	12·0	+12	N'W	5	pr	37	97	36	8	2	7	-	9	10	1400
17	Blacksod Point	22·8	+16	SW	7	c-bc/pr	43	85	39	8	3	-	-	7-8	7-8	1500
18	Malin Head	19·9	+24	N'E	7	PHR	40	75	33	8	2	7	-	4-6	9	2500
	Aldergrove	17·6	+14	N'W	3	b-bc	43	65	32	8	3	6	3	2-3	2-3	3000
19	Birr Castle	17·8	+22	NNE	2	c-bc	44	65	32	8	5	-	-	7-8	7-8	2500
20	Valentia Obsy.	21·0	+18	NNE	6	pr	43	75	36	9	3	-	-	7-8	7-8	2500
	Roches Point	17·0	+12	N	6	bc	44	85	40	8	5	-	-	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 15th November — 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)	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. 15th (39)	Weather 13h.–18h. 15th (40)	Weather 18h. 15th – 1h. 16th (41)	Weather 1h.–7h. 16th (42)
London (Kew)	09·8	+24	NNW	3	z0	43	75	36	6	5	-	-	9+	9+	1500	1	*	pr0bccz0	cpr0cz0	cm0	cbcm0x
Croydon	09·6	+26	NNW	4	m	43	85	37	4	5	-	-	9+	9+	3500	0	*	cm0cmcz0	cz0cz	bcbm0bz0	bz0cmbcmx
S. Farnborough	10·2	+46	N'W	4	z0	44	75	37	6	5	7	-	7-8	9	2500	0	*	cm0bcz0	bcz0cz0	bm0	bm0xbm0bcm0
Boscombe Down	11·7	+30	N	4	z0	40	85	35	6	5	-	-	2-3	2-3	5000	0	*	bbcbcm0	bcz0bm0	bcm0bm0	bm0cm0
Thorney Island	09·8	+24	NNW	3	z0	43	85	37	5	-	3	-	0	4-6	—	1	*	bcm0bc	bm0bcm0	bcbm0	bcm0wbm0x
Lympne	07·2	+26	N	4	z0	40	85	36	6	-	6	-	0	2-3	—	0	§4	cm0	bcm0	bcm0cbc	bcwx
Manston	06·2	+26	N	4	b	44	75	37	7	4	-	-	1	1	2000	1	*	cm0cpr0	cpr0phcbc	beltbc	becbem0
Shoeburyness	08·9	+26	NNW	4	b-bc	40	75	34	7	2	6	-	1	2-3	2500	1	*	crrm0bc	bcpr0	bcbbc	bccx
Felixstowe	07·6	+32	NNW	4	b-bc	43	85	36	7	3	3	-	2-3	2-3	4000	0	4	c	bc	bcbm0	bm0bm0cm0
Gorleston	06·4	+22	NNW	4	l	45	85	42	7	8	-	-	4-6	4-6	1500	0	5	cq	cqpr0bcl	bcclir0	cirerr
Mildenhall	09·2	+24	NW	3	b/d	39	92	37	8	2	6	-	Tr	1	2500	1	*	bcpr0c	edz0bc	bcpr0cb	cbcc
Cranwell	11·7	+16	NNW	5	c-bc/pr	38	92	36	6	8	7	-	4-6	7-8	2000	1	*	cm0bcm0b	ccm0pr0cm0	bz0bcz0	bcz0bcm0bc
Birmingham	13·3	+30	NNW	4	z0	40	85	36	6	5	7	-	4-6	9	2500	1	*	bz	bzc	cz	cpshbcm
Upper Heyford	11·1	+28	N	4	z0	39	85	35	5	4	-	-	1	1	2500	0	*	cbcm0cm0	bcz0czbcm	bm0bcbm0	bm0cbcm0x
Ross-on-Wye	13·1	+20	N	4	b-bc	41	75	32	7	5	-	-	2-3	2-3	3000	1	*	bcbbc	bc	bc	b
Hartland Point	13·2	+22	NE	4	bc	46	85	40	8	3	-	-	4-6	4-6	1500	1	5	cbc	bc	bc	bcc
Bristol	12·4	+22	N	4	z0	42	75	33	6	5	-	-	4-6	4-6	2500	1	*	cz0bcz0	bcz0	bcz0bz0	bm0cm0x
Portland Bill	10·9	+16	N	4	c-bc	44	85	39	8	5	-	-	7-8	7-8	4000	1	4	cbc	bcc	c	bcbc
Plymouth	13·3	+16	NE'N	4	z0	44	65	35	5	3	6	3	4-6	7-8	2500	0	3	bc	bc	bcm0b	bbcz0x
The Lizard	12·9	+6	NNE	3	c-bc	44	75	37	8	8	6	-	7-8	7-8	2000	0	4	cprbc	bcc	prlbc Ⓣ	cprbc
Scilly (St. Mary's)	14·8	+24	N	6	c-bc/pr	47	85	42	8	8	-	-	7-8	7-8	1500	1	6	cphrc	cp0cp	cpql	c
Guernsey																					
Pembroke	16·0	+16	NE	5	bc/pr	43	92	40	7	8	-	-	4-6	4-6	1500	1	3	cq	cprlbcq	bccprq	cir0q
Holyhead (Valley)	17·1	+22	N'E	4	b	41	65	32	8	8	6	-	1	1	2500	1	4	cph	cphpr0m	cbc	bc
Chester (Sealand)	15·1	+22	N	2	bc	40	75	32	7	5	-	1	2-3	4-6	2000	0	*	bccbc	cpr0z0	bcbz0c	cbcz0c
Manchester	14·5	+26	N	4	z0	39	65	29	5	4	6	-	4-6	7-8	3000	1	*	pr0pr0scz0	cz0pr0	bz0cm0x	cbcm0x
Spurn Head	10·1	+12	N	6	phr	45	65	35	7	8	6	-	7-8	9	1500	1	5	cphr	cqphr	cqpr0	cqpr
Catterick (Sc)	13·8	+20	NW	5	b-bc	36	85	31	7	5	3	-	2-3	2-3	4000	1	*	cpr0c	cbc	bcc	bcc
Tynemouth	13·6	+12	NNW	5	b-bc	39	75	31	7	-	4	-	0	2-3	—	1	5	bccpq	cpqbc	bcoirs	oirsbc
St. Abbs Head	12·9	0	NNW	7	c-bcq	40	65	29	7	5	4	-	7-8	7-8	2500	0	5	ocqprh	cq	cqprc	cbcc
Leuchars	15·6	+10	NNW	3	c-bc	36	85	32	8	5	7	8	2-3	7-8	3500	1	*	cpr0c	bccbc	bcc	c
Renfrew (Abbots I.)	17·7	+10	NW	3	b-bc	36	65	25	8	5	-	-	2-3	2-3	2000	1	*	cpr0cmcbcy	bcybc	bc	bccx
Eskdalemuir	15·6	+22	N'W	3	b	32	65	23	7	7	-	-	1	1	2100	1	*	cpr0c	cbcb	bbcc	c
Point of Ayre	17·1	+24	NE	6	b	41	65	29	8	4	-	-	Tr	Tr	3000	0	4	bc	cb	bccb	bbc
Tiree	21·5	+8	NNE	4	c	46	75	32	8	2	2	-	7-8	10	2000	1	4	cyprs0	cyc	cpr0ccpr0s0	crr0s0cir0
Stornoway	21·4	+6	NNW	6	c	37	75	29	7	2	-	5	2-3	10	1800	2	4	bcph0r0c	cps0m0c	cphccph	cphcr0crsm0
Dalwhinnie	18·0	+12	N	4	c-bc	31	85	28	8	5	-	-	7-8	7-8	2500	4	*	cps	c	*	coc
Aberdeen	14·5	+16	NNW	5	PR	40	75	33	7	8	-	3	4-6	10	1500	1	4	bccbcmfbcq	bccjpcpr	ctrbccpRc	cps0
Wick	17·1	+14	NNW	5	pr	37	85	34	7	3	-	-	10	10	-2200	1	*	bc	bcps0bcpr0	cir0s0cps0	cps0c
Sumburgh	14·7	+18	N	6	bc	38	75	30	8	2	6	-	4-6	4-6	1800	1	4	crspr0	cpr0bc	cbc	bccbcb
Blacksod Point	24·5	+10	N	6	pr	43	75	36	7	9	-	-	9+	9+	1500	2	5	pr	pr	c	pr
Malin Head	21·0	+8	N'E	6	phr	43	45	22	8	8	-	-	4-6	4-6	2500	2	5	pr	pr	pr	pr
Aldergrove	20·2	+14	—	0	bc	36	75	29	8	3	-	-	4-6	4-6	2700	1	*	bccpr0sc	cbcbbc	ccid0	cpr0s0i6c
Birr Castle	21·3	+20	NNE	2	b	38	75	31	8	-	-	-	0	0	—	1	*	c	bc	*	bc
Valentia Obsy.	24·1	+22	NE'N	5	c-bc/pr	43	75	36	8	3	-	1	7-8	7-8	2500	1	4	pr	pr	pr	pr
Roches Point	26·5	+20	N'E	5	b-bc	43	75	36	8	5	-	5	1	2-3	2500	1	4	b	bc	bc	b Ⓣ

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 16th November 1943

Districts	Forecast
1 S.E. England; 2 E. England	Light or moderate northerly winds; scattered showers, and some bright intervals; very cold, with local frost tonight.
3 E. Midlands; 4 W. Midlands	Light northerly winds; cloudy with some bright intervals, especially tomorrow; very cold, with local frost tonight.
5 S.W. England; 6 South Wales; 7 North Wales	Light or moderate northerly winds, backing west temporarily; scattered showers and bright intervals first; period of rain later today, with sleet and snow on high ground; showers later; cold.
8 N.W. England; 9 N. Midlands	A 3-4
10 N.E. England; 11 S.E. Scotland	A 1-2
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland	Light variable to northerly winds; some rain at first, with sleet and snow on high ground; scattered wintry showers later; cold.
14 Mid Scotland; 15 N.E. Scotland	Light or moderate northerly winds; wintry showers of rain, sleet and snow, with some bright intervals; very cold.
16 Orkneys and Shetlands	As 14-15
17 N.W. Ireland; 18 N.E. Ireland; 19 S.E. Ireland; 20 S.W. Ireland	Moderate west to northwest winds, veering north later; general rain in north, with sleet and snow on high ground, spreading south, followed by showers and bright intervals; cold.

GENERAL INFERENCE

Pressure is high over the North Atlantic and low to the east of the British Isles; a small depression over Northwest Scotland is moving south; a belt of rain with sleet and snow on high ground will move south across western districts, followed by showers; wintry showers will persist in the north and east; cold or very cold.

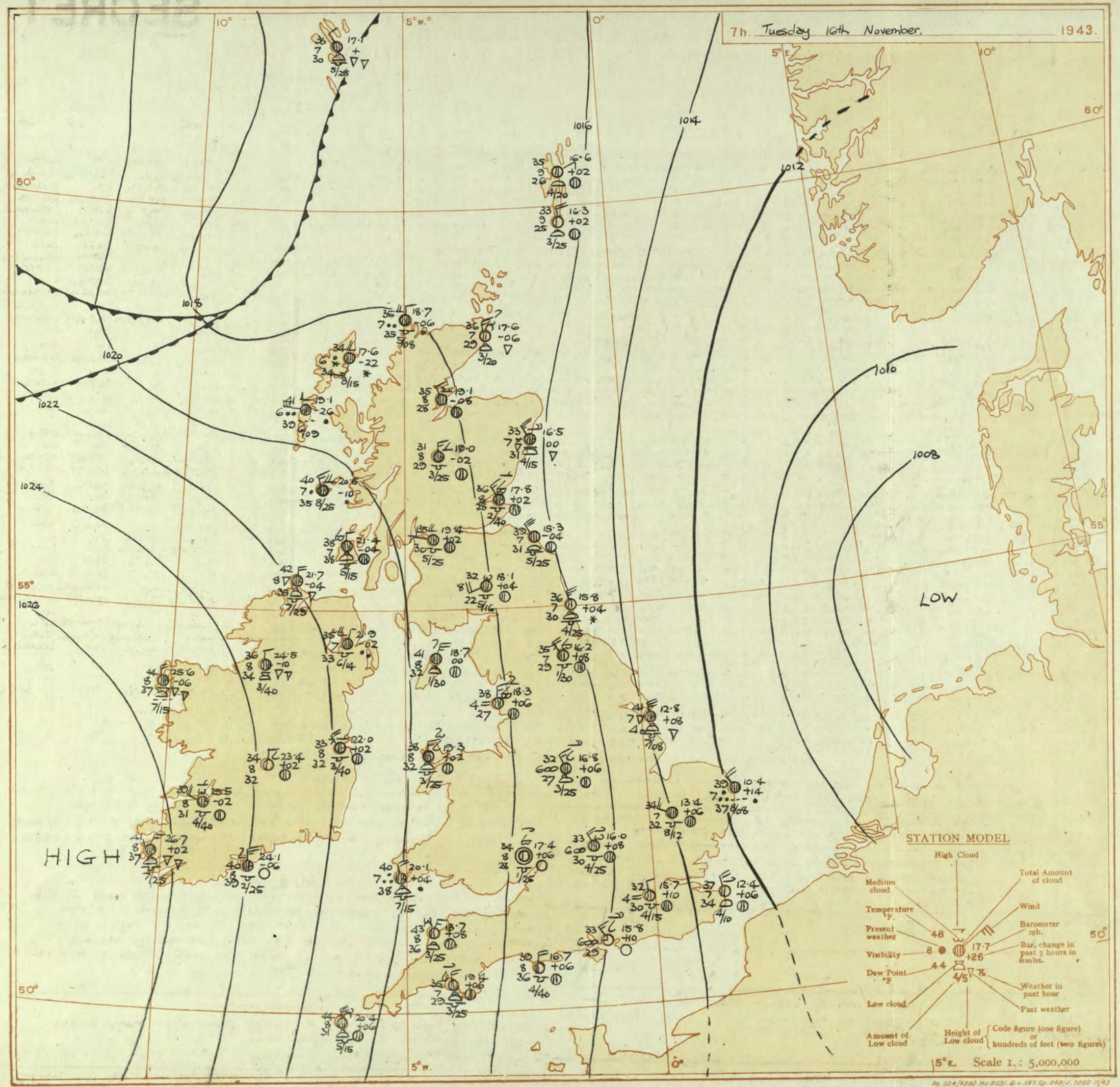
FURTHER OUTLOOK

Cold northerly type persisting, with wintry showers in many areas; more general rain in the northwest.

Forecasts issued at 10·30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Tuesday 16th November, 1943.



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

Rs. 524/4582. Nc. 8031. D. x. 545. Gp. 948/2. 7200. 11/43

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.

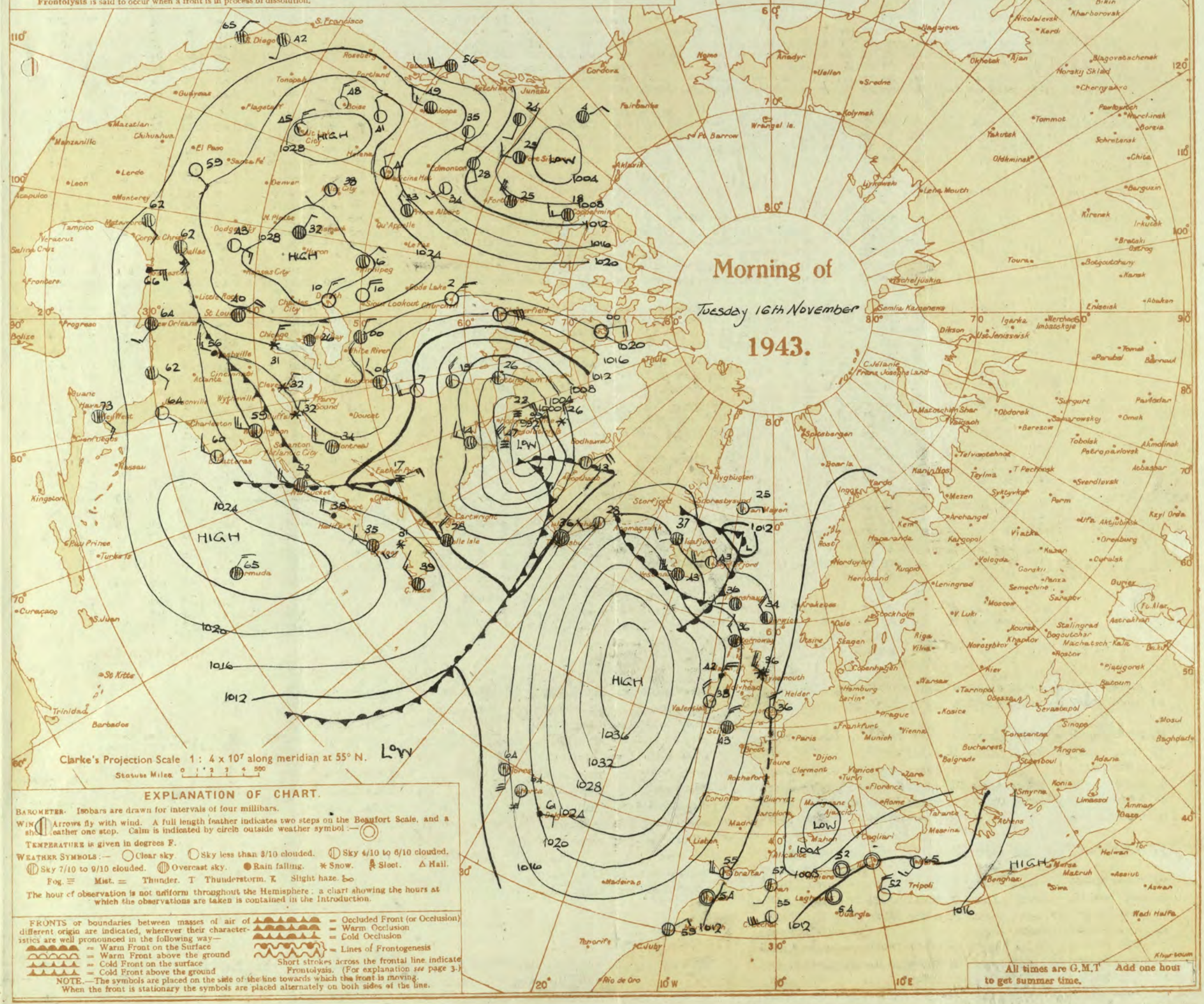
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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 16th November 1943
No. 29244

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

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	14.0	+14	N	3	Zo	36	75	31	5	4	–	–	Tr	Tr	3000
	S. Farnborough	226	14.5	+10	NW'N	3	Zo	35	85	31	6	–	–	–	0	0	–
	Boscombe Down	417	15.8	+12	NNW	3	Zo	33	85	29	6	–	–	–	0	0	–
	Thorney Island	10	13.4	+8	NNW	4	Zo	37	85	32	6	–	–	1	0	Tr	–
	Lympne	283	11.9	+14	N'W	5	bc	36	92	33	7	–	6	–	0	4-6	–
	Manston	154	10.7	+22	N'W	4	bslr	40	92	37	7	1	–	–	4-6	4-6	1200
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	11.0	-6	NW	4	Zo	38	75	30	6	–	–	–	0	0	–
	Gorleston	5	09.0	+2	NNW	3	iR	40	85	35	7	8	–	–	9+	9+	1500
	Mildenhall	15	12.4	+2	NW'W	3	c	34	85	31	8	5	–	–	9+	9+	2000
	Cranwell	203	13.6	+6	NNW	6	Zo	34	85	30	6	–	4	–	0	4-6	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	14.9	+10	NNW	3	Zo	31	85	27	5	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	17.5	+14	NE	4	bc	42	75	34	8	1	4	–	2-3	4-6	2500
	Bristol	209	17.0	+10	NNW	1	Zo	34	75	28	6	–	–	–	0	0	–
	Portland Bill	32	14.4	+8	N	4	c-bc	40	92	38	8	2	–	–	7-8	7-8	4000
	Plymouth	86	18.0	+12	NE'N	3	b	38	85	33	7	–	4	1	0	1	–
	The Lizard	240	17.9	+14	N	3	l	38	85	34	8	2	3	–	4-6	4-6	2000
	Scilly (St. Mary's)	163	19.3	+16	NNE	5	ebc/pr	43	85	38	7	8	–	–	7-8	7-8	1500
	Guernsey	175															
6	Pembroke	142	20.1	+4	SW'W	4	ff	38	97	37	7	8	2	–	7-8	10	1500
7	Holyhead (Valley)	32	19.0	+6	N	1	c	37	75	30	8	4	–	–	2-3	9	3000
	Chester (Sealand)	16	17.1	+2	N'W	3	Zo	38	75	30	6	–	3	–	0	7-8	–
8	Manchester	230	16.8	+4	NW	3	Zo	34	85	30	6	4	6	–	7-8	9	3000
10	Spurn Head	29	11.6	+4	NW	6	if	38	85	34	7	8	5	–	9	9+	1500
	Catterick (Sc)	192	15.2	+12	NW	4	c	37	85	32	7	5	3	–	7-8	9+	2800
	Tynemouth	108	15.2	+6	NW	5	rs	36	92	34	6	–	2	–	10	10	1500
11	St. Abbs Head	280	15.0	+6	N	7	c	40	85	34	7	5	–	–	9	9	2500
	Leuchars	36	17.8	+10	W	2	c	37	75	30	7	5	1	–	1	10	3500
12	Renfrew (Abbots I.)	19	19.2	+6	SW	1	c-bc	31	85	27	7	–	4	9	0	7-8	–
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	18.7	+4	NE'N	5	b	41	65	30	8	1	–	8	Tr	1	3000
13A	Tiree	44	22.1	+4	N'W	4	c/pr	39	75	32	8	2	1	–	7-8	10	2500
13B	Stornoway	12	21.3	-4	NNW	3	phr	36	75	32	8	3	–	7	9	10	1600
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	17.4	+6	NNW	4	bc	35	85	31	8	8	4	–	2-3	4-6	2500
	Wick	114	18.2	-2	N	4	c/ps	34	75	27	8	9	6	3	2-3	9	1500
16	Sumburgh	19	16.3	+4	N	4	bc	34	75	29	8	2	3	8	2-3	4-6	2500
17	Blacksod Point	18	26.4	+6	N	5	c	41	85	37	8	9	–	–	9	9	1500
18	Malin Head	84	12.1	+4	NE	5	pr	42	65	30	8	8	1	–	2-3	10	2500
	Aldergrove	268	21.2	+2	NNW	2	ido	36	85	32	8	5	7	–	4-6	9+	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	26.4	+6	NE	2	prs	41	75	34	8	8	–	–	9+	9+	2500
	Roches Point	22	24.2	+14	NE	5	bc	39	85	35	8	5	–	–	4-6	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 16th November — 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)	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)	15.2	+6	WSW	1	Zo	34	85	28	5	5	–	1	4-6	4-6	2500	1	*	47	33	24	Tr	Tr	3.7
Croydon	15.7	+10	NNW	1	m	32	92	30	4	5	4	–	4-6	4-6	1500	0	*	46	31	29	–	–	0.7
S. Farnborough	16.0	+10	NW'N	2	Zo	31	85	28	6	–	–	1	0	2-3	–	3	*	46	30	23	–	–	2.9
Boscombe Down	17.0	+10	N'W	4	Zo	34	85	29	6	5	7	–	7-8	9	2000	0	*	46	31	26	–	–	5.6
Thorney Island	15.8	+10	NW'W	3	Zo	33	85	29	6	–	4	4	0	1	–	1	*	47	33	26	–	Tr	*
Lympne	13.8	+8	NNW	4	Zo	33	85	30	5	5	4	–	2-3	4-6	1000	1	§3	46	32	*	–	Tr	3.8
Manston	12.4	+6	N'W	4	bc	37	85	34	7	1	–	1	4-6	4-6	1000	0	*	48	36	34	1	–	3.0
Shoeburyness	13.9	+6	NNW	2	ebc	34	85	31	7	5	7	–	2-3	7-8	2500	1	*	47	33	29	1	–	5.1
Felixstowe	11.6	+6	NW	4	Zo	36	85	33	6	–	1	–	0	10	–	0	4	49	35	32	1	–	4.7
Gorleston	10.4	+14	NW'W	4	rr	39	92	37	7	6	–	–	10	10	800	1	4	51	36	33	1	3	5.8
Mildenhall	13.4	+6	NW'W	3	c	34	92	32	7	5	–	–	10	10	1200	0	*	47	32	25	Tr	Tr	4.4
Cranwell	14.3	+4	NNW	6	ebc	35	85	31	7	5	7	–	4-6	7-8	2000	1	*	46	33	31	1	–	5.1
Birmingham	16.8	+8	NW	4	m	34	75	27	4	5	7	–	1	2-3	1500	1	*	44	33	28	–	Tr	4.1
Upper Heyford	16.0	+8	NW	3	Zo	33	92	30	6	5	3	1	4-6	7-8	2500	0	*	45	30	26	0.1	–	*
Ross-on-Wye	17.4	+6	–	0	b-bc	34	85	28	8	5	7	–	Tr	2-3	2500	1	*	45	33	24	–	–	3.0
Hartland Point	18.7	+8	NNE	3	bc	43	75	36	8	2	6	–	2-3	4-6	2500	1	3	48	40	40	–	–	4.5
Bristol	17.8	+6	N	2	Zo	35	85	30	6	5	4	1	2-3	4-6	4000	0	*	46	30	19	–	Tr	2.5
Portland Bill	16.7	+6	N	4	bc	39	92	36	8	5	–	–	4-6	4-6	4000	1	4	45	36	*	–	–	*
Plymouth	19.4	+6	N	3	bc	35	75	29	7	8	4	1	2-3	4-6	2500	0	3	48	33	21	–	–	7.2
The Lizard	18.7	+2	N	2	bc	36	92	33	8	8	6	–	4-6	4-6	2500	1	4	48	35	*	0.5	1	6.2
Scilly (St. Mary's)	20.4	+6	N'W	6	ebc	44	65	31	8	8	6	–	7-8	7-8	1500	1	5	49	33	*	6	4	2.0
Guernsey																							
Pembroke	20.1	+4	N'W	4	rr	40	92	38	7	8	–	–	9+	9+	1500	1	3	49	34	*	4	8	2.7
Holyhead (Valley)	19.3	+2	N	3	ebc	38	75	32	8	8	4	9	2-3	7-8	2500	1	2	46	35	30	1	–	*
Chester (Sealand)	18.2	+4	N	2	c	35	75	29	7	2	4	7	2-3	10	3000	0	*	46	33	22	Tr	–	3.4
Manchester	17.7	+6	NW	2	cf+	29	85	27	3	5	3	–	7-8	9+	3500	1	*	44	29	25	Tr	–	*
Spurn Head	12.8	+8	N'W	6	pr	41	92	40	7	8	–	–	9+	9+	800	1	5	46	36	*	3	2	2.3
Catterick (Sc)	16.2	+8	NW	4	ebc	35	75	29	7	5	7	–	Tr	7-8	3000	1	*	42	33	32	3	–	1.1
Tynemouth	15.8	+4	NNW	5	bc	36	85	30	7	8	–	–	4-6	4-6	2500	1	4	47	34	32	0.3	7	*
St. Abbs Head	15.3	-4	NW	6	ebc	39	75	31	7	7	–	–	7-8	7-8	2500	0	5	44	38	*	6	Tr	*
Leuchars	17.8	+2	NW	3	c	36	75	28	8	5	7	–	1	9+	4000	*	*	41	32	27	–	–	2.6
Renfrew (Abbots I.)	19.4	+2	WNW	2	c	35	85	30	7	5	2	–	7-8	9	2500	3	*	43	28	18	Tr	–	3.4
Eskdalemuir	18.1	+4	SW	4	ebc	32	65	22	8	5	3	–	7-8	7-8	1600	3	*	39	29	20	Tr	–	3.1
Point of Ayre	18.7	0	NE'N	5	c	41	75	32	8	2	–	7	Tr	10	3000	0	4	45	40	*	–	–	2.9
Tiree	20.5	-10	NNW	3	if	40	85	35	7	–	2	–	10	10	2500	1	2	44	35	*	0.1	1	1.7
Stornoway	17.6	-22	SSW	3	rs	34	97	34	6	–	2	–	10	10	1500	4	2	40	33	31	1	5	1.6
Dalwhinnie	19.0	-2	N	3	c	31	92	29	8	5	1	–	2-3	9+	2500	4	*	35	28	23	0.2	–	1.6
Aberdeen †	16.5	0	NW	5	ps	33	92	31	7	3	–	3	4-6	9	1500	1	4	41	33	31	0.3	4	2.8
Wick	17.6	-6	NW'N	3	bc	36	75	29	7	2	6	4	2-3	4-6	2000	1	*	41	33	30	0.5	1	*
Sumburgh	16.3	+2	NW	4	b-bc	33	75	25	9	2	–	–	2-3	2-3	2500	3	5	40	32	28	5	0.1	0.0
Blacksod Point	25.6	-6	NN	4	c/pr	44	75	37	8	9	–	–	9+	9+	1500	1	3	46	38	*	2	3	*
Malin Head	21.7	-4	N	4	pr	42	75	35	8	8	–	–	9+	9+	2500	2	4	46	37		1	1	0.8
Aldergrove	21.9	-2	NNE	1	c/r	35	92	33	7	5	2	–	9	10	1400	1	*	44	34	28	0.2	2	3.6
Birr Castle	23.4	+2	N	2	b-bc	34	92	32	8	–	4	–	0	2-3	–	1	*	45	33	28	–	–	1.7
Valentia Obsy.	26.7	+2	NNE	3	c/pr	41	85	37	8	8	–	–	9+	9+	2500	1	3	46	39	32	1	2	1.9
Roches Point	24.1	-6	N	5	ebc	40	97	39	8	5	–	6	1	7-8	2500	1	4	46	39	*	–	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 15th Nov. 18h. G.M.T. — 01h. G.M.T. 16th Nov. 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	86	02854	63126	36	25745	63785	87	25834	34585	84	01854	04324
115	87	14844	33687	87	33844	65687	27	10844	32386	32	62735	32268
203												
206	36	26963	32484	9-	83867	65487	55	01951	28386	00	02890	28228
210	26	25944	30685	2-	25846	64686	23	27845	64587	47	02854	29426
219	86	26855	01486				21	02854	20388	62	67636	26668
230	3-	02866	28314	4-	02853	30428	53	02855	80426	52	02853	30228
245	30	01944	65514	8-	01963	63514	50	02951	64426	59	02961	28328
260	74	05653	30424				50	05674	26214	57	02744	28125
276												
279	92	02855	65426	44	01861	32321	07	02790	30325	57	02754	28417
285										23	01744	32415
288	95	25544	66585	14	05661	24322	9-	85635	27488	56	01762	26415
575	36	02861	29325	57	81854	63488	37	81854	63488	37	25863	32287
301	84	02854	34425	57	05553	32424	03	05690	31327	07	17490	32325
321	86	02754	31486	06	01630	28483				31	02765	28425
299	8-	14745	02585	8-	21746	02663	80	14744	26614	8-	27735	32685
392	86	05653	02585	57	05654	30584	86	25755	30486	54	02753	28586
310	26	01426	32526									
614	87	05554	32317	57	05653	31324	53	01754	28314	54	05563	28265
333	3-	81855	34527	56	01863	34483	10	01826	02213	17	02853	32316
334	--	02746	32417	--	02646	32417						
340	5-	05657	31387	5-	81655	32387				54	02852	32324
136	86	01964	01484	81	81945	01485	50	01843	28583	5-	02848	28588
330	10	01754	04314	57	02754	04428				10	01753	04313
350	23	02754	30315	36	25644	65585				07	05690	59315
368	78	01854	02414	56	01753	32384				54	01763	02214
379	50	05664	63514	50	05664	65584				57	05654	30426
390	20	05654	30614	50	05664	30514	03	05590	63513	5-	05556	28506
382	53	05664	32315	50	05663	34523	00	05690	28200	57	05661	30325
438				80	01754	30514	00	05690	30500			
430	13	05652	63414	5-	05567	32317	00	05690	32500	00	01790	65413
409	36	25855	35685	26	8855	34486	26	01854	02924	86	01854	06224

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 16th November, 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	pfobcczo	cpfoczo	cbcmox
Croydon	cmoemczo	czocz	bzobcmo
Greenwich	bbc	bccbc	bccbcmo
Camden Square	b	c	*
Kensington	bc	bc	*
Hampstead	bc	bcx	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 0.3 Time 17-18h 15th
Min. <0.1 Time 20-24h 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	47	33	24	Tr	Tr	3.7	*	*
Croydon	46	31	29	–	–	0.7	*	*
Greenwich	46	34	28	–	–	4.4	71	77
Westminster	49	35	29	–			77	83
Regents Park	47	33	25	–	–		72	80
Camden Square	47	34	27	–	–	*	*	78
Kensington	48	33	24	–	Tr		73	77
Hampstead	45	30	25	–	–		*	86

SECRET

BRITISH SECTION

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

Wednesday 17th November 1943

No. 29945.

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

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)	15·8	0	NNW	3	zo	39	65	29	6	5	1	8	4-6	10	4000
	Croydon	15·8	-2	NW	3	m	39	75	31	4	5	7	–	4-6	10	2500
	S. Farnborough	16·5	-2	NNW	3	zo	39	75	30	6	–	1	–	0	10	–
	Boscombe Down	17·6	-2	NW'N	4	c	39	75	30	7	–	2	7	Tr	10	–
	Thorney Island	16·6	-2	NW'N	4	c	42	75	33	6	5	2	–	1	10	5700
	Lympne	14·4	-2	NNW	4	zo	39	92	35	5	5	7	–	7-8	10	1700
	Manston	13·5	+2	NNW	3	zo	39	85	34	6	5	–	–	10	10	800
2	Shoeburyness	15·0	+2	NW'N	3	zo	40	75	32	6	5	1	–	2-3	10	2500
	Felixstowe	12·8	0	NW	4	zo	40	85	35	6	5	7	–	7-8	10	2500
	Gorleston	10·7	-2	NNW	4	ir	42	75	36	7	8	–	–	9+	9+	1000
	Mildenhall	14·4	+2	NW'N	4	c-bc	39	75	33	7	5	4	8	Tr	7-8	2500
	Cranwell	14·9	-6	NNW	5	c	40	65	30	7	5	3	5	2-3	9	3000
3	Birmingham	16·8	-4	NNW	3	zo	37	75	30	6	–	–	6	0	9	–
	Upper Heyford	16·5	-2	NNW	3	zo	37	75	30	5	–	7	6	0	9+	–
4	Ross-on-Wye	17·5	-6	N'W	2	c-bc	41	65		8	1	–	2	2-3	7-8	3000
5	Hartland Point	18·9	-4	NNE	4	q/pr	42	75	38	8	8	–	–	9+	9+	1500
	Bristol	18·4	-4	NNW	3	zo	40	65	31	6	7	7	–	2-3	9	2500
	Portland Bill	17·7	-4	NNW	4	c	42	85	37	8	5	–	–	10	10	4000
	Plymouth	19·8	+2	NNW	2	zo	43	75	35	6	5	7	7	2-3	10	1500
	The Lizard	20·8	+6	NNW	4	pr	43	85	38	8	5	–	–	10	10	2000
	Scilly (St. Mary's)	21·5	-2	N'W	5	cjp	46	65	34	8	8	6	3	4-6	9	1500
	Guernsey															
6	Pembroke	20·1	-4	NNE	1	rr	39	97	38	7	8	–	–	9	9	1500
7	Holyhead (Valley)	18·7	-10	N'W	3	c	44	75	37	9	8	1	7	4-6	9+	3000
	Chester (Sealand)	17·6	-10	N	3	bc	41	55	26	8	1	6	8	1	4-6	3500
8	Manchester	17·0	-12	NW'W	4	zo	38	65	27	5	–	–	3	0	1	–
10	Spurn Head	12·6	-8	NW	6	rs	37	92	34	6	5	–	–	10	10	1500
	Catterick (Sc)	15·9	-6	SSW	5	bc	39	65	28	8	–	6	8	0	4-6	–
	Tynemouth	16·5	-2	NNW	5	zo	40	75	32	6	2	3	1	4-6	4-6	1600
11	St. Abbs Head	16·5	+2	NW	5	c	39	65	29	8	2	4	–	7-8	9	2000
	Leuchars	17·4	-2	NNW	3	bc	40	75	32	8	8	3	–	4-6	4-6	3000
12	Renfrew (Abbots I.)	18·1	-10	—	0	c	40	65	28	8	–	2	–	0	10	–
	Eskdalemuir	16·9	-10	N'W	3	b-bc	37	45	21	6	7	4	–	2-3	2-3	2500
	Point of Ayre	17·9	-10	N'E	4	c	43	65	29	8	8	7	–	Tr	9+	3000
13A	Tiree	17·3	+6	SSW	1	roro	42	92	40	7	6	2	–	7-8	9+	1000
13B	Stornoway	19·3	+18	—	0	b-bc	43	75	36	9	5	–	–	2-3	2-3	1500
15	Dalwhinnie	18·5	-2	NE	2	bc	34	85	30	8	8	–	–	4-6	4-6	2500
	Aberdeen	17·3	+6	NW'N	3	b-bc/ps	37	85	33	8	3	–	3	2-3	2-3	1500
	Wick	18·8	+8	N'E	3	b-bc	41	65	30	9	1	–	–	2-3	2-3	2500
16	Sumburgh	18·1	+8	N'W	3	b-bc	39	65	28	9	5	6	–	2-3	2-3	2500
17	Blacksod Point	21·6	-28	WNW	6	iro	50	85	46	7	6	2	–	4-6	10	800
18	Malin Head	14·6	-42	SSW	4	rr	38	92	36	8	–	2	–	10	10	1500
	Aldergrove	19·0	-26	SW'W	2	rs	36	92	35	6	–	2	–	10	10	700
19	Birr Castle	21·0	-26	W	2	rr	40	85	36	7	6	2	–	7-8	10	800
20	Valentia Obsy.	25·6	-14	NW'N	4	pr	47	75	40	8	3	–	–	10	10	2500
	Roches Point	23·7	-16	N	4	bc	45	85	41	8	2	3	5	1	4-6	2500

OBSERVATIONS at 18h. G.M.T. 16th November — 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. 16th (39)	Weather 13h.—18h. 16th (40)	Weather 18h. 16th to 1h. 17th (41)	Weather 1h.—7h. 17th (42)
London (Kew)	16·3	+10	WS	1	b-bcf	36	75	29	3	5	–	–	2-3	2-3	4000	1	*	bcmoczo	cbcfw	cf mmow	cmxmo
Croydon	16·1	+6	WNW	1	bf	34	85	30	2	–	–	–	0	0	–	0	*	bcxocmcfcm	cmocz,f	cfczcf	ofcmx
S. Farnborough	16·4	+6	W'N	2	zo	34	85	26	5	–	–	2	0	1	–	0	*	bcmoczo	cbczob	bbcmoczobmx	bcre cmox
Boscombe Down	17·4	+2	N'W	2	b-bc	32	85	27	7	4	–	2	1	2-3	4000	0	*	cmoczoc	cbbmob	bbcmobmo	bmobm
Thorney Island	16·9	+6	NW'W	2	zo	37	85	32	6	–	7	2	0	4-6	–	0	*	bc	cmobcmo	bbcbmo	bcmocmo
Lympne	15·0	+4	NNW	3	zo	35	85	32	5	–	3	2	0	7-8	–	1	3	bccmo	cmo	bcidomoc	cidomocmo
Manston	14·3	+10	NNW	4	zo	38	75	31	6	5	–	8	2-3	4-6	1200	0	*	ccmo	cmo zo	czomoirprso	cmo
Shoeburyness	15·3	+2	NW	3	zo	35	85	30		–	–	7	0	10	–	1	*	ccmo	czo	cbcmobc	bccx
Felixstowe	14·0	+10	NW'W	4	zo	38	85	33	6	5	–	–	10	10	2700	0		cmo	cmo	cbmo	bmocmo
Gorleston	11·6	-2	NW	3	iro	39	85	34	6	6	–	–	10	10	800	1	3	cir	cirozo	cirophl	bcclprrs
Mildenhall	14·2	+2	NW'W	3	o/r	37	85	34	7	5	–	–	10	10	1600	1	*	c	bccidoiro	cbcmoxcmo	bcmoxcmx
Cranwell	15·2	+2	WNW	5	zo	37	85	32	6	5	–	–	4-6	4-6	3000	0	*	cmoc	cprobcmo		bczo
Birmingham	17·2	+2	NNW	3	zo	35	75	28	5	–	–	1	0	1	–	1	*	bccz	cbz	bz	bfx
Upper Heyford	16·4	+4	NW	3	zo	34	75	27	6	–	7	–	0	2-3	–	1	*	cmomo	bc zobcmo	bczomob	cbcbm
Ross-on-Wye	17·3	0	WSW	1	zo	34	75	28	6	5	–	1	1	1	3000	1	*	bcc	bc	bbx	bcx
Hartland Point	16·8	-10	N	4	c	43	92	40	8	3	–	–	9	9	2500	1	3	bccphr	cprr	cprbcb	bc
Bristol	17·5	0	N	1	m	37	75	30	4	5	–	–	2-3	2-3	2500	1	*	bcmocmo	bcm zcz	bfmx	bfxbmx
Portland Bill	17·3	0	NNW	4	o	41	92	39	8	5	–	–	10	10	2500	1	4	c	co	b	bc
Plymouth	18·2	-6	NNW	3	iro	41	85	37	4	–	2	–	10	10	6000	1	2	bccmo	cmocm	bcb	bx
The Lizard	18·4	-16	N	4	c	42	85	36	8	5	–	–	10	10	1500	1	3	bzccpr	cprc	cmbc	bccbc
Scilly (St. Mary's)	19·5	-14	NW'N	5	ir	44	75	36	7	5	2	3	7-8	10	1200	1	5	c	poir	cpoqbc	bccpoq
Guernsey																					
Pembroke	19·0	-8	NE	3	rr	40	97	39	7	8	–	–	10	10	1500	1	3	cqrr	prr	cbc	cbc
Holyhead (Valley)	18·3	+6	NW	1	iro	39	97	38	8	5	7	–	2-3	2-3	4000	1	2	c	cor	bcc	bc
Chester (Sealand)	17·7	+8	N	2	zo	34	75	28	6	5	–	1	Tr	1	3000	0	*	obczomoy	c,bcy zo	b,czbc	bbcbmo
Manchester	17·5	+8	NNW	3	m	33	75	27	4	–	4	–	0	Tr	–	1	*	bcfmczx	bbcz.z	bzmfmx	xm momx
Spurn Head	14·5	+24	NE	5	rs	38	85	35	7	8	2	–	7-8	9+	1500	1	4	cqrrprs	cr.r. prs	rorprs	cqprs
Catterick (Sc)	17·3	+16	NW	4	zo	36	75	29	6	5	–	–	7-8	7-8	2000	0	*	cbc	bc mo	bcmoprobc	cbccmo
Tynemouth	17·2	+10	NNW	5	bc/pr	39	92	36	7	2	–	–	4-6	4-6	2500	1	4	cbcmo	cthqbcc	bcpt	bcpbc
St. Abbs Head	17·4	+4	N	6	iro	38	85	34	7	5	–	–	9+	9+	1500	0	5	cbcc	cphr cr.	procbc	bccbc
Leuchars	20·3	+22	N'W	2	b	34	97	33	8	5	–	–	Tr	Tr	3000	1		cbc		bmobc	bcbx
Renfrew (Abbots I.)	20·7	+20	SW	1	b	28	97	28	7	–	4	–	0	1	–	3	*	cbccmoc	csoso moc	bcmobc	bxbcxbxmo
Eskdalemuir	19·3	+10	N	3	b	29	75	24	6	5	–	–	Tr	Tr	2500	3	*	cbc	bcbx	bxmo	bcx
Point of Ayre	18·4	+6	ENE	4	roro	40	75	32	8	–	2	–	10	10	2000	1	*	c	cr.r.f	b	bbcc
Tiree	22·2	+30	NE	2	b	37	85	33	9	1	–	–	1	1	2000	1		croro	cro do,bcy	bcridoc	cirobcpro
Stornoway	22·6	+18	—	0	c	33	92	32	8	5	6	–	4-6	9+	1800	1	2	cidobc	bcc	ridobcprc	cbcproc
Dalwhinnie	20·7	+20	SE	2	b-bc	23	85	20	8	5	–	–	2-3	2-3	4000	3		cpsobc	bcb		bcpso
Aberdeen	19·5	+18	NW	2	b	33	85	29	8	8	–	–	1	1	2500	1	3	bccpsobc	bcpsob	bbc*	bccprs
Wick	20·3	+10	NNW	1	b-bc	35	92	33	9	5	–	–	2-3	2-3	2000	1	*	bcb	bcc	crsbcproso	cbcproc
Sumburgh	18·8	+4	N	1	iso	37	65	28	8	5	–	–	9+	9+	5000	3	2	b	bcc iso	cisodobc	bcpsbc
Blacksod Point	22·4	+18	NNW	7	bc/r	49	85	45	7	6	–	–	4-6	4-6	1500	2	6	r	r	c	pr
Malin Head	20·7	+58	NE'E	2	pr	42	85	38	8	8	–	–	7-8	7-8	2500	2	3	r	r	pr	r
Aldergrove	20·7	+22	NE'E	2	zo	34	97	34	6	5	–	–	10	10	1500	1	*	irororsmo	rsmososo	cmdombmo	xciro
Birr Castle	16·7	-12	N	2	c-bc	46	92	44	8	8	7	–	4-6	7-8	1500	1	*	r	r	*	c
Valentia Obsy.	22·9	-6	N'W	6	c/pr	50	85	46	8	1	3	–	9+	9+	2400	1	5	pr	pr	pr	pr
Roches Point	17·6	-34	NNW	5	c/r	46	92	44	8	6	–	–	9	9	1500		4	bc	r	r	bc

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

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Light to moderate northwest wind veering toward northeast; cloudy with local wintry showers at first, but with brighter period inland; generally cloudy later with intermittent wintry precipitation; cold.
4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England	Moderate north to northeast winds; mainly fair or fine except for a few local showers near the coast; cold with frost at night.
9 N. Midlands; 10 N.E. England; 11 S.E. Scotland	Moderate north to northeast winds; mainly cloudy; occasional showers of sleet with snow at times on higher ground; cold.
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland	Fresh northeast winds; mainly fine; cold with frost at night.
14 Mid Scotland; 15 N.E. Scotland	Fresh northeast winds; variable cloud; snow showers; cold.
16 Orkneys and Shetlands	As 14-15
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	Moderate northerly winds, fresh at times on the coast; variable cloud with brighter periods; local showers chiefly near the north and east coasts; cold.

GENERAL INFERENCE

Pressure is high on the eastern North Atlantic and an associated ridge in the Faeroes Iceland area will move south southeast over the British Isles. Weather will continue cold generally with occasional wintry showers chiefly in north and east Scotland, and in the eastern counties of England.

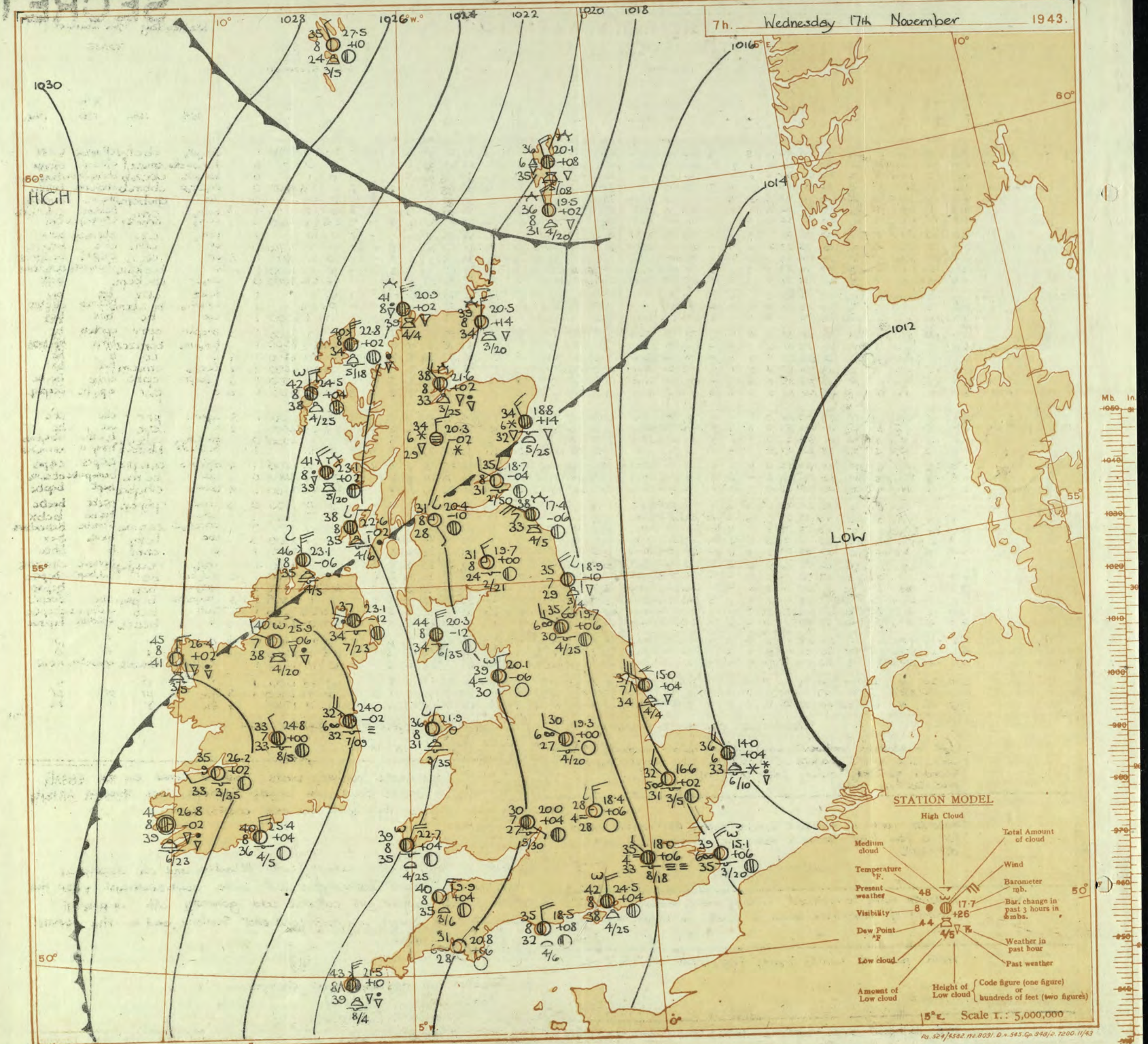
FURTHER OUTLOOK

No indication of any important changes.

Forecasts issued at 10.30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Wednesday 17th November 1943.



Rs. 524/4582. Nr. 8031. D.w. 543. Gp. 948/2. 7200. 11/43

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.

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

Wednesday 17th November 1943

No. 29945.

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

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	*	*	*	*	*	34	*	*	*	*	*	*	*	*	*
	Croydon	290	16.7	+4	NW	2	of+	36	85	32	3	5	–	–	10	10	1800
	S. Farnborough	226	17.3	+4	NW'W	1	m	32	85	28	4	–	–	–	0	0	–
	Boscombe Down	417	18.1	+4	NW'N	3	Z₀	29	85	25	6	–	–	1	0	Tr	–
	Thorney Island	10	16.9	+2	NW'N	3	Z₀	32	92	30	5	–	–	–	0	0	–
	Lympne	283	15.9	+8	NNW	2	Z₀	34	97	34	5	5	–	–	10	10	600
	Manston	154	14.5	+2	NNW	2	Z₀	39	85	36	6	5	–	–	7-8	10	1100
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	14.7	+2	NW	3	Z₀	36	97	36	6	5	–	–	2-3	2-3	4000
	Gorleston	5	13.7	+10	NW'W	3	bc	33	85	31	7	2	–	–	4-6	4-6	2500
	Mildenhall	15	15.9	+6	NW	3	Z₀	33	92	32	6	5	–	–	4-6	4-6	4000
	Cranwell	203															
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	17.6	+4	N	3	m	32	92	29	4	5	–	–	9+	9+	800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	18.8	+14	NE	3	bc	41	75	35	8	1	4	–	Tr	4-6	4000
	Bristol	209	19.2	+10	N	2	bf	29	85	26	3	–	–	–	0	0	–
	Portland Bill	32	17.8	+4	N	3	b	36	92	33	8	–	–	–	0	0	–
	Plymouth	86	19.4	+16	NE	1	b	35	75	30	7	–	–	–	0	0	–
	The Lizard	240	18.9	+16	N	2	bc	37	85	34	8	2	–	–	4-6	4-6	2500
	Scilly (St. Mary's)	163	18.8	+26	ENE	4	bc	42	75	36	8	8	–	–	4-6	4-6	1500
	Guernsey	175															
6	Pembroke	142	20.5	+8	NE	3	bc	38	85	34	8	8	–	–	4-6	4-6	1500
7	Holyhead (Valley)	32	21.4	+10	N	2	bc	38	85	33	8	8	3	–	4-6	4-6	2500
	Chester (Sealand)	16	19.9	+4	N'E	2	m	35	75	30	4	–	4	–	0	1	–
8	Manchester	230	20.2	+8	NW	2	m	28	92	26	4	–	–	–	0	0	–
10	Spurn Head	29	15.9	+4	NW	5	cq	38	85	34	7	8	6	–	7-8	9	1500
	Catterick (Sc.)	192	13.1	+4	NNW	3	bc/pr	36	92	33	7	2	6	–	2-3	4-6	3000
	Tynemouth	108	18.8	+4	NNW	5	pr	37	85	33	7	2	–	–	4-6	4-6	2500
11	St. Abbs Head	280	19.2	+6	NW	4	bc	37	85	34	7	2	6	–	2-3	4-6	2500
	Leuchars	36	20.1	-10	W	2	cbcjp	35	85	31	8	–	3	–	0	7-8	–
12	Renfrew (Abbots I.)	19	21.9	+4	N'S	1	c-bc	32	85	27	7	–	5	2	0	7-8	–
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	21.4	+6	NE'N	4	b	41	75	32	8	1	4	–	Tr	1	2000
13A	Tiree	44	23.3	-10	WNW	1	e/d	38	92	37	3	5	7	7	1	10	2000
13B	Stornoway	12	22.6	-2	NNW	4	c	39	85	34	7	5	3	–	2-3	9+	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	18.8	-16	NW	5	c	36	85	30	8	5	–	–	10	10	3000
	Wick	114	19.5	-6	NW	3	bc/pr	39	85	33	8	3	–	3	2-3	4-6	1500
16	Sumburgh	19	18.6	0	N	4	b-bc	36	75	29	8	2	4	–	1	2-3	2000
17	Blacksod Point	18	25.9	+6	N	3	bc	45	75	38	8	8	4	2	2-3	4-6	2500
18	Malin Head	84	24.0	+6	N	2	b.bc	42	56	38	8	–	–	1	0	2-3	–
	Aldergrove	268	24.4	+6	–	0	Z₀	31	92	30	5	–	–	–	0	0	–
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	25.0	+26	NNE	4	b	45	75	38	8	5	–	–	Tr	Tr	2800
	Roches Point	22	23.8	+38	N	3	b	44	85	40	8	5	–	–	1	1	1500

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

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)	18.0	+6	NNW	2	Z₀	35	85	32	5	5	–	–	10	10	1500	1	*
Croydon	18.0	+6	NW	1	m/f	35	92	33	4	5	–	–	10	10	1800	0	*
S. Farnborough	18.2	0	NW'N	1	Z₀	33	85	30	5	5	–	–	4-6	7-8	2000	3	*
Boscombe Down	19.3	+12	N'W	3	Z₀	29	92	27	5	–	7	1	0	1	–	0	*
Thorney Island	17.6	+2	N'W	4	Z₀	33	92	31	6	5	7	–	4-6	4-6	2500	0	*
Lympne	16.2	-14	NNW	3	Z₀	33	97	32	5	5	4	1	4-6	7-8	400	1	2 §
Manston	15.1	+6	N'W	4	Z₀	39	85	35	6	5	3	3	2-3	4-6	2000	0	*
Shoeburyness	16.6	+6	NNW	2	Z₀	33	97	32	6	5	–	–	7-8	7-8	1500	1	
Felixstowe	15.3	+6	NW	3	Z₀	34	97	34	5	5	–	–	10	10	4000	0	4
Gorleston	14.0	+4	NW	3	c/rs	36	92	33	6	8	–	–	9	9	1000	1	3
Mildenhall	16.6	+2	NW'W	3	Z₀	32	97	31	5	5	–	–	2-3	2-3	2500	0	*
Cranwell	17.6	+2	NNW	3	Z₀	33	92	31	6	5	7	–	4-6	4-6	2500	1	*
Birmingham	19.2	+2	NW	3	bf	30	85	26	3	–	–	–	0	0	–	1	*
Upper Heyford	18.4	+6	N	3	m	28	97	28	4	–	4	–	0	Tr	–	3	*
Ross-on-Wye	20.0	+4	SE	1	ebc	30	85	27	7	5	–	–	7-8	7-8	3000	3	*
Hartland Point	20.2	+4	NE	3	b-bc	40	85	35	8	1	–	–	2-3	2-3	4000	1	3
Bristol	20.6	+10	NW	1	Z₀	27	92	25	4	–	4	1	0	1	–	0	
Portland Bill	18.5	+8	N	4	bc	35	92	32	8	1	–	–	4-6	4-6	4000	1	4
Plymouth	20.8	+6	NE'N	1	Z₀	31	85	28	6	–	–	–	0	0	–	0	1
The Lizard	20.9	+6	NNE	3	bc	37	85	32	8	4	3	–	4-6	4-6	2000	1	4
Scilly (St. Mary's)	21.5	+10	N	5	c/pr	43	85	39	8	8	–	–	10	10	1500	1	4
Guernsey																	
Pembroke	22.7	+4	NNE	4	bc	39	85	33	8	7	3	–	4-6	4-6	2500	1	1
Holyhead (Valley)	21.9	0	N'E	1	b-bc	36	85	31	8	8	4	–	2-3	2-3	3500	1	1
Chester (Sealand)	20.4	+2	NW'N	3	Z₀	32	85	29	6	5	–	–	2-3	2-3	3000	3	*
Manchester	20.2	+2	WNW	1	m	28	92	26	4	5	4	1	2-3	4-6	3000	3	*
Spurn Head	15.0	+4	NW	6	bcq	37	92	34	7	8	2	–	4-6	4-6	1500	1	5
Catterick (Sc.)	19.7	+6	WNW	3	Z₀	35	85	30	6	5	7	–	4-6	7-8	2500	2	*
Tynemouth	18.9	-10	NNW	4	bc	35	85	29	7	2	4	–	2-3	4-6	1500	1	4
St. Abbs Head	17.4	-6	WNW	5	c-bc	38	85	33	7	3	6	–	4-6	7-8	2500	0	4
Leuchars	18.7	-4	WNW	2	b-bc	35	85	31	8	5	4	–	1	2-3	5000	3	*
Renfrew (Abbots I.)	20.4	-10	SSE	1	b	31	85	28	8	–	4	–	0	1	–	3	*
Eskdalemuir	19.7	0	NNW	3	b	31	75	24	8	5	–	–	1	1	2100	3	*
Point of Ayre	20.3	-12	N'E	5	c	44	65	34	8	5	–	–	9	9	3600	0	4
Tiree	23.1	+2	NNW	4	c/bc/pr	41	85	39	8	3	6	–	7-8	9+	2000	1	3
Stornoway	22.8	+2	N	6	c/pr	40	75	34	8	8	–	–	7-8	7-8	1800	2	3
Dalwhinnie	20.3	-2	N	3	ps	34	85	29	6	–	–	–	10	10	<150	4	*
Aberdeen †	18.8	+14	NW'N	3	prs	34	92	32	6	7	–	–	7-8	10	2500	1	3
Wick	20.5	+14	N	3	bc	39	85	34	8	3	6	3	2-3	4-6	2000	1	
Sumburgh	19.5	+2	NNW	4	bc	36	75	31	8	2	6	–	4-6	4-6	2000	3	3
Blacksod Point	26.4	+2	N	3	b-bc/pr	45	85	41	8	9	–	–	2-3	2-3	2500	1	3
Malin Head	23.1	-6	N	5	cbc	46	65	35	8	8	–	6	4-6	7-8	2500	2	4
Aldergrove	23.1	-12	WNW	2	if	37	85	34	7	5	–	–	9+	9+	2300	1	*
Birr Castle	24.8	0	NNW	1	c	33	97	33	7	5	–	–	10	10	2500	1	*
Valentia Obsy.	26.8	+2	–	0	c/pr	41	92	39	8	8	–	–	9	9	2300	1	1
Roches Point	25.4	+4	N	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)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Night 18h–7h mm. (37)	Sunshine 16th Hrs. (38)
London (Kew)	40	33	23	–	Tr	0.0
Croydon	39	32	29	–	–	0.0
S. Farnborough	40	28	17	–	–	0.3
Boscombe Down	40	28	22	–	–	1.6
Thorney Island	42	29	21	–	–	*
Lympne	40	32	27	–	Tr	0.1
Manston	40	36	35	–	Tr	0.0
Shoeburyness	40	32	29	–	–	0.0
Felixstowe	41	34	29	Tr	–	0.9
Gorleston	43	35	31	5	5	0.7
Mildenhall	41	32	25	0.3	–	1.9
Cranwell	41	31	29	Tr	–	1.3
Birmingham	38	28	22	–	–	2.1
Upper Heyford	38	28	25	Tr	–	*
Ross-on-Wye	41	29	19	–	–	2.2
Hartland Point	44	39	35	2	0.1	0.2
Bristol	43	27	17		Tr	0.6
Portland Bill	42	33		–	–	*
Plymouth	46	31	19	Tr	0.1	2.2
The Lizard	46	34	*	0.5	2	2.8
Scilly (St. Mary's)	47	41	*	1	6	3.0
Guernsey						
Pembroke		35		–	0.4	0.0
Holyhead (Valley)	44	34	28	0.5	0.1	*
Chester (Sealand)	42	31	19	–	–	2.6
Manchester	39	26	18	–	–	*
Spurn Head	41	35	*	13	2	0.3
Catterick (Sc.)	39	32	32	–	Tr	4.3
Tynemouth	42	34	30	2	3	*
St. Abbs Head	40	35	*	0.2	0.2	
Leuchars	41	31	23	–	–	3.5
Renfrew (Abbots I.)	40	26	14	0.2	–	0.3
Eskdalemuir	38	26	16	–	–	4.6
Point of Ayre	43	38	*	0.5	–	0.0
Tiree	43	31	30	5	2	
Stornoway	43	33	29	9	–	4.0
Dalwhinnie	35	20	15	Tr	0.3	3.1
Aberdeen †	38	32	27	0.2	1	4.9
Wick	40	33	30	–	Tr	*
Sumburgh	39	34	31	Tr	0.2	4.9
Blacksod Point	51	43	*	3	0.6	*
Malin Head	45	41		7	1	r.4
Aldergrove	37	28	20	5	0.2	0.0
Birr Castle	46	33	31	8	–	1.0
Valentia Obsy.	50	39	30	4	4	1.2
Roches Point		39	*		0.2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 16th Nov. $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 17th Nov. $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	2-	02365	31424	8-	01854	23324	86	02754	30515	36	25754	65585
115				27	10844	28327	87	81844	32486	36	81844	32586
203	10	00351	10361	5-	02943	08212						
206	40	01962	28122	24	01863	30314	26	02863	26315	26	25853	29384
210	83	10945	30416	2-	25944	01414	57	62844	28368			
219	52	02845	04268	50	01954	02214	57	02852	01488	23	02854	32425
230	51	52744	04268	54	01961	04171	5-	02968	00028	5-	01964	32264
245				50	01961	28111	55	02964	24217	84	81844	30384
260	54	05573	26225	60	05690	32110	53	05553	22304	50	05553	26213
276												
279	14	02761	30225	54	01653	02213	00	05690	30200	53	05653	26114
285	13	01852	30414							53	01744	32315
288	07	05390	27625	57	25454	29485	20	25633	28383	07	02790	24215
575	62	68535	18378	52	21745	00067	30	01751	32141	33	25754	26284
301	27	03662	32324	40	43353	32145	04	05690	31102	03	08490	01204
321	2-	02764	28426	54	05653	30483	54	05661	29412	53	05563	28224
290	80	22745	28685	80	02745	30415	23	27743	32484	80	22747	28567
292	24	02853	64425	57	51653	28454	27	02761	61386	34	05663	28214
310	20	01424	26314	20	01425	26315				26	05639	26419
614	07	05690	32212	5-	05567	28227	00	05690	02802	54	05664	30204

III	13h. G.M.T. 16th Nov. $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 17th Nov. $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	47	02864	32227	52	61754	00068	10	01764	00014	14	01862	02213
334	--	27644	02385	--	02743	02214						
340	03	05630	32324	07	05590	00002	50	08461	28201	50	04563	30203
136	8-	81746	28588	5-	05635	28485	80	01854	28484	5-	25735	28488
336				53	05654	32317				50	01763	04313
350	03	05630	30426	5-	08454	26324	46	08471	26313	54	08423	27383
368	53	01863	30224	57	05654	02127	00	05690	04210	54	05652	02103
379	07	05690	28428				5-	05544	30318	53	05554	30315
390	57	05553	28527	5-	08465	24425	03	08490	28425	5-	08448	30328
382	07	17690	30427	57	05654	28215	00	05590	31310	5-	41551	30301
438	57	05654	28417	40	05553	30413	53	05654	32417	50	05653	32413
430	57	05664	30328	07	05630	28225	53	05690	02212	57	05643	03314
409	87	64737	31368	57	62745	30368	00	00990	05210	54	01963	05224

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 17th November 1943.
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	bcm₀cz₀	cbcfw	cfmxm₀
Croydon	bcx cm cf cm	cm₀cz,f	ofc mx
Greenwich	c ⊕m₀	⊕bm₀	cm₀
Camden Square	c	c	*
Kensington	bc	bcc	*
Hampstead	bc	bcx	c

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 0.5 Time 17-19h 16th
Min. 0.1 Time 4-7h 17th

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	40	33	23	–	Tr	0.0	*	*
Croydon	39	32	29	–	–	0.0	*	*
Greenwich	39	34	29	–	–	0.0	67	85
Westminster	41	34	28	–			74	87
Regents Park	39	33	27	–	–		69	85
Camden Square	40	33	28	–	–	*	*	86
Kensington	40	33	25	–	–		49	87
Hampstead	38	31	26	–	–		*	70

SECRET

Page 1 BRITISH SECTION

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

Thursday 18th November 1943

No. 29946

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

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)	16.5	-12	N	3	zo	41	65	30	6	2	-	8	Tr	9+	2500
	Croydon	16.9	-14	WNW	3	m	40	75	32	4	5	-	6	4-6	9+	2000
	S. Farnborough	17.1	-18	NW'W	3	zo	41	65	30	6	1	4	8	Tr	4-6	2500
	Boscombe Down	18.4	-14	NW	3	bc	41	65	30	7	-	-	2	0	4-6	-
	Thorney Island	17.2	-12	NNW	4	zo	42	85	36	6	-	-	4	0	2-3	-
	Lympne	16.0	-6	N	3	zo	39	85	35	6	5	4	2	7-8	9	1700
	Manston	15.4	-6	NNW	3	zo	40	85	35	6	5	-	-	9	9	1000
2	Shoeburyness	16.6	-4	NNW	4	zo	40	75	34	6	1	-	9	2-3	9+	2500
	Felixstowe	14.7	-8	NNW	5	c	43	75	34	7	5	-	5	2-3	9	1500
	Gorleston	14.0	-2	NNW	4	phr	39	85	33	7	9	-	-	9	9	800
	Mildenhall	15.7	-10	NNW	4	zo	39	75	32	6	-	-	9	0	9	-
	Cranwell	16.4	-14	NNW	4	c	41	75	33	7	-	-	6	0	9	-
3	Birmingham	18.0	-10	NW	3	zo	39	65	27	6	-	3	-	0	4-6	-
	Upper Heyford	17.4	-14	NNW	3	m	40	65	30	4	-	-	6	0	7-8	-
4	Ross-on-Wye	18.9	-12	W'N	2	c	40	65	31	8	5	-	-	9+	9+	3000
5	Hartland Point	19.7	-10	NE	3	cbc/pr	43	85	37	8	2	6	-	4-6	7-8	2500
	Bristol	19.2	-14	NNW	3	zo	41	75	33	6	-	3	-	0	9	-
	Portland Bill	17.8	-12	N	4	bc	42	85	37	8	2	-	-	4-6	4-6	4000
	Plymouth	20.3	-10	NNE	3	b-bc	44	65	32	8	2	-	5	2-3	2-3	2500
	The Lizard	20.8	-4	NNE	2	c-bc	44	75	37	8	8	6	-	7-8	7-8	2700
	Scilly (St. Mary's)	22.0	-2	N	5	c	46	65	36	8	8	3	4	7-8	9+	1200
	Guernsey															
6	Pembroke	21.2	+10	NW	4	bc	43	85	40	8	7	3	-	4-6	4-6	2500
7	Holyhead (Valley)	20.5	-6	NNE	4	bc	46	65	34	8	2	6	3	4-6	4-6	3000
	Chester (Sealand)	19.0	-4	N	3	zo	42	65	30	6	1	-	8	1	2-3	2500
8	Manchester	18.6	-8	N'E	4	m/f	37	55	24	4	4	-	-	Tr	Tr	4000
10	Spurn Head	15.6	-8	NW	4	zo	39	85	33	6	5	7	-	4-6	9+	1200
	Catterick (Sc)	18.9	+4	NNW	5	c-bc	39	85	34	7	3	3	-	2-3	7-8	3500
	Tynemouth	19.3	+10	N	4	pr	41	85	36	6	-	2	-	7-8	7-8	1800
11	St. Abbs Head	18.6	+6	NNW	5	c/pr	41	85	36	7	5	7	-	7-8	9+	2000
	Leuchars	21.3	+8	N	3	bc	42	75	35	8	3	6	3	4-6	4-6	2500
12	Renfrew (Abbots I.)	22.7	+16	NNE	2	c-bc	41	65	31	9	7	3	9	4-6	7-8	2500
	Eskdalemuir	20.3	+12	N	5	b-bc	39	55	26	8	8	4	-	2-3	2-3	2700
	Point of Ayre	20.6	+4	NE'N	5	b-bc	44	75	34	8	2	4	-	1	2-3	2500
13A	Tiree	25.2	+10	NNE	3	bc	43	75	36	9	2	-	-	4-6	4-6	2000
13B	Stornoway	26.2	+6	N	4	bc	44	55	30	8	8	-	-	4-6	4-6	1800
15	Dalwhinnie	23.0	+10	N	4	bc	34	75	28	8	5	-	9	2-3	4-6	2500
	Aberdeen	20.8	+6	NW	4	c-bcjp	37	85	34	8	3	-	3	4-6	7-8	2500
	Wick	23.1	+8	N'E	3	c-bc/pr	41	75	35	8	9	7	-	4-6	7-8	800
16	Sumburgh	22.2	+12	N	4	b-bcjp	39	75	32	9	2	6	-	2-3	2-3	1500
17	Blacksod Point	27.7	+4	N	6	c	49	65	37	8	8	3	-	4-6	10	2500
18	Malin Head	24.5	+4	N'E	5	pr	45	75	38	8	8	8	-	4-6	7-8	2500
	Aldergrove	23.2	0	N'W	2	bc	45	65	34	8	8	5	9	2-3	4-6	2000
19	Birr Castle	24.6	-2	N	2	c-bc	44	85	40	8	5	3	-	4-6	7-8	2500
20	Valentia Obsy.	27.2	-2	NNE	5	pr	49	75	42	8	3	-	-	9+	9+	2500
	Roches Point	24.3	-10	N	4	c/pr	45	85	41	8	8	-	-	9	9	1500

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

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)	17.5	+6	NNW	2	zo	38	75	30	5	5	-	8	2-3	7-8	4000	1	*
Croydon	17.6	+6	WNW	2	bf+	36	85	31	2	-	-	-	0	0	-	0	*
S. Farnborough	18.0	+6	NW	1	m	34	75	27	4	-	4	8	0	4-6	-	0	*
Boscombe Down	19.0	+6	NNW	3	zo	33	85	31	6	-	-	-	0	0	-	0	*
Thorney Island	18.2	+10	NW'N	2	zo	35	85	31	5	-	-	-	0	0	-	1	*
Lympne	16.5	+8	N'E	3	zo	34	85	31	6	-	-	-	0	0	-	0	2
Manston	15.5	+2	NNW	4	zo	39	92	37	6	5	-	5	4-6	7-8	1200	0	*
Shoeburyness	17.3	+6	NW	2	zo	36	85	32	*	-	4	1	0	2-3	-	1	*
Felixstowe	15.9	+18	NW	4	b/pr	38	85	36	6	5	-	-	1	1	2500	0	4
Gorleston	14.7	+8	N'E	3	bc/pr	41	75	35	7	8	-	-	4-6	4-6	1500	1	3
Mildenhall	16.8	+10	NNW	3	b-bc/p	37	92	35	6	5	-	-	2-3	2-3	2500	0	*
Cranwell	18.5	+20	NNW	4	zo	35	92	33	6	5	-	-	2-3	2-3	2500	1	*
Birmingham	20.2	+16	NNW	3	zo	36	85	32	5	5	6	-	2-3	2-3	2500	1	*
Upper Heyford	18.5	+14	NW	3	m	36	85	31	4	5	-	-	9	9	3500	1	*
Ross-on-Wye	19.9	+10	NW'N	2	zo	35	85	30	6	5	-	-	2-3	2-3	3000	1	*
Hartland Point	19.3	+6	NE	4	bc	42	75	35	8	2	-	-	4-6	4-6	2500	1	4
Bristol	20.0	+10	-	0	m	33	92	31	4	-	-	-	0	0	-	1	*
Portland Bill	18.9	+6	N	4	c	41	85	36	8	5	-	-	10	10	4000	1	4
Plymouth	19.9	+4	N	3	ig	38	92	36	6	6	7	-	7-8	10	2200	1	2
The Lizard	19.2	-4	N	2	cbc/pr	39	92	36	8	8	-	-	7-8	7-8	1600	1	3
Scilly (St. Mary's)	20.2	-10	N	6	cbc/phr	46	75	38	8	8	6	-	4-6	7-8	1500	1	5
Guernsey																	
Pembroke	22.6	+6	NE	3	bc	39	92	36	8	2	4	-	2-3	4-6	1500	1	2
Holyhead (Valley)	22.7	+20	N'E	3	bc	42	75	35	8	3	6	-	4-6	4-6	2500	1	3
Chester (Sealand)	21.7	+24	NW'N	3	m	37	75	31	4	5	-	-	2-3	2-3	2500	0	*
Manchester	20.8	+20	N'W	3	zo	35	75	30	5	-	-	-	0	0	-	1	*
Spurn Head	18.0	+14	NW'N	4	pr	39	85	35	7	8	-	-	9	9	1500	1	4
Catterick (Sc)	21.6	+20	NNW	4	prs	34	97	33	6	3	6	-	7-8	10	1700	1	*
Tynemouth	20.7	+10	N	5	cbc/phr	37	92	35	7	2	-	-	7-8	7-8	2500	1	4
St. Abbs Head	20.6	+10	N	6	cbc/pr	41	85	36	7	5	-	-	7-8	7-8	1500	1	5
Leuchars	24.1	+14	N	1	bc	38	92	35	8	5	4	8	2-3	4-6	4000	0	*
Renfrew (Abbots I.)	25.3	+14	N	2	bc	37	65	28	7	4	4	-	2-3	4-6	2000	1	*
Eskdalemuir	22.3	+10	NW	4	c-bc	34	75	26	7	8	4	-	4-6	7-8	2100	3	*
Point of Ayre	23.2	+12	NE	6	b-bc	44	65	32	8	2	4	-	1	2-3	2500	0	4
Tiree	27.8	+14	N	4	c	43	65	32	9	2	3	-	4-6	9	2000	1	3
Stornoway	28.3	+12	N	3	cbc	40	75	33	8	5	3	-	4-6	7-8	2200	2	2
Dalwhinnie		+14	N	3	c	33	85	30	7	5	-	-	9	9	2500	4	*
Aberdeen	23.8	+18	NNE	4	bc/phr	37	85	33	7	3	-	3	4-6	4-6	1500	1	3
Wick	25.5	+18	NNE	3	b-bc	38	92	35	8	5	-	-	2-3	2-3	2500	1	*
Sumburgh	24.2	+14	NW	4	b	36	85	32	9	3	-	-	Tr	Tr	2000	1	3
Blacksod Point	29.2	+14	N	5	c-bc	47	75	40	8	8	3	-	4-6	7-8	2500	1	4
Malin Head	26.9	+18	N	5	bc	45	65	33	8	8	-	-	4-6	4-6	1500	2	4
Aldergrove	26.8	+22	N'E	1	bc	36	75	31	8	4	3	-	2-3	4-6	2500	1	*
Birr Castle	25.6	+10	NNW	2	bc	40	85	36	8	5	-	-	4-6	4-6	2500	1	*
Valentia Obsy.	28.3	+12	N'E	5	bc	48	65	36	8	8	-	-	4-6	4-6	2500	1	4
Roches Point	25.2	+14	N'E	5	bc	45	85	41	8	5	3	1	2-3	4-6	1500	1	4

PAST 24 HOURS.

Stations	Weather 7h.–13h. 17th (39)	Weather 13h.–18h. 17th (40)	Weather 18h 17th to 1h. 18th (41)	Weather 1h.–7h. 18th (42)
London (Kew)	cbcmocz	ocycz o	cmo	cbcmox
Croydon	cmxcm	czcf	bfefbcmcm	cmirobcmc
S. Farnborough	bccmobcz	obccz ocz	bczbcmcmoc	ccmobcmox
Boscombe Down	bmobcmox	bcccmo	bmocm	cmbcmpmcmox
Thorney Island	bcmocm	obcmoczomo	b,cmo	bcbmo
Lympne	cmcmo	cmobcmo	bwmoxc	cmociro rrmo
Manston	cmo	cmoccz o	bczobbccmo	cmoirrrRR
Shoeburyness	cmoc	czo	bcmo	bccmox
Felixstowe	cmobcc	prbmo	cbmo	bmo
Gorleston	cprph	cbcpr	prrcl	cpr oq bc
Mildenhall	bcmox	cmoczocirom o	bciromox	
Cranwell	bcmocmobc	cpr omobc	bczo	bcmocmo
Birmingham	fbbc	bczv	bcbm	bmofx
Upper Heyford	bmxbcm	cmocmo	cmmoc	cbccmo
Ross-on-Wye	bbcc	ccbb	bcb	bx
Hartland Point	bccpr	bchrbc	bc	bc
Bristol	bmxbmox	zoczoifo	bmx	bmxcmx
Portland Bill	bc	c	bcb	bbc
Plymouth	bc	cirfmo	bmo	bc
The Lizard	bcc	cprcl	bcl	bc
Scilly (St. Mary's)	cpqc	cphr	cirqcy	cbcc
Guernsey				
Pembroke	bcprq	bc	bc	bc
Holyhead (Valley)	cprocbc	cjpbc	cbc	bccbc
Chester (Sealand)	b'b cmozo	czobc	bzmbc	cmobcx
Manchester	bcffxo	bzbczo	bzomo	bcmox
Spurn Head	phr cmo	cpr	phr	c
Catterick (Sc)	bc proc	bcprosmo	cpromobc	bcprocprobc
Tynemouth	bctrscp	bccprhl	cprsl	cpr
St. Abbs Head	cpo cpr	cprq	cprqcprhr	cphrcprbc
Leuchars	bxcprobc	cbc	bcbbc	bc
Renfrew (Abbots I.)	bx bc	bc	bccbc	bcc
Eskdalemuir	bcxbc	bcc	cbcx	bcx
Point of Ayre	b	b	bcc	cbc
Tiree	bcjpbc	bcvcv	cv	cv
Stornoway	bcjpbcy	cbc	bcc	c
Dalwhinnie	cpsbc	bcc	*	cpsoo
Aberdeen	bccprsqc	cprsobcc	bccprsbc	bcbx∞
Wick	bccbcpr	bccphbc	bccphrc	c
Sumburgh	bccpshbc	bcprb	bx	bcx
Blacksod Point	c	bc	bc	c
Malin Head	c	pr	pr	r
Aldergrove	cirocbc	bc	bcc	cxbcxc
Birr Castle	c	bc	*	c
Valentia Obsy.	pr	pr	bc	pr
Roches Point	pr	pr	bc	bc

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

Districts	Forecast
1 S.E. England; 2 E. England	Mainly moderate north to northeast winds; local showers, bright intervals; cold, with slight frost inland at night.
3 E. Midlands; 4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England	Light or moderate north to northeast wind; fair with considerable bright periods; cold with frost at night.
9 N. Midlands; 10 N.E. England	As 1-2
11 S.E. Scotland; 12 S.W. Scotland & Isle of Man; 13A W. Scotland	Light variable winds; mainly cloudy; cold.
13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Light variable to moderate westerly wind; cloudy; some light local rain or drizzle later; cold becoming milder.
16 Orkneys and Shetlands	As 13B - 15.
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	Light northerly to variable winds; fair; cold.

GENERAL INFERENCE

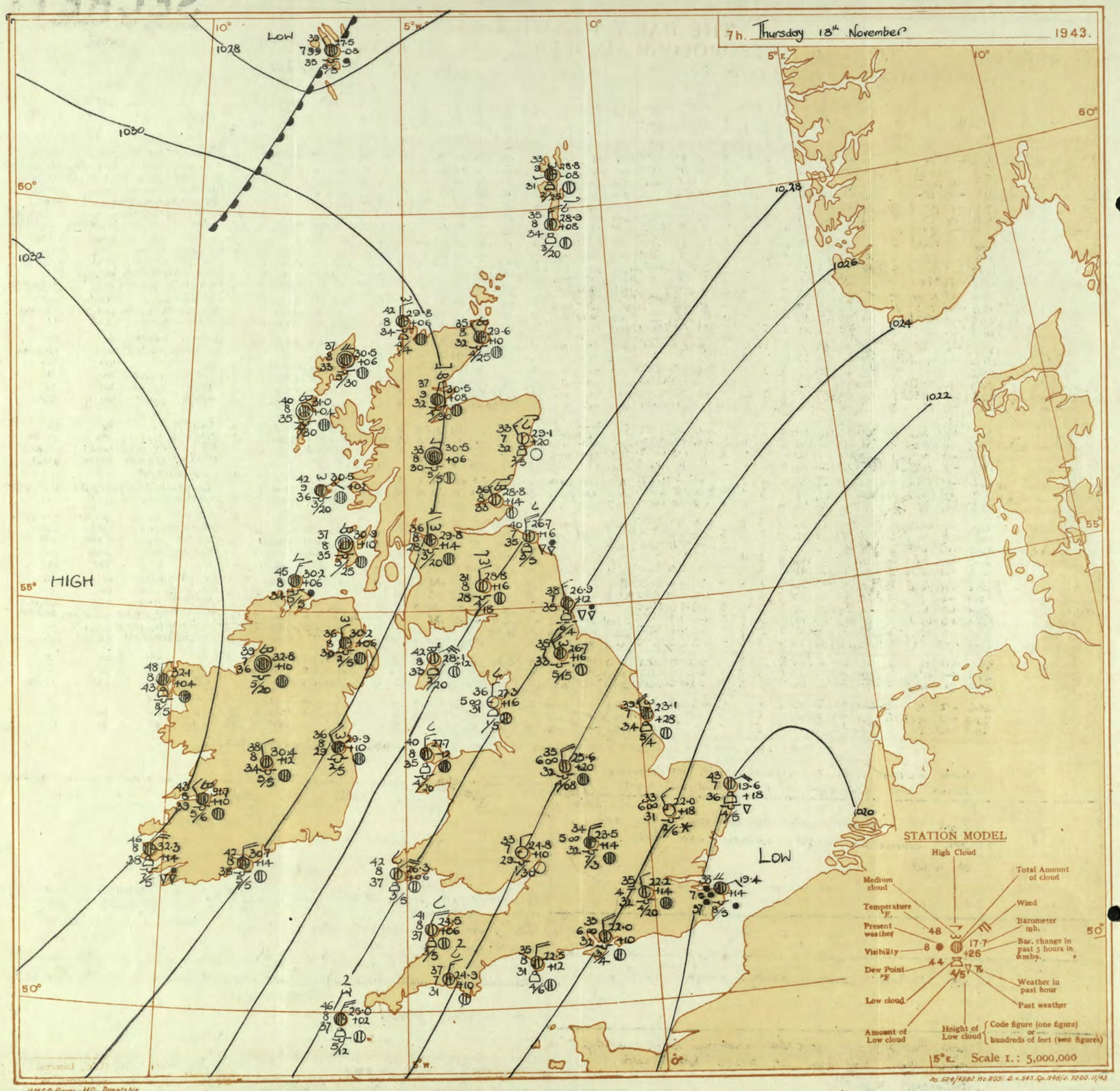
A ridge of high pressure over Scotland is developing and moving southwards. A weak trough of low pressure will later approach Scotland from northwest. There will be some showers in eastern coastal districts of England and later some light local rain will spread to Northern Scotland. It will be generally cold with local night frost but it will become milder in North Scotland.

FURTHER OUTLOOK

No important change indicated.

Forecasts issued at 10.30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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Rs. 524/4582 Wt. 8091. D. v. 545. Gp. 398/2. 7200. 11/43

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 18th November 1943

No. 29346

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

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	*	*	*	*	*	38	*	*	*	*	*	*	*	*	*
	Croydon ...	290	20·0	+8	N	3	m	37	85	34	4	5	7	–	4-6	10	900
	S. Farnborough	226	20·6	+6	NNW	3	c	37	85	32	7	5	–	–	10	10	1200
	Boscombe Down	417	21·6	+8	N'W	4	m	32	92	30	4	5	–	–	9+	9+	800
	Thorney Island	10	20·1	+6	N	4	z_o	37	85	33	6	5	–	–	9	9	2400
	Lympne ...	283	18·0	+2	N	4	z_o	35	97	33	6	5	–	–	9	9	500
	Manston ...	154	17·1	+6	N'W	5	z_o	39	85	35	6	5	–	–	9	9	1300
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	17·3	+2	NW	4	z_o	37	97	35	6	5	–	–	1	1	4000
	Gorleston ...	5	16·2	+10	NNE	4	rr	43	75	36	7	8	–	–	9+	9+	800
	Mildenhall ...	15	19·2	+6	NW	4	bc/r	34	97	32	6	5	–	–	4-6	4-6	4000
	Cranwell ...	203	21·1	+8	NNW	3	z_o	33	97	33	6	5	–	–	7-8	7-8	500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	21·4	+10	NNW	3	z_o	34	92	31	5	5	7	–	9+	10	1100
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	23·2	+14	NNE	4	bc	41	85	36	8	1	–	5	2-3	4-6	2500
	Bristol ...	209	22·8	+8	N	1	m	31	85	29	4	–	–	–	0	0	—
	Portland Bill ...	32	21·2	+10	N	4	b	34	92	32	8	–	–	–	0	0	—
	Plymouth ...	86	23·1	+12	N'E	1	z_o	36	85	32	6	–	–	–	0	0	—
	The Lizard ...	240	23·0	+10	N'E	3	l	36	85	30	8	4	3	–	4-6	4-6	2000
	Scilly (St. Mary's)	163	23·0	+10	NNE	6	c-bc	46	55	32	8	8	6	5	4-6	7-8	1500
	Guernsey ...	175															
6	Pembroke ...	142	24·7	+6	NE'E	3	bc	39	85	34	8	2	4	–	2-3	4-6	2500
7	Holyhead (Valley)	32	25·6	+10	N'E	4	bc	42	75	32	8	8	6	1	2-3	4-6	2500
	Chester (Sealand)	16	24·2	+6	N	2	z_o	36	85	31	6	–	3	8	0	7-8	—
8	Manchester ...	230	23·3	+6	NW	2	z_o	33	85	30	5	4	–	–	2-3	2-3	3000
10	Spurn Head ...	29	20·2	+12	NW	4	c	37	92	35	7	8	–	–	9+	9+	1500
	Catterick (Sc.) ...	192	23·4	+10	NNW	4	bc	35	97	35	7	8	4	–	1	4-6	1000
	Tynemouth ...	108	24·0	+12	N	6	prs	40	92	37	7	9	–	–	7-8	7-8	1500
11	St. Abbs Head	280	24·3	+14	NNE	6	c/phr	40	85	35	7	2	4	–	4-6	9	2500
	Leuchars ...	36	26·4	+6	N	2	bc	34	85	31	8	5	7	8	1	4-6	5000
12	Renfrew (Abbotsl.)	19	28·0	+14	N'W	3	b-bc	35	75	27	7	4	–	9	1	2-3	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	26·5	+10	NE	5	c	42	65	32	8	–	–	8	0	9	—
13A	Tiree ...	44	29·6	+10	NNE	3	c	43	75	35	8	5	3	–	4-6	9+	2000
13B	Stornoway ...	12	29·7	+6	NNW	2	c	38	92	35	8	5	3	–	4-6	9	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	27·0	+14	NW	3	c	34	92	33	8	3	–	–	9+	9+	2000
	Wick ...	114	27·9	+6	NNE	2	bc	38	85	34	8	2	6	3	Tr	4-6	2000
16	Sumburgh ...	19	27·3	+10	N	4	bc	35	85	31	9	3	4	3	4-6	4-6	2000
17	Blacksod Point	18	31·4	+4	N	4	c	47	75	40	8	8	3	–	4-6	9	2500
18	Malin Head ...	84	29·2	+8	NE'N	4	c	45	65	34	8	5	–	–	10	10	2500
	Aldergrove ...	268	29·1	+14	N	1	c	35	75	29	8	5	7	–	Tr	9	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	30·7	+10	NE'N	4	c	45	75	38	8	5	3	–	2-3	9+	2800
	Roches Point	22	28·6	+6	N'E	4	bc	43	85	39	8	5	3	–	2-3	4-6	1500

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

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)
London (Kew)	22·3	+8	N	3	z_o	35	85	32	5	5	–	–	2-3	2-3	2500	1	*
Croydon ...	22·2	+14	NNW	2	m	35	92	32	4	5	–	–	4-6	4-6	2000	0	*
S. Farnborough	22·9	+14	NNW	3	z_o	34	92	31	5	5	–	1	4-6	4-6	2000	0	*
Boscombe Down	23·8	+14	N'E	4	z_o	33	92	31	5	5	–	–	9+	9+	800	0	*
Thorney Island	22·0	+10	N'W	4	z_o	35	92	32	6	5	–	–	2-3	4-6	1500	2	*
Lympne ...	19·9	+10	N	4	rr	35	97	33	5	5	–	–	9+	9+	600	1	3
Manston ...	19·4	+14	ENE	2	RR	38	97	37	7	5	2	–	10	10	2200	1	*
Shoeburyness ...	21·0	+18	NNW	3	z_o	34	92	32	6	5	3	–	4-6	7-8	2500	1	*
Felixstowe ...	20·4	+8	NW	3	c-bc	35	92	33	7	8	–	–	7-8	7-8	4000	1	3
Gorleston ...	19·6	+18	NE	4	bc	43	85	36	7	8	–	–	4-6	4-6	2500	1	
Mildenhall ...	22·0	+18	NW'N	3	z_o	33	92	31	6	5	–	–	1	1	4000	3	*
Cranwell ...	23·5	+4	NNW	4	z_o	33	97	33	6	5	7	–	4-6	7-8	2000	0	*
Birmingham ...	24·5	+8	NNW	3	bf	33	92	31	3	–	–	–	0	0	—	1	*
Upper Heyford	23·5	+14	NE	4	z_o	34	97	32	5	5	–	–	9+	9+	800	1	*
Ross-on-Wye	24·8	+10	N	2	b	33	85	29	7	5	–	–	Tr	Tr	3000	0	*
Hartland Point	24·5	+6	NNE	4	bc	41	85	37	8	2	4	–	2-3	4-6	2500	1	4
Bristol ...	25·0	+10	N	1	z_o	33	92	30	4	5	4	–	4-6	7-8	4000	0	*
Portland Bill ...	22·5	+12	N	4	bc	35	85	31	8	2	–	–	4-6	4-6	4000	1	4
Plymouth ...	24·9	+10	N'E	3	bc	37	85	31	7	–	4	6	0	4-6	—	3	1
The Lizard ...	24·5	+4	N'E	3	bc	36	85	30	8	4	–	–	4-6	4-6	2500	0	3
Scilly (St. Mary's)	25·0	+2	NNE	5	c	46	65	37	8	8	6	6	7-8	9+	1200	1	5
Guernsey ...																	
Pembroke ...	26·3	+6	NE'N	4	bc	42	85	37	8	2	4	–	2-3	4-6	2500	1	3
Holyhead (Valley)	27·7	+12	N'E	3	c-bc	40	85	35	8	8	4	–	4-6	7-8	2000	1	2
Chester (Sealand)	26·6	+10	NNW	2	z_o	35	85	30	6	5	3	–	2-3	2-3	3000	0	*
Manchester ...	25·9	+14	NNW	3	z_o	35	85	31	6	5	–	–	9+	9+	2500	3	*
Spurn Head ...	23·1	+28	NW	4	c	39	85	34	7	2	3	–	7-8	9	1500	1	4
Catterick (Sc.) ...	26·7	+16	NW	4	c-bc	35	92	33	7	5	3	–	7-8	7-8	1500	1	*
Tynemouth ...	26·9	+12	NNW	3	c/pr	38	92	35	7	9	–	–	9	9	1500	1	3
St. Abbs Head	26·7	+16	NNW	5	bc/pr	40	85	35	7	2	4	–	2-3	4-6	2500	1	5
Leuchars ...	28·8	+14	NW	3	bc	36	85	33	8	–	7	8	0	4-6	—	0	*
Renfrew (Abbotsl.)	28·8	+14	N'W	2	c	36	65	28	8	5	3	5	2-3	9	2000	1	*
Eskdalemuir ...	28·8	+16	N'W	2	bc	31	85	28	8	5	3	1	4-6	4-6	1800	3	*
Point of Ayre ...	28·1	+14	NE'E	5	bc	42	65	32	8	2	3	8	1	4-6	2000	0	4
Tiree ...	30·5	+2	NE	2	c	42	75	36	9	5	3	–	2-3	10	2000	1	1
Stornoway ...	30·5	+6	–	0	c	37	85	33	8	5	2	–	7-8	10	3000	1	1
Dalwhinnie ...	30·5	+6	–	0	c	33	85	30	8	5	1	–	7-8	10	2500	4	*
Aberdeen † ...	29·1	+20	NW	3	b-bc	33	92	32	7	9	4	3	1	2-3	2500	3	2
Wick ...	29·6	+10	NW	1	c	35	85	32	8	5	7	–	4-6	9+	2500	1	*
Sumburgh ...	28·9	+8	N	3	c-bc	35	92	34	8	3	4	1	2-3	7-8	2000	3	3
Blacksod Point	32·1	+4	N	2	c	48	85	43	8	8	–	–	10	10	2500	1	2
Malin Head ...	30·2	+6	NNE	3	c	45	65	34	8	5	1	–	7-8	10	2500	2	3
Aldergrove ...	30·2	+6	NNW	2	c	36	75	30	8	5	3	–	1	9+	2500	1	*
Birr Castle ...	30·4	+12	NNW	2	c-bc	38	85	33	8	5	–	–	7-8	7-8	2500	1	*
Valentia Obsy.	32·3	+14	NE'N	4	c/pr	46	75	38	8	8	–	–	9+	9+	2800	1	3
Roches Point	30·7	+14	N'E	4	c-bc	42	85	38	8	5	–	–	7-8	7-8	2500	1	3

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F.	Temperature. Min. Night 18h–7h °F	Temperature. Min. on Grass °F.	Rainfall. Day 7h–18h mm.	Rainfall. Night 18h–7h mm.	Sunshine 17th Hrs.
London (Kew)	42	34	29	-	Tr	1·6
Croydon ...	41	34	31	-	Tr	0·0
S. Farnborough	44	32	23	-	-	3·5
Boscombe Down	42	30	25	-	-	4·7
Thorney Island	44	31	27	Tr	-	*
Lympne ...	40	33	29	-	1	0·0
Manston ...	40	37	35	-	15	0·4
Shoeburyness ...	41	32	29	*	-	4·0
Felixstowe ...	44	34	28	Tr	0·1	3·9
Gorleston ...	44	43	35	3	2	0·4
Mildenhall ...	39	32	19	Tr	0·2	3·3
Cranwell ...	42	32	29	0·5	-	4·3
Birmingham ...	40	31	27	-	-	4·2
Upper Heyford	41	30	28	-	-	*
Ross-on-Wye	41	32	29	-	-	4·3
Hartland Point	45	42	31	1	-	2·1
Bristol ...	42	30	18	Tr	Tr	2·9
Portland Bill ...	42	29	*	-	-	*
Plymouth ...	46	35	26	0·3	-	6·1
The Lizard ...	45	34	*	2	-	4·4
Scilly (St. Mary's)	47	43	*	.2	1	2·1
Pembroke ...	46	36	*	1	Tr	2·1
Holyhead (Valley)	46	39	34	0·3	-	*
Chester (Sealand)	42	33	28	-	-	3·6
Manchester ...	41	28	21	-	-	*
Spurn Head ...	42	36	*	0·3	4	0·4
Catterick (Sc.) ...	40	34	30	1	2	4·0
Tynemouth ...	42	36	32	6	5	*
St. Abbs Head	42	35	*	4	5	*
Leuchars ...	43	33	29	Tr	-	5·1
Renfrew (Abbotsl.)	44	34	21	Tr	-	5·3
Eskdalemuir ...	40	30	24	-	-	7·1
Point of Ayre ...	45	38	*	-	-	5·6
Tiree ...	46	40	37	0·3	Tr	3·1
Stornoway ...	44	35	32	Tr	-	3·3
Dalwhinnie ...	35	28	21	1	Tr	0·7
Aberdeen † ...	40	33	29	2	2	2·1
Wick ...	42	35	32	0·6	-	*
Sumburgh ...	39	33	30	0·6	0·2	
Blacksod Point	49	45	*	0·2	-	*
Malin Head ...	46	42		0·3	Tr	1·8
Aldergrove ...	45	33	24	1	Tr	3·9
Birr Castle ...	46	36	34	-	-	0·6
Valentia Obsy.	50	44	40	0·2	Tr	1·9
Roches Point	46	*	*	0·1	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 17th November 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	2-	10765	34685	36	27754	31684
115	32	18844	32526	23	02844	32526
203	5-	25848	32558	5-	02927	32527
206	26	01854	30285	36	26964	32487
210				2-	01854	32514
219	86	09853	04484	53	02964	32227
230	25	02963	31325	91	02990	32217
245	80	01944	31384	84	81833	65484
260						
278	28	01852	01513			
279	24	05654	65414	44	01751	32313
285	27	83625	32587			
288	24	47354	30484	8-	81555	29585
575	83	10845	32156	47	01863	27314
301				10	05652	02313
321	54	02765	30417	5-	05652	32422
299	20	02745	02515	30	14743	02513
292	87	05654	28487	9-	81644	82484
310	90	04424	20*14	20	01624	26414
614	03	05590	32315	04	05590	32412

01h. G.M.T. 18th November 07h. G.M.T.

$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
83	02755	02485	57	02754	12127
87	02844	32426	73	02844	32226
53	02963	32117	57	02964	02128
07	02890	06127	57	02864	00028
53	01954	04124	5-	02968	04128
80	02851	30485	80	01952	30313
53	01952	32424	5-	02965	30225
54	02761	28316	53	01752	32114
			20	05624	02514
3-	25545	28285	3-	81547	28387
37	02765	31128	57	02755	00028
04	05690	02201	14	05551	32111
54	01763	31413	34	05662	31413
80	01744	28514	80	25745	02585
57	51654	28315	30	81653	30453
			36	01625	32415
00	05590	32310	50	05623	32313

13h. G.M.T. 17th November 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333	26	01864	02314	20	01863	02313
334	--	27645	32285	--	01742	28113
340	50	05563	31113	50	05564	30304
136	80	05646	28427	8-	25855	01385
336	57	02854	04228	50	05656	04216
350	00	05590	28217	5-	25548	28288
368	57	02865	28327	80	05643	32163
379	03	05590	28314	5-	05548	30318
390	00	05690	28326	50	08461	28221
382	03	05690	29216	5-	05568	29228
438	50	05563	30414	00	05590	28310
430	00	05590	28214	00	05590	30112
409	26	08455	01416	26	25844	01584

01h. G.M.T. 18th November 07h. G.M.T.

$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
10	02753	02315	24	01753	31214
			--	02644	04215
53	05653	32313	57	02755	32126
26	01853	28383	24	01853	02383
			50	01754	04214
5-	05537	30387	54	05534	30414
00	05690	28101	57	05654	28114
			5-	05647	32417
5-	05527	28427	04	05590	30322
5-	05547	32417	5-	05537	32427
00	05590	30400	50	05663	32613
5-	05656	32426	50	05644	28314
26	01854	04325	24	02854	02415

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 18th November

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 ...	cbcm$_o$cz$_o$	cyez$_o$	cm$_o$x	
Croydon ...	cmxcm	czcf	bFir$_o$bcjc	
Greenwich ...	cm$_o$	c⊕bcm$_o$	bcxbcn$_o$	Kew 24 hours ended 7h.
Camden Square	c	c	*	Max. 17th 0·5
Kensington ...	cbc	bc	*	Min. Time 17th
Hampstead ...	c	bcx	b	0·1 9-5h 18th

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	34	29	-	Tr	1·6	*	*
Croydon ...	41	34	31	-	Tr	0·0	*	*
Greenwich ...	41	34	28	-	-	0·4	65	87
Westminster ...	43	35	29	Tr			72	89
Regents Park ...	41	34	26	-	-		68	87
Camden Square	42	34	28	-	-	*	*	84
Kensington ...	42	34	27	-	-		77	83
Hampstead ...	39	31	26	-	-		*	92

SECRET

Page 1 BRITISH SECTION

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

Friday 19th November 1943

No 29947

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

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)	24·6	+10	N'E	3	zo	44	55	30	6	2	–	–	Tr	Tr	2500
	Croydon	24·7	+6	N	3	m	43	65	33	4	5	–	–	2-3	2-3	1500
	S. Farnborough	25·0	+2	N	2	b-bc	45	65	33	7	1	7	–	1	2-3	3000
	Boscombe Down	26·1	+6	N	4	zo	40	75	33	6	–	–	–	0	0	–
	Thorney Island	24·1	+6	N	4	b	44	65	35	7	–	–	–	0	0	–
	Lympne	23·3	+14	NE	4	pr	40	92	38	6	9	–	–	4-6	10	800
	Manston	23·0	+14	NNE	3	pr	41	92	39	6	9	–	–	9+	9+	1800
2	Shoeburyness	24·3	+14	N	4	c	43	75	36	8	2	6	–	7-8	9+	2500
	Felixstowe	23·7	+10	N	4	c	43	75	36	7	8	6	–	4-6	9	2500
	Gorleston	23·1	+8	NE'E	3	cbc/pr	43	75	35	7	8	–	–	7-8	7-8	1000
	Mildenhall	24·6	+6	N'E	4	cbc/pr	44	85	38	7	2	6	–	4-6	7-8	2500
	Cranwell															
3	Birmingham	27·6	+6	NNW	3	zo	40	75	33	5	–	–	1	0	1	–
	Upper Heyford	26·1	+6	N'W	4	zo	40	85	34	5	5	–	–	1	1	1500
4	Ross-on-Wye	27·1	+2	N	3	zo	41	75	32	6	1	–	1	Tr	1	3000
5	Hartland Point	27·4	+4	NE	3	bc	42	85	37	8	2	4	–	4-6	4-6	2500
	Bristol	27·8	+8	N	4	zo	41	75	33	6	1	–	6	1	4-6	4000
	Portland Bill	25·6	+4	N	4	cbc	41	92	40	8	5	–	–	7-8	7-8	4000
	Plymouth	27·5	+10	NE	3	c-bc	43	75	34	8	8	–	–	7-8	7-8	2500
	The Lizard	26·6	+6	N	3	bc	45	65	35	8	1	2	–	2-3	4-6	2500
	Scilly (St. Mary's)	27·6	+8	NE'N	5	c/pr	46	65	36	8	8	6	–	9	9+	1500
	Guernsey															
6	Pembroke	29·0	–6	NE	4	c	45	75	37	8	2	6	1	4-6	9+	2500
7	Holyhead (Valley)	30·2	+4	NNE	3	c/pr	45	75	37	8	8	6	3	7-8	9	2500
	Chester (Sealand)	29·3	+10	N	2	zo	42	65	33	5	1	4	–	Tr	1	3500
8	Manchester	28·4	+2	W'N	2	m	38	85	33	4	5	–	–	4-6	4-6	3000
10	Spurn Head	25·5	+2	N	5	c-bc	45	65	42	8	3	3	–	4-6	7-8	1600
	Catterick (Sc)	29·2	+8	NNW	4	c	39	85	36	7	3	3	–	7-8	9	2000
	Tynemouth	29·2	+14	WNW	4	bc	40	85	35	7	2	–	–	4-6	4-6	2200
11	St. Abbs Head	29·8	+12	N	3	bc	41	75	33	8	2	3	–	4-6	4-6	3000
	Leuchars	30·6	0	N	2	c	41	85	36	8	2	7	6	1	9	3000
12	Renfrew (Abbots I.)	31·5	+2	W	1	c	42	65	32	7	–	7	6	0	9	–
	Eskdalemuir	30·2	+4	NNE	3	cbc	38	65	28	8	7	3	8	2-3	7-8	2100
	Point of Ayre	30·5	+8	E'N	3	c	44	65	34	8	2	7	6	Tr	9+	2500
13A	Tiree	31·7	+2	NNE	1	c	46	65	36	9	5	7	–	2-3	9+	3500
13B	Stornoway	31·5	+4	WSW	1	c	42	85	37	8	–	7	–	0	10	–
15	Dalwhinnie	31·5	+2	NNE	1	c	36	75	27	8	5	–	–	9+	9+	2500
	Aberdeen	30·9	+8	NW	3	c	38	85	34	8	8	7	–	2-3	9+	2500
	Wick	30·9	+4	S	2	c	39	92	36	9	8	7	8	2-3	10	2000
16	Sumburgh	29·7	–2	W'S	1	cjp	40	85	35	9	2	7	–	1	10	2500
17	Blacksod Point	32·7	–6	N'W	4	c/d	49	92	47	7	8	–	–	9+	10	1500
18	Malin Head	31·4	+2	NE	3	c	46	65	34	9	8	–	–	9	9	2500
	Aldergrove	31·8	+2	–	0	c	43	65	32	7	5	7	–	2-3	9+	2500
19	Birr Castle	32·0	–2	NNW	1	c	43	85	39	8	5	2	–	7-8	10	2500
20	Valentia Obsy.	32·7	–6	W'N	1	i/o	48	85	44	8	5	–	–	10	10	2500
	Roches Point	32·2	0	N	3	c	45	85	41	8	5	7	–	4-6	9	2500

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

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)	17·4	+20	N	3	zo	40	75	34	5	–	–	–	0	0	–	1	*
Croydon	27·4	+22	N'W	3	bf	40	85	35	3	4	–	–	Tr	Tr	2000	0	*
S. Farnborough	27·6	+10	N	2	zo	39	75	33	5	–	–	–	0	0	–	0	*
Boscombe Down	28·4	+22	NNE	3	zo	35	85	32	6	–	–	–	0	0	–	0	*
Thorney Island	26·9	+22	N'W	3	zo	39	85	34	6	5	–	–	Tr	Tr	2500	0	*
Lympne	25·9	+18	NNE	3	pr	37	97	37	4	9	–	–	10	10	1600	1	§
Manston	25·3	+14	ENE	2	c/pr	41	75	34	5	9	–	–	9	9	3800	1	*
Shoeburyness	26·5	+18	N'E	4	b-bc	37	92	35	*	2	6	–	Tr	2-3	4000	1	*
Felixstowe	26·6	+18	N'W	3	b	39	75	32	7	5	–	–	1	1	4000	1	2
Gorleston	26·2	+22	N	2	zo	41	85	35	6	5	–	–	4-6	4-6	1500	1	2
Mildenhall	27·6	+22	N'W	3	c-bc	36	92	34	8	2	–	–	7-8	7-8	3000	0	*
Cranwell	29·0	+14	N	3	iro	36	97	35	6	5	–	–	4-6	4-6	2000	0	*
Birmingham	30·1	+22	NNW	3	zo	35	92	33	5	–	–	–	0	0	–	1	*
Upper Heyford	28·8	+20	N'W	3	m	34	92	32	4	–	–	–	0	0	–	0	*
Ross-on-Wye	29·3	+16	N'E	2	zo	36	85	30	6	–	–	1	0	Tr	–	1	*
Hartland Point	29·1	+12	NE	3	bc	43	85	37	8	2	–	–	4-6	4-6	2500	1	3
Bristol	30·0	+22	–	0	bf	34	92	32	2	–	–	–	0	0	–	0	*
Portland Bill	27·6	+10	N	4	c-bc	40	92	36	7	5	–	–	7-8	7-8	4000	1	4
Plymouth	29·2	+18	NNE	3	b	39	85	33	5	–	–	1	0	Tr	–	1	
The Lizard	29·1	+20	NNE	3	bc	39	85	32	8	2	–	–	4-6	4-6	2500	1	3
Scilly (St. Mary's)	29·1	+18	NNE	5	c	45	75	36	8	8	6	5	7-8	9+	1300	1	5
Guernsey																	
Pembroke	30·5	+10	ENE	3	c-bc	41	85	39	8	5	–	–	7-8	7-8	2000	0	2
Holyhead (Valley)	31·3	+10	NNE	1	c	40	85	35	8	2	4	6	Tr	9+	4000	1	2
Chester (Sealand)	30·6	+14	NNW	2	bcf	37	85	32	3	–	–	2	0	4-6	–	0	*
Manchester	30·9	+20	N	3	bf	34	85	31	3	–	–	–	0	0	–	1	*
Spurn Head	27·5	0	NE'N	4	p	42	75	34	7	3	3	–	4-6	4-6	1500	1	4
Catterick (Sc)	31·4	+18	NNW	3	bc	35	92	34	7	5	7	–	4-6	4-6	2500	1	*
Tynemouth	31·0	+12	NW	3	bc/pr	39	85	36	6	2	3	–	4-6	4-6	2200	1	4
St. Abbs Head	31·2	+10	N	3	c	42	85	37	7	5	–	–	10	10	2500	0	4
Leuchars	32·7	+14	–	0	zo	37	85	35	6	5	5	–	4-6	10	4000	0	*
Renfrew (Abbots I.)	33·0	+14	WSW	1	m	38	85	33	4	5	7	–	Tr	9+	2500	1	*
Eskdalemuir	31·6	+10	NNE	1	c	35	85	31	6	5	3	–	4-6	9	2100	3	*
Point of Ayre	31·9	+12	E	2	c	43	75	34	8	8	7	–	1	10	3000	0	3
Tiree	32·7	+8	–	0	c	42	85	37	7	5	7	–	7-8	9	2500	1	1
Stornoway	31·3	+10	–	0	bc	40	85	36	8	5	–	–	4-6	4-6	4500	0	1
Dalwhinnie	32·8	+8	W	1	o	33	85	30	7	5	–	–	10	10	2500	4	*
Aberdeen	28·7	+8	NW	3	zo	37	85	32	6	5	–	–	10	10	4000	1	2
Wick	31·7	+8	W	1	·o	39	75	32	9	–	7	–	0	10	–	1	*
Sumburgh	29·9	+2	SW	4	roro	43	75	35	6	5	7	–	7-8	10	2500	1	1
Blacksod Point	33·6	+10	N	3	c/d	47	97	46	7	6	–	–	9+	9+	1500	1	3
Malin Head	32·6	+12	NNE	1	c	46	65	34	8	5	–	–	9	9	2500	1	2
Aldergrove	33·1	+10	–	0	zo	39	75	33	6	–	7	–	0	9+	–	1	*
Birr Castle	32·9	+10	NNW	1	c-bc	40	92	38	7	5	–	–	7-8	7-8	2500	1	*
Valentia Obsy.	33·1	+6	NE'N	2	o/d	47	92	45	7	5	7	–	10	10	1500	1	2
Roches Point	32·5	+8	N	3	c	44	85	40	8	5	7	–	4-6	9	1500	1	3

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)	bmoxbzo	bcybmo	bbcmo	cbcmw
Croydon	bcm	bcczf	bfcfw	cf
S. Farnborough	bcxbmob	bbcybzo	bzobmocmbcmo	bcmxcmf
Boscombe Down	bcmocmobzo	bzobmo	bmoxm	bmxcmx bof
Thorney Island	b	bbcbmo	bmo	bmox
Lympne	cr₀sophqmo	cpromo	cprobcmow	bmowciRsht
Manston	cproc	cprohomo	bccbzo	bcc
Shoeburyness	bcc	c	bc	bccmox
Felixstowe	probcl	cbcb	bcc	bbcmo
Gorleston	cproqtroc	cbzo	bzocprphl	cproc
Mildenhall	bmoxbcxbbc	bcprobc	bmox	bmoxbFx
Cranwell	bcmocmo		bmobcmocmo	bcmobmbcm
Birmingham	fbz	bz	bm	bfx
Upper Heyford	cmobcbmo	bm	bmbcm	bmbfx
Ross-on-Wye	bc	bzo	bmo	bmo
Hartland Point	bc	bc	bc	bcbbc
Bristol	cmoxbmx,bc	bczobf	bfx	bfxcfx
Portland Bill	c	c	bc	bcc
Plymouth	bcx	bcbmo	bmox	bmox
The Lizard	bc	bc	bc	bcx
Scilly (St. Mary's)	cphrqh	c	cbc	cbc
Guernsey				
Pembroke	bcc	c	bcw	bcx
Holyhead (Valley)	bccpro	c	bcbbc	bcx
Chester (Sealand)	cbmozo	bmobcf	bcffm	bcmx
Manchester	mocbcm	bcmzfw	bbcffx	bffmx
Spurn Head	bc	bcpr	cpr	bcpro
Catterick (Sc)	bcpros	cbc	bc	bc
Tynemouth	cprhcbc	bccprm	bcpo	bcmo
St. Abbs Head	cprbc	bcco	cbcc	bcb
Leuchars	bcc	ccmo	cmoc	bccmo
Renfrew (Abbots I.)	c	ccmom	bccm	cmomirocm
Eskdalemuir	bcxc	ccmo	bcmo	bc
Point of Ayre	bcc	c	cb	bbx bcc
Tiree	c	evc	ccidoc	cdodomocido
Stornoway	cfgc	cbc	ccidocdodo	cdodomocmo
Dalwhinnie	bc	co		oco
Aberdeen	bxbcc	cczo	czocm	cmof
Wick	c	ccproc	cbcc	ododoc
Sumburgh	bcqjp	cjpc	bcc	cidgro
Blacksod Point	d	d	c	d
Malin Head	c	c	c	r
Aldergrove	c	c	cmo	cmocwcwmo
Birr Castle	c	c		c
Valentia Obsy.	r	r	d	bc
Roches Point	c	c	c	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 19th November, 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	Light north or northeast to variable wind; mainly fine at first, but a few showers near coasts in East and Southeast; fairly general fog developing tonight and largely persisting tomorrow; rather cold with local frost at night.
8 N.W. England	As 1-7
9 N. Midlands	As 1-7
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 to moderate westerly winds, fresh locally in north; cloudy with light local rain or drizzle; rather cold becoming milder.
16 Orkneys and Shetlands	As 10-15.
17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland, 20 S. W. Ireland	Light variable winds; cloudy with light local rain or drizzle; rather cold becoming milder.

GENERAL INFERENCE

A large anticyclone is centred west-south-west of Ireland and an associated ridge over England is moving slowly southwards. A weak trough over Scotland and northern Ireland is moving slowly southeast. Weather will be fine over much of England at first, but widespread fog will develop tonight and will largely persist tomorrow. In the North it will be cloudy with light local rain or drizzle. It will be mainly rather cold at first, but will become milder in the North.

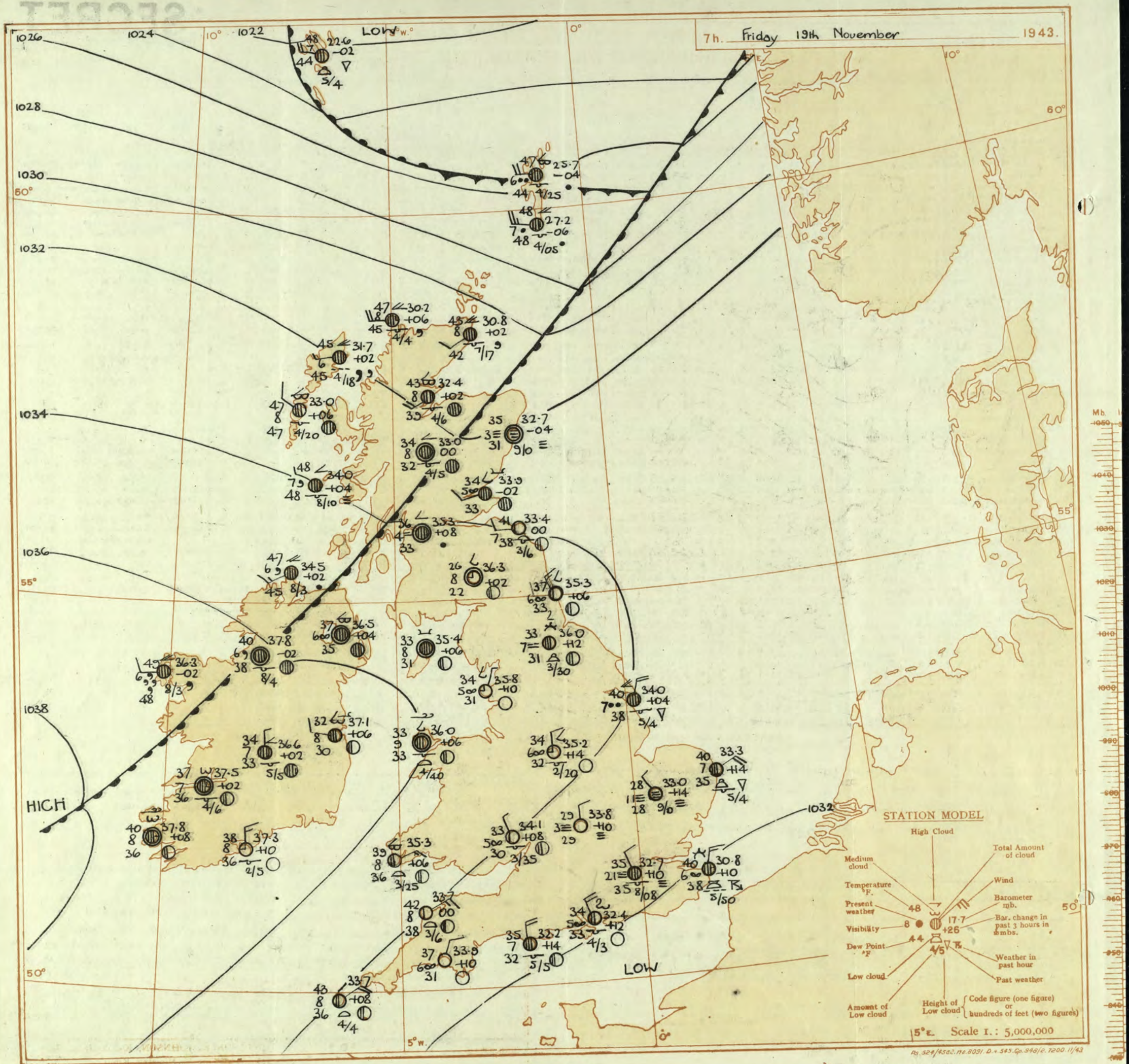
FURTHER OUTLOOK

Quiet cold and foggy in South. Cloudy and milder in North with local rain or drizzle.

Forecasts issued at 10·30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

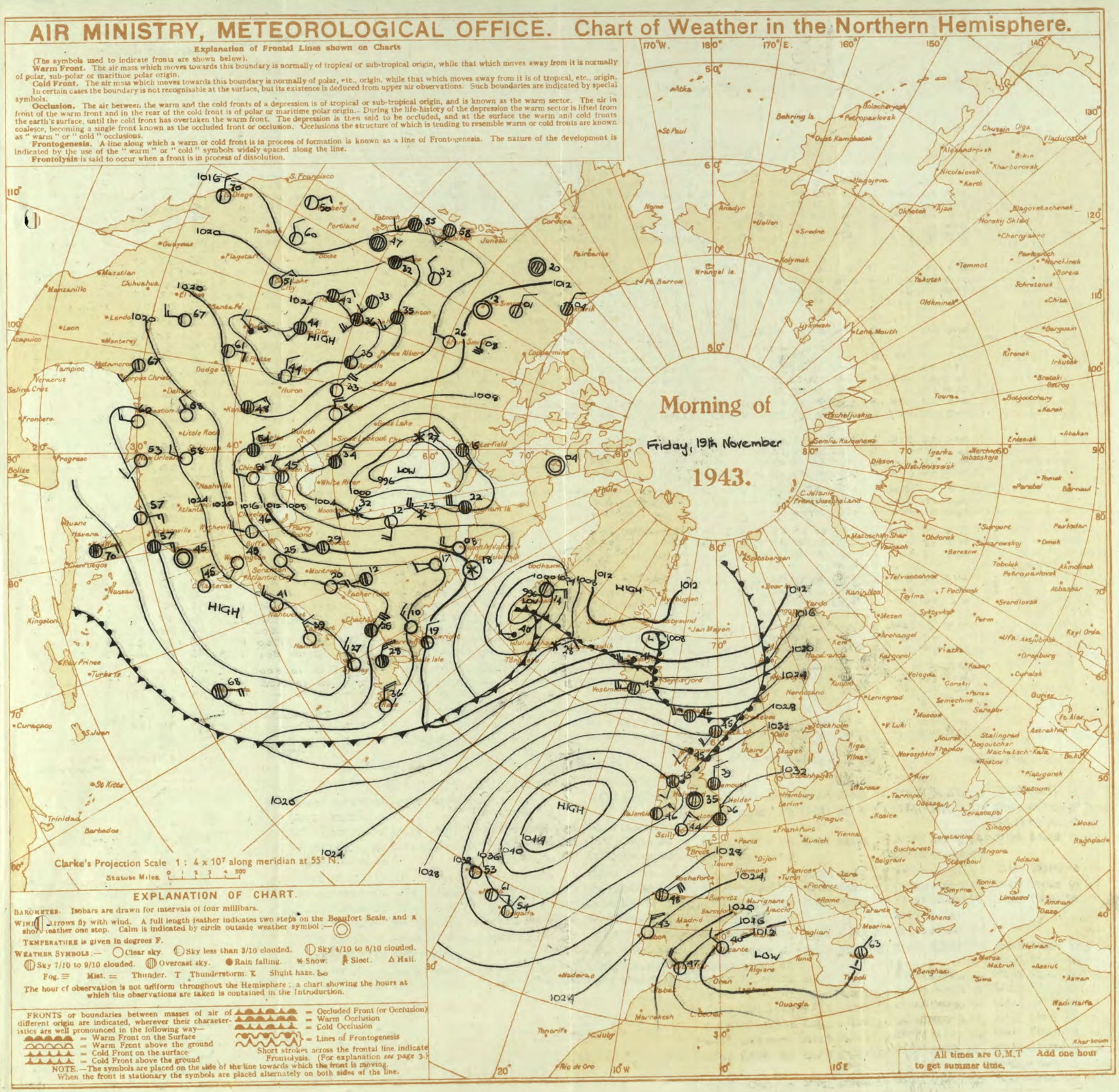
7h. Friday 19th November 1943.



Rs. 524/4562. Ne. 8091. D. 4. 545. Gp. 948/2. 7200. 11/43

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.

Friday 19th November 1943

No. 29947

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

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	*	*	*	*	*	36	*	*	*	*	*	*	*	*	*
	Croydon	290	31.0	+18	N	2	cf	36	92	34	3	5	–	–	9	10	800
	S. Farnborough	226	31.0	+6	NW'N	1	m	33	92	32	4	5	–	2	4-6	4-6	1000
	Boscombe Down	417	31.6	+10	N	2	m	31	92	30	4	–	–	–	0	0	–
	Thorney Island	10	30.2	+12	N'E	4	zo	35	92	33	5	–	–	–	0	0	–
	Lympne	283	29.3	+4	N	3	zo	35	97	35	6	5	–	–	2-3	2-3	1800
	Manston	154	28.7	+6	NE'E	2	bc	40	75	31	7	2	–	–	4-6	4-6	4500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	29.8	+10	N'W	3	c	41	75	33	7	5	3	–	1	9	4000
	Gorleston	5	28.9	+4	NW'N	2	c-bc	38	85	34	7	8	–	–	7-8	7-8	1500
	Mildenhall	15	30.9	+12	NNW	2	zo	30	97	30	6	5	–	–	2-3	2-3	5700
	Cranwell	203	31.8	+8	NNW	3	zo	33	97	33	6	5	7	–	4-6	7-8	2000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	32.0	+14	N	3	m	31	97	31	4	–	3	–	0	1	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	32.5	+12	NE	3	bc	42	85	36	8	2	–	–	4-6	4-6	2500
	Bristol	209	32.9	+10	N	2	b-bcf	31	92	29	3	5	–	–	2-3	2-3	4000
	Portland Bill	32	30.3	+12	NE'E	4	bc	37	92	37	7	5	–	–	4-6	4-6	4000
	Plymouth	86	32.5	+12	N'E	2	zo	37	85	32	6	–	–	–	0	0	–
	The Lizard	240	31.9	+12	NNE	3	b-bc	37	85	32	8	4	–	–	2-3	2-3	2500
	Scilly (St. Mary's)	163	32.2	+10	NE'N	3	bc	44	75	35	8	8	–	–	4-6	4-6	1500
	Guernsey	175															
6	Pembroke	142	34.4	+6	ENE	3	b-bc	38	92	35	8	1	–	–	2-3	2-3	2500
7	Holyhead (Valley)	32	34.7	+8	–	0	bc	35	92	34	8	1	4	9	2-3	4-6	3000
	Chester (Sealand)	16	34.3	+10	NW	3	m	32	85	29	4	–	–	–	0	0	–
8	Manchester	230	34.2	+14	–	0	bf	30	92	27	3	–	–	–	0	0	–
10	Spurn Head	29	31.2	+6	NW	4	pr	41	85	37	7	8	–	–	9	9	1500
	Catterick (Sc)	192	34.0	+8	NNW	3	c-bc	36	85	32	7	5	3	–	7r	7-8	3000
	Tynemouth	108	34.4	+8	NNW	3	c-bc	39	85	35	7	2	3	–	4-6	7-8	1500
11	St. Abbs Head	280	33.0	0	NNW	3	c	40	85	34	7	5	2	–	7-8	9+	2500
	Leuchars	36	34.5	-2	–	0	c	34	97	33	7	–	7	6	0	9+	–
12	Renfrew (Abbots I.)	19	34.8	+2	SW'W	1	m	33	85	30	4	5	1	–	7-8	9+	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	34.6	+8	E'N	2	b-bc	42	75	34	8	–	3	–	0	2-3	–
13A	Tiree	44	33.7	-2	SSW	1	°/d	46	97	46	7	5	–	–	10	10	2000
13B	Stornoway	12	31.6	+6	SW	2	dodo	45	92	42	7	5	–	–	10	10	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	33.8	0	SW	3	c	35	85	31	8	–	7	–	0	9+	–
	Wick	114	31.5	-6	SSW	2	c	41	85	37	8	5	–	–	9+	9+	2300
16	Sumburgh	19	29.5	-2	SW	6	c	46	85	41	8	5	7	6	2-3	10	2500
17	Blacksod Point	18	36.2	+6	–	0	c-bc	45	97	44	8	8	–	–	7-8	7-8	1500
18	Malin Head	84	34.5	+6	S'W	1	c	43	85	39	9	5	–	6	4-6	9	2500
	Aldergrove	268	36.1	+10	–	0	zo	34	85	31	6	5	1	–	4-6	7-8	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	36.7	+16	NE'E	3	c-bc	46	85	42	8	5	–	–	7-8	7-8	2500
	Roches Point	22	36.2	+14	N	3	c-bc	41	85	37	8	5	3	–	4-6	7-8	2500

OBSERVATIONS at 7 hr. G.M.T. 19th November — 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)	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 18th Hrs. (38)
London (Kew)	32.7	+10	N	2	m	35	92	35	4	5	–	–	10	10	2500	1	*	45	34	29	–	–	6.4
Croydon	32.7	+10	NNW	2	off	35	97	35	2	5	–	–	10	10	800	0	*	44	34	31	–	Tr	3.0
S. Farnborough	33.3	+10	N'W	1	off	34	97	33	3	5	–	–	10	10	400	1	*	46	31	22	–	–	7.1
Boscombe Down	33.6	+18	N	3	of	33	92	31	3	5	–	–	10	10	800	0	*	42	30	25	–	–	6.3
Thorney Island	32.4	+12	N'W	4	zo	34	92	33	5	5	–	9	4-6	4-6	800	0	*	45	32	28	–	–	*
Lympne	31.6	+16	N'E	2	zo	35	97	35	5	9	6	–	4-6	7-8	2500	1	§3	40	34	29	12	2	0.0
Manston	30.8	+10	N'E	3	zo	40	97	38	6	9	6	–	7-8	9	5000	1	*	42	36	29	18	0.6	0.0
Shoeburyness	32.1	+8	N	3	zo	33	92	31	6	7	3	–	7-8	9	1500	1	*	45	32	27	–	–	4.8
Felixstowe	32.2	+14	N'E	2	zo	35	92	32	6	8	7	–	2-3	7-8	2500	0	2	44	34	31	0.5	–	2.5
Gorleston	33.3	+14	NE'E	4	c-bc	40	85	35	7	8	–	–	7-8	7-8	1500	1	3	46	38	30	1	2	0.7
Mildenhall	33.0	+14	NW'N	1	F+	28	97	28	1	–	–	–	10	10	<150	3	*	46	27	17	0.1	–	4.8
Cranwell	34.1	+14	NW'N	3	fg	32	92	31	4	5	3	2	2-3	4-6	2500	0	*	43	31	28	Tr	0.1	3.3
Birmingham	34.6	+8	NNW	3	bf	32	97	31	2	–	–	–	0	0	–	1	*	40	32	22	–	–	4.2
Upper Heyford	33.8	+10	N	2	bf+	29	97	29	3	–	–	–	0	0	–	3	*	41	29	25	–	–	*
Ross-on-Wye	34.1	+8	NNW	1	zo	33	85	30	5	5	–	–	2-3	2-3	3500	3	*	42	31	21	–	–	5.3
Hartland Point	33.7	0	NE	3	b-bc	42	85	38	8	1	–	–	2-3	2-3	4000	1	3	44	41	37	–	–	3.1
Bristol	34.6	+10	NE	1	m	32	97	30	4	5	7	–	2-3	9	4000	0	*	42	29	18	Tr	Tr	3.9
Portland Bill	32.2	+14	N	4	c-bc	35	92	32	7	5	–	–	7-8	7-8	2500	1	4	42	34	*	–	–	*
Plymouth	33.9	+10	NNE	2	zo	37	85	31	6	–	–	–	0	0	–	3		44	34	25	–	–	7.3
The Lizard	33.2	+6	NE'N	2	b-bc	35	85	29	8	4	–	–	2-3	2-3	3000	0	3	46	34	*	–	–	8.0
Scilly (St. Mary's)	33.7	+8	NE'E	4	bc	43	75	36	8	1	–	–	4-6	4-6	1500	1		48	41	*	0.3	Tr	1.3
Guernsey																							
Pembroke	35.3	+6	E'N	3	bc	39	92	36	8	1	7	–	2-3	4-6	2500	0	2	46	34	*	–	–	3.7
Holyhead (Valley)	36.0	+6	–	0	c-bc	33	97	33	9	7	4	2	4-6	7-8	4000	3	1	46	29	22	Tr	–	*
Chester (Sealand)	25.6	+10	NW	1	m	31	92	30	4	–	–	6	0	7-8	–	3	*	43	29	19	–	–	4.6
Manchester	35.9	+12	–	0	b-bcf	28	97	27	3	–	4	1	0	2-3	–	3	*	40	27	17	–	–	*
Spurn Head	34.0	+4	NNE	4	roro	40	92	38	7	5	2	–	7-8	10	1500	1	3	46	38	*	1	2	4.8
Catterick (Sc)	36.0	+12	–	0	fg	33	92	31	7	2	6	6	2-3	7-8	3000	0	*	41	33	26	0.6	–	5.0
Tynemouth	35.3	+6	NNW	3	zo	37	85	33	6	–	4	–	0	2-3	–	1	3	44	36	32	2	0.1	*
St. Abbs Head	33.4	0	W	2	b-bc	48	85	38	7	4	–	–	2-3	2-3	4000	0	3	42	37	*	0.4	–	*
Leuchars	33.9	-2	WSW	2	zo	34	97	33	5	–	4	7	0	10	–	0	*	42	32	26	–	–	1.5
Renfrew (Abbots I.)	35.3	+8	–	0	m	36	85	33	4	–	1	–	0	10	–	1	*	42	32	25	–	Tr	0.5
Eskdalemuir	36.3	+2	–	0	b	26	92	22	8	–	4	–	0	1	–	3	*	40	25	17	–	–	2.9
Point of Ayre	35.4	+6	–	0	c	33	92	31	8	–	–	7	0	10	–	0	2	44	32	*	–	–	1.0
Tiree	34.0	+4	WNW	1	ido	48	97	48	7	5	1	–	10	10	1000	1	1	46	41	34	–	1	0.0
Stornoway	31.7	+2	W	1	c/d	45	97	45	6	6	2	–	4-6	10	1800	1	1	43	39	35	–	Tr	0.0
Dalwhinnie	33.0	0	–	0	c	34	92	32	8	5	1	–	4-6	10	2500	4	*	36	27	23	–	–	0.0
Aberdeen †	32.7	-4	–	0	f	35	85	31	3	–	–	–	10	10	<150	1	1	39	34	31	–	–	0.7
Wick	30.8	+2	SW	2	c	43	92	42	8	5	2	–	9+	10	1700	1	*	39	37	36	Tr	0.2	*
Sumburgh	27.2	-6	W	5	iro	48	97	48	7	5	2	–	4-6	10	500	1	3	43	43	40	Tr	Tr	0.0
Blacksod Point	36.3	-2	W	2	DD	49	97	48	6	–	2	–	10	10	800	1	2	50	42	*	1	1	*
Malin Head	34.5	+2	SW	3	ido	47	92	45	6	–	2	–	10	10	800	1	2	47	42		–	0.1	0.0
Aldergrove	36.5	+4	–	0	zo	37	92	35	6	–	7	–	0	10	–	1	*	43	33	28	–	–	0.4
Birr Castle	36.6	+2	N		c	34	97	33	7	5	1	–	7-8	10	2500	1	*	44	30	27	–	–	0.1
Valentia Obsy.	37.8	+8	–		c	40	85	36	8	–	3	2	0	9	–	1	0	43	39	30	Tr	Tr	0.0
Roches Point	37.3	+10	N		b	38	92	36	8	5	–	–	1	1	2500	1	3	45	37	*	–	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 18th November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 19th November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	57	02965	20127	07	05609	19227	5-	02648	20428	5-	21658	23458
115	52	02844	20127	52	02844	20327	52	51738	29941	52	02844	24457
203	5-	03848	12328									
206	51	02964	26228	57	02856	24228	5-	02857	20527	57	02964	20428
210				07	02890	20128				57	02962	22327
219	5-	02967	18127	57	22746	16268	5-	51608	22258	57	02854	28226
230	07	02990	00027	57	02864	08227	57	02863	02128	02	02890	00028
245	87	02952	31316	57	02852	26127	04	02790	24127	07	05690	23127
260				5-	48348	00048				00	45390	26113
278				57	05674	01228	53	01763	00014	54	04764	00025
279	73	02853	01116	57	05663	02225	03	05690	00015	50	05573	00013
285	23	05625	26317							53	02854	32426
288	36	25454	30385	5-	08462	29417	53	05552	27315	27	08452	22215
575	57	02864	00027	5-	04765	00026	54	02661	00026	5-	51648	00028
301	26	02752	32326	00	05590	02122	03	05590	32104	04	05590	01102
321	34	05662	30517	04	05690	30312	04	05690	31313	04	08490	31213
290	8-	02745	04615	80	02745	02515	8-	02746	32426	20	01744	30214
292	36	05653	30484	40	05653	30313	53	05652	30313	54	05553	30214
310	30	01634	32414									
614	00	05690	32315	00	08490	30210	03	05590	02214	00	05590	31100

III	13h. G.M.T. 18th November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 19th November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	23	02863	01224				03	01790	25214	04	01890	00013
334				--	01753	02214				--	04544	02115
340	00	05690	32310	00	08490	32200	00	47390	32241	53	43390	00040
136	36	10963	32384	26	01853	32113	54	01861	02212	20	01853	32103
336	13	01763	08214	53	05654	08315				50	05653	04313
350	24	01751	02401	44	14661	30202	00	08490	30300	04	08490	30101
368	83	01754	32214	04	01790	02313	00	05690	32110	53	05653	30114
379	57	05562	32313	50	43363	32343	5-	17555	32415	53	47343	32425
390	10	05661	32501	00	08490	32400	5-	47328	32328	--	48109	30249
382	50	17641	6541	00	17530	01300	00	08490	01300	50	08433	04203
438	84	01653	32414				00	05690	32310	80	01653	32413
430	20	00651	01401	50	05652	32412	50	05661	04301	50	05534	04324
409	26	02954	03415	56	01353	05213	00	00790	06200	50	01752	06202

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 19th November
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	bmo xbzo	bcy bmo	bbcemzo
Croydon	bcm	bcczfo	cf
Greenwich	bmo	bmo	bcbw cmbcf
Camden Square	bc	b	*
Kensington	bc	bc	*
Hampstead	bc	bcxm	bcm

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max 0.3 Time 17-19h
Min. 0.1 Time 0-4h 18th 19th

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	45	34	29	–	–	6.4	*	*
Croydon	44	34	31	–	Tr	3.0	*	*
Greenwich	44	37	29	–	–	5.1	67	92
Westminster	46	35	29	–			65	96
Regents Park	45	33	26	–	–		61	95
Camden Square	46	34	28	–	–	*	*	98
Kensington	45	32	24	–	–		87	97
Hampstead	43	32	27	–	–		*	97

Page 1 BRITISH SECTION

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

SECRET

Saturday 20th November 1943

No. 29948

OBSERVATIONS at 13h. G.M.T. 20th November

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)	33·4	−8	NNE	3	zo	44	65	34	5	5	–	–	Tr	Tr	5700
	Croydon ...	33·6	−6	NNE	3	bcf	43	75	35	3	5	–	–	4-6	4-6	800
	S. Farnborough	33·8	−10	NNE	2	zo	45	65	35	5	7	–	–	2-3	2-3	2500
	Boscombe Down	32·9	−10	N'E	3	zo	42	75	35	6	1	–	1	Tr	1	3000
	Thorney Island	32·9	−10	NNE	4	zo	44	75	37	6	–	–	1	0	Tr	–
	Lympne ...	32·6	+4	NE	3	zo	43	75	36	6	2	–	–	4-6	4-6	2000
	Manston ...	32·3	0	NE'E	4	c-bc	45	55	31	7	2	–	–	7-8	7-8	4000
2	Shoeburyness ...	33·1	0	N'E	4	zo	45	75	36	6	1	–	–	1	1	4000
	Felixstowe ...	33·3	+2	NE	4	b	46	65	36	7	1	–	–	1	1	4000
	Gorleston ...	32·5	0	E	2	cbc	46	65	30	7	8	–	–	7-8	7-8	1000
	Mildenhall ...	34·3	−2	N'W	2	c-bc	44	85	40	7	5	4	–	7-8	7-8	4000
	Cranwell ...	34·7	+2	NNW	2	f	41	85	37	3	2	7	–	2-3	2-3	1500
3	Birmingham ...	35·2	0	N	3	m	42	75		4	–	–	1	0	1	–
	Upper Heyford	34·7	−6	N'W	2	m	40	85	35	4	–	–	–	0	0	–
4	Ross-on-Wye	34·9	−8	NNW	2	zo	42	75	34	6	1	–	1	Tr	1	2500
5	Hartland Point	34·8	−6	NE	3	bc	43	85	39	8	1	–	2	4-6	4-6	2500
	Bristol ...	35·4	−2	NNE	3	m	40	75	34	4	–	–	5	0	4-6	–
	Portland Bill ...	33·1	−2	N	4	bc	42	92	40	7	2	–	–	4-6	4-6	4000
	Plymouth ...	34·8	−6	E'N	3	bc	46	65	36	8	2	–	5	1	4-6	2500
	The Lizard ...	35·6	0	NNE	3	bc	46	65	32	8	4	4	–	4-6	4-6	2500
	Scilly (St. Mary's)	36·7	−4	N'E	5	cbc	47	55	33	8	8	4	6	4-6	7-8	1500
	Guernsey ...															
6	Pembroke ...	35·6	−4	NNE	2	bc	46	75	37	8	2	7	–	4-6	4-6	2500
7	Holyhead (Valley)	36·5	+4	–	0	cbc	48	75	39	8	1	4	6	Tr	7-8	3500
	Chester (Sealand)	36·2	−2	NNW	1	zo	42	85	38	6	5	–	–	9	9	2200
8	Manchester ...	36·0	−6	–	0	b-bcf	35	85	31	3	5	–	–	2-3	2-3	4000
10	Spurn Head ...	35·0	+4	NW	3	bc	45	85	40	7	2	6	–	2-3	4-6	2500
	Catterick (Sc) ...	35·8	−6	W	1	zo	45	65	35	6	1	5	7	Tr	10	2000
	Tynemouth ...	35·4	−10	W	2	m	42	75	33	4	5	–	–	9+	9+	2500
11	St. Abbs Head	33·7	−6	SW	2	roro	39	92	36	7	5	2	–	7-8	10	3000
	Leuchars ...	32·8	−18	WSW	4	zo	42	85	37	5	5	2	–	4-6	10	4500
12	Renfrew (Abbots I.)	34·7	−6	–	0	zo	42	85	39	5	–	2	–	0	10	–
	Eskdalemuir ...	35·6	−6	S'E	2	c	36	85	31	8	5	7	–	4-6	10	2100
	Point of Ayre ...	35·9	−4	SW	1	c	47	75	38	8	–	2	7	0	10	–
13A	Tiree ...	34·5	+2	W	1	c	49	97	49	8	5	2	–	9	10	1200
13B	Stornoway ...	32·0	+2	WSW	3	c	48	97	47	7	5	7	–	9	9+	600
15	Dalwhinnie ...	33·5	−2	NNE	1	c	39	92	36	8	5	2	–	9	10	1500
	Aberdeen ...	32·0	−8	–	0	roro	41	92	39	4	6	2	–	7-8	10	2500
	Wick ...	29·5	−12	SW	2	c/s	46	85	42	9	5	7	–	1	9+	3000
16	Sumburgh ...	25·6	−6	W	5	c	50	92	47	7	5	2	–	9	10	1000
17	Blacksod Point	36·8	0	N'W	2	df	51	97	50	5	–	2	–	10	10	450
18	Malin Head ...	34·8	+2	W'N	2	df	49	97	48	2	–	–	–	10	10	<150
	Aldergrove ...	36·5	−4	SSW	2	df	43	97	41	3	–	–	–	10	10	<150
19	Birr Castle ...	37·1	−2	WSW	2	o	40	85	36	7	5	–	–	10	10	2500
20	Valentia Obsy.	37·9	−6	E	1	ido	47	85	43	6	5	–	–	10	10	800
	Roches Point	37·8	−6	N	3	bc	46	85	42	8	5	3	–	1	4-6	2500

OBSERVATIONS at 18h. G.M.T. 19th November — 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. 19th (39)	Weather 13h.–18h. 19th (40)	Weather 18h. 19th to 1h. 20th (41)	Weather 1h.–7h. 20th (42)
London (Kew)	34·4	+6	N'E	2	bf+	39	85	35	3	–	–	–	0	0	–	1	*	cmbcbzo	bzomfw	bfoFex	oFex
Croydon	34·3	+6	NNE	2	bf+	39	92	36	2	–	–	–	0	0	–	1	*	cbcf	bcfbomf	bFoF	oFx
S. Farnborough	34·6	+8	N	1	bf+	38	85	35	3	–	–	–	0	0	–	1	*	cmbmobcz	bcbzomf	bfefoF	oFx
Boscombe Down	34·3	+4	NE'N	3	zo	38	85	34	6	–	–	1	0	Tr	–	0	*	fcmbc	cmobbmo	bmoxbf	bfoF bFx
Thorney Island	33·7	+10	N'E	3	zo	35	92	33	6	–	–	–	0	0	–	0	*	bcmobmo	bmo	bmobm w	bm x
Lympne	33·1	+6	NE	3	zo	39	75	32	6	5	–	–	7-8	7-8	6300	1	§4	bcmopRq	bczocz	czobczmo	bmo wcmo
Manston	33·0	+2	NE'E	3	c	43	65	30	7	5	–	–	9	9	5000	1	*	cmobccpr	bccy	cbczoycbczo	cbczo
Shoeburyness	33·9	+6	N'E	4	zo	37	85	33		4	–	–	2-3	2-3	4000	1	*	bcmo	bczo	bcmo	bccmox
Felixstowe	33·2	0	NNW	3	zo	38	92	35	5	5	–	–	1	1	4000	0	2	bmo	bcmo	bcmobm	bmox
Gorleston	32·6	−6	N'W	2	zo	42	75	34	6	8	–	–	7-8	7-8	1500	1	2	c	c	bcb	bczo
Mildenhall	34·6	+6	N	2	zo	35	97	34	6	5	–	–	Tr	Tr	4000	0	*		bcbbcmo	bmobfxbfx	oFx
Cranwell	34·5	+6	NNW	2	m	40	92	37	4	–	4	–	0	2-3	–	0	*	bcm	bcm		bfbcfof
Birmingham	35·2	0	NNW	2	bf+	39	85	35	2	–	–	–	0	0	–	1	*	fbm	bbcmf	bfcf	cff
Upper Heyford	35·3	+6	N'W	2	m	33	97	32	4	–	–	–	0	0	–	1	*	bfxbm	bm	bfcF	cFbfx
Ross-on-Wye	35·1	+6	NW	1	zo	37	85	33	6	5	–	1	2-3	2-3	2000	1	*	cmobz	bzobczo	bccmo	cmo
Hartland Point	34·6	+2	NE	3	b-bc	43	85	39	8	1	–	–	2-3	2-3	2500	0	3	bc	bc	bcbbcc	cido
Bristol	35·3	+6	–	0	bf	35	92	33	2	–	–	–	0	0	–	1	*	cmxbcfb	bmbzobf	bfxofx bfx	cfx
Portland Bill	34·2	+8	N	3	c-bc	41	92	40	7	5	–	–	7-8	7-8	2500	1	4	bc	c	cbc	bcc
Plymouth	34·9	+6	NE'E	2	zo	41	75	35	5	–	–	2	0	4-6	–	1	2	bbc	bc	bcmo	bcmocmo
The Lizard	34·8	−2	NNW	2	bc	39	85	35	7	2	4	–	4-6	4-6	3000	0	3	bc	bc	bcz	bcz
Scilly (St. Mary's)	34·2	0	NE'N	5	c-bc	46	65	33	8	1	–	5	4-6	7-8	1800	1	4	bccy	cbc	cbc	bcc
Guernsey																					
Pembroke	35·9	0	NNE	2	bc	39	85	35	8	3	4	–	4-6	4-6	2500	0	2	bc	bc	bcc	c
Holyhead (Valley)	36·1	0	–	0	m	40	85	37	8	–	7	7	0	10	–	0	1	bcfgc	cbccfg	cfgdodo	oidoc
Chester (Sealand)	35·6	+2	–	0	cbcf+	36	85	33	3	–	7	2	0	7-8	–	0	*	bczmox	cmobcz	cidoff	cff
Manchester	35·8	+2	–	0	bf	35	85	31	3	–	–	–	0	0	–	3	*	bffx	bbcffx	firododomo	omocm
Spurn Head	34·8	+6	W'N	2	b-bc	43	92	41	7	1	–	–	2-3	2-3	2500	1	1	bc	bc	bccmo	bcmo
Catterick (Sc)	35·2	+2	WSW	2	ido	41	85	37	5	–	1	–	0	10	–	1	*	bccmoczo	cmoidoc	cidomocm	cmbFx
Tynemouth	34·4	−2	W	3	iro	40	92	38	4	–	2	–	10	10	2500	1	3	bccm	cmoiro	omirobc	bc
St. Abbs Head	31·7	−8	WNW	3	c	46	85	43	7	5	–	–	10	10	2500	0	3	cmdrbcc	cmdrocmo	cmobc	bbccb
Leuchars	32·1	−4	WSW	3	zo	44	97	43	6	–	7	–	0	10	–	1	*	cmocfcmo	cmocromo	cbcmo	crmobc
Renfrew (Abbots I.)	33·7	−2	SW'W	1	m	46	97	45	4	5	2	–	9	10	1100	1	*	cmmocidoc	cdodocmo	cmbcmbcmo	cmobc
Eskdalemuir	34·0	−4	S'W	2	dodo	37	97	36	3	6	2	–	2-3	10	400	1	*	bcxc	cdodomf	cdof	cfcmo
Point of Ayre	34·7	0	NW'W	3	iro	48	92	46	8	6	2	–	4-6	10	1800	0	2	c	c	c	c
Tiree	34·8	+4	WNW	2	c/d	48	97	48	7	5	2	–	9	10	800	1	1	cidodoc	cidomo	ciddodomoc	cmocidomo
Stornoway	32·0	+6	SW	2	dodo	48	97	47	5	5	2	–	9	10	800	1		cmoc	cdodomo	cdododomo	cdodocmo
Dalwhinnie	33·0	+6	–	0	cbc	34	97	33	8	5	3	–	4-6	7-8	2500	1	*	o	oc		cido o
Aberdeen	30·4	−6	SW	2	m	43	75	37	4	5	2	–	1	10	2500	1	2	ofcmro	mcroro cz	cbcfm	bcprobc
Wick	29·6	+6	WSW	2	c-bc	46	92	44	9	5	7	–	2-3	7-8	2000	1	*	ccidoc	c	ccidoc	ccidocirocoro
Sumburgh	26·2	+4	W	3	c	49	92	47	7	5	–	–	10	10	1000	1	2	crororc	c	omodo	odomo
Blacksod Point	37·0	+2	N'W	2	id	51	97	50	6	–	2	–	10	10	800	1	2	d	d	d	c/d
Malin Head	34·8	0	W'N	1	ido	48	97	47	6	5	–	–	7-8	7-8	800	1	2	f	d	d	d
Aldergrove	35·9	0	SW'S	1	F	44	97	44	1	–	–	–	10	10	<150	1	*	cmododof	cfdodof	cmcmo	cidomidomo
Birr Castle	36·4	+2	SW	1	id	44	97	43	7	5	–	–	10	10	1500	1	*	c	d		d
Valentia Obsy.	37·5	0	–	0	ido	46	97	45	5	5	–	–	10	10	500	1		r	d	r/d	d
Roches Point	37·1	0	N'W	2	c-bc	45	85	44	8	5	–	–	7-8	7-8	2500	1	3	bc	bc	d	d

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

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Light variable winds; widespread fog, largely persisting; rather cold.
5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England; 9 N. Midlands	Light variable winds; mainly cloudy, local fog; mild on coasts, rather cold well inland.
10 N.E. England; 11 S.E. Scotland	Light west or northwest winds. Mainly fair but some local fog; mild.
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Moderate northwesterly winds. dull with occasional drizzle and much hill fog; mild.
16 Orkneys and Shetlands	As 12-15.
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	Light northerly or variable winds; dull with local drizzle; mild.

GENERAL INFERENCE

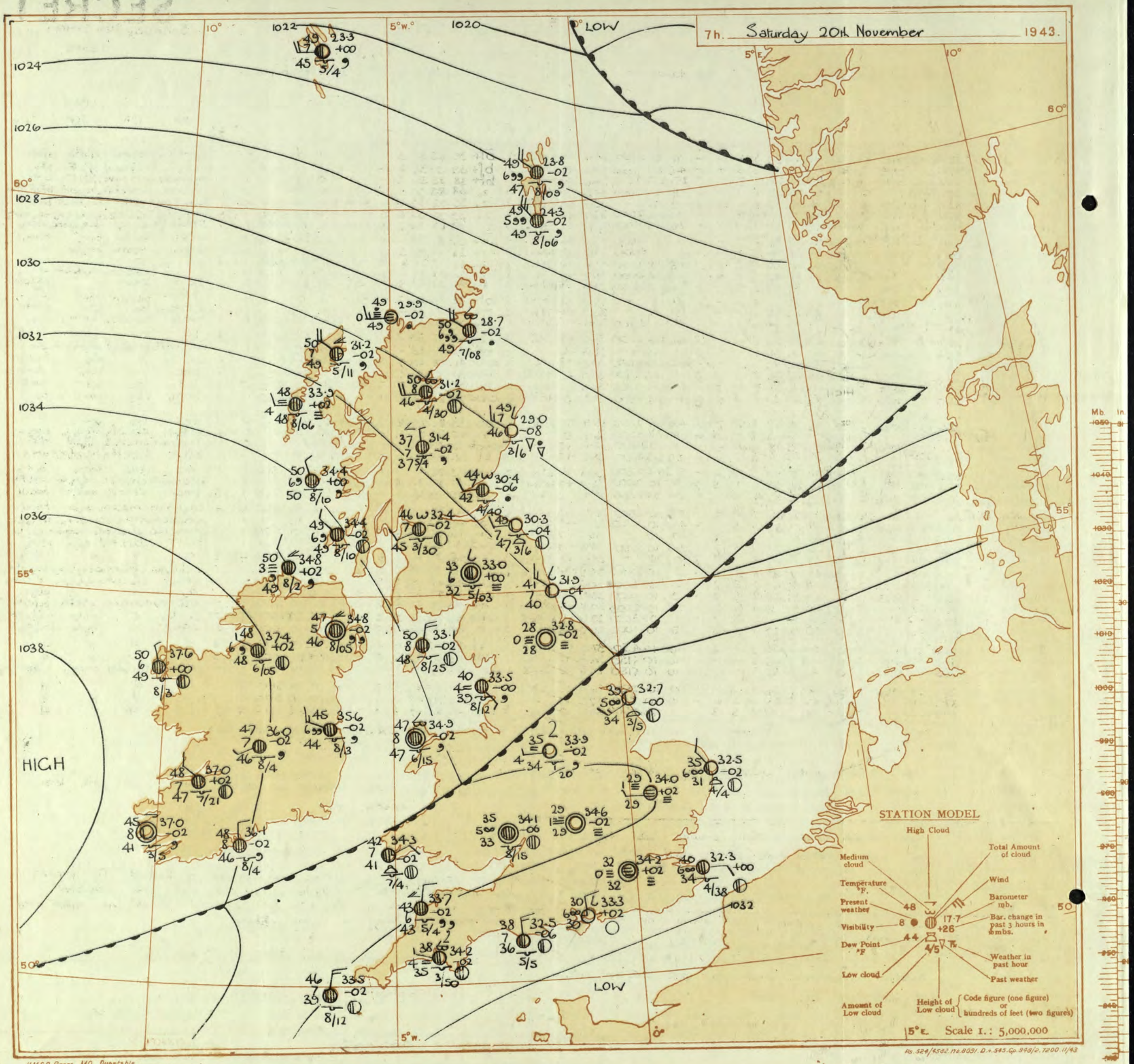
An anticyclone is centred west-south-west of Ireland. In western and northern districts it will be mild and dull with occasional drizzle and much hill fog. In the southeast it will be rather cold and persistently foggy in many places.

FURTHER OUTLOOK

No important change indicated.

Forecasts issued at 10.30 G.M.T.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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

Rs. 524/4582. Nz. 8091. D.4.543. Gp. 949/2. 7200. 11/43

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.

Saturday 20th November 1943

No. 29948

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

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	*	*	*	*	*	34	*	*	*	*	*	*	*	*	*
	Croydon	290	34·6	-6	—	0	Ft	29	97	29	1	-	-	-	10	10	<150
	S. Farnborough	226	34·3	+2	NW	1	F	30	97	30	1	-	-	-	10	10	<150
	Boscombe Down	417	34·8	-2	NNW	2	bf	31	92	30	3	-	-	-	0	0	—
	Thorney Island	10	33·5	-6	N	3	m	32	97	32	4	-	-	-	0	0	—
	Lympne	283	33·1	-6	NE	2	z_0	35	92	32	6	-	-	1	0	1	—
	Manston	154	32·9	-6	E'N	2	z_0	41	75	34	6	5	3	-	4-6	9	3000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	33·4	-6	NNW	2	m	37	92	34	4	-	-	-	0	0	—
	Gorleston	5	32·8	+8	NW'N	2	b	37	85	33	7	-	-	-	0	0	—
	Mildenhall	15	34·3	-6	W	1	F	29	97	29	1	-	-	-	10	10	<150
	Cranwell	203	34·6	+4	NW'N	2	f	37	97	37	3	-	-	-	10	10	<150
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	35·1	-2	NNW	2	cFt	32	92	32	1	-	3	-	0	9+	—
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	34·5	-2	ENE	3	cf	44	85	40	7	5	-	-	9+	9+	4000
	Bristol	209	35·3	-6	—	0	cf—	35	85	32	3	-	3	-	0	9	—
	Portland Bill	32	33·3	-14	N	3	b-bc	39	92	37	7	1	-	-	2-3	2-3	4000
	Plymouth	86	35·0	-2	NW	1	z_0	38	92	35	6	-	4	2	0	4-6	—
	The Lizard	240	34·3	-4	N	3	z_0	37	92	34	6	4	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	34·2	-4	E'N	4	b-bc	44	65	34	7	8	-	5	2-3	2-3	1500
	Guernsey	175															
6	Pembroke	142	36·5	0	E'N	1	c	43	85	38	8	2	2	-	4-6	9	2500
7	Holyhead (Valley)	32	35·3	-2	S'W	2	id_0	46	92	44	7	5	-	-	10	10	1500
	Chester (Sealand)	16	34·6	-8	—	0	of	38	92	36	3	5	-	-	10	10	1600
8	Manchester	230	35·1	-6	S'E	1	o/d	36	92	34	5	5	-	-	10	10	1400
10	Spurn Head	29	34·4	0	N'W	3	z_0	42	95	37	5	7	2	-	7-8	9+	2500
	Catterick (Sc)	192	33·9	-6	—	0	m	35	97	34	4	-	1	1	0	7-8	—
	Tynemouth	108	32·6	-6	W	4	b-bc	41	92	38	7	-	3	-	0	2-3	—
11	St. Abbs Head	280	31·0	-2	WNW	1	b-bc	45	75	37	7	5	-	-	2-3	2-3	4000
	Leuchars	36	31·4	-2	W	4	c-bc	41	97	41	7	5	7	8	2-3	7-8	4000
12	Renfrew (Abbots I.)	19	33·0	-8	SW'W	3	z_0	45	92	42	5	5	1	-	7-8	10	1600
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	34·1	-2	N	3	=	49	85	46	8	5	-	-	9	10	2000
13A	Tiree	44	34·4	+2	WNW	1	o/d	51	97	51	6	5	-	-	10	10	500
13B	Stornoway	12	32·0	+6	W	3	id_0	49	97	48	6	5	2	-	7-8	10	800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	30·8	-2	WNW	3	c	47	75	41	8	-	7	2	0	9+	—
	Wick	114	29·3	0	W'N	5	c/d	49	97	49	7	5	2	-	7-8	9+	1000
16	Sumburgh	19	25·3	-6	W'N	4	d_0d_0	50	97	50	5	5	-	-	10	10	800
17	Blacksod Point	18	37·3	0	—	0	df	50	97	50	4	-	2	-	10	10	450
18	Malin Head	84	32·8	-4	NW	2	bc	49	92	47	7	5	-	-	4-6	4-6	800
	Aldergrove	268	35·6	-2	NW'N	1	z_0	47	97	46	5	5	-	-	10	10	800
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	37·1	-2	—	0	c	47	97	47	7	5	-	-	9+	9+	1800
	Roches Point	22	36·5	-2	N'W	1	id_0	46	97	46	7	5	-	-	10	10	800

OBSERVATIONS at 7 hr. G.M.T. 20th November — 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)	Temp. Max. Day 7h–18h °F. (33)	Temp. 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)	33·9	+2	—	0	F	32	97	32	1	-	-	-	10	10	<150	1	*	45	31	20	—	Tr	3·4
Croydon	34·2	+2	—	0	F	32	97	32	0	-	-	-	10	10	<150	0	*	43	28	22	—	Tr	0·8
S. Farnborough	34·3	+2	WNW	1	Ft	33	97	30	1	-	-	-	10	10	<150	3	*	45	28	17	0·6	—	5·1
Boscombe Down	34·0	-2	N	3	bF	30	97	30	1	-	-	-	0	0	—	0	*	45	28	23	—	Tr	5·5
Thorney Island	33·3	+2	N	2	z_0	30	97	30	6	-	4	-	0	1	—	0	*	44	29	21	—	Tr	*
Lympne	32·8	-2	N'E	2	z_0	37	97	35	6	5	4	2	9	9+	2500	1	§ 3	43	34	27	1	Tr	6·5
Manston	32·3	0	E	2	z_0	40	75	34	6	5	-	-	4-6	7-8	3800	1	*	45	39	34	0·6	—	4·9
Shoeburyness	33·1	0	N'W	3	z_0	32	92	30	5	5	3	-	4-6	7-8	2500	1	*	45	30	26	—	—	5·6
Felixstowe	32·9	0	NNW	2	z_0	33	97	32	5	5	-	-	2-3	2-3	7300	0	1	46	32	28	Tr	—	4·3
Gorleston	32·5	-2	NW'N	2	z_0	35	92	31	6	2	-	-	4-6	4-6	1500	0	2	46	34	29	Tr	—	1·2
Mildenhall	34·0	+2	W	1	F	29	97	29	1	-	-	-	10	10	<150	1	*	44	27	20	—	—	4·3
Cranwell	33·1	-4	W	2	f	37	92	34	2	-	-	-	10	10	<150	1	*	43	31	30	Tr	Tr	3·0
Birmingham	33·2	-6	NW	2	cf	39	92	37	2	5	-	-	9+	9+	2500	1	*	42	37	29	—	—	3·4
Upper Heyford	34·6	-2	—	0	bF	29	97	29	1	-	-	-	0	0	—	3	*	41	29	23	Tr	—	1·7
Ross-on-Wye	34·1	-6	—	0	z_0	35	92	33	5	5	-	-	10	10	1500	1	*	43	34	25	—	—	5·2
Hartland Point	33·7	+2	NNE	2	c/d	43	97	43	6	5	2	-	7-8	10	1500	1	3	45	40	39	—	Tr	2·5
Bristol	34·7	0	—	0	cf—	36	85	32	3	5	7	-	7-8	9+	5700	0	*	41	34	21	Tr	Tr	4·3
Portland Bill	32·5	-6	N	3	c-bc	38	92	36	7	5	-	-	7-8	7-8	2500	1	4	42	36	*	—	—	*
Plymouth	34·2	-2	WNW	1	m	38	92	35	4	5	7	6	2-3	7-8	5000	0	1	47	37	27	—	—	7·5
The Lizard	33·2	-2	N	2	z_0	39	85	34	6	7	-	-	7-8	7-8	2500	0	3	46	36	*	—	—	7·3
Scilly (St. Mary's)	33·5	-2	NNE	3	c	46	75	39	7	5	-	-	10	10	1200	1	4	48	43	*	—	—	7·4
Guernsey																							
Pembroke	34·3	-2	ENE	2	c	42	97	41	7	8	-	-	9+	9+	1500	0	2	47	39	*	—	—	7·0
Holyhead (Valley)	34·9	-2	—	0	c	47	97	47	8	5	7	-	9	10	1500	1	1	50	39	38	—	0·1	*
Chester (Sealand)	33·3	-2	—	0	cf+	40	92	38	3	5	3	-	7-8	9+	2500	0	*	44	36	28	—	Tr	2·9
Manchester	33·6	-6	—	0	m	38	92	35	4	5	2	-	7-8	10	800	1	*	38	34	29	—	0·2	*
Spurn Head	32·7	0	SW	3	z_0	39	85	34	5	1	-	-	2-3	2-3	2500	0	1	46	38	*	1	—	5·9
Catterick (Sc)	32·8	-2	—	0	bFt	28	97	28	0	-	-	-	0	0	—	1	*	45	28	23	Tr	Tr	1·5
Tynemouth	31·9	-4	WNW	3	b-bc	41	97	40	7	-	4	-	0	2-3	—	1	3	43	39	36	0·3	1	*
St. Abbs Head	30·3	-4	W	2	o-bc	49	92	47	7	4	-	-	2-3	2-3	4000	0	2	46	44	*	2	0·4	*
Leuchars	30·4	-6	W	2	c-bc	44	92	42	7	5	3	-	4-6	7-8	4000	1	*	45	39	37	0·2	0·2	0·0
Renfrew (Abbots I.)	32·4	-2	WSW	2	c-bc	46	97	45	7	5	3	-	2-3	7-8	3000	1	*	46	42	30	0·2	—	0·0
Eskdalemuir	33·0	0	—	0	c-bc	33	97	32	6	5	4	-	7-8	7-8	300	1	*	37	32	30	1	0·3	0·0
Point of Ayre	33·1	-2	N'E	4	c	50	92	48	8	5	-	-	10	10	2500	0	3	48	48	*	—	0·1	0·0
Tiree	34·4	0	NNW	1	id_0	50	97	50	6	5	-	-	10	10	1000	1	1	50	46	45	0·1	1	0·0
Stornoway	31·2	-2	WNW	4	c	50	97	49	7	5	2	-	7-8	9	1100	1	3	49	47	46	Tr	0·3	0·0
Dalwhinnie	31·4	-2	N	1	c	37	97	37	7	5	1	-	7-8	10	1500	1	*	40	31	27	—	0·1	0·0
Aberdeen †	29·0	-8	WNW	3	bbc/pr	49	92	46	7	5	4	-	2-3	2-3	4000	1	2	44	38	30	2	0·2	0·0
Wick	28·7	-2	WNW	4	dd	50	97	49	6	5	7	-	9+	10	800	1	*	47	44	43	0·2	1	*
Sumburgh	24·3	-2	NW'W	5	d_0d_0	49	97	49	5	5	-	-	10	10	600	1	2	47	47	44	*	1	0·0
Blacksod Point	37·6	0	N'W	1	o	50	97	49	6	5	-	-	10	10	800	1	2	52	50	*	3	1	*
Malin Head	34·8	+2	NW'N	2	df	50	97	49	3	-	2	-	10	10	450	1	2	50	47		0·5	0·6	0·0
Aldergrove	34·8	-2	—	0	o/d	47	97	46	5	-	2	-	10	10	500	1	*	44	43	43	0·1	0·2	0·0
Birr Castle	36·0	-2	WSW	1	c	47	97	46	7	5	-	-	10	10	1500	1	*	46	44	34	0·1	0·6	0·0
Valentia Obsy.	37·0	-2	—	0	b bc	45	85	41	8	5	-	1	2-3	2-3	2800	1	1	47	45	39	0·6	1	0·0
Roches Point	36·1	-2	N	2	c	48	92	46	8	5	-	-	10	10	1500	1	3	47	44	*	—	0·3	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 19th November C_LC_M	wwVhNh	DDFWN	18h. G.M.T. C_LC_M	wwVhNh	DDFWN	01h. G.M.T. 20th November C_LC_M	wwVhNh	DDFWN	07h. G.M.T. C_LC_M	wwVhNh	DDFWN
109	55	10764	56667	5-	02755	57725	5-	55538	24458	5-	54538	24558
115				52	51745	24458	--	67109	24369	--	67009	24369
203												
206	57	22966	20568	54	01963	22563	50	01863	26463	57	02864	24427
210	52	62865	22368	07	02990	55427	53	02863	23468			
219	5-	08448	24228	57	21535	24358	5-	57328	26358	5-	08438	24248
230	62	51616	00058	62	52527	00058	5-	05748	00028	5-	51418	00058
245	52	62661	25168	57	02754	25128	57	02764	26127	33	01863	20114
260	5-	05548	22348	52	08468	20248	01	05690	22223			
278	57	02865	00028				52	02647	33947	51	21637	30158
279	07	08490	00028	02	62448	00068	52	41454	00045	52	47206	00047
285	51	02864	32327									
288	09	05590	17118	52	62655	22268	01	05690	10364	04	05690	18114
575	02	51428	00058	--	46209	00059	02	21528	00028	51	51626	26128
301	00	05590	22144	52	61664	26128	52	05546	15258	5-	08448	11158
321	04	05690	30314	04	08490	00023	57	08464	18148	00	47290	18140
290	81	02744	30215	50	05644	26114	5-	02746	24126	50	05543	24113
292	04	05690	28213	00	05690	00018	51	08453	00055	--	48009	00049
310				--	46209	04349				20	25625	26385
614				00	08490	00010	--	44309	26249	57	43354	30127

III	13h. G.M.T. 19th November C_LC_M	wwVhNh	DDFWN	18h. G.M.T. C_LC_M	wwVhNh	DDFWN	01h. G.M.T. 20th November C_LC_M	wwVhNh	DDFWN	07h. G.M.T. C_LC_M	wwVhNh	DDFWN
333	10	01861	00023	50	05654	00026	5-	08448	00058	52	52436	00028
334	--	05652	02103							--	02643	02115
340				00	47390	32110	52	21343	00068	52	08445	32148
136	26	01862	32214	03	01790	32185	00	47290	00000	03	45190	00041
336	10	01763	04213	50	05653	04213				57	05654	32328
350	54	05653	32323	00	08490	30100	--	43109	00040	--	48009	00049
368	53	05654	02214	10	05563	00013	5-	05548	24228	57	05554	32128
379	00	41490	01340	00	45390	01213						
390	00	05590	02300	00	45390	30140	00	45290	00040	--	47009	00049
382	04	05590	03302	00	08490	02200	00	47390	00040	--	45109	00049
438	57	02654	32516	90	05653	04413	50	05663	02413	5-	02667	32417
430	00	05590	02300	00	05590	30200	00	05590	02200	04	05690	02102
409	14	01853	06315	10	01752	05212	55	05653	07214	57	51655	07258

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_LC_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 November
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	cmbcbz₀	bz₀mfw	bfofex
Croydon	cbcf	bcf bcm, f	bF₀Fx
Greenwich	cfbm	bmm₀	bmfxFe
Camden Square	c	c	*
Kensington	bcm	bc	*
Hampstead	bc	ofx	ofx

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. Time: 0·7 17-19h (19th)
Min. Time: 0·2 0-5h (20th)

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	31	20	—	Tr	3·4	*	*
Croydon	43	28	22	—	Tr	0·8	*	*
Greenwich	44	31	25	—	—	3·2	70	98
Westminster	46	31	28		—		71	97
Regents Park	44	31	29	—	—		75	*
Camden Square	46	30	22	—	—	*	*	98
Kensington	45	31	20	—	Tr		85	95
Hampstead	43	28	24	—	—		*	*

SECRET

Page 1 BRITISH SECTION

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

Sunday 21st November 1943

No. 29949

OBSERVATIONS at 13h. G.M.T. 20th November

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)	32·0	-20	N'S	1	bf-	36	97	35	2	-	-	-	0	0	-
	Croydon	32·4	-18	-	0	F	34	97	34	0	-	-	-	10	10	<150
	S. Farnborough	32·4	-20	NNW	1	f	35	85	31	2	5	-	-	10	10	300
	Boscombe Down	32·2	-22	N	1	m	38	97	37	4	2	-	-	1	1	4000
	Thorney Island	31·9	-24	N'E	3	mo	42	85	36	5	-	-	-	0	0	-
	Lympne	31·0	-20	NE'N	4	zo	45	75	35	6	2	-	-	4-6	4-6	1500
	Manston	31·1	-16	ENE	3	bc	45	75	37	7	1	-	-	4-6	4-6	3500
2	Shoeburyness	31·6	-18	N	3	zo	44	85	39	5	-	-	-	0	0	-
	Felixstowe	31·7	-14	N	3	mo	45	75	38	6	-	-	-	0	0	-
	Gorleston	31·1	-14	-	0	mo	45	85	40	5	5	-	-	4-6	4-6	900
	Mildenhall	32·2	-14	W	1	F+	33	85	30	0	-	-	-	10	10	<150
	Cranwell	31·7	-16	WSW	2	bF	43	85	40	3	-	-	-	0	0	-
3	Birmingham	31·7	-14	NNW	2	m	45	85	41	4	5	-	-	9+	9+	2500
	Upper Heyford	32·6	-18	N'W	1	cf-	37	92	34	3	5	-	-	9+	9+	2000
4	Ross-on-Wye	32·4	-14	SW'W	1	mo	41	85	37	6	5	-	-	10	10	2000
5	Hartland Point	32·6	+14	NE	2	c	47	85	41	8	1	-	-	10	10	2500
	Bristol	32·8	-16	-	0	m	41	75	34	4	5	-	-	10	10	4000
	Portland Bill	31·1	-20	NE	3	cbc	46	92	44	6	5	-	-	7-8	7-8	2500
	Plymouth	32·5	-18	NNW	1	m	45	75	38	4	5	-	-	9+	9+	5000
	The Lizard	32·2	-12	N	2	mo	45	85	40	6	5	-	-	9+	9+	1500
	Scilly (St. Mary's)	32·6	-14	NE'N	3	c	48	85	44	7	5	-	-	10	10	1200
	Guernsey															
6	Pembroke	33·6	-12	N'E	2	c	42	92	40	7	8	-	-	9+	9+	1800
7	Holyhead (Valley)	33·2	-12	NNW	2	ido	51	97	51	4	5	-	-	10	10	<150
	Chester (Sealand)	32·3	-10	-	0	°/f	48	92	46	6	5	-	-	10	10	1800
8	Manchester	32·3	-14	-	0	m/f	42	92	40	4	5	-	-	10	10	2000
10	Spurn Head	32·1	-6	W'N	3	m	45	85	40	4	5	-	-	2-3	2-3	1500
	Catterick (Sc)	31·9	-12	-	0	mo	47	85	42	5	5	3	-	2-3	7-8	3000
	Tynemouth	31·3	-12	W	3	mo	48	92	45	5	5	-	-	9	9	3200
11	St. Abbs Head	30·2	-2	WNW	3	cbc	54	85	50	8	4	4	-	4-6	7-8	3500
	Leuchars	30·0	-10	SW	3	bc	55	85	51	8	5	4	2	1	4-6	5000
12	Renfrew (Abbots I.)	31·5	-12	WNW	2	cbc	56	85	50	8	5	4	8	1	7-8	3000
	Eskdalemuir	32·0	-10	-	0	F+	40	97	40	1	-	-	-	10	10	<150
	Point of Ayre	32·9	-8	NE	1	c	51	92	49	8	5	-	-	9	10	3000
13A	Tiree	33·8	-10	WNW	2	ido	49	97	49	5	5	-	-	7-8	9	400
13B	Stornoway	31·1	-8	W	4	dodo	50	97	50	5	6	2	-	9	10	700
15	Dalwhinnie	31·0	-6	WSW	2	bbc	53	75	35	8	7	-	9	2-3	2-3	2500
	Aberdeen	28·8	-10	WNW	3	bc	56	75	48	8	5	4	-	1	4-6	4000
	Wick	28·5	-6	W	4	mo	49	97	49	6	5	-	-	7-8	7-8	600
16	Sumburgh	24·5	-6	WNW	5	dodo	49	97	49	6	5	-	-	9+	9+	500
17	Blacksod Point	36·7	-14	NNW	3	c	51	97	50	8	8	-	-	10	10	1500
18	Malin Head	34·7	-10	NW	3	df	51	92	49	2	-	2	-	10	10	800
	Aldergrove	33·8	-16	NNW	2	ido	51	97	50	7	-	2	-	10	10	400
19	Birr Castle	34·6	-14	NW	1	o	50	97	49	7	5	-	-	10	10	2500
20	Valentia Obsy.	36·1	-10	N'E	3	c	52	85	48	8	5	-	1	7-8	9	2500
	Roches Point	34·7	-12	N	3	cbc	51	97	50	8	5	-	-	7-8	7-8	2500

OBSERVATIONS at 18h. G.M.T. 20th November

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)	30·8	0	W	1	F	34	97	34	0	-	-	-	10	10	<150	1	*
Croydon	30·9	-2	-	0	F	33	97	33	0	-	-	-	10	10	<150	1	*
S. Farnborough	30·9	-2	WNW	1	F-	33	97	32	0	-	-	-	10	10	<150	1	*
Boscombe Down	30·6	-2	N	2	of+	39	85	36	3	5	-	-	10	10	1200	0	*
Thorney Island	30·2	+2	NW	2	zo	36	92	33	5	-	-	8	0	1	-	0	*
Lympne	29·8	-4	NNE	3	zo	38	92	35	5	2	-	-	2-3	2-3	1500	1	3+
Manston	29·8	-2	EN	3	zo	43	75	36	6	1	-	-	4-6	4-6	2300	1	*
Shoeburyness	30·1	-8	NNE	1	zo	37	92	35	5	-	-	-	0	0	-	0	*
Felixstowe	30·2	-6	NW	2	zo	38	85	33	6	-	-	-	0	0	-	0	2
Gorleston	29·7	-4	N	1	zo	43	75	37	6	5	-	-	4-6	4-6	800	0	2
Mildenhall	30·6	-6	-	0	bf	30	97	30	0	-	-	-	0	0	-	1	*
Cranwell	30·5	+4	W	2	bf	39	97	38	2	-	-	-	0	0	-	1	*
Birmingham	31·1	-4	NW	2	bf	41	92	39	3	-	-	-	0	0	-	1	*
Upper Heyford	30·7	-6	-	0	b	38	97	37	8	-	-	-	0	0	-	1	*
Ross-on-Wye	30·6	-10	SW	1	m	41	92	39	4	5	-	-	10	10	2000	1	*
Hartland Point	30·3	-8	NE	3	c	48	85	45	7	5	-	-	9+	9+	2500	0	3
Bristol	31·1	-2	-	0	of	41	92	39	3	5	-	-	10	10	800	1	*
Portland Bill	30·5	+4	NE	3	c	41	92	40	6	5	-	-	9	9	2500	1	4
Plymouth	30·8	0	NNE	2	zo	46	85	41	5	5	7	-	7-8	9	2800	0	1
The Lizard	30·5	0	N	3	zo	46	85	43	6	5	-	-	10	10	1500	1	3
Scilly (St. Mary's)	30·6	-10	NNE	4	c	50	75	42	8	5	-	7	10	10	1200	1	4
Guernsey																	
Pembroke	32·1	+8	ENE	3	d	51	97	50	7	8	-	-	9+	9+	1800	1	3
Holyhead (Valley)	31·9	-2	-	0	dodo	50	97	50	4	5	-	-	10	10	800	1	1
Chester (Sealand)	31·1	-2	NW	2	of+	46	92	44	3	5	-	-	10	10	1800	0	*
Manchester	32·3	-14	-	0	m/f	42	92	40	4	5	-	-	10	10	2000	1	*
Spurn Head	29·1	-12	NW	3	zo	42	97	41	5	7	3	-	4-6	4-6	2500	1	1
Catterick (Sc)	30·7	-4	S	1	m/d	41	97	41	4	5	3	-	4-6	7-8	4000	1	*
Tynemouth	29·9	-4	W	4	zo	47	92	45	6	5	-	-	10	10	1500	1	3
St. Abbs Head	28·2	-2	WNW	4	bc	55	85	49	7	4	-	-	4-6	4-6	4000	0	3
Leuchars	28·8	-2	WSW	1	b	47	97	46	7	5	-	-	1	1	4000	1	*
Renfrew (Abbots I.)	30·7	-4	SW	2	bc	49	92	47	7	4	-	-	4-6	4-6	2800	1	*
Eskdalemuir	31·0	-2	-	0	F+	41	97	41	0	-	-	-	10	10	<150	1	*
Point of Ayre	31·8	0	N	4	c	51	92	49	8	5	-	-	10	10	3000	0	2
Tiree	32·0	-18	WNW	2	dodo	51	97	50	4	5	-	-	10	10	200	1	1
Stornoway	29·4	-10	W	3	dodo	50	97	49	5	5	-	-	10	10	600	1	2
Dalwhinnie	30·0	-10	-	0	bc	47	92	45	8	5	-	-	4-6	4-6	1500	0	*
Aberdeen	28·5	+4	NNW	2	c	52	85	48	8	5	-	-	10	10	4000	1	2
Wick	28·0	+4	NW	3	dodo	49	97	49	4	5	-	-	10	10	300	1	*
Sumburgh	24·8	+6	NNW	6	dodo	48	97	47	6	5	-	-	7-8	7-8	1500	1	2
Blacksod Point	35·5	-6	NNW	2	c	49	92	47	7	6	-	-	10	10	1500	1	2
Malin Head	33·1	-6	WNW	2	df	49	97	47	2	-	2	-	10	10	800	2	2
Aldergrove	33·3	-6	NW'N	3	c	48	92	46	7	5	-	-	10	10	600	1	*
Birr Castle	33·4	-4	NW	1	id	50	97	50	7	5	-	-	10	10	1500	1	*
Valentia Obsy.	34·9	0	N'E	2	ido	51	92	49	6	5	-	-	10	10	1200	1	2
Roches Point	33·2	-4	NE	3	c	51	92	49	8	5	-	-	9	9	1500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 20th (39)	Weather 13h.—18h. 20th (40)	Weather 18h. 20th to 1h. 21st (41)	Weather 1h.—7h. 21st (42)
London (Kew)	FxFebf	ofFe	ofeFef	off
Croydon	oFe	oFe	oFe	cFe
S. Farnborough	oFxoFeoF	cfFoFe	oFeFx	oFxf
Boscombe Down	bFxbcFb	bmcmcf	cfbmofc	cfcmcfF
Thorney Island	bmo	bmo	bmo	bmoxcmox
Lympne	cmobcmo	bczbcmo	bcmow	cmow
Manston	bcbzo	bccbczo	bczbmoczo	czomo
Shoeburyness	cbcbmo	bmow	bmow	bbcmo
Felixstowe	bmo	bzo bmo	bmobm	cmcmo
Gorleston	cmbczo	bczo	bcczo	cidobcz
Mildenhall	oFx	oFe	oFx	oFxcF
Cranwell	cm	bcff	F	Fdo
Birmingham	cfm	cmbm	bfc	foido
Upper Heyford	bFxcf	cfmobm	bmoF	oFdF
Ross-on-Wye	cmo	cmom	cm	omffe
Hartland Point	c	c	cbc	bcc
Bristol	ifwcz	czozf	ofw	ofw
Portland Bill	cczo	oczo	c	cczo
Plymouth	cmz	cmo	cmo	cmocmo
The Lizard	cz	czo	cbcmz	bccmo
Scilly (St. Mary's)	c	c	cidoc	c
Guernsey				
Pembroke	c	cd	cfmo	cmow
Holyhead (Valley)	ododom	cdodomo	codoomo	oidomo
Chester (Sealand)	offdoc	momfc	odgdof	ododoff
Manchester	cmFF	cmff	cffoff	odFF
Spurn Head	bcm	bcmo	omo	ofdodo
Catterick (Sc)	cmbcmc	cmidom	cddfcf	bcmocmo
Tynemouth	bccmo	como	oiromobc	bccmo
St. Abbs Head	bcc	cbcmo	bbc	bcc
Leuchars	cbc	bcbw	bwcmo	cmoc
Renfrew (Abbots I.)	bcmobc	bc	bccmo	cmoc
Eskdalemuir	cmof	ff	F	fF
Point of Ayre	c	c	cbcc	dodoc
Tiree	cidomp	cidomocdom	cmcdodomo	cdodomo
Stornoway	cidodomo	cdodomo	cdomocidoc	cbcidomo
Dalwhinnie	bc	bcobc	*	bcido
Aberdeen	cbrobc	bcc	cbcc	cpro
Wick	ccdoidom	cmodocdo	cidodododm	bcc
Sumburgh	cdodmo	cdodomoc	domoc	domoc
Blacksod Point	d	d	c	d
Malin Head	d	d	d	d
Aldergrove	ccmocmoc		cidomcmo	idomdodomo
Birr Castle	d	d	*	d
Valentia Obsy.	c	d	d	c
Roches Point	bc		c	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 21st November, 1943.

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands; 5 S.W. England; 6 South Wales	Light variable or northwest wind; clear intervals; some mist or fog, rather cold.
7 North Wales; 8 N.W. England; 9 N. Midlands; 10 N.E. England	Light variable or northwest wind; cloudy at first; occasional rain later; local fog; rather 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	Light or moderate west to northwest wind, fresh locally; occasional rain at first; bright intervals and local showers later; rather cold.
16 Orkneys and Shetlands; 17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	As 11-15

GENERAL INFERENCE

A large anticyclone is centred in Mid-Atlantic; a depression northeast of Iceland is moving east and an associated cold front off northwest Scotland is moving southeast; weather will be cloudy in the South with mist or fog, but there will be occasional rain in the North.

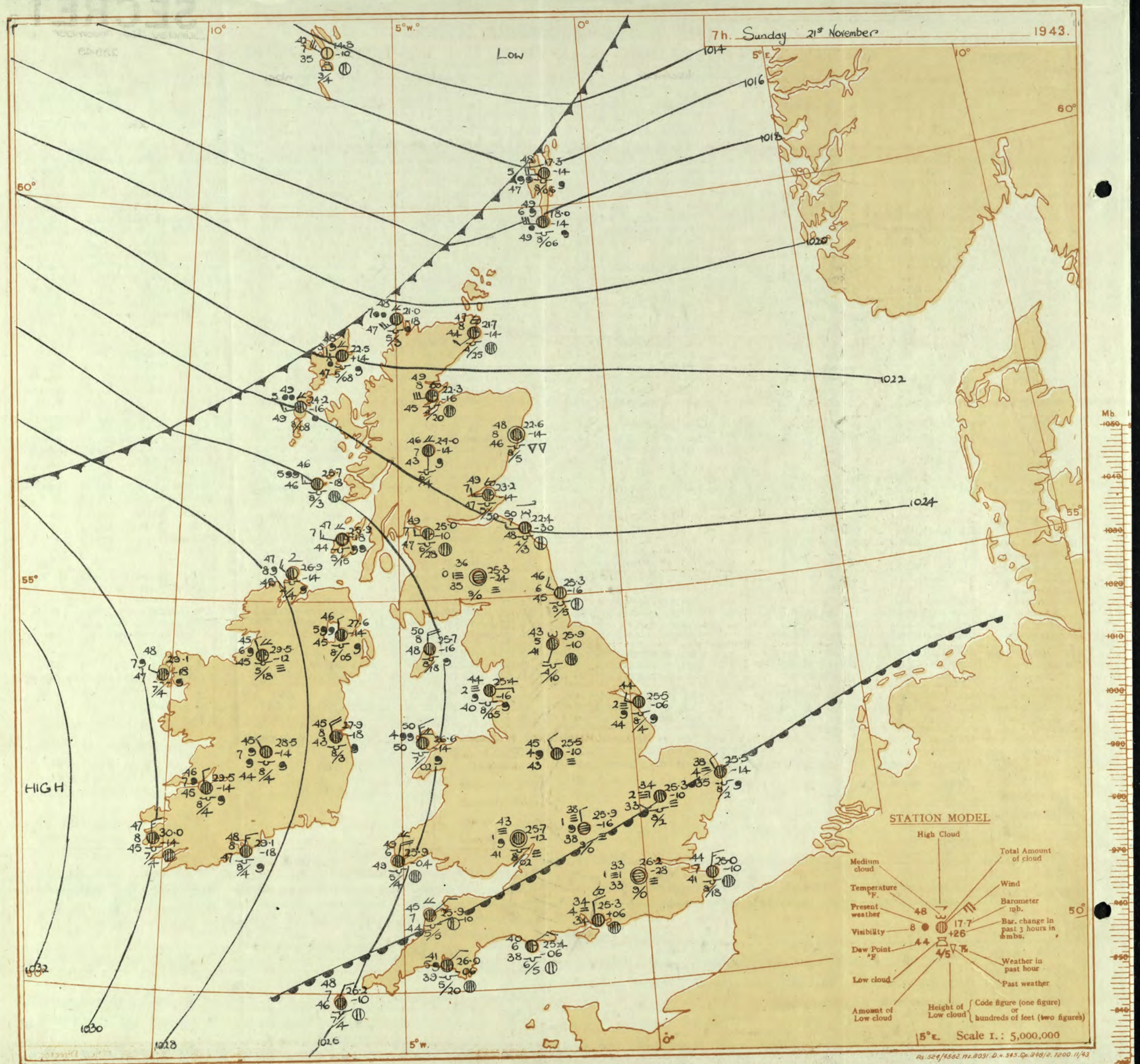
FURTHER OUTLOOK

Showers in the North; occasional slight rain in the South, becoming fair later.

Forecasts issued at 1030

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Sunday 21st November 1943.



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

Rs. 524/4562. Ht. 8031. D. & S. 545. Gp. 948/2. 1200. 11/43

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).

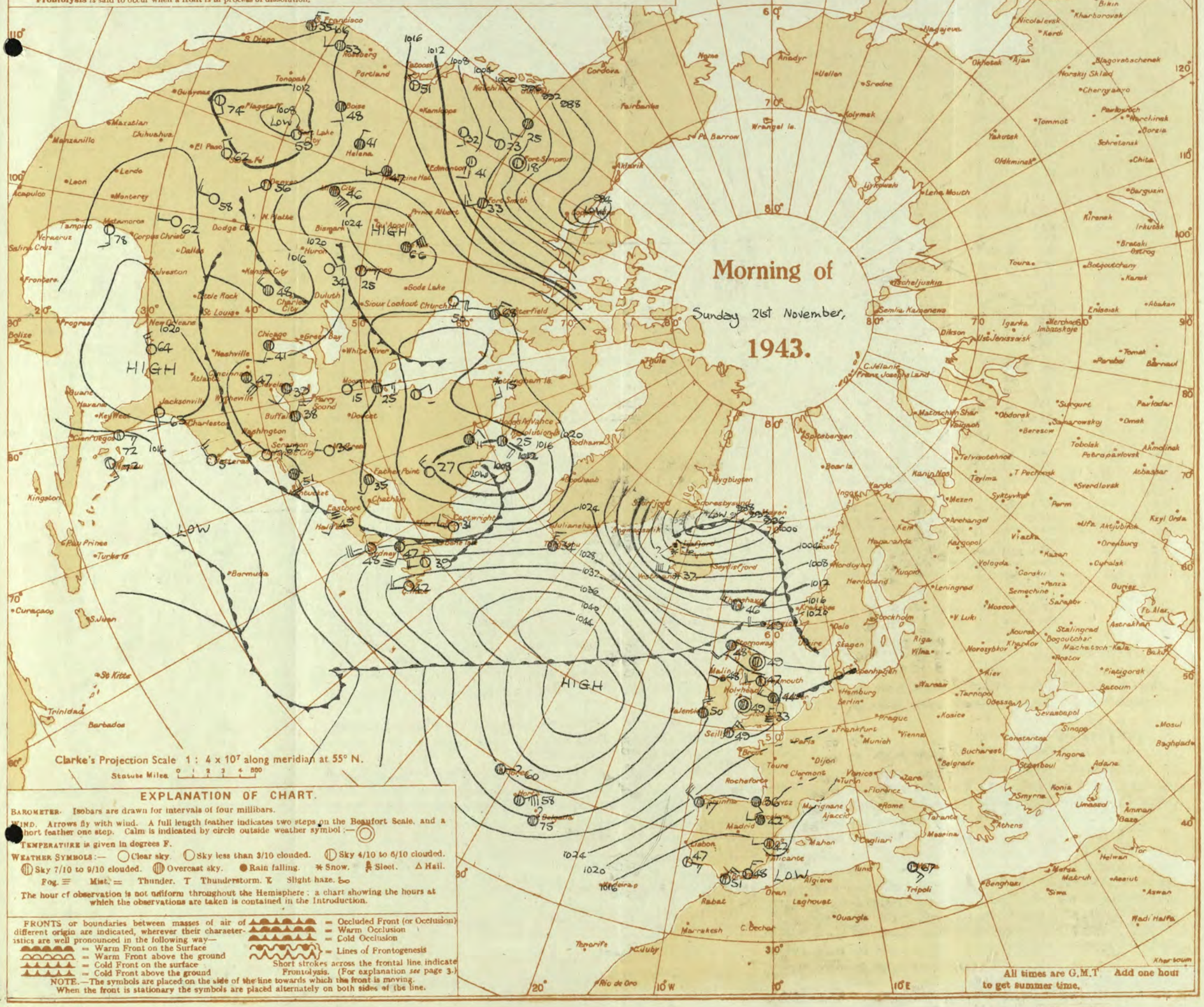
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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 21st November 1943

No. 29349

OBSERVATIONS at 1 hr. G.M.T. 21st November

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)	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	*	*	*	*	*	31	*	*	*	*	*	*	*	*	*
	Croydon ...	290	28·9	-14	N	1	F	33	92	32	0	-	-	-	10	10	<150
	S. Farnborough	226	28·9	-14	NNW	1	F	31	97	30	0	-	-	-	10	10	<150
	Boscombe Down	417	28·9	-12	NNE	2	of-	36	97	36	3	5	-	-	10	10	500
	Thorney Island	10	26·9	-18	N'W	3	z_o	32	97	32	6	-	4	-	0	Tr	-
	Lympne ..	283	27·5	-18	N'E	3	z_o	35	97	35	5	5	-	-	4-6	4-6	3000
	Manston ...	154	27·1	-22	NE'E	2	z_o	44	75	37	6	5	-	-	7-8	7-8	3600
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	28·0	-18	NW	3	m	35	97	34	4	-	-	-	0	0	—
	Gorleston ...	5	27·6	-14	NNW	2	z_o	39	85	35	6	5	-	-	10	10	800
	Mildenhall ...	15	27·9	-22	—	0	F—	29	97	29	0	-	-	-	10	10	<150
	Cranwell ...	203	27·7	-18	W	2	F	39	97	39	1	-	-	-	10	10	<150
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	28·9	-18	NNW	2	F	34	97	34	0	-	-	-	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	28·1	-14	NE	2	b-bc	47	97	47	8	5	-	-	2-3	2-3	2500
	Bristol ...	209	28·8	-20	—	0	of f	41	97	40	2	5	-	-	10	10	800
	Portland Bill ...	32	28·7	-14	NE	2	c-bc	38	92	37	7	5	-	-	7-8	7-8	4000
	Plymouth ...	86	28·6	-14	ENE	3	z_o	44	85	40	5	5	-	-	4-6	4-6	1700
	The Lizard ...	240	28·8	-12	N	2	z_o	41	85	38	7	4	-	-	4-6	4-6	2000
	Scilly (St. Mary's)	163	28·4	-18	NE	3	c	49	92	47	7	5	-	-	9+	9+	1000
	Guernsey ...	175															
6	Pembroke ...	142	29·6	-6	NE	1	c	48	97	48	7	8	-	-	10	10	1800
7	Holyhead (Valley)	32	29·3	-18	—	0	z_o	49	97	49	6	5	-	-	10	10	1100
	Chester (Sealand)	16	28·4	-18	N'W	1	df	47	97	46	3	5	-	-	10	10	500
8	Manchester ...	230	28·7	-18	S'E	1	f	41	97	41	2	-	-	-	10	10	<150
10	Spurn Head ...	29	27·9	-16	WNW	3	o	44	85	41	5	5	-	-	10	10	1500
	Catterick (Sc)...	192	28·7	-14	—	0	of	45	97	45	3	5	-	-	10	10	1700
	Tynemouth ...	108	28·1	-16	W	4	bc	47	92	45	7	2	-	-	4-6	4-6	2500
11	St. Abbs Head	280	27·0	-12	WNW	2	bc	50	92	48	7	4	3	-	2-3	4-6	4000
	Leuchars ...	36	26·6	-18	W	2	z_o	46	97	46	6	5	7	-	7-8	9+	3500
12	Renfrew (Abbots L.)	19	28·0	-16	WSW	1	z_o	49	97	48	6	5	-	-	7-8	7-8	1400
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	29·0	-22	N'W	3	c	51	97	51	8	5	-	-	Tr	10	2500
13A	Tiree	44	29·7	-10	WNW	3	d_od_o	49	97	48	5	5	-	-	10	10	450
13B	Stornoway ...	12	25·9	-14	SW	4	c-bc/d	48	92	46	7	5	-	-	7-8	7-8	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	26·0	-18	—	0	c-bc	49	92	47	7	5	-	-	7-8	7-8	2800
	Wick ...	114	24·6	-16	—	0	c/d	49	97	49	8	5	2	-	9+	10	2000
16	Sumburgh ..	19	21·2	-22	W	5	id_o	49	97	49	6	5	-	-	10	10	700
17	Blacksod Point	18	32·6	-18	WNW	2	c	48	85	44	7	5	-	-	10	10	800
18	Malin Head ...	84	30·5	-10	WNW	2	dd	48	97	48	5	5	-	-	10	10	800
	Aldergrove ...	268	30·8	-18	—	0	id_o	46	97	46	4	5	-	-	10	10	800
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	32·5	-16	N'W	4	o/d	50	92	48	7	5	-	-	10	10	900
	Roches Point	22	31·0	-14	N	3	c	50	97	50	8	5	-	-	9	9	1500

OBSERVATIONS at 7 hr. G.M.T. 21st November

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)	°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)	25·6	-10	NW'W	1	f-	34	97	34	3	-	-	-	10	10	<150	1	*
	Croydon ...	26·2	-28	—	0	F-	33	97	33	1	-	-	-	10	10	<150	1	*
	S. Farnborough	28·7	-12	W'N	1	f-	33	93	30	2	-	-	-	10	10	<150	1	*
	Boscombe Down	25·6	-18	—	0	dF	37	97	37	1	-	-	-	10	10	<150	1	*
	Thorney Island	25·3	+6	N'W	2	m	34	97	34	4	-	7	-	0	7-8	—	0	*
	Lympne ..	25·0	-6	ENE	3	z_o	39	92	37	5	5	-	-	9+	9+	1200	1	*
	Manston ...	25·0	-10	N'E	3	c	44	85	41	7	5	-	-	10	10	1800	1	*
2	Shoeburyness ...	25·1	-8	N'E	3	z_o	37	92	35	6	5	-	-	10	10	1500	1	*
	Felixstowe ...	25·1	-16	NW	2	z_o	39	92	36	5	5	-	-	9+	9+	4000	0	1
	Gorleston ...	25·5	-14	NW	2	m	38	92	35	4	5	-	-	10	10	450	1	2
	Mildenhall ...	25·3	-10	SW	1	of-	34	97	33	2	5	-	-	10	10	450	1	*
	Cranwell ...	24·9	-10	W'S	1	dF	41	97	41	1	-	-	-	10	10	<150	1	*
3	Birmingham ...	25·6	-14	NW	3	of	45	97	44	3	5	-	-	10	10	450	1	*
	Upper Heyford	25·9	-16	N'W	1	dF	38	97	38	1	-	-	-	10	10	<150	1	*
4	Ross-on-Wye	25·7	-12	—	0	dF	43	97	42	1	5	-	-	10	10	200	1	*
5	Hartland Point	25·9	-10	NE	2	c	45	97	44	7	5	2	-	7-8	9+	2500	0	3
	Bristol ...	26·3	-14	NW	1	rf	42	92	41	3	5	-	-	10	10	300	1	*
	Portland Bill ...	25·4	-6	NE	3	c	40	92	36	6	5	-	-	9	9	2500	1	4
	Plymouth ...	26·0	-6	NE	1	id_o	41	92	39	5	5	-	-	7-8	9+	2000	1	2
	The Lizard ...	26·1	-8	NE	3	z_o	43	92	41	6	5	-	-	9+	9+	1500	0	3
	Scilly (St. Mary's)	26·2	-10	N'E	2	c	48	92	46	7	5	-	-	9+	10	1500	1	3
	Guernsey ...																	
6	Pembroke ...	25·9	-4	NNE	2	c	49	97	49	6	5	2	-	7-8	10	1500	1	1
7	Holyhead (Valley)	26·6	-14	NNW	3	d_od_o	50	97	50	4	5	2	-	9+	10	200	1	3
	Chester (Sealand)	25·4	-16	N'W	3	df	48	97	47	2	5	-	-	10	10	400	1	*
8	Manchester ...	25·7	-10	NE	1	F	41	97	41	1	-	-	-	10	10	<150	1	*
10	Spurn Head ...	25·5	-6	W'N	2	df	44	97	44	2	5	-	-	10	10	1500	1	
	Catterick (Sc)...	26·9	-16	SSW	1	z_o	43	97	41	5	5	3	-	4-6	9	1000	1	*
	Tynemouth ...	25·3	-16	WNW	3	z_o	46	97	45	6	5	-	-	7-8	7-8	2500	1	3
11	St. Abbs Head	22·4	-30	W	1	c	50	92	48	7	5	6	1	4-6	9	800	0	2
	Leuchars ...	23·2	-14	W	3	c	49	97	47	7	5	7	-	7-8	9+	5000	1	*
12	Renfrew (Abbots L.)	25·0	-10	W	2	c	49	92	47	7	5	-	-	9	9	2800	1	*
	Eskdalemuir ...	25·3	-24	—	0	F+	36	97	35	0	-	-	-	10	10	<150	1	*
	Point of Ayre...	25·7	-16	N	4	c	50	92	48	8	5	-	-	10	10	1800	1	3
13A	Tiree	25·7	-18	W	3	d_od_o	46	97	46	5	5	-	-	10	10	800	1	2
13B	Stornoway ...	22·5	+14	W	3	dr	48	97	47	5	5	2	-	7-8	10	800	1	2
15	Dalwhinnie ...	24·0	-14	S	1	c	46	85	43	7	5	2	-	9	10	1500	1	*
	Aberdeen † ...	22·6	-14	—	0	o/pr	48	92	46	8	5	-	-	10	10	2500	1	2
	Wick ...	21·7	-14	SW'S	2	c	47	85	44	8	5	7	-	4-6	9+	2500	1	*
16	Sumburgh ..	18·0	-14	W'S	6	dr	49	97	49	6	5	-	-	10	10	600	1	2
17	Blacksod Point	29·1	-18	W'N	1	id_o	48	97	47	7	6	-	-	9+	9+	1500	1	2
18	Malin Head ...	26·9	-14	W'N	3	id_o	47	92	45	8	5	-	6	4-6	7-8	1500	2	2
	Aldergrove ...	27·6	-14	NW'N	1	d_od_o	46	97	45	5	5	-	-	10	10	500	1	*
19	Birr Castle ...	28·5	-14	NW	1	id	45	97	44	7	5	-	-	10	10	1500	1	*
20	Valentia Obsy.	30·0	-14	N'W	3	c	47	92	45	8	5	-	-	9+	9+	1800	1	2
	Roches Point	28·3	-10	N	3	c	49	97	48	8	5	-	-	10	10	1500	1	3

PAST 24 HOURS.

District	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 20th Hrs. (38)
1	London (Kew)	37	30	30	Tr	Tr	0·0
	Croydon ...	34	32	31	Tr	Tr	0·0
	S. Farnborough	36	30	30	-	-	0·0
	Boscombe Down	40	33	29	-	Tr	3·5
	Thorney Island	43	28	24	-	Tr	*
	Lympne ..	45	35	30	-	0·6	6·1
	Manston ...	46	41	37	-	-	5·6
2	Shoeburyness ...	45	32	26	-	-	5·0
	Felixstowe ...	46	33	29	-	-	5·3
	Gorleston ...	48	37	34	-	Tr	2·4
	Mildenhall ...	33	27	*	0·2	—	0·0
	Cranwell ...	44	33	32	-	1	6·9
3	Birmingham ...	45	38	29	-	0·2	0·0
	Upper Heyford	40	31	24	-	Tr	*
4	Ross-on-Wye	43	41	36	-	0·1	0·0
5	Hartland Point	48	41	38	-	-	0·0
	Bristol ...	41	40	*	-	Tr	0·0
	Portland Bill ...	46	38	*	-	-	*
	Plymouth ...	47	39	30	-	Tr	0·0
	The Lizard ...	47	40	*	-	-	0·4
	Scilly (St. Mary's)	54	46	*	-	Tr	0·0
	Guernsey ...						
6	Pembroke ...	51	47	*	Tr	0·4	0·0
7	Holyhead (Valley)	52	48	47	0·5	1	*
	Chester (Sealand)	49	45	45	Tr	1	0·4
8	Manchester ...	43	38	33	-	0·4	*
10	Spurn Head ...	43	41	*	Tr	0·6	5·3
	Catterick (Sc)...	47	41	34	Tr	2	1·4
	Tynemouth ...	48	46	42	-	Tr	*
11	St. Abbs Head	56	49	*	-	-	*
	Leuchars ...	57	45	34	-	-	3·2
12	Renfrew (Abbots L.)	57	47	35	0·1	-	5·7
	Eskdalemuir ...	41	35	31	0·2	Tr	0·0
	Point of Ayre...	52	50	*	-	Tr	0·0
13A	Tiree	52	46	45	1	0·5	0·0
13B	Stornoway ...	50	47	46	Tr	1	0·0
15	Dalwhinnie ...	55	45	40	-	0·1	2·8
	Aberdeen † ...	56	48	44	0·1	0·1	2·8
	Wick ...	50	46	43	1	1	*
16	Sumburgh ..	50	47	45	0·6	2	0·0
17	Blacksod Point	52	46	*	0·2	0·5	*
18	Malin Head ...	50	46		1	2	0·0
	Aldergrove ...	51	43	38	Tr	0·3	0·0
19	Birr Castle ...	52	45	44	0·6	0·2	0·1
20	Valentia Obsy.	53	47	45	0·1	0·3	0·7
	Roches Point	52	49	*	-	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 20th November: $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T.: $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 21st November: $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhNh	DDFWN
109	52	51635	25456	5-	52638	26558	5-	51538	22558	5-	62528	22658
115	52	51735	24568	--	67009	24469	52	51735	24368	52	62735	20568
203												
206	83	25955	24585	54	02943	22324				57	02854	22627
210	53	02964	25426	5-	02847	24327	5-	58748	24368	57	02363	22367
219	5-	51528	26358	5-	21538	26358	52	02748	24325	02	62538	23368
230	54	02843	24227	57	02857	27227	5-	02848	26158	5-	52648	00058
245	54	01953	22114	50	01954	28124	5-	05666	25126	53	02865	25227
260	53	47365	20225	50	08453	23313	5-	08455	16215	5-	05653	22224
276	53	01844	30515				5-	57108	29158	52	21747	30358
279	52	08445	00048	--	03438	20248	5-	47248	20148	5-	47338	22148
285	53	01853	28315							53	02745	28327
288	53	05630	18113	57	51555	15157	5-	21448	16158	52	08457	16128
575	57	02844	28226	54	01824	30215	52	51545	29128	52	51645	28147
301	03	17490	28245	53	08464	28124	5-	55518	28228	5-	57228	08158
321	03	47390	00045	53	47263	00044	5-	47248	00068	--	57009	00049
290	54	05644	24114	5-	05648	00018	5-	52438	00058	5-	05537	28227
292							5-	57248	00068	57	00057	25044
310	23	04424	26414									
614	00	43390	00040	00	45190	00040	--	46109	00049	--	57009	00059

III	13h. G.M.T. 20th November: $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T.: $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 21st November: $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhNh	DDFWN
333	5-	57328	00058	57	52327	00058	52	52536	00058	52	52527	02158
334												
340	5-	21438	0005	5-	47338	31144	5-	57128	30148	5-	57338	30158
136	00	08490	24240	00	43390	24140	--	46209	24249	02	57138	22258
336	57	05654	08327	50	05665	04315						
350	00	43390	00040	00	47290	16140	5-	43356	00056	--	46209	00059
368	57	05644	32128	53	08445	32128	53	08463	01113	57	08444	00028
379	5-	05547	02147	5-	45338	02148	5-	43108	32248	5-	51318	30348
390	00	08490	32140	00	47390	32140	00	43290	00040	00	43390	28142
382	5-	43167	00047	5-	43248	39948	--	48109	00049	--	48109	00049
438	82	05664	32314	50	05663	32413	40	05662	32512	5-	05655	32525
430	00	05690	04200				00	08490	02202	57	05564	04226
409	17	02762	02158	5-	02745	03228	59	01763	08313	5-	61462	32167

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 21st November
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	FxFebF	orfFe	orfFoff	1·2 17h	0·3 7-8h
Croydon ...	oFe	oFe	oFefe		
Greenwich ...	FebFe	oFefe	FeFe		
Camden Square	ofe	of	*		
Kensington ...	offe	Fe	*		
Hampstead ...	bc	o	o		

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	37	30	30	Tr	Tr	0·0	*	*
Croydon ...	34	37	31	Tr	Tr	0·0	*	*
Greenwich ...	37	32	28	-	-	0·0	99	98
Westminster ...	38	32	30	—		-	90	99
Regents Park ...								
Camden Square	43	31	24	-	-	*	*	89
Kensington ...	39	32	27	-	Tr			96
Hampstead ...	42	33	25	-	-		*	95

Page 1 BRITISH SECTION

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

SECRET

Monday 22nd November 1943

No. 29950

OBSERVATIONS at 13h. G.M.T. 21st November

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)	22·5	-24	WSW	1	cf	40	92	39	2	5	–	–	9+	9+	4000
	Croydon	23·3	-24	–	0	f	39	97	39	2	–	–	–	10	10	<150
	S. Farnborough	22·9	-20	–	0	[illegible]	41	97	41	5	5	7	–	9	9+	1000
	Boscombe Down	22·9	-26	–	0	[illegible]	43	97	42	4	5	–	–	10	10	100
	Thorney Island	22·4	-26	N	2	z₀	44	75	39	5	5	7	–	4-6	10	1500
	Lympne	22·5	-24	NNW	1	m	42	97	41	4	5	2	–	9	10	1100
	Manston	23·1	-18	NNW	2	m	43	92	41	4	5	–	–	10	10	2500
2	Shoeburyness	22·9	-20	WNW	1	of+	41	92	38	3	5	–	–	10	10	1500
	Felixstowe	23·6	-18	NW	2	z	43	85	39	4	5	–	–	10	10	1500
	Gorleston	22·6	-22	WNW	2	m	45	85	42	4	5	–	–	9+	9+	1500
	Mildenhall	22·3	-26	SW	1	of	43	92	42	3	5	–	–	10	10	1900
	Cranwell	22·3	-20	–	0	f-	45	97	45	2	–	–	–	10	10	<150
3	Birmingham	22·5	-20	NNW	1	of	46	97	45	3	5	–	–	10	10	800
	Upper Heyford	23·2	-16	SW	1	F	41	97	41	1	–	–	–	10	10	<150
4	Ross-on-Wye	22·4	-22	WSW	1	m/f	47	97	46	4	5	–	–	10	10	500
5	Hartland Point	22·7	-18	NNE	3	c	49	97	49	7	5	2	–	7-8	10	1500
	Bristol	23·3	-18	SWW	1	df	46	97	46	2	–	2	–	10	10	400
	Portland Bill	23·4	-14	NE	2	c	46	92	44	7	5	–	–	10	10	2500
	Plymouth	23·2	-26	NW	1	ir₀	49	92	45	4	5	2	–	4-6	10	2500
	The Lizard	23·2	-18	NNE	2	z₀	49	92	47	6	5	–	–	9+	9+	2000
	Scilly (St. Mary's)	24·0	-18	NNE	2	dr	51	97	50	5	5	–	–	10	10	800
	Guernsey															
6	Pembroke	24·3	-2	NE	4	c	49	97	49	7	5	–	–	9+	9+	1800
7	Holyhead (Valley)	23·0	-30	NNW	3	id₀	49	97	49	4	5	–	–	10	10	200
	Chester (Sealand)	22·8	-20	NW	3	ir₀	49	97	48	6	5	2	–	7-8	10	400
8	Manchester	22·8	-20	–	0	f	46	97	46	2	–	–	–	10	10	<150
10	Spurn Head	27·7	-18	W	2	F	45	97	45	0	–	–	–	10	10	<150
	Catterick (Sc)	22·7	-26	–	0	m/f	47	97	47	4	5	1	–	10	10	5800
	Tynemouth	22·3	-24	WSW	3	z₀	50	92	48	5	5	–	–	9+	9+	2200
11	St. Abbs Head	20·7	-22	W	1	c	50	97	49	7	5	7	–	7-8	9+	3000
	Leuchars	20·8	-18	WSW	3	z₀	51	85	37	6	5	7	–	4-6	9+	5000
12	Renfrew (Abbots I.)	22·0	-22	WSW	2	c	50	85	45	7	5	7	–	7-8	10	1500
	Eskdalemuir	21·8	-24	–	0	F+	45	97	45	0	–	–	–	10	10	<150
	Point of Ayre	23·4	-20	NW	4	c	50	85	46	8	5	–	–	10	10	2500
13A	Tiree	23·4	-12	NW	3	c	48	85	44	7	5	–	–	9+	9+	800
13B	Stornoway	20·8	-14	W	2	bc	45	85	42	8	8	3	–	4-6	4-6	2500
15	Dalwhinnie	21·0	-16	WSW	2	c	47	85	43	8	5	7	–	7-8	10	1500
	Aberdeen	20·0	-18	SW	2	m	51	85	47	4	5	7	–	7-8	10	4000
	Wick	19·9	-10	NW	3	dodo	46	97	45	5	5	–	–	10	10	400
16	Sumburgh	16·8	-12	WNW	4	c	47	75	41	8	2	7	8	7-8	9	2000
17	Blacksod Point	25·7	-26	W	1	dr	52	97	51	6	–	2	–	10	10	800
18	Malin Head	23·5	-22	WNW	2	id	51	97	50	7	5	2	–	2-3	10	800
	Aldergrove	24·7	-20	–	0	c	47	92	44	8	5	2	–	9	9+	1400
19	Birr Castle	25·8	-20	NNW	1	c	47	85	43	8	5	2	–	7-8	10	2500
20	Valentia Obsy.	27·2	-22	NWN	3	id₀	49	97	48	8	5	–	–	10	10	1600
	Roches Point	25·9	-18	N	4	c	46	85	42	8	5	–	–	9	9	2500

OBSERVATIONS at 18h. G.M.T. 21st November

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)	20·5	-8	WSW	1	f-	41	97	39	2	–	–	–	10	10	<150	1	*
Croydon	21·0	-10	–	0	F	41	92	39	1	–	–	–	10	10	<150	1	*
S. Farnborough	20·9	-6	–	0	oF+	39	97	39	1	5	–	–	10	10	1600	1	*
Boscombe Down	21·1	-6	–	0	of	43	92	41	3	5	–	–	10	10	1500	1	*
Thorney Island	20·5	-8	–	0	z₀	43	92	40	5	5	–	–	4-6	10	2500	0	*
Lympne	20·4	-12	NNE	2	of	41	97	40	3	5	–	–	10	10	1700	1	2
Manston	21·5	-10	NW	1	of	41	97	40	2	5	–	–	10	10	200	1	*
Shoeburyness	21·0	-14	WNW	1	of+	42	92	40	3	5	–	–	10	10	1500	1	
Felixstowe	20·4	-14	WNW	2	m	43	92	41	4	5	–	–	10	10	2500	0	1
Gorleston	19·4	-18	NW	1	F+	43	92	40	2	–	–	–	10	10	<150	0	2
Mildenhall	20·2	-6	–	0	rF	43	97	42	1	–	–	–	10	10	<150	1	*
Cranwell	19·8	-4	ENE	1	F	44	97	44	1	–	–	–	10	10	<150	1	*
Birmingham	20·3	-8	NW	1	of	47	97	46	3	5	–	–	10	10	450	1	*
Upper Heyford	20·2	-14	W	1	dF	43	97	43	1	–	–	–	10	10	<150	1	*
Ross-on-Wye	20·2	-10	SWW	2	m	47	97	46	4	5	–	–	10	10	400	1	*
Hartland Point	19·9	-12	N	3	r₀r₀	50	97	50	7	5	–	–	10	10	800	1	4
Bristol	20·6	-6	–	0	of-	45	97	45	3	5	–	–	10	10	600	1	*
Portland Bill	20·4	-12	NE	2	o	46	92	44	7	5	–	–	10	10	2500	1	3
Plymouth	20·7	-12	NW	1	id₀	47	97	46	4	5	2	–	2-3	10	3500	1	1
The Lizard	21·2	-4	→	0	d₀d₀	49	97	49	5	5	–	–	10	10	1000	1	3
Scilly (St. Mary's)	21·8	+8	N	4	c	50	65	36	8	5	–	–	10	10	800	1	4
Guernsey																	
Pembroke	22·0	-2	NNE	3	c	49	92	47	7	5	–	–	10	10	800	1	1
Holyhead (Valley)	21·8	-8	NNW	2	c	47	97	46	7	5	7	–	7-8	9	1600	1	1
Chester (Sealand)	20·6	-10	NNW	2	id₀	47	92	47	5	5	2	–	4-6	10	1200	1	*
Manchester	20·2	-6	WNW	2	f	46	97	45	2	–	–	–	10	10	<150	1	*
Spurn Head	19·8	-8	W	1	F	45	97	45	0	–	–	–	10	10	<150	1	1
Catterick (Sc)	20·7	-10	–	0	m	47	97	47	4	5	7	–	7-8	10	1700	1	*
Tynemouth	19·9	-4	W	3	m/p	48	97	47	4	–	2	–	10	10	1500	1	3
St. Abbs Head	17·7	-10	W	6	z₀	49	92	47	6	5	–	–	9+	9+	2500	0	3
Leuchars	18·6	-6	WSW	3	bc	45	92	42	7	5	7	–	2-3	4-6	4000	1	
Renfrew (Abbots I.)	19·8	-6	WSW	1	b-bc	45	92	43	7	5	–	–	2-3	2-3	1800	1	*
Eskdalemuir	19·1	-10	NWN	3	c-bc	47	85	43	8	5	7	–	4-6	7-8	2100	1	*
Point of Ayre	20·8	-12	NNW	4	c	51	92	49	7	6	2	–	4-6	10	800	1	3
Tiree	21·4	-10	WNW	1	cbc/d	45	85	41	8	8	–	–	7-8	7-8	2500	1	
Stornoway	18·1	-12	WSW	3	bc/pr	41	92	39	7	8	–	–	4-6	4-6	2000	1	2
Dalwhinnie	19·2	-16	W	3	c	43	85	39	7	5	–	–	9+	9+	1500	0	
Aberdeen	18·7	-12	NW	4	c-bc	45	85	40	7	5	–	–	7-8	7-8	2500	1	*
Wick	17·9	-14	SW	2	b-bc	40	92	38	8	5	–	–	2-3	2-3	3000	1	
Sumburgh	14·1	-16	WSW	5	cbc/pr	45	92	43	8	8	6	–	7-8	7-8	2500	1	3
Blacksod Point	25·0	-2	NNW	3	c	48	75	41	8	5	–	–	10	10	800	1	3
Malin Head	22·3	-2	NNW	4	c	48	65	36	3	5	–	–	9+	9+	450	2	3
Aldergrove	22·6	-12	NNW	1	ido	47	92	45	4	5	–	–	10	10	600	1	*
Birr Castle	23·1	-14	NNW	1	dd	47	92	45	7	5	–	–	10	10	800	1	*
Valentia Obsy.	24·9	-6	NW	2	id₀	50	97	49	6	5	–	–	10	10	700	1	1
Roches Point	23·4	-12	N	3	bc	47	85	43	8	5	–	5	2-3	4-6	2500	1	3

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)	offcf	cfoFof	ofr₀r₀	r₀cr₀cf
Croydon	oFeofe	ofecfofe	oFed₀d₀	ofr₀r₀cm₀
S. Farnborough	oFdofcm₀	cm₀fFe	cFeir₀d₀df	cdrdd₀fcdf
Boscombe Down	oFofdoof	ocmd₀f	omid₀omd₀d₀	cr₀r₀m cid₀m
Thorney Island	cfcm₀	cm₀wcm₀	bcir₀cm₀	cm₀cd₀df
Lympne	cm₀idocm	cmcf	cf	cm₀cf
Manston	cid₀ mom	cm₀Fd₀d₀	Fd₀d₀ of	ofid₀bcf
Shoeburyness	cm₀xcm	cf	cf	cfcmw
Felixstowe	cm₀cm	cm₀Fcm₀	cm	bcncm₀cm
Gorleston	cm₀	cmoff	ofr₀r₀ of	offod₀d₀
Mildenhall	cf	cfod₀dof	oir₀Foidof	oFid₀fd₀d₀
Cranwell	Fdodof	F	Fd₀d₀	Fd₀dfd₀d₀
Birmingham	oidof	off	ofid₀	ofcm
Upper Heyford	odFFe	pdF	odFFdF	DFdFF
Ross-on-Wye	Feofcpf	om	dmomr₀	r₀r₀c
Hartland Point	circ	ccr₀r₀	orr₀c	cir
Bristol	pf rrdodo	odod₀fof	oFd₀d₀	ofd₀dFof
Portland Bill	pff	o	ofoz₀	oz₀
Plymouth	cirm₀cm	cidom	cd₀d₀m	od₀d₀cm
The Lizard	cz₀	cidd	codd	ddidc
Scilly (St. Mary's)	cirdro	odrc	cir₀c	c
Guernsey				
Pembroke	cmod	cw	cbccw	c
Holyhead (Valley)	odod₀m	cm₀	od₀d₀m₀o	ocbc
Chester (Sealand)	dodoffc	pffidoc	od₀d₀m₀c	cid₀idm₀c
Manchester	ofefe	offid₀	d₀d₀off	ir₀ffcm₀
Spurn Head	fe	fe	Fe	om₀e
Catterick (Sc)	cm₀irof	cm₀ cidocm	cmbcmcid₀m₀	cd₀d₀m₀bc
Tynemouth	cmm₀	cm₀ofofom	cncm₀	cm₀bc
St. Abbs Head	c	cm₀	cm₀bcc	cbcbbc
Leuchars	ccm₀	cm₀ir₀c	cbcbm₀	bbccm₀
Renfrew (Abbots I.)	c	cid₀m₀cb	bbcbm₀	bbcpr₀m₀c
Eskdalemuir	FfF	Ffc	cbc	bcc
Point of Ayre	cidoc	c	cbcc	d₀d₀c
Tiree	cd₀d₀m₀c	ccid₀c	cbcmrbc	bccpr₀
Stornoway	cd₀d₀cbc	ccpr₀bc	bcbbcpr₀b	crbcprbc
Dalwhinnie	o	oc		coir
Aberdeen	ccm	cmc	cbcz₀	cbcz₀bcz
Wick	cd₀d₀	cd₀d₀bcr	bbid₀c	bbccpr₀
Sumburgh	cdor₀c	cpr₀bcc	cpr₀	cpr₀ph
Blacksod Point	d	d	d	pr
Malin Head	d	d	r	pr
Aldergrove	cdodomoc	cid₀d₀id₀	c	ccid₀bcc
Birr Castle	d	d		d
Valentia Obsy.	d	d	d	pr
Roches Point	c	c	d	d

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 22nd November, 1943.

Districts	Forecast
1 S.E. England	Light to moderate west wind veering northwest; dull at first with widespread mist and fog and local rain or drizzle; becoming fair with considerable bright periods; mild.
2 E. England; 3 E. Midlands; 4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England; 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland; 12 S.W. Scotland & Isle of Man	Light to moderate northwest to west winds; dull in extreme south at first with local rain, otherwise bright intervals and some showers, showers very scattered in southeast but more frequent towards northwest; mild.
13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Fresh west-north-west wind, veering north later; bright intervals, occasional showers of rain at first, wintry showers later; rather cold becoming very 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 to fresh north to northwest winds; bright intervals, occasional showers; rather cold.

GENERAL INFERENCE

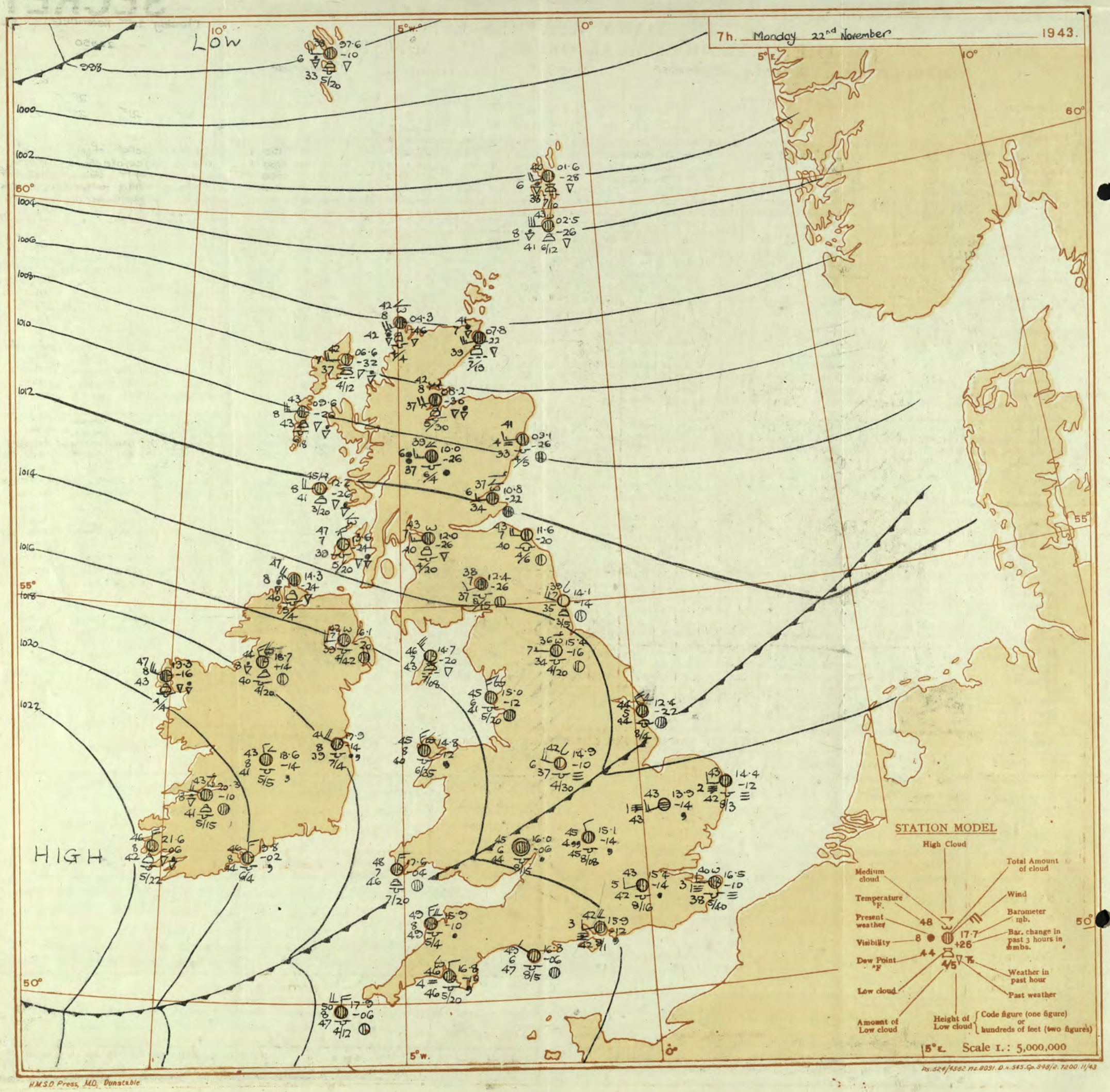
A trough of low pressure over the extreme south of England moving slowly southeast will cause dull conditions there at first with local rain or drizzle and much mist and fog. Otherwise there will be bright intervals and showers, the showers being more frequent in the northwest than in the southeast. Another trough is expected to move southwards across Scotland later, the showers turning to a wintry type behind the trough. It will be mild in the South.

FURTHER OUTLOOK

Cold in north possibly with some snow. Continuing mild in south with some rain spreading from west.

Forecasts issued at 10.30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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

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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 22nd November 1943

No. 29950

OBSERVATIONS at 1 hr. G.M.T. 22nd November

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)	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	*	*	*	*	*	42	*	*	*	*	*	*	*	*	*
	Croydon ...	290	18·4	-14	–	0	rf	41	97	41	2	5	–	–	10	10	300
	S. Farnborough	226	17·7	-22	WSW	1	df	42	97	41	3	5	–	–	10	10	1400
	Boscombe Down	417	18·4	-14	SW	2	d_0d_0	42	97	42	5	5	–	–	10	10	1000
	Thorney Island	10	18·2	-14	–	0	z_0	41	92	40	5	5	–	–	10	10	4100
	Lympne ..	283	18·6	-10	NW'N	2	of	50	92	48	3	5	–	–	10	10	1400
	Manston ...	154	18·6	-10	WNW	1	of	42	92	40	3	5	–	–	10	10	1800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	18·0	-18	W'S	2	m	42	97	42	4	5	–	–	4-6	4-6	1500
	Gorleston ...	5	17·8	-10	NW	2	m	43	92	41	4	6	–	–	10	10	800
	Mildenhall ...	15	16·9	-20	SW'W	3	F+	43	91	40	1	–	–	–	10	10	<150
	Cranwell ...	203	16·2	-18	–	0	dF	45	97	46	1	–	–	–	10	10	<150
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	17·6	-14	–	0	dF	43	97	43	0	–	–	–	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	17·6	-18	N	3	c	49	97	49	7	5	–	–	9+	9+	800
	Bristol ...	209	18·3	-12	S	1	df	46	97	46	2	–	2	–	10	10	500
	Portland Bill ...	32	18·2	-14	N	1	0	48	92	46	1	5	–	–	10	10	2500
	Plymouth ...	86	18·5	-12	–	0	d_0d_0	46	97	46	4	5	–	–	10	10	3000
	The Lizard ...	240	18·6	-14	N	2	c	46	97	46	7	5	–	–	9+	9+	1000
	Scilly (St. Mary's)	163	18·2	-18	N'W	3	c	49	92	47	8	5	–	–	10	10	1800
	Guernsey ...	175															
6	Pembroke ...	142	19·3	-10	NE'N	2	c	48	92	46	7	8	–	–	9+	9+	1500
7	Holyhead (Valley)	32	18·9	-14	N'E	2	c	48	92	46	7	5	–	–	10	10	2300
	Chester (Sealand)	16	17·8	-12	N	2	o/d	47	97	46	6	5	–	–	10	10	1500
8	Manchester ...	230	17·3	-08	NW'W	1	rf	45	97	45	2	–	–	–	10	10	<150
10	Spurn Head ...	29	16·1	-22	WSW	2	F	46	97	45	0	–	–	–	10	10	<150
	Catterick (Sc) ...	192	18·0	-16	NW	1	d_0d_0	46	97	45	5	5	–	–	10	10	2200
	Tynemouth ...	108	16·9	-14	W	3	z_0	46	92	44	6	8	–	–	9+	9+	2500
11	St. Abbs Head	280	15·1	-16	WNW	3	c	44	92	42	7	5	–	–	9	9	1500
	Leuchars ...	36	15·6	-4	WSW	2	z_0	42	75	35	6	3	4	–	1	2-3	5000
12	Renfrew (Abbots L)	19	16·6	-22	SSW	1	z_0	40	92	37	6	5	–	–	1	1	3000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	18·1	-14	N	5	c	49	75	40	8	5	2	–	7-8	10	1500
13A	Tiree	44	17·1	-22	W'N	2	c-bc	44	92	41	7	5	–	–	7-8	7-8	1500
13B	Stornoway ...	12	12·7	-30	SW	4	b-bc/pr	42	85	38	7	3	–	–	2-3	2-3	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	14·4	-28	W	2	b	40	85	44	8	–	–	–	0	0	–
	Wick ...	114	13·1	-26	SW	2	b-bc	38	92	35	8	5	–	–	2-3	2-3	3000
16	Sumburgh ..	19	07·9	-26	W	5	pr	45	85	39	8	2	6	–	7-8	9+	1800
17	Blacksod Point	18	22·1	-18	NW'W	2	bc	46	75	38	8	8	–	–	4-6	4-6	1500
18	Malin Head ...	84	18·5	-24	NW	3	c-bc	46	65	35	8	5	–	–	7-8	7-8	1500
	Aldergrove ...	268	19·9	-12	WNW	2	c-bc	43	85	38	8	5	–	–	7-8	7-8	3000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	23·1	-10	N	4	c	48	75	40	8	5	–	–	9+	9+	2500
	Roches Point	22	21·1	-10	N	3	i_0	49	97	43	7	5	–	–	10	10	800

OBSERVATIONS at 7 hr. G.M.T. 22nd November

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)	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)
London (Kew)	14·8	-10	SW	2	of	42	97	41	3	5	–	–	10	10	1500	1	*
Croydon ...	15·4	-14	SW	2	z_0	43	92	42	5	5	–	–	10	10	1600	1	*
S. Farnborough	15·2	-12	SSW	1	df	43	97	42	2	–	2	–	10	10	400	1	*
Boscombe Down	16·0	-10	NW	2	of+	44	97	44	2	5	–	–	10	10	400	1	*
Thorney Island	15·9	-12	SW'W	2	df	42	97	42	3	–	2	–	10	10	220	1	*
Lympne ..	16·1	-10	W'N	2	c/f	41	97	40	5	5	–	–	9+	9+	1800	1	2
Manston ...	16·5	-10	W'N	2	df+	40	92	38	3	5	3	–	7-8	9+	4000	1	*
Shoeburyness ...	16·0	-16	W	2	m	43	92	41	4	5	–	–	10	10	1500	1	*
Felixstowe ...	15·1	-14	W'S	3	m	44	92	41	4	5	–	–	10	10	1500	0	1
Gorleston ...	14·4	-12	W'S	2	df	43	97	42	2	5	–	–	10	10	800	1	3
Mildenhall ...	13·9	-14	SW	3	dF	43	97	43	1	–	–	–	10	10	<150	1	*
Cranwell ...	13·6	-10	N'W	2	df	45	97	45	3	5	–	–	10	10	1500	1	*
Birmingham ...	15·6	-6	NW	3	m	44	85	40	4	5	–	–	9+	9+	1500	1	*
Upper Heyford	15·1	-14	NNW	2	d_0d_0	45	97	45	4	5	–	–	10	10	800	1	*
Ross-on-Wye	16·0	-6	–	0	z_0	45	97	44	6	5	–	–	10	10	1500	1	*
Hartland Point	15·9	-10	N	3	c/r	49	97	49	8	5	2	–	7-8	9+	1500	1	4
Bristol ...	16·8	-12	–	0	of	44	97	44	2	5	–	–	10	10	1500	1	*
Portland Bill ...	16·3	-6	NW	1	0	49	92	47	6	5	–	–	10	10	2500	1	3
Plymouth ...	16·8	-10	N	2	m	46	97	46	4	5	7	–	7-8	9	2000	1	1
The Lizard ...	17·3	-8	NW	2	e	46	97	46	7	5	–	–	9+	9+	1800	1	3
Scilly (St. Mary's)	17·9	-6	N	4	c	50	85	47	8	5	2	–	4-6	10	1200	1	3
Guernsey ...																	
Pembroke ...	17·6	-4	N'E	3	c	48	92	46	7	8	–	–	9+	9+	2000	1	2
Holyhead (Valley)	14·8	-12	NNW	3	c	45	85	40	8	5	7	–	9	10	3500	1	1
Chester (Sealand)	15·7	-10	NW'N	2	id_0	45	92	43	6	5	2	–	7-8	10	2300	1	*
Manchester ...	15·4	-14	WSW	1	z_0	42	85	39	6	5	–	–	10	10	3300	1	*
Spurn Head ...	12·4	-22	NW	4	0	44	97	44	5	4	–	–	10	10	1500	1	1
Catterick (Sc) ...	15·4	-16	W	1	c-bc	36	92	34	7	5	3	8	4-6	7-8	2000	1	*
Tynemouth ...	14·1	-14	WNW	3	b-bc	39	85	35	7	2	4	–	2-3	2-3	2500	1	2
St. Abbs Head	11·6	-20	W	4	bc	43	92	40	7	4	–	–	4-6	4-6	4000	0	3
Leuchars ...	10·8	-22	WSW	3	z_0	37	92	34	6	–	7	8	0	9+	—	1	*
Renfrew (Abbots L)	12·0	-26	W'S	3	c-bc	43	85	40	7	8	3	–	4-6	7-8	2000	1	*
Eskdalemuir ...	12·4	-26	SW	2	c	38	92	37	7	5	–	–	10	10	1500	1	*
Point of Ayre ...	14·7	-20	NW	5	c	46	92	43	7	9	–	–	9+	9+	800	1	4
Tiree	12·2	-26	W	4	bc/pr	45	85	41	8	2	6	–	2-3	4-6	2000	1	2
Stornoway ...	05·6	-32	W	4	bc/pr	42	85	37	7	9	–	–	4-6	4-6	1200	2	3
Dalwhinnie ...	10·0	-26	WSW	3	ir	39	92	37	6	5	2	–	9	10	1500	1	*
Aberdeen † ...	09·1	-26	WSW	3	m	41	75	33	4	5	–	–	4-6	4-6	2500	1	2
Wick ...	07·8	-22	SW	5	pr	41	92	39	7	9	–	–	9+	10	1500	1	*
Sumburgh ..	02·5	-26	W	6	pr	43	92	41	8	2	3	–	9	9+	1200	1	3
Blacksod Point	19·3	-16	WNW	5	c/pr	47	85	43	8	8	–	–	4-6	9	1500	2	4
Malin Head ...	14·3	-24	WNW	4	pr	47	75	40	8	8	–	–	7-8	7-8	1500	2	4
Aldergrove ...	16·1	-20	WSW	3	c	42	92	39	7	5	3	–	4-6	9+	4200	1	*
Birr Castle ...	18·6	-14	NNW	1	c	43	92	41	8	5	1	–	7-8	10	2500	1	*
Valentia Obsy.	21·6	-6	N	4	c-bc/pr	46	85	42	8	8	–	–	7-8	7-8	2200	1	3
Roches Point	19·8	-2	N	3	c	46	92	44	8	5	–	–	9	9	1800	1	3

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 21st Hrs. (38)
London (Kew)	42	41	40	–	2	0·0
Croydon ...	41	41	40	Tr	1	0·0
S. Farnborough	43	39	39	Tr	3	0·0
Boscombe Down	45	41	40	Tr	3	0·0
Thorney Island	45	37	34	–	Tr	*
Lympne ..	42	36	30	Tr	Tr	0·0
Manston ...	44	40	37	0·3	Tr	0·0
Shoeburyness ...	42	39	34	–	–	0·0
Felixstowe ...	45	41	37	–	–	0·0
Gorleston ...	46	42	41	–	1	0·0
Mildenhall ...	45	42	29	0·6	1	0·0
Cranwell ...	46	45	43	1	2	0·0
Birmingham ...	47	43	39	0·3	0·5	0·0
Upper Heyford	43	42	41	0·5	2	*
Ross-on-Wye	48	44	43	0·3	1	0·0
Hartland Point	50	48	47	1	1	0·0
Bristol ...	47	44	40	4	2	0·0
Portland Bill ...	46	44	*	–	–	*
Plymouth ...	49	45	44	0·5	3	0·1
The Lizard ...	50	46	*	0·5	2	0·2
Scilly (St. Mary's)	53	49	*	3	0·3	0·5
Guernsey ...						
Pembroke ...	50	44	*	Tr	7	0·0
Holyhead (Valley)	50	43	39	1	1	*
Chester (Sealand)	49	45	43	1	0·3	0·0
Manchester ...	47	42	41	Tr	1	*
Spurn Head ...	46	43	*	0·1	3	0·0
Catterick (Sc) ...	50	35	30	Tr	0·1	0·2
Tynemouth ...	51	38	35	1	–	*
St. Abbs Head	52	43	*	–	–	*
Leuchars ...	52	36	29	Tr	–	0·6
Renfrew (Abbots L)	50	39	29	Tr	Tr	0·0
Eskdalemuir ...	47	32	22	0·3	–	0·0
Point of Ayre ...	51	44	*	Tr	0·6	0·0
Tiree	51	43	39	1	2	0·0
Stornoway ...	49	41	38	1	4	1·5
Dalwhinnie ...	48	36	30	–	1	0·0
Aberdeen † ...	51	40	31	–	–	0·0
Wick ...	47	38	32	1	0·1	*
Sumburgh ..	50	42	38	3	3	0·6
Blacksod Point	52	44	*	1	0·8	*
Malin Head ...	51	45		0·4	0·5	0·0
Aldergrove ...	48	41	36	0·3	Tr	0·0
Birr Castle ...	48	42	39	0·2	0·2	0·0
Valentia Obsy.	50	45	41	Tr	0·4	0·9
Roches Point	49	46	*	–	0·1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 21st November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 22nd November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	57	00755	24426	87	81754	23485	20	01763	22413	52	51946	24588
115	87	02844	24466	27	81844	24586	27	81844	57586	87	81844	53587
203	5-	03848	24468									
206	57	02855	24367	57	51854	24316	80	01864	24514	86	25865	53485
210	62	52545	25368	57	02845	24358	50	01854	20314			
219	5-	02856	28466	2-	81846	25386	8-	25847	24487	8-	25846	24586
230	5-	02748	20158	5-	01854	28384	5-	80756	22228	8-	25855	20285
245	57	02863	23228	57	21745	02167	50	01742	24122	57	02854	24325
260	57	05544	22325	50	41454	22144	5-	05681	22211			
278							50	01863	27213	83	25485	14844
279	57	05545	22147	57	05544	24125	50	05663	24223	57	02764	22327
285	57	05635	30327							23	01744	28514
288	57	51664	17157	52	08446	16128	5-	52648	24158	04	01800	25213
575	52	51828	25158	52	02845	00058	51	21755	30158	87	81854	30317
301	5-	41438	28148	52	51446	30158	5-	05664	32358	57	05655	30328
321				--	48009	00049	5-	45248	00058	2-	05555	26245
299	5-	08438	26248	5-	47238	26248	5-	41538	26148	5-	02747	26327
292	52	05544	00058	57	51454	00058	5-	45158	00058	56	01764	28254
310												
614	5-	43338	30148				--	57109	28159	57	08445	30127

III	13h. G.M.T. 21st November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 22nd November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	5-	54418	02358	62	21546	31257	52	52644	28258	52	02855	26227
334												
340	5-	08428	04158				5-	57228	28158	5-	06545	26225
136	--	57109	24259	--	57109	20159	--	46109	20249	--	57109	22269
336										57	05654	24327
350	--	46209	00049				--	46009	00059	--	57209	00059
368	57	05554	24128	5-	08448	00028	5-	45345	32158	5-	47324	32168
379	--	46109	16159	--	46009	22159	--	57109	00059	53	05544	28356
390	53	41434	00047	--	44109	18149	--	57109	00049	--	45018	18148
382	--	57109	00059	--	57109	00059	--	57209	00049	5-	51437	22267
438				5-	05547	32327	5-	05548	00028	5-	62648	26328
430	57	05665	31128	5-	05457	00028	5-	08474	00024	5-	57528	00028
409	5-	57308	32158	5-	52638	32358	5-	21428	32258	5-	52635	30357

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).

§ 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 22nd November
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 ...	offof	cloFof	ofrof	
Croydon ...	oFefe	ofefofe	oFefgmo	
Greenwich ...	FeFe	Fofm	oidof	Kew 24 hours ended 7h. Max. Time 1·2 17-18h Min. Time 21st 0·1 0-7h
Camden Square	o	o	*	
Kensington ..	obof	of	*	
Hampstead ...	o	orf	orf	

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 22nd 15h %	Humidity 22nd 9h % To-day
Kew	42	41	40	–	2	0·0	*	*
Croydon ...	41	41	40	Tr	1	0·0	*	*
Greenwich ...	41	41	38	–	1	0·0	89	98
Westminster ...	45	36	34	3			91	93
Regents Park ...	44	36	34	–	2		87	96
Camden Square	44	37	34	–	3	*	*	98
Kensington ...	43	42	40	–	3		94	99
Hampstead ...	45	40	35	–	3		*	97

SECRET

Page 1 BRITISH SECTION

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

Tuesday 23rd November 1943

No.

OBSERVATIONS at 13h. G.M.T. 22nd November

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)	13·1	-16	NW	1	iro	47	75	42	6	5	2	–	4-6	10	2500
	Croydon	13·8	-10	SW	1	cf+	46	92	44	3	5	–	–	9+	10	1500
	S. Farnborough	13·8	-10	NW	2	c/r	46	85	43	6	5	7	9	9	9+	3000
	Boscombe Down	14·9	-10	NNW	2	roro	45	97	43	6	5	7	–	7-8	10	1600
	Thorney Island	14·5	-12	NNW	1	iro	47	92	45	6	5	7	9	7-8	9+	1500
	Lympne	13·6	-18	W	2	dF	44	97	44	1	5	–	–	10	10	200
	Manston	13·3	-18	W	2	df	44	97	43	3	–	–	–	10	10	<150
2	Shoeburyness	14·7	-12	WNW	1	ido	44	97	44	4	5	–	–	10	10	1500
	Felixstowe	13·1	-10	NW'W	3	o/d	46	85	42	5	5	–	–	10	10	2500
	Gorleston	12·1	-22	NW	2	o/f	45	92	43	5	5	–	–	10	10	800
	Mildenhall	12·3	-14	N'N	3	zo	47	75	40	6	5	7	–	7-8	9+	2500
	Cranwell	11·7	-14	W'N	4	zo	48	75	41	6	–	5	9	0	9	–
3	Birmingham	13·3	-12	NW	3	zo	45	75	38	6	8	–	–	9+	9+	2500
	Upper Heyford	13·8	-10	NWN	3	c	45	85	40	7	5	–	–	2-3	9+	1500
4	Ross-on-Wye	14·3	-16	W	2	b	47	75	39	8	7	–	–	1	1	2500
5	Hartland Point	15·6	-10	N	3	c	47	85	43	9	5	–	–	9	9	2000
	Bristol	15·5	-10	WNW	1	zo	47	92	45	6	2	6	–	7-8	9+	1500
	Portland Bill	15·5	-4	NW	1	o	49	92	47	7	5	–	–	10	10	2500
	Plymouth	16·0	-6	NW	2	c	50	85	46	8	8	3	2	4-6	9	3000
	The Lizard	17·0	-4	NNW	4	c-bc	51	85	47	7	2	3	–	7-8	7-8	1500
	Scilly (St. Mary's)	18·0	-2	NW	4	c	50	75	43	8	3	6	–	9+	9+	1500
	Guernsey															
6	Pembroke	16·6	-6	NNW	4	c	47	85	42	8	8	–	–	9+	9+	2000
7	Holyhead (Valley)	14·7	-18	NW'W	4	c	48	85	44	8	8	–	–	9	9	2500
	Chester (Sealand)	13·6	-14	NW	4	pr	47	85	42	7	9	6	–	9	9+	2000
8	Manchester	13·2	-16	NWW	4	pr	46	85	40	7	3	6	–	9	9+	2500
10	Spurn Head	10·6	-16	WNW	4	zo	46	75	39	5	7	3	–	4-6	7-8	1500
	Catterick (Sc)	11·3	-20	WNW	3	c-bc	45	75	39	8	5	3	9	2-3	7-8	2500
	Tynemouth	10·6	-12	W	3	bc	44	85	39	7	2	3	1	2-3	4-6	2500
11	St. Abbs Head	07·8	-14	W	5	b-bc	46	85	41	7	1	4	5	2-3	2-3	3500
	Leuchars	07·3	-18	W	4	bc	46	75	37	8	5	–	–	4-6	4-6	4000
12	Renfrew (Abbots I.)	09·5	-12	WSW	3	c-bc	48	75	39	8	9	–	–	7-8	7-8	800
	Eskdalemuir	09·4	-26	W	3	c-bc	43	85	38	8	5	–	–	7-8	7-8	1500
	Point of Ayre	12·2	-18	NW'N	5	c	48	85	44	8	9	–	–	9+	9+	2000
13A	Tiree	11·2	-2	WNW	4	bc/pr	46	75	37	8	8	6	–	4-6	4-6	2000
13B	Stornoway	05·8	-6	NW	6	pr	42	85	46	8	9	–	–	4-6	4-6	1000
15	Dalwhinnie		-12	W	3	bc	40	85	35	8	8	–	–	4-6	4-6	1500
	Aberdeen	05·8	-20	WNW	3	b	46	65	35	8	7	–	–	Tr	Tr	2500
	Wick	04·0	-18	W	4	PR	41	85	38	7	9	–	–	9+	9+	1000
16	Sumburgh	98·4	-22	W'S	5	c-bc/phr	44	75	36	8	3	6	3	4-6	7-8	1600
17	Blacksod Point	18·0	-6	WNW	4	bc	48	75	41	8	3	3	–	2-3	4-6	2500
18	Malin Head	12·8	-4	NW	5	pr	46	65	35	8	2	–	–	7-8	7-8	1500
	Aldergrove	13·5	-20	WS	3	bc	46	85	41	8	8	–	–	4-6	4-6	2500
19	Birr Castle	17·2	-14	WNW	2	bc	49	75	42	8	5	–	–	4-6	4-6	2500
20	Valentia Obsy.	20·8	-10	NWN	5	c	50	75	43	8	8	–	–	9	9	2500
	Roches Point	18·8	-18	N	3	bc/pr	48	85	44	8	3	3	–	4-6	4-6	1500

OBSERVATIONS at 18h. G.M.T. 22nd November

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)	12·8	+4	WNW	2	zo	45	85	46	5	5	–	–	10	10	2500
Croydon	13·3	+6	W	1	cf	44	92	42	3	5	–	–	9	10	2000
S. Farnborough	13·5	+6	WNW	2	m	44	92	42	4	5	–	–	10	10	3600
Boscombe Down	15·1	+10	NW'N	2	zo	42	92	39	6	4	7	–	2-3	2-3	2000
Thorney Island	14·3	+2	W'N	2	c/r	44	97	43	5	5	2	–	4-6	10	2500
Lympne	13·1	+4	NW'W	2	m/f	42	97	42	4	5	–	–	10	10	2000
Manston	12·7	-2	W	2	m	43	92	41	4	5	2	–	4-6	10	1500
Shoeburyness	13·3	+2	WSW	2	m	44	92	41	4	5	–	–	10	10	1500
Felixstowe	12·0	0	W'N	4	zo	45	85	41	6	5	–	–	4-6	4-6	4000
Gorleston	10·8	0	NW'W	2	zo	44	92	40	6	5	–	–	7-8	7-8	1500
Mildenhall	11·2	-2	W'S	3	zo	43	92	41	5	5	7	–	4-6	7-8	4200
Cranwell	11·4	0	W	2	m	41	92	39	4	–	7	–	0	4-6	–
Birmingham	12·8	0	WNW	2	m	42	85	38	4	–	–	–	0	0	–
Upper Heyford	13·3	+2	SW	1	bc	42	85	38	7	5	–	–	2-3	4-6	2900
Ross-on-Wye	14·0	+6	WSW	2	b	41	85	38	8	5	–	–	1	1	3000
Hartland Point	15·8	+2	NNW	3	c-bc	48	75	43	8	2	4	–	4-6	7-8	1800
Bristol	15·2	+6	NW	2	b-bc/d	42	92	39	7	4	4	–	2-3	2-3	3100
Portland Bill	14·8	-4	NW	3	c-bc	47	92	45	7	5	–	–	7-8	7-8	4000
Plymouth	16·8	+6	NNW	2	bc/pr	44	85	40	5	8	–	3	2-3	4-6	2000
The Lizard	17·5	+4	NNW	3	bc/pr	43	92	41	8	5	–	–	4-6	4-6	1500
Scilly (St. Mary's)	18·3	+8	N'W	5	c	48	75	41	8	8	–	–	9+	9+	1500
Guernsey															
Pembroke	15·5	0	NW'N	5	cq	49	75	41	8	8	–	–	10	10	2000
Holyhead (Valley)	14·2	+2	NNW	3	bc/pr	44	85	41	8	8	–	–	4-6	4-6	2000
Chester (Sealand)	12·9	+2	NW'N	3	roro	45	85	41	6	5	2	–	7-8	9+	1700
Manchester	12·4	+2	WSW	3	zo	42	92	39	6	4	–	–	4-6	4-6	3000
Spurn Head	09·8	+10	W'N	4	zo	44	85	39	6	7	3	–	4-6	4-6	2500
Catterick (Sc)	10·1	+4	WNW	3	b	42	85	37	7	–	–	–	0	0	–
Tynemouth	09·7	+4	W	4	zo	43	85	38	6	2	–	–	2-3	2-3	2500
St. Abbs Head	07·4	+6	W	5	b-bc	43	85	38	7	5	–	–	2-3	2-3	4000
Leuchars	07·6	+6	WNW	4	b-bc	44	55	30	8	5	–	–	1	2-3	4500
Renfrew (Abbots I.)	10·0	+4	W'S	3	b	41	75	34	7	5	4	–	1	1	3000
Eskdalemuir	10·3	+12	WNW	3	b	37	85	32	8	–	–	–	0	0	–
Point of Ayre	12·0	+8	N'E	6	bc	46	85	42	8	9	–	–	4-6	4-6	2000
Tiree	11·6	+4	WNW	5	PR	42	92	40	8	8	–	–	9	9	1500
Stornoway	06·2	+6	WNW	5	b-bc/pr	39	85	33	8	8	–	–	2-3	2-3	1500
Dalwhinnie	07·0	0	NW	4	b-bc	36	75	28	8	5	–	–	0	2-3	–
Aberdeen	06·1	+4	WSW	2	b	39	75	30	7	5	–	–	1	1	4000
Wick	03·3	-2	WNW	5	PHR	37	85	34	8	3	–	–	10	10	1500
Sumburgh	96·5	-10	W	6	bc	41	75	32	8	3	6	3	4-6	4-6	1800
Blacksod Point	17·7	0	NW	3	c-bc	43	85	41	8	3	–	–	7-8	7-8	2500
Malin Head	13·2	+4	NW'W	5	pr	45	55	31	8	2	–	1	4-6	7-8	1500
Aldergrove	14·1	+6	WNW	2	b	41	85	36	8	4	–	–	1	1	2500
Birr Castle	16·8	+2	N	2	b	43	85	39	8	–	–	–	0	0	–
Valentia Obsy.	20·4	+6	NNW	3	bc	48	75	41	8	3	–	–	4-6	4-6	2500
Roches Point	18·7	+6	NNW	3	bc	46	85	42	8	3	3	–	2-3	4-6	1500

PAST 24 HOURS.

Stations	State of Ground 0–9 (31)	Sea 0–9 (32)	Weather 7h.–13h. 22nd (39)	Weather 13h.–18h. 22nd (40)	Weather 18h. 22nd to 1h. 23rd (41)	Weather 1h.–7h. 23rd (42)
London (Kew)	1	*	Ddofcromo	cirocmo	cbcmo	bcfx
Croydon	1	*	Ododofcf	cfoddcmcf	bfbm	bm
S. Farnborough	1	*	cdfmidofomo	ciromocm	cbmbcbmo	bmomxfebcm
Boscombe Down	1	*	cirocromo	cromocmo	bcmobmo	bmox
Thorney Island	1	*	oidofciro	ciromo	bcmocmobcm	bcmbmo
Lympne	1	§2	cmoidoddm	odedfoddg	cmmob	bbcbmx
Manston	1	*	cfcmocbdo	ofcm	cbccbm	bm
Shoeburyness	1	*	cmooddrdm	omcm	cmb cmo	bcmox
Felixstowe	0	2	cddomocmo	cbcmo	bcmobmo	bmox
Gorleston	1	2	offmo	czo	cbcbzow	bwbczw
Mildenhall	1	*	ofdodocmo	czocmocm	bcmobmo	bmobmox
Cranwell	0	*	bcmocmo	cmobcmo	cxbm	bm
Birmingham	1	*	cmopr	czbm	bm	bmcz
Upper Heyford	1	*	ododobmoc	cjpbcc	bcbmo	bcbmox
Ross-on-Wye	1	*	comorc	bccbcb	bccb	bx
Hartland Point	1	4	c	irerc	bcb	bc
Bristol	1	*	ododofororf	cmopr	b	bbxbcx
Portland Bill	1	3	o	c	bcbc	bcbc
Plymouth	1	1	cmoc	bcprobc	bmobcmobmo	bmbf
The Lizard	1	3	cidc	cbcpr	bcpr	bcprc
Scilly (St. Mary's)	1	4	cpoc	c	c	bc
Guernsey						
Pembroke	1	2	c	cq	cbc	bcc
Holyhead (Valley)	1	3	cprobc	cbcpr	bcb	b,c
Chester (Sealand)	1	*	cmoidopro	cprororomo	mororopro	bcmoc
Manchester	1	*	cirobcmo	cprobc	bcmopro	cprobcmo
Spurn Head	0	3	cmo	cmo	b	bccmo
Catterick (Sc)	1	*	mcbc	cbcb	bcbcmo	bcmocmo
Tynemouth	1	3	bcmo	bcmo	bcmo	bccmo
St. Abbs Head	0	5	bccbc	bcb	bbc	cbcc
Leuchars	1	*	cmobbc	bcby	bybcbmo	bmocmow
Renfrew (Abbots I.)	1	*	cmobccprc	cbcprobcb	bbcprobc	bccdomo
Eskdalemuir	1	*	proiroc	cirobcb	b	bcpR
Point of Ayre	1	4	c	cprbc	prbc	bcc
Tiree	1	3	bcbcprobc	cprocpr	cprobc	procro
Stornoway	1	4	bcpropHbcpr	bcpHcprbcmo	cbcprobc	bccrorcmo
Dalwhinnie	1	*	cprbc	bccprsbc		bco
Aberdeen	1	2	bccbczbcb	b	bbx*	bccbzx
Wick	1	*	cproccpr	cprobcph	cpSobc	ccpScSo
Sumburgh	1	4	cproh	bcphpc	bcpSobc	bcphcpsb
Blacksod Point	1	3	pr	pr	bc	r
Malin Head	2	4	pr	pr	pr	r
Aldergrove	1	*	cbcpro	bcprobc	b	bbcciroc
Birr Castle	1	*	bc	b *	*	c
Valentia Obsy.	1	2	pr	pr	bc	pr
Roches Point	1	3	pr	bc	bc	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 23rd November 1943

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Moderate to strong southwest wind veering west; a period of rain evening or night, then bright intervals and scattered showers; mild tonight, somewhat colder tomorrow.
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 ♆	Fresh or strong southwest wind, veering west to northwest, reaching gale locally; rain at first, then showers with local hail and sleet but bright intervals; rather cold.
13B N.W. Scotland ♆; 14 Mid Scotland ♆; 15 N.E. Scotland ♆	Wind south to variable finally northwest, fresh or strong at times, reaching gale locally; rain at first, wintry showers later; with snow on hills; cold.
16 Orkneys and Shetlands ♆	As 13B - 15
17 N. W. Ireland ♆; 18 N. E. Ireland ♆; 19 S. E. Ireland ♆; 20 S. W. Ireland ♆	Wind west to northwest strong to gale, showery, some bright intervals; becoming colder.

GENERAL INFERENCE

A deep depression off northwest Scotland is moving east, and it will be accompanied by strong winds with gales at exposed places, at least in the North; a belt of rain will cross the British Isles, followed by broken clouds and showers.

FURTHER OUTLOOK

Showers, chiefly in west and extreme north, but bright intervals; snow on high ground in north; rather cold generally; secondary disturbance moving east southeast from South Greenland.

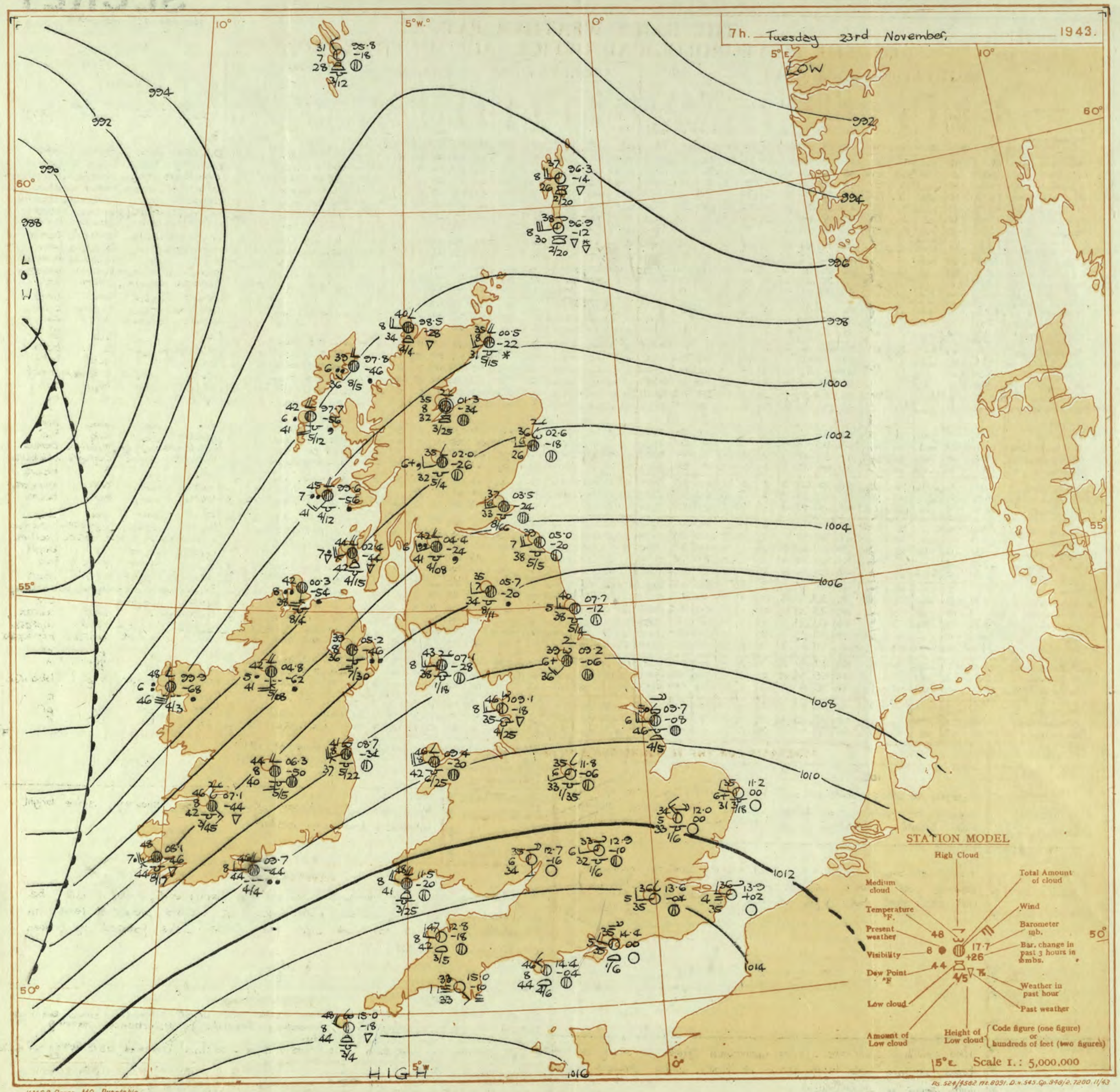
♆ Gale warning in operation in districts 7, 8, 11 - 20, incl issued at 03.15 G.M.T, 05.50 G.M.T. Nov 23rd.

Forecasts issued at 10.30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.

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

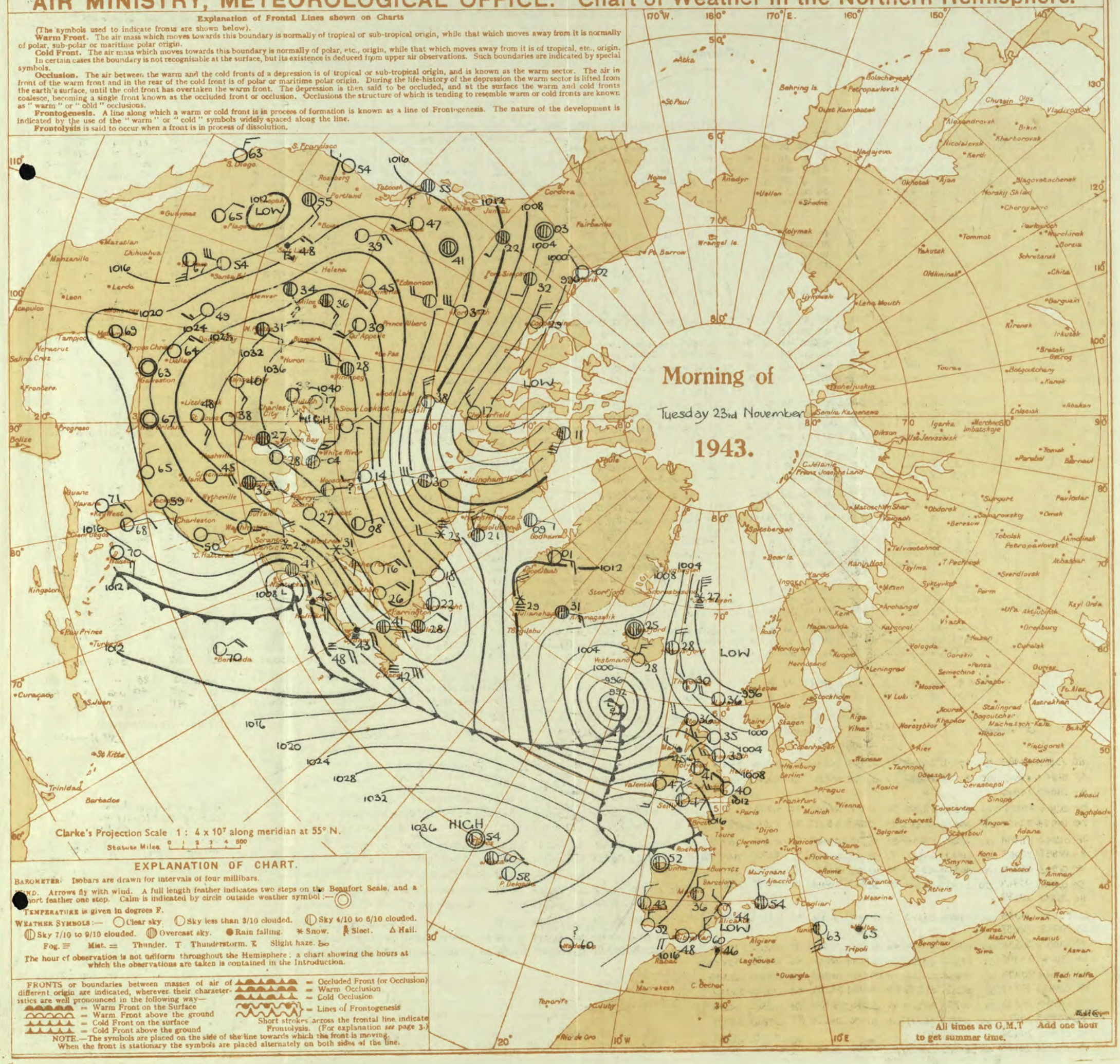
7h. Tuesday 23rd November, 1943.



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

Rs. 524/4582 Wt. 8051. D.v.545. Gp. 348/2. 7200. 11/43

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.

Tuesday 23rd November 1943

No.

OBSERVATIONS at 1 hr. G.M.T. 23rd November

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	*	*	*	*	*	39	*	*	*	*	*	*	*	*	*
	Croydon	290	14·1	+2	W	3	m	40	92	37	4	5	–	–	Tr	Tr	4000
	S. Farnborough	226	14·4	+2	W'N	2	z	37	97	36	6	5	–	–	Tr	Tr	3000
	Boscombe Down	417	15·4	+2	NNW	2	z	35	97	35	6	–	–	–	0	0	–
	Thorney Island	10	14·5	0	WNW	1	m	39	97	38	4	5	–	–	2-3	2-3	4000
	Lympne	283	13·5	+2	NNW	2	m	38	92	36	4	–	–	–	0	0	–
	Manston	154	13·2	+2	NW'	2	m	38	92	36	4		–	–	0	0	–
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	12·5	+2	W'N	3	z	40	92	38	6	–	–	–	0	0	–
	Gorleston	5	11·2	0	WNW	2	z	37	92	35	6	–	–	–	0	0	–
	Mildenhall	15	12·1	+2	WSW	3	z	35	97	34	6	–	–	–	0	0	–
	Cranwell	203	12·0	+2	W	3	m	37	97	36	4	–	–	–	0	0	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	14·0	+4	W'N	1	z	34	97	33	6	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	15·4	-2	NNW	3	bc	47	85	43	8	2	–	–	4-6	4-6	2500
	Bristol	209	15·5	+2	WSW	2	b	37	97	36	7	–	4	–	0	Tr	–
	Portland Bill	32	15·6	+4	NW	3	bc	46	92	44	7	5	–	–	4-6	4-6	4000
	Plymouth	86	16·8	+2	–	0	z	38	97	38	6	5	–	–	1	1	2500
	The Lizard	240	17·4	-6	NW	3	bc/pr	43	92	40	8	5	–	–	4-6	4-6	2000
	Scilly (St. Mary's)	163	18·1	-10	NNW	4	bc/pr	47	85	42	8	8	–	–	4-6	4-6	1200
	Guernsey	175															
6	Pembroke	142	16·1	-4	NW'N	3	b-bc	45	85	38	8	2	–	–	2-3	2-3	2500
7	Holyhead (Valley)	32	14·0	-4	NW	2	b	41	85	36	8	1	–	–	Tr	Tr	3000
	Chester (Sealand)	16	13·1	-2	–	0	z	41	85	36	6	5	–	–	4-6	4-6	2500
8	Manchester	230	13·2	+6	SW'W	2	z	37	92	35	5	2	–	–	1	1	2500
10	Spurn Head	29	10·1	+2	W	4	b	41	85	36	7	–	–	–	0	0	–
	Catterick (Sc)	192	10·4	-4	WNW	3	z	37	75	31	6	–	–	5	0	4-6	–
	Tynemouth	108	09·9	-4	W	3	z	39	85	34	6	–	4	–	0	2-3	–
11	St. Abbs Head	280	07·6	-2	SW	5	b-bc	39	85	36	7	4	–	–	2-3	2-3	4000
	Leuchars	36	07·4	0	SW	3	z	34	85	31	6	5	–	–	1	1	3000
12	Renfrew (Abbots I.)	19	08·7	-10	SW'W	2	bc/pr	41	85	37	7	8	–	–	4-6	4-6	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	12·4	+2	NW'N	5	pr	46	75	39	8	9	–	–	4-6	4-6	2000
13A	Tiree	44	08·9	-18	WNW	2	b-bc	40	85	37	8	2	–	–	2-3	2-3	2000
13B	Stornoway	12	05·3	-2	WNW	4	b-bc/pr	36	85	33	7	3	–	–	2-3	2-3	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	05·1	-4	W	3	b	35	85	31	8	5	–	–	1	1	3000
	Wick	114	03·2	0	NW'N	5	bc	34	92	31	7	9	–	–	4-6	4-6	1000
16	Sumburgh	19	98·4	+2	NW'W	5	b-bc/ps	37	75	30	8	3	–	–	2-3	2-3	2000
17	Blacksod Point	18	12·4	-30	SW	5	c-bc	47	75	39	8	5	–	–	7-8	7-8	2500
18	Malin Head	84	09·7	-22	WNW	3	pr	45	75	37	8	2	–	–	7-8	7-8	1500
	Aldergrove	268	12·3	-16	WSW	1	b	36	92	34	8	–	–	–	0	0	–
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	16·5	-24	S'W	3	b-bc	47	85	43	8	2	–	–	2-3	2-3	2500
	Roches Point	22	17·3	-14	NW	3	b-bc	44	92	42	8	5	–	–	2-3	2-3	2500

OBSERVATIONS at 7 hr. G.M.T. 23rd November

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)	13·0	-2	SSW	2	bcf	36	92	32	3	5	–	6	1	4-6	2500	1	*
Croydon	13·6	-4	W	2	z	36	92	35	5	–	4	–	0	Tr	–	1	*
S. Farnborough	14·0	-2	WNW	1	m/f	30	97	30	4	–	7	5	0	4-6	–	3	*
Boscombe Down	14·5	-6	–	0	z	31	97	31	5	–	7	–	0	2-3	–	1	*
Thorney Island	14·4	0	NW'W	2	z	35	97	35	5	1	–	2	Tr	2-3	4000	1	*
Lympne	13·9	0	NNW	3	m	34	97	34	4	–	–	1	0	Tr	–	1	§2
Manston	13·9	+2	W'N	2	m	36	97	35	4	–	–	1	0	Tr	–	1	*
Shoeburyness	13·8	0	W	3	bc	36	97	35	5	5	–	–	4-6	4-6	2500	1	*
Felixstowe	12·5	0	WNW	4	z	37	92	34	6	–	3	–	0	Tr	–	c	2
Gorleston	11·2	0	NW'W	2	z	35	85	31	6	5	–	–	2-3	2-3	1800	1	3
Mildenhall	12·0	0	NW	3	z	34	92	33	5	5	–	2	Tr	2-3	4000	1	*
Cranwell	10·9	-6	W	3	m	35	97	34	4	5	–	–	4-6	4-6	3000	0	*
Birmingham	12·3	-8	SW	2	z	36	92	34	6	–	–	6	0	7-8	–	1	*
Upper Heyford	12·9	-10	WSW	1	z	33	97	32	6	5	–	1	Tr	1	4000	1	*
Ross-on-Wye	12·7	-16	S'W	1	z	35	97	34	6	–	–	2	0	2-3	–	1	*
Hartland Point	12·8	-18	WNW	3	b-bc	47	85	42	8	1	–	–	2-3	2-3	2500	1	4
Bristol	13·9	-10	–	0	b	37	92	35	7	–	3	1	0	1	–	1	*
Portland Bill	14·4	-4	NW	3	bc	46	92	44	8	1	–	–	4-6	4-6	4000	1	3
Plymouth	15·0	-10	SE	1	bF+	33	97	33	1	–	–	–	0	0	–	1	1
The Lizard	15·3	-12	WNW	3	c-bc	47	75	40	7	8	–	–	7-8	7-8	2000	1	3
Scilly (St. Mary's)	15·0	-18	NW'W	4	bc	48	85	44	8	8	7	–	2-3	4-6	1500	1	
Guernsey																	
Pembroke	11·5	-20	W'N	4	c	48	75	41	8	8	2	–	2-3	10	2500	0	2
Holyhead (Valley)	09·4	-30	SW	4	c	46	85	42	8	5	1	–	9	10	2500	1	5
Chester (Sealand)	10·6	-16	WSW	2	z	41	85	36	5	5	1	–	Tr	10	3500	1	*
Manchester	10·8	-10	S	3	z	37	85	34	6	4	6	–	4-6	9	4000	1	*
Spurn Head	09·7	-8	WSW	4	z	50	85	46	6	7	7	2	4-6	7-8	2500	0	3
Catterick (Sc)	09·2	-6	SSW	3	z	39	85	36	6	–	3	6	0	10	–	1	*
Tynemouth	07·7	-12	W	3	z	40	92	38	5	5	–	–	7-8	7-8	1500	1	2
St. Abbs Head	05·0	-20	SW	4	c-bc	39	97	38	7	5	–	–	7-8	7-8	2500	0	4
Leuchars	03·5	-24	WSW	2	z	37	85	33	6	5	–	–	10	10	6600	1	*
Renfrew (Abbots I.)	04·4	-24	SW	2	dodo	42	97	41	6	5	2	–	4-6	10	800	1	*
Eskdalemuir	05·7	-20	SW'W	2	c	35	97	34	7	5	–	–	10	10	1100	1	*
Point of Ayre	07·1	-28	W'S	3	c	43	85	38	8	4	–	7	Tr	10	1800	4	3
Tiree	99·6	-36	SSW	3	roro	45	85	41	7	5	2	–	4-6	10	1200	1	2
Stornoway	97·8	-46	SSW	2	roro	39	92	36	6	–	2	–	10	10	2500	2	2
Dalwhinnie	02·0	-26	SW	2	ido	35	85	32	6	5	1	–	7-8	10	1500	1	*
Aberdeen †	02·6	-18	SW'W	2	z	36	65	26	6	–	5	7	0	10	–	1	2
Wick	00·5	-22	SW	3	c	35	85	31	8	5	2	–	7-8	9+	1500	1	*
Sumburgh	96·9	-12	W'S	6	b/ps	38	75	30	8	3	–	3	1	1	2000	4	4
Blacksod Point	99·9	-68	S'W	6	ir	48	92	46	6	6	2	–	4-6	10	800	1	5
Malin Head	00·3	-54	S'W	4	roro	42	85	38	8	5	–	–	10	10	1500	2	4
Aldergrove	05·2	-46	S	3	c/r	39	92	36	8	5	–	–	9+	9+	3000	1	*
Birr Castle	06·3	-50	S	3	c	44	85	40	8	5	2	–	7-8	10	2500	1	*
Valentia Obsy.	08·1	-46	SW'S	5	ir	48	85	44	7	5	–	–	10	10	1700	1	4
Roches Point	09·7	-44	W	2	c/r	46	92	44	8	6	2	–	4-6	10	1500	1	3

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 22nd Hrs. (38)
London (Kew)	47	35	22	1	Tr	0·0
Croydon	46	35	30	2	Tr	0·0
S. Farnborough	47	30	20	1	–	0·0
Boscombe Down	46	31	25	0·6	Tr	0·1
Thorney Island	48	34	29	1	–	*
Lympne	44	34	29	2	–	0·0
Manston	46	35	31	2	–	0·0
Shoeburyness	45	35	27	1	–	0·0
Felixstowe	46	35	30	1	–	0·0
Gorleston	46	34	31	1	–	0·0
Mildenhall	47	33	27	2	–	0·4
Cranwell	47	34	31	–	–	1·5
Birmingham	46	35	31	Tr	–	0·4
Upper Heyford	47	31	25	Tr	–	*
Ross-on-Wye	48	33	25	0·5	–	2·2
Hartland Point	50	45	41	1	–	0·2
Bristol	47	35	23	21	0·1	0·9
Portland Bill	49	43	*	–	–	*
Plymouth	52	33	28	Tr	–	0·9
The Lizard	51	41	*	0·6	2	3·5
Scilly (St. Mary's)	51	47	*	Tr	2	1·0
Guernsey						
Pembroke	50	42	*	–	–	2·5
Holyhead (Valley)	49	40	34	1		*
Chester (Sealand)	47	40	33	3	0·6	2·1
Manchester	48	35	31	0·2	Tr	*
Spurn Head	46	39	*	–	–	1·1
Catterick (Sc)	48	35	28	–	–	2·8
Tynemouth	47	38	33	–	–	*
St. Abbs Head	46	37	*	–	–	*
Leuchars	49	33	27	–	–	6·1
Renfrew (Abbots I.)	47	39	30	1	0·2	3·5
Eskdalemuir	45	32	24	0·2	1	2·8
Point of Ayre	49	40	*	1	1	1·4
Tiree	47	38	*	2	3	2·2
Stornoway	44	34	29	1	1	2·0
Dalwhinnie	42	32	28	2	Tr	2·5
Aberdeen †	46	35	26	–	–	4·4
Wick	43	40	32	3	2	*
Sumburgh	46	35	32	3	1	0·4
Blacksod Point	49	43	*	2	1	*
Malin Head	51	42		2	1	3·0
Aldergrove	47	35	28	0·2	Tr	1·3
Birr Castle	50	32	28	–	–	4·1
Valentia Obsy.	50	45	40	0·6	1	1·6
Roches Point	51	41	*	0·1	0·2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 22nd November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 23rd November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	86	25854	24485	3-	27755	58785	3·	25754	26384	5-	01854	24184
115	87	81844	61587	87	81744	57686	24	02854	61624	21	02844	24487
203	8-	81848	24588									
206	86	01964	20584	36	81854	53685	9-	81847	28287	30	02853	00028
210	36	10854	22414	4-	02854	26484	8-	02865	58425	50	01864	25214
219	26	01844	28514	8-	81845	52685	8-	81745	28488	52	61645	16458
230	8-	81857	26587	8-	81857	61587	8-	25758	26288	8-	81758	00088
245	50	01953	25302	00	00850	24320	50	01851	24311	57	02754	28117
260	50	05663	24413	50	05652	23312	54	05693	20414	50	61678	20418
276	86	25844	27485									
279	26	02854	24385	40	01853	22323	50	01764	22214	50	02754	24317
285	23	81746	30587									
288	13	01862	20324	00	01790	21312	00	00790	25301	57	02862	18215
575	86	81644	24486	54	01754	28284	50	05644	19214	62	61536	49468
301	84	02864	25425	57	25854	26484	40	25863	24303	46	01854	21384
321	17	05693	26226	50	08453	24223	50	08462	24202	54	05566	22227
299	57	02744	26216	00	00790	26200	00	00790	26300	80	01754	24214
292	57	02855	24227	50	01753	26313	04	01790	24201	5-	05667	20227
310	36	05626	24426							20	01623	20416
614	57	05554	26127	40	05552	24212	5-	08454	26114	00	05590	28200

III	13h. G.M.T. 22nd November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 23rd November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	27	25755	28386	2-	02755	26386	20	01753	26113			
334	--	25646	28287	--	63637	28188				--	05545	00016
340	74	02943	28365	8-	81747	30287	5-	01751	22211	07	05690	20215
136	57	05565	24347	00	05590	22313	00	05590	23300	03	05690	24204
336	50	02756	28316	50	01754	28314				57	05654	24327
350	5-	05644	26267	50	05661	24221	00	05590	22200	00	05590	20203
368	83	02853	28255	84	01653	28284	00	05690	18110	53	05553	17777
379				50	22754	26264	00	00790	26210	00	01790	26314
390	52	08455	26157	5-	08478	24129	00	08490	24100	04	41490	22243
382	57	05694	28128	5-	05667	28157	50	05661	26121	53	47261	00003
438	5-	67248	28368	5-	25448	28288				04	02790	30313
430	57	61664	30146	5-	05558	28223	50	05674	24324	50	08442	28212
409	7-	02946	30328	80	01854	30484	50	01854	30211	27	02854	15286

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 November
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	Ddofcromo	Cirocmo	bcfx
Croydon	Ododofcf	cfoddcm	bf bm
Greenwich	oidrfcm	crocm	dbcbxf
Camden Square	orf	cm	*
Kensington	ofrom	om	*
Hampstead			

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0·5 Time 9–11h 22nd; Min. 0·1 Time 0–5h 23rd

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	47	35	22	1	Tr	0·0	*	*
Croydon	46	35	30	2	Tr	0·0	*	*
Greenwich	46	33	23	1	Tr	0·0	83	89
Westminster	47	33	27				95	39
Regents Park	46	35	29	1	–		88	95
Camden Square	46	34	25	0·3	–	*	*	96
Kensington	47	34	22	1	0·1		96	93
Hampstead							*	

SECRET

Page 1

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

BRITISH SECTION

Wednesday 24th Nov: 1943

No. 29952.

OBSERVATIONS at 13h. G.M.T. 23rd November

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)	10·6	-28	SW'S	4	zo	44	75	38	6	5	7	8	1	10	4000
	Croydon	10·0	-34	SSW	3	zo	44	75	38	6	-	7	7	0	10	—
	S. Farnborough	09·6	-34	SW'S	2	c	44	85	39	7	-	7	8	0	9+	—
	Boscombe Down	10·2	-38	SSW	3	zo	41	92	39	6	-	9	8	0	9+	—
	Thorney Island	10·9	-30	SSW	3	fg	48	75	42	7	-	7	-	0	10	—
	Lympne	11·4	-24	SW	2	zo	44	85	40	6	-	7	-	0	10	—
	Manston	11·4	-18	SW'W	3	zo	45	75	37	6	-	-	7	0	10	—
2	Shoeburyness	11·2	-20	SSW	3	zo	44	85	40	6	-	-	7	0	10	—
	Felixstowe	09·9	-22	SW	4	m	44	85	41	4	-	2	-	0	10	—
	Gorleston	08·9	-22	SW'W	3	zo	42	85	36	6	5	1	—	7-8	9+	2500
	Mildenhall	08·4	-30	SW'S	3	zo	43	85	37	6	-	9	-	0	9+	—
	Cranwell	06·0	-40	SW	4	c	43	75	36	7	5	3	6	Tr	9	3000
3	Birmingham	06·6	-48	SSW	3	zo	41	85	37	6	5	7	-	4-6	10	1500
	Upper Heyford	09·0	-30	SSW	3	zo	42	85	38	6	-	7	9	0	9+	—
4	Ross-on-Wye	06·0	-50	SSW	4	ido	45	85	40	6	6	1	-	7-8	10	1500
5	Hartland Point	05·1	-54	WSW	5	ir	48	97	48	7	8	2	-	7-8	10	800
	Bristol	08·5	-40	SSW	3	c	45	85	39	7	5	7	-	4-6	10	4500
	Portland Bill	10·9	-30	SW	4	c	51	85	47	8	2	4	-	4-6	10	4000
	Plymouth	09·6	-38	SW'W	5	ir	51	85	45	7	5	-	-	10	10	2000
	The Lizard	10·8	-30	WSW	6	c	50	85	46	7	8	2	-	9	10	1500
	Scilly (St. Mary's)	08·3	-48	SW'W	6	iro	50	92	47	7	5	-	-	10	10	1000
	Guernsey															
6	Pembroke	03·2	-44	WSW	7	dd	50	97	49	6	8	2	-	7-8	10	1500
7	Holyhead (Valley)	99·7	-54	S'W	7	iro	49	97	48	5	-	2	-	10	10	600
	Chester (Sealand)	02·8	-54	S'E	3	zo	44	85	39	6	5	7	-	7-8	10	3500
8	Manchester	03·4	-50	S	5	c/r	42	85	38	6	5	7	-	4-6	10	3000
10	Spurn Head	05·3	-34	SSW	4	co	43	75	37	6	7	3	-	4-6	7-8	1500
	Catterick (Sc)	02·1	-50	S	4	m	42	85	37	4	5	2	-	7-8	10	600
	Tynemouth	99·4	-60	SSW	5	m	42	85	37	4	8	-	-	9+	9+	2000
11	St. Abbs Head	95·0	-66	SSW	5	iro	41	92	39	7	8	2	-	7-8	10	2000
	Leuchars	92·9	-66	S	4	ir	43	85	39	6	5	2	-	7-8	10	2000
12	Renfrew (Abbots I.)	91·3	-82	SSW	5	dd	45	85	41	6	5	2	-	7-8	10	400
	Eskdalemuir	94·4	-70	SSW	6	RR	41	97	40	6	6	2	-	2-3	10	900
	Point of Ayre	95·0	-78	W'S	6	roro	46	92	44	8	9	-	-	10	10	2000
13A	Tiree	85·0	-70	WSW	5	o/r	48	92	46	7	6	-	-	10	10	600
13B	Stornoway	82·3	-76	SSE	8	RR	44	92	42	6	6	2	-	9+	10	800
15	Dalwhinnie	89·0	-84	S	4	rr	37	92	34	5	5	2	-	9	10	1500
	Aberdeen	92·6	-68	SSW	3	c	42	85	37	6	5	2	-	7-8	10	800
	Wick	89·5	-74	SSE	4	c	41	85	37	8	5	2	-	4-6	10	600
16	Sumburgh	91·4	-40	W	1	psh	38	85	33	8	4	-	6	9	9+	2500
17	Blacksod Point	93·1	-22	W'S	7	o/r	49	75	42	7	6	-	-	10	10	800
18	Malin Head	87·8	-36	SW	7	ir	49	85	45	8	5	-	-	10	10	800
	Aldergrove	92·0	-66	S'W	5	roro	45	92	43	5	5	-	-	7-8	10	800
19	Birr Castle	96·6	-44	SW	3	c	50	85	46	7	8	7	-	7-8	9	1500
20	Valentia Obsy.	01·4	-18	W'S	5	c/r	52	85	48	8	5	7	-	7-8	10	1400
	Roches Point	00·1	-56	WSW	[illegible]	c/r	50	[illegible]	50	8	6	1	-	4-6	10	800

OBSERVATIONS at 18h. G.M.T. 23rd November

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)	01·9	-42	SW'S	4	c	46	85	42	7	5	2	-	4-6	10	4000	1	*
	Croydon	03·2	-42	S'W	4	zo	47	85	42	6	5	7	-	4-6	9+	3000	0	*
	S. Farnborough	02·5	-42	SW	4	roro	47	85	43	6	5	2	-	4-6	10	1000	1	*
	Boscombe Down	02·6	-44	SW'S	6	rr	46	97	45	6	6	2	-	7-8	10	800	1	*
	Thorney Island	04·3	-24	SSW	5	iro	50	85	44	6	5	7	-	7-8	10	4000	1	*
	Lympne	04·9	-42	WNW	5	iro	47	85	43	6	9	2	-	7-8	10	2100	1	§5
	Manston	06·5	-20	SW	4	zo	47	75	40	6	2	7	-	Tr	10	2500	1	
2	Shoeburyness	04·8	-16	S	3	zo	45	85	40	5	5	3	-	2-3	7-8	2500	1	*
	Felixstowe	03·7	-38	SSW	5	zo	46	85	44	6	-	2	-	0	10	-	0	4
	Gorleston	03·1	-38	SW	4	zo	42	85	37	6	5	-	-	10	10	1500	1	4
	Mildenhall	00·9	-46	S'W	4	zo	45	75	39	4	5	7	-	9	10	2500	1	*
	Cranwell	97·1	-24	SSW	4	ic	44	85	40	6	5	-	-	10	10	1500	1	*
3	Birmingham	96·6	-46	S	4	iro	45	92	43	6	6	2	-	9	10	800	1	*
	Upper Heyford	99·4	-50	SSW	5	iro	45	92	43	6	6	2	-	7-8	10	800	1	*
4	Ross-on-Wye	97·0	-50	SSW	5	ido	47	92	45	6	6	1	-	9+	10	1000	1	*
5	Hartland Point	98·1	-28	WSW	6	ir	51	97	51	6	5	2	-	7-8	10	800	1	5
	Bristol	99·7	-52	SSW	5	iro	48	85	44	6	5	-	-	10	10	1300	1	
	Portland Bill	04·3	-22	SW	5	o	51	85	47	7	5	-	-	10	10	2500	1	4
	Plymouth	02·1	-26	SW	7	DD	52	97	52	6	5	-	-	10	10	600	1	4
	The Lizard	02·9	-24	SW	7	roro	51	85	47	6	5	-	-	10	10	1000	1	6
	Scilly (St. Mary's)	02·8	-16	W	6	c/r	51	97	50	7	5	7	-	4-6	9+	1200	1	5
	Guernsey																	
6	Pembroke	96·8	-10	W'N	8	c/r	51	92	49	7	8	2	·	9+	10	1500	1	5
7	Holyhead (Valley)	92·2	-36	WSW	6	c	51	85	47	8	5	7	-	2-3	10	3000	1	5
	Chester (Sealand)	92·8	-22	S'W	3	dodo	50	92	46	6	5	2	-	9	10	2200	1	*
8	Manchester	93·1	-46	S'W	6	iro	45	92	43	6	6	2	-	9	10	700	1	
10	Spurn Head	95·9	-52	SSW	7	cq	43	85	39	6	5	2	-	4-6	10	1500	1	4
	Catterick (Sc)	89·6	-68	SSW	6	iro	45	92	43	5	5	2	-	7-8	10	2300	1	
	Tynemouth	88·6	-56	SSW	6	zo	44	92	41	6	8	-	-	9+	9+	1500	1	3
11	St. Abbs Head	85·4	-22	SSW	4	c	43	97	43	7	5	-	·	9+	9+	1500	1	4
	Leuchars	81·9	-58	SSW	5	c	47	97	45	7	5	2	-	9	9+	2500	1	*
12	Renfrew (Abbots I.)	83·2	-22	WSW	5	PR	47	85	43	7	9	-	-	7-8	10	2700	1	*
	Eskdalemuir	85·2	-34	SW'S	5	rr	45	92	43	4	6	2	-	2-3	10	200	1	*
	Point of Ayre	88·0	-20	W'N	5	pr	49	85	46	8	9	2	3	9	10	1800	1	4
13A	Tiree	76·7	-56	SW	5	obcq/pr	48	75	41	8	8	-	-	7-8	7-8	1800	1	4
13B	Stornoway	75·3	-34	SSW	4	c/pr	45	85	40	7	8	2	-	7-8	10	1200	2	3
15	Dalwhinnie	78·5	-42	SW	3	c/r	41	85	37	6	5	-	-	9+	9+	1500	1	*
	Aberdeen	81·3	-57	SSW	3	c/r	43	92	43	6	5	2	-	9	10	800	1	2
	Wick	79·2	-42	S	5	bc	43	85	38	8	5	-	-	4-6	4-6	1500	1	*
16	Sumburgh	81·7	-62	SE	6	roro	43	85	40	6	5	2	-	7-8	10	1800	1	3
17	Blacksod Point	86·3	-40	W'N	7	bc/pr	48	75	41	7	9	-	-	4-6	4-6	800	2	6
18	Malin Head	81·0	[illegible]	NW'N	[illegible]	pr	46	75	39	7	8	-	-	7-8	7-8	1500	2	4
	Aldergrove	86·1	-34	WSW	4	zo	45	85	42	6	5	2	-	4-6	4-6	1500	1	
19	Birr Castle	91·9	-24	W	3	c	47	85	43	7	6	2	-	7-8	10	800	1	*
20	Valentia Obsy.	90·8	-34	W'S	6	c/pr	51	75	44	8	3	-	3	9	9+	2100	1	5
	Roches Point	96·7	-18	W	4	c	49	92	47	8	5	7	5	[illegible]	9	1500	1	4

PAST 24 HOURS. WEATHER.

District	Stations	7h.–13h. 23rd (39)	13h.–18h. 23rd (40)	18h. 23rd to 1h. 24th (41)	1h.–7h. 24th (42)
1	London (Kew)	fxcmo	cmoc	cirorro	cror o, bmo
	Croydon	cmo czo	czcmo	crorombcmo	cirobcmo
	S. Farnborough	bcmfFcmoc	cmocirom	croRromo	cmoqrRrobc
	Boscombe Down	bcmxcFcmo	cmocidocmo	crrmobcmo	bcmorrobbc
	Thorney Island	bcfg cmo	iroc	cirmbcmcm	iromoc
	Lympne	bbcmcm	moiroc	crrmom	irRmoc
	Manston	cbcmxcmo	czom	cdoBrocmo	cidobcirmo
2	Shoeburyness	bcmoxbmcmo	moc	cmorr	cprbcmo
	Felixstowe	bccmocm	moc	cirocrrmo	rorocbcmo
	Gorleston	czo	czcmo	cir	cirbcq
	Mildenhall	bcmoxcmo	cmocmcmo	ciro mo	ciromobmo
	Cranwell	cnoc	cmoc	cmocmor	bcmocmcz
3	Birmingham	cz	coiro	oirc	cbc
	Upper Heyford	oFcm	cmocirido	crorombcmo	prombmob
4	Ross-on-Wye	cmo	cido	dq-poc	pcbc
5	Hartland Point	bcorrir	circ	crrir	bcorrc
	Bristol	bcmoxccir	ccrorom	ircoprobc	bcprobbc
	Portland Bill	c	co	oRo	o
	Plymouth	cirorno	cddmoDD	cmocirmo	crrcmo
	The Lizard	cprc	cirr	c	cprc
	Scilly (St. Mary's)	cpqiro	ciro	cpc	cpoc
	Guernsey				
6	Pembroke	cirqdd	crrirq	cproc	bccproq
7	Holyhead (Valley)	ciro	dodirmoc	ciroc	bcc
	Chester (Sealand)	moc	cmocdodo	crrprm	copro
8	Manchester	ciro	cirmo	rorocpr	cpro
10	Spurn Head	cmo	cqror	c	bc
	Catterick (Sc)	cmocm	cmrormo	cpromo	cpromobcmo
	Tynemouth	bm	cmoiromo	qcqiro bc	bccp
11	St. Abbs Head	oroc	crocrrc	bcc	bcrocbc
	Leuchars	crrirmo	crromoc	cbcc	cromocmo
12	Renfrew (Abbots I.)	cdodomo	cddmoirrpr	cprprocirmo	crororrpro
	Eskdalemuir	croRR	RfrpRr	crmbc	oRR
	Point of Ayre	croro	rropr	prbccq	cq
13A	Tiree	crrmo	cbcpro	bcprorobpro	cprobccpro
13B	Stornoway	crrRRmo	cRRiroc	cprmoc	crrciro crr
15	Dalwhinnie	oidrr	orc		cprrro
	Aberdeen	cirocmczo	ccromocm	cmobc	bccidomo
	Wick	cidocddc	crrcroc	ccirororo	bcciro
16	Sumburgh	cpsh	cror	cbcb	bcprobcc
17	Blacksod Point	r	pr	pr	pr
18	Malin Head	r	r	r	d
	Aldergrove	iro Rmo	rrirocmo	cirocirc	ccirc
19	Birr Castle	r	r	r	pr
20	Valentia Obsy.	r	pr	pr	pr
	Roches Point	r	r	bc	pr

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

DISTRICTS.	
1 S.E. England 2 E. England 3 E. Midlands 4 W. Midlands	Fresh southwest to west winds veering northwest, gusty, decreasing slowly; considerable mainly bright periods; a few showers chiefly near the coast; rather cold with ground frost at night.
5 S.W. England 6 South Wales 7 North Wales	Strong squally northwest winds, moderating slowly; showers; bright periods; rather cold.
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	Winds veering northwest to north, squally, strong to gale at times on the west, moderating; occasional showers of rain and hail, with sleet or snow at times on the hills, chiefly in Scotland. cold.
16 Orkneys and Shetlands	As 7-15
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	Fresh to strong squally northwest to north winds; rain and hail showers; bright intervals; rather cold.

GENERAL INFERENCE

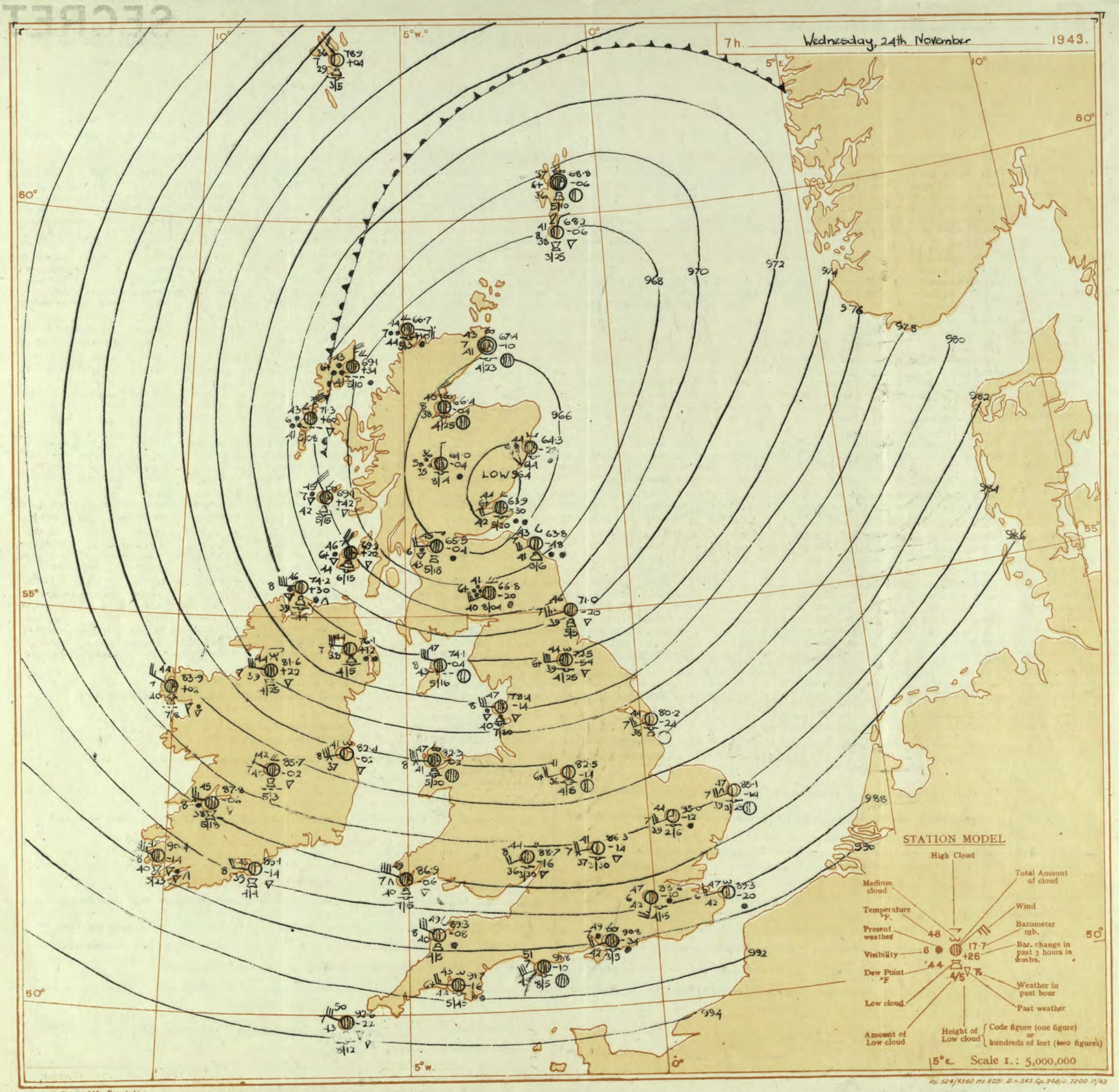
A very deep depression off northeast England will drift slowly east and fill up. Cold northwest to north winds will spread in over the British Isles and cause gales at first on various parts of the coast. Weather will be showery with bright periods and the showers will be of a wintry character at times in the North.

FURTHER OUTLOOK

Showers in the West and North. Bright periods in many districts, cold; some frost at night.

Forecasts issued at 1030.

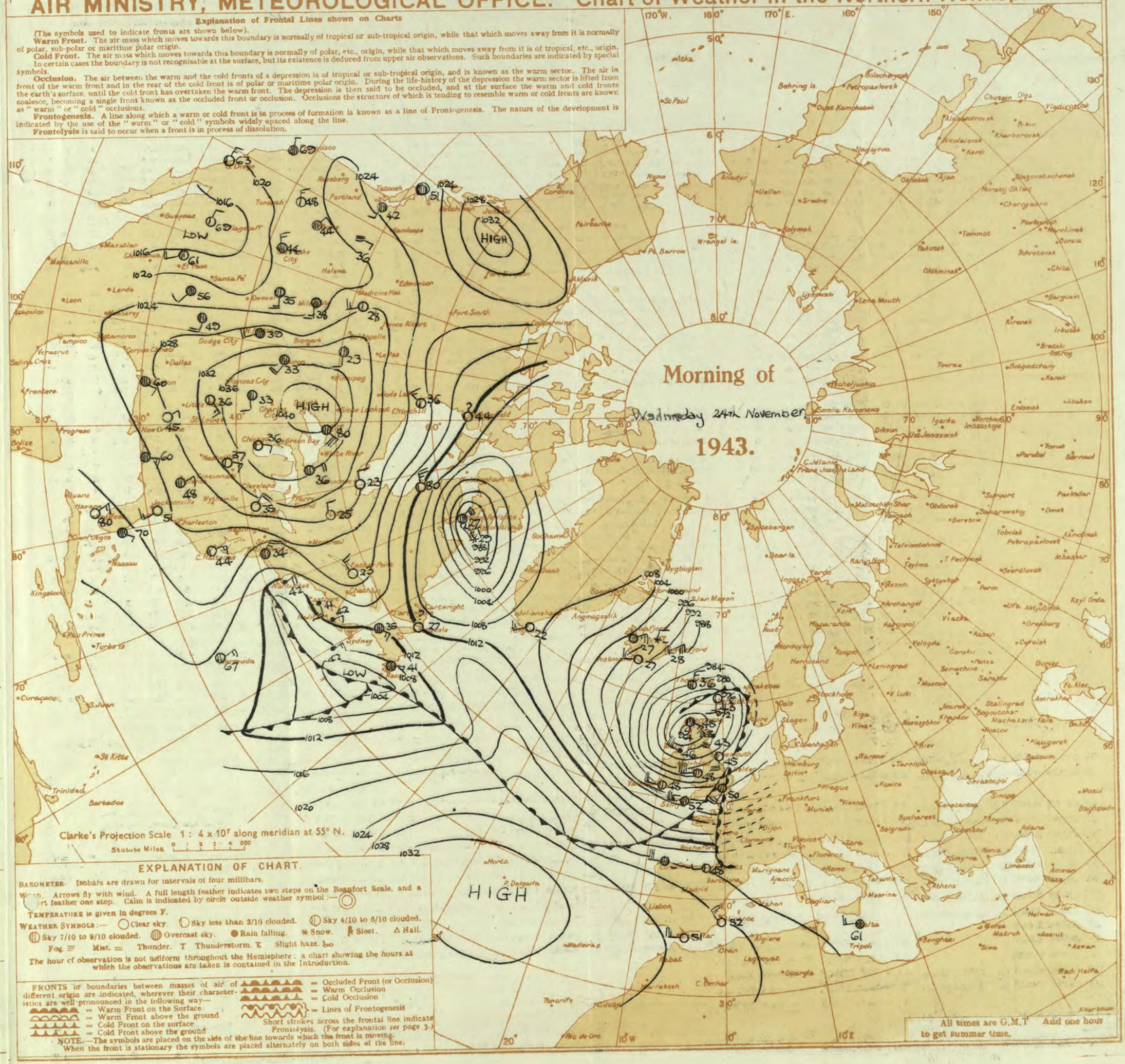
NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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

Rs. 524/4582. Wt. 8091. D.w. 543. Co. 948/2. 7200. 11/43

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. K 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 24th November, 1943

No. 28952.

OBSERVATIONS at 1 hr. G.M.T. 24th November

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	93·0	-32	SSW	5	bc/r	50	85	44	6	5	-	.	4-6	4-6	1500
	S. Farnborough	226	93·0	-22	WSW	4	c/r	48	85	44	6	5	7	-	7-8	9+	3800
	Boscombe Down	417	93·6	-30	SW'W	5	bc	47	85	44	6	5	-	.	4-6	4-6	3000
	Thorney Island	10	96·3	-26	SW	5	m	51	85	47	4	5	1	-	4-6	10	1500
	Lympne	283	94·3	-16	SW'W	6	ir	48	97	48	3	5	-	.	7-8	10	440
	Manston	154	95·2	-46	SW'W	6	c/r	49	97	47	6	5	-	.	10	10	3000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	91·9	-50	SW	6	r0r0	48	97	46	5	5	-	-	10	10	1500
	Gorleston	5	89·6	-56	SWW	5	iR	49	85	46	7	6	-	.	10	10	800
	Mildenhall	15	89·6	-28	SW	6	Z0	49	85	44	6	5	2	-	7-8	9+	2500
	Cranwell	203	87·1	-37	S'W	6	ir0	47	92	44	6	5	-	.	10	10	1500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	90·4	-28	WSW	5	Z0	46	97	43	6	8	-	.	4-6	4-6	4400
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	91·7	-30	NW	6	c/r	50	92	47	7	8	6	.	4-6	9	1500
	Bristol	209	91·8	-34	S	6	bc	48	85	44	7	5	.	-	4-6	4-6	5000
	Portland Bill	32	95·9	-40	SW	6	o	48	97	46	7	5	-	.	10	10	2500
	Plymouth	86	95·5	-36	W	6	Z0	[illegible]	85	47	6	5	-	.	10	10	800
	The Lizard	240	97·0	-32	W	7	c	51	97	48	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	97·3	-22	W	7	c	52	85	46	7	5	-	.	9+	9+	800
	Guernsey	175															
6	Pembroke	142	90·5	-20	WNW	8	bc/pr	50	75	43	7	8		-	4-6	4-6	1500
7	Holyhead (Valley)	32	84·6	-26	WSW	8	bc	48	75	42	8	8	-	-	4-6	4-6	3500
	Chester (Sealand)	16	86·7	-34	W	5	c/pr	46	97	45	5	8	-	.	9	9	2000
8	Manchester	230	85·8	-30	SW	5	pr	45	85	41	7	2	6	.	4-6	9	2500
10	Spurn Head	29	98·6	-40	SW	5	c	47	85	43	6	5	2	.	4-6	10	1500
	Catterick (Sc)	192	81·9	-30	SW	4	pr	44	85	40	6	8	.	-	7-8	7-8	3000
	Tynemouth	108	78·9	-48	S	5	b-bc	45	85	42	7	-	4	-	0	2-3	-
11	St. Abbs Head	280	74·5	-54	SSW	5	b-bc	42	92	40	7	4	-	.	2-3	2-3	4000
	Leuchars	36	71·4	-58	SSW	5	c	44	75	37	[illegible]	5	2	-	7-8	9+	2500
12	Renfrew (Abbots I.)	19	70·7	-60	SSW	5	r0r0	46	75	39	6	-	2	-	10	10	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	77·6	-54	W'N	7	c	47	75	42	8	6	2	-	2-3	10	800
13A	Tiree	44	64·0	-34	WSW	5	pr	47	97	45	7	8	-	.	4-6	4-6	1500
13B	Stornoway	12	65·4	-24	SE	3	c	45	85	42	7	9	2	-	7-8	10	400
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	71·8	-48	SSW	4	ir0	43	85	39	8	5	2	-	4-6	10	2500
	Wick	114	69·5	-42	S'E	4	c-bc	45	85	40	7	5	1	-	4-6	7-8	1500
16	Sumburgh	19	71·2	-28	S	3	b-bc	43	85	40	8	3	6	.	1	2-3	1500
17	Blacksod Point	18	83·3	+6	WNW	8	bc/pr	48	75	40	7	9	-	-	4-6	4-6	1500
18	Malin Head	84	69·7	-30	W'N	7	rr	46	85	42	7	-	2	-	10	10	1500
	Aldergrove	268	75·5	-50	SW'S	4	c/r	43	92	41	7	5	-	.	10	10	2100
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	93·4	-14	W	4	bc/pr	48	75	41	8	3	-	-	4-6	4-6	2300
	Roches Point	22	92·2	-14	W	5	b	47	92	45	8	5	-	.	1	1	1500

OBSERVATIONS at 7 hr. G.M.T. 24th November — 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 23rd Hrs. (38)
London (Kew)	87·7	-20	SW	3	Z0	[illegible]	[illegible]	40	6	5	-	.	2-3	2-3	1500	1	*	46	45	40	-	3	0·0
Croydon	88·6	-10	SSW	5	Z0	47	85	42	6	5	-	.	4-6	4-6	1500	1	*	47	44	43	-	4	0·0
S. Farnborough	88·2	-22	WS	5	bc	46	85	40	8	5	-	4	2-3	4-6	4000	1	*	47	45	40	Tr	5	0·0
Boscombe Down	89·9	-14	W'S	5	c-bc	44	75	37	7	5	7	-	4-6	7-8	3000	1	*	46	43	39	1	3	0·0
Thorney Island	90·8	-34	SW'W	4	ir0	49	75	42	7	5	7	-	2-3	10	2500	1	*	50	47	44	Tr	3	*
Lympne	89·4	-16	WSW	4	Z0	45	92	44	6	5	7	-	2-3	9+	1500	1	§	47	45	42	Tr	5	2·8
Manston	89·3	-20	W'S	3	Z0	47	85	42	6	-	3	.	0	4-6	-	1	*	46	47	44	Tr	3	2·6
Shoeburyness	89·1	-20	W	3	Z0	47	85	41	6	-	7	-	0	4-6	-	1	*	45	45	40	-	2	0·0
Felixstowe	86·9	-16	SW	5	Z0	45	85	40	6	-	7	-	0	4-6	.	1	5	46	45	41	-	4	1·6
Gorleston	85·1	-14	WSW	4	b-bcq	47	75	39	7	5	-	-	2-3	2-3	2500	1	5	47	42	39	-	3	0·0
Mildenhall	86·0	-12	SW	5	b	44	85	39	7	5	-	-	1	1	4000	1	*	45	42	35	Tr	0·5	0·0
Cranwell	81·4	-22	W	7	Z0	43	75	37	6	-	4	-	0	Tr	-	1	*	44	42	39	Tr	1	
Birmingham	84·1	-16	WSW	4	b	42	85	38	8	5		-	1	1	1500	1	*	45	42	33	0·3	4	0·0
Upper Heyford	86·3	-14	WSW	4	b-bc	41	85	37	7	5	3	-	2-3	2-3	3000	1	*	45	40	35	0·4	3	*
Ross-on-Wye	88·7	-16	SW'W	4	bc	44	75	36	8	5	-	2	2-3	4-6	3000	1	*	47	44	39	0·3	1	0·0
Hartland Point	89·3	-8	WNW	6	bc	49	75	40	8	2	4	-	4-6	4-6	2500	1	3	52	46	44	3	7	0·0
Bristol	89·3	-10	WSW	4	bc	45	75	39	7	2	7	-	4-6	4-6	2500	1	*	48	46	38	1	6	0·0
Portland Bill	91·3	-10	SW	6	o	51	92	49	7	5	-	.	10	10	2500	1	5	52	46	*	0·3	10	*
Plymouth	91·7	-16	W	5	c/r	48	85	44	6	5	3	-	7-8	9	4500	1	4	52	47	44	3	3	0·0
The Lizard	92·7	-20	WNW	6	c/pr	50	85	46	6	5	-	.	10	10	1500	1	5	51	·7	*	2	2	0·0
Scilly (St. Mary's)	92·6	-22	WNW	6	c/pr	50	78	43	7	8		.	10	10	1200	1	6	52	49	*	1	1	0·0
Guernsey																							
Pembroke	86·9	-6	WNW	8	cq	49	75	40	7	8	-	.	9+	9+	1500	1	5	53	47	*	7	1	0·0
Holyhead (Valley)	82·3	-2	W	8	c	47	75	41	8	8	7	-	7-8	9+	2000	1	5	51	47	44	5	0·3	*
Chester (Sealand)	82·6	-6	W'N	5	c/pr	47	65	36	8	5	-	-	9	9	2000	1	*	50	45	39	0·2	3	0·0
Manchester	80·8	-18	SW	5	c	45	75	36	7	4	6	-	7-8	9	3000	1	*	45	43	39	1	0·2	*
Spurn Head	90·2	-24	SW	5	b-bc	44	75	38	7	7	-	-	2-3	2-3	1500	0	4	44	41	*	Tr	Tr	0·3
Catterick (Sc)	72·5	-54	WSW	8	Z0	44	85	39	6	5	3	-	4-6	7-8	2500	1	*	45	42	35	Tr	6	0·0
Tynemouth	71·0	-20	SW	5	c-bc/pr	46	75	39	7	2	-	-	7-8	7-8	2500	1	3	44	43	38	Tr	1	*
St. Abbs Head	63·8	-48	SW	5	bc/r	48	92	41	7	3	4	-	2-3	4-6	4000	0	4	43	40	*	3	0·2	*
Leuchars	63·9	-30	SW	4	c/r	44	92	42	6	5	2	-	7-8	9+	2000	1	*	47	42	38	2	1	0·0
Renfrew (Abbots I.)	65·5	-4	W	4	pr	45	92	43	6	3	-	3	7-8	7-8	1800	1	*	48	44	38	10	9	0·0
Eskdalemuir	66·8	-20	SW'W	5	RR	41	97	40	6	-	2	-	10	10	400	2	*	46	40	38	19	15	0·0
Point of Ayre	74·1	-4	WNW	8	c-bc	47	85	43	8	6	-	.	7-8	7-8	1600	0	4	50	45	*	3	2	0·0
Tiree	69·1	+42	NW	6	pr	45	85	42	7	8	7	.	7-8	9+	1500	1	5	49	44	42	6	6	0·0
Stornoway	69·1	+34	N	7	rr	43	90	41	6	6	2	-	7-8	10	900	2	4	47	43	37	15	12	0·0
Dalwhinnie	60·0	-4	N	1	rr	36	97	35	5	5	-	.	10	10	1500	1	*	41	35	33	7	10	0·0
Aberdeen †	64·3	-28	SSW	2	ir0	44	92	42	6	5	-	7	9	9+	1500	1	[illegible]	45	40	31	2	Tr	0·0
Wick	67·4	-10	-	0	c	43	92	41	7	5	7	-	4-6	9+	2300	1	*	44	42	38	5	0·4	*
Sumburgh	68·2	-6	N'E	2	bc	41	92	38	8	3	-	6	2-3	4-6	1500	1	3	43	41	30	2	6	1·2
Blacksod Point	83·8	-2	WNW	7	pr	44	65	37	-	9	-	.	10	10	800	2	6	52	42	*	5	6	*
Malin Head	74·2	+30	W'N	8	pr	46	[illegible]	39	8	3	-	.	7-8	7-8	1500	2	5	51	45		1	3	0·0
Aldergrove	76·1	+12	N'W	6	bc/r	44	85	38	7	8	-	.	4-6	4-6	2500	1	*	47	42	38		4	0·0
Birr Castle	85·7	-2	WNW	2	c	42	92	40	7	9	[illegible]	.	7-8	9	800	1	*	50	42	39	1	4	0·0
Valentia Obsy.	90·4	-14	WNW	3	c-bc/pr	47	75	40	8	3	-	.	7-8	7-8	2300	1	5	53	40	40	4	3	0·0
Roches Point	89·1	-14	W'N	4	bc	43	85	39	8	8	-	.	4-6	4-6	1500	1	4*	52	43	*	3	0·4	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 23rd Nov. $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 24th Nov. $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	32	02764	16528	5-	02666	50566	57	22754	14465	62	41645	32468
115	51	66725	16368	87	02745	12328	52	02844	12267	52	62735	41568
203												
206	62	62745	14368	50	01853	24363	57	22854	16767	57	02854	28426
210	62	62853	16568	57	01853	18440	5-	02867	[illegible]	57	22863	00028
219	87	22654	20566	62	64637	52668	0-	81646	32486	62	64635	64788
230	62	64547	16368	8-	82745	55585	8-	82648	55588	5-	25856	61586
245	52	61745	16468	51	22744	13465	5-	[illegible]	49585	57	22654	13167
260	52	05645	18428	5-	22855	20568	05	[illegible]	[illegible]	50	05654	53414
278	52	62637	51568	52	22746	52568	82	81747	53558	87	[illegible]	[illegible]
279	52	64645	51668	62	62455	53568	8	82658	57668	5-	42657	55868
285	62	63625	20568							6-	64647	44667
288	5-	08488	16528				57	22654	18565	50	05655	51585
575	52	41754	57558				32	81740	56985	36	62756	59785
301	62	61446	47468	02	22773	19468	40	01863	22663	8-	81867	57681
321	07	08490	18428	67	22644	50665	5-	63648	20568	54	61753	55664
290							5-	14748	22518	5-	61744	22514
292	52	08454	16328	5-	05548	16588						
310										2-	01630	44226
614	57	05663	20326	52	62445	18468	5-	62548	55468	04	05690	55501

III	13h. G.M.T. 23rd Nov. $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 24th Nov. $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	52	62625	51568				20	05654	51784	27	01754	55714
334	--	85537	28288							--	63636	18487
340	52	22755	18468	62	54536	16668	57	66764	22464	74	02704	73514
136	07	05690	17828	5-	61568	18568	52	22747	53568	03	61890	18561
336				62	64526	20568				22	22654	24568
350	07	05690	16327	57	61755	51468	5-	25644	53584	40	81753	20413
368				52	22647	55468	5-	61648	55668	83	27645	57585
379				57	62635	53660	5-	62748	53568	53	61762	55565
390	--	44209	17349	57	45365	49548	5-	08456	51526	50	25553	18413
382				5-	61646	51586	57	22848	53467	57	61861	55413
438	91	02764	24416	5-	41758	20788				57	42754	22717
430	57	05551	18228	5-	22543	22568	--	02733	55624	5-	62758	57428
409	62	61845	18665	62	22635	20765	5-	62638	24868	8-	25654	51600

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 24th November, 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	fxcm0	cm0c	cir0,bm0
Croydon	crn0cz0	cz0cm0	cr0bcm0
Greenwich	bcc⊕	c	cir0rφcb
Camden Square	c	c	*
Kensington	bc	bcm	*
Hampstead	bc	or	bc

Atmospheric Pollution, Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max: Time: ·6 8/9 23rd; Min: Time: <0·1 0/6h 24th

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	45	40		3	0·0	*	*
Croydon	47	44	43	·	4	0·0	*	*
Greenwich	48	44	37	-	2·8	0·0	76	76
Westminster	51	35	34	4	3	*	94	80
Regents Park	50	37	31		6·6	*	80	77
Camden Square	49	46	32	-	8·1	*	*	80
Kensington	47	36	35	-	2·8	*	85	85
Hampstead	44	41	36	-	3·4		*	87

SECRET

Page 1 BRITISH SECTION

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

Thursday, 25th November 1943

No. 29953

OBSERVATIONS at 13h. G.M.T. 24th November

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)	84·5	-22	WSW	4	c-bc	48	65	38	8	8	-	6	2-3	7-8	1500
	Croydon	85·5	-22	WSW	5	c-bc	48	65	38	6	7	6	2	4-6	7-8	1500
	S. Farnborough	85·3	-18	W	4	c	49	65	38	8	8	7	8	4-6	9+	2500
	Boscombe Down	85·9	-20	W'S	5	c	46	75	39	8	2	2	6	2-3	9+	2000
	Thorney Island	87·2	-18	WSW	5	c	48	75	41	7	2	7	6	2-3	9+	4000
	Lympne	85·5	-26	WSW	5	c-bc	48	65	38	8	1	9	-	Tr	7-8	2000
	Manston	86·1	-14	W'S	5	c	49	65	37	8	5	7	8	2-3	9	3500
2	Shoeburyness	85·3	-16	WSW	4	c-bc	50	65	37	7	7	-	6	4-6	7-8	4000
	Felixstowe	84·7	-10	WSW	5	zo	49	65	48	6	5	-	-	4-6	4-6	2500
	Gorleston	81·5	-12	W	4	bcq	50	55	35	7	1	7	-	2-3	4-6	1800
	Mildenhall	81·9	-22	WSW	6	bc	49	65	37	8	1	-	-	4-6	4-6	5500
	Cranwell	79·3	-14	WSW	6	bc	47	75	38	7	1	4	6	2-3	4-6	1500
3	Birmingham	81·9	-14	WSW	4	c	45	75	38	8	8	-	-	9+	9+	2500
	Upper Heyford	83·4	-14	W	6	bc	46	65	36	8	1	-	1	4-6	4-6	3000
4	Ross-on-Wye	84·2	-12	WSW	4	bc	47	65	35	8	2	-	-	4-6	4-6	3000
5	Hartland Point	86·9	-10	WNW	4	c-bc	43	75	37	8	3	4	3	4-6	7-8	1200
	Bristol	86·1	-20	W	5	c	46	75	37	7	3	6	3	2-3	9	2500
	Portland Bill	89·1	-20	W	5	c/pr	49	92	47	8	5	-	-	10	10	2500
	Plymouth	88·7	-18	W'S	5	c/pr	47	85	43	6	5	2	-	7-8	10	1500
	The Lizard	89·8	-14	W	6	c/r	47	75	40	4	5	-	-	10	10	1000
	Scilly (St. Mary's)	90·2	-12	W'N	6	cbcjp	48	85	44	8	8	6	3	4-6	7-8	1200
	Guernsey															
6	Pembroke	86·0	-8	WNW	6	cbcq	48	75	38	6	8	1	1	4-6	7-8	2000
7	Holyhead (Valley)	81·8	0	W'N	7	c	46	97	45	8	8	-	-	9+	9+	2000
	Chester (Sealand)	81·3	-6	WNW	5	bc	48	65	36	9	1	-	2	4-6	4-6	3000
8	Manchester	78·9	-18	W'S	6	cbc	46	65	36	8	2	-	-	7-8	7-8	2000
10	Spurn Head	77·1	-16	WSW	7	cq	47	65	36	7	8	6	-	4-6	9	1500
	Catterick (Sc)	70·0	-14	W'S	7	pr	46	75	39	7	3	6	-	4-6	7-8	2000
	Tynemouth	69·4	+12	WSW	8	ir	46	92	43	6	6	-	-	9	9	1400
11	St. Abbs Head	67·6	+30	NW	5	ir	44	85	41	7	5	6	-	4-6	9	2500
	Leuchars	69·1	+34	WNW	4	iro	45	75	36	9	5	7	-	9	10	3100
12	Renfrew (Abbots I.)	74·6	+24	NW'W	3	c	47	75	40	9	5	7	-	7-8	10	2000
	Eskdalemuir	70·7	+32	NW'W	4	iro	43	85	37	8	5	-	-	10	10	1100
	Point of Ayre	75·7	+10	NW	8	rr	45	97	45	7	6	2	-	4-6	10	600
13A	Tiree	79·3	+12	NNW	7	c	45	75	37	7	9	-	5	9	9+	1200
13B	Stornoway	78·5	+10	N	6	c	42	65	30	8	8	6	9	7-8	9+	1800
15	Dalwhinnie	73·0	+14	NW	3	pr	38	85	34	7	5	-	-	10	10	1500
	Aberdeen	68·1	+24	NNW	3	cjp	46	85	40	7	9	7	-	9	9+	800
	Wick	72·0	+34	N	5	pr	42	85	38	8	8	4	-	9	9+	1500
16	Sumburgh	69·5	+8	NNW	5	c/r	42	85	39	8	5	9	-	4-6	9+	1500
17	Blacksod Point	87·3	+22	NW	5	c/phr	44	85	40	7	9	-	-	9+	9+	1500
18	Malin Head	80·6	+28	S'W	7	pr	44	75	37	8	8	-	1	4-6	7-8	1500
	Aldergrove	80·4	+32	WNW	4	pr	43	85	38	7	3	7	-	7-8	9+	1500
19	Birr Castle	86·3	+6	WNW	1	bc	45	75	38	8	5	-	-	4-6	4-6	2500
20	Valentia Obsy.	90·0	-2	W'N	6	pr	46	75	39	8	3	6	3	7-8	9	2500
	Roches Point	88·5	-4	NW'W	4	bc/pr	46	85	42	8	3	-	3	4-6	4-6	1500

OBSERVATIONS at 18h. G.M.T. 24th November

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)	84·2	+4	WSW	3	zo	43	85	39	6	-	-	-	0	0	-	1	*
Croydon	84·5	0	WSW	5	zo	43	85	37	6	5	-	-	Tr	Tr	2500	1	*
S. Farnborough	85·8	+14	W	4	b-bc	42	85	38	7	5	4	-	1	2-3	3000	0	*
Boscombe Down	86·4	+10	W'N	3	b-bc	39	92	36	8	3	-	8	2-3	2-3	2000	0	*
Thorney Island	86·6	+8	W	4	zo	44	85	37	6	2	4	-	2-3	2-3	4000	1	*
Lympne	84·1	-6	W'N	3	b-bc	43	75	36	7	5	-	-	2-3	2-3	3000	1	4
Manston	83·6	-10	W	3	bc	44	75	36	6	-	7	1	0	4-6	-	1	*
Shoeburyness	84·2	-2	SW	3	zo	44	75	37	6	-	7	-	0	2-3	-	1	*
Felixstowe	82·2	-6	WSW	4	zo	44	75	37	6	-	-	-	0	0	-	0	4
Gorleston	79·3	-12	W	4	bq	45	65	35	7	-	-	-	0	0	-	0	4
Mildenhall	81·2	0	SW'W	5	b-bc	43	75	35	8	5	-	-	2-3	2-3	4000	0	*
Cranwell	79·3	+4	W	5	pr	43	85	40	6	5	-	-	9	9	1500	1	*
Birmingham	82·6	+8	WSW	3	bc	42	85	38	8	5	-	-	4-6	4-6	2500	1	*
Upper Heyford	83·3	+6	W'S	3	b-bc	40	85	35	8	4	-	-	2-3	2-3	4000	1	*
Ross-on-Wye	85·1	+10	W'S	4	c-bc	43	75	37	8	8	-	2	4-6	7-8	3000	1	*
Hartland Point	88·4	+16	NW	5	c-bc	47	75	39	8	3	-	-	7-8	7-8	1500	1	4
Bristol	86·7	+12	NW	3	b-bc	41	85	37	7	4	-	-	2-3	2-3	2500	1	*
Portland Bill	88·5	+4	WSW	5	o	48	92	46	7	5	-	-	10	10	2500	1	5
Plymouth	90·3	+20	WNW	5	phr	45	75	39	6	3	-	3	9	9+	2800	1	3
The Lizard	91·1	+20	WNW	7	bc	47	65	36	7	2	-	-	4-6	4-6	1500	1	5
Scilly (St. Mary's)	91·8	+18	NW'W	7	c-bc	47	75	38	8	8	6	3	4-6	7-8	1200	1	6
Guernsey																	
Pembroke	88·1	+26	NNW	6	bcq	47	85	42	7	8	-	-	4-6	4-6	1500	1	4
Holyhead (Valley)	85·3	+30	NW	6	bc	45	65	36	8	2	-	-	4-6	4-6	2500	0	5
Chester (Sealand)	82·1	+14	NW	7	c	46	92	45	8	2	2	-	7-8	10	1600	0	*
Manchester	80·6	+16	NW'W	6	PHR	40	97	39	6	9	-	-	4-6	10	1100	1	*
Spurn Head	76·3	+10	W	6	rr	43	85	38	6	8	-	-	10	10	1500	1	4
Catterick (Sc)	77·9	+18	WNW	5	c/pr	42	85	37	7	8	-	-	7-8	10	2500	1	*
Tynemouth	75·7	+10	W	6	bcq	43	85	36	7	5	-	-	4-6	4-6	2500	1	3
St. Abbs Head	75·5	+14	N	8	o/r	44	85	39	7	5	-	-	10	10	2500	1	6
Leuchars	78·6	+46	NW	5	c	42	65	29	9	5	7	-	4-6	9+	4000	1	*
Renfrew (Abbots I.)	82·2	+58	NW	4	c-bc	41	75	33	8	5	4	-	4-6	7-8	1500	1	*
Eskdalemuir	79·6	+54	NNW	5	iro	39	75	29	8	5	-	-	10	10	1200	1	*
Point of Ayre	82·0	+38	N	7	b-bc	46	75	38	8	8	-	-	2-3	2-3	2000	1	5
Tiree	86·5	+40	NNW	6	c-bc	42	75	34	8	8	6	-	7-8	7-8	1800	1	5
Stornoway	84·5	+38	NNW	5	pr	40	65	29	8	8	-	3	7-8	7-8	1500	1	3
Dalwhinnie	81·0	+50	N	4	c-bc	34	75	26	7	5	-	-	7-8	7-8	2500	1	
Aberdeen	76·5	+46	NNW	5	b/pr	40	75	34	8	5	1	-	1	1	2500	1	3
Wick	78·8	+36	N	6	bc	40	85	37	8	5	-	-	4-6	4-6	1000	1	*
Sumburgh	74·4	+32	NNW	6	bc	41	75	38	8	5	-	-	4-6	4-6	2000	1	3
Blacksod Point	94·6	+46	NNW	6	b-bc	45	65	33	8	3	-	-	2-3	2-3	1500	2	5
Malin Head	87·1	+40	N	7	phr	45	65	33	8	8	-	-	4-6	4-6	1500	2	5
Aldergrove	86·5	+38	NW	4	b-bc/pr	39	85	34	8	2	-	-	2-3	2-3	1500	1	*
Birr Castle	91·6	+42	WNW	2	b-bc	39	85	35	8	-	4	-	0	2-3	-	1	*
Valentia Obsy.	95·6	+42	N	5	c-bc/pr	46	75	39	8	3	-	-	7-8	7-8	2500	1	5
Roches Point	92·8	+42	NW	4	bc	44	85	40	8	3	-	3	4-6	4-6	1500	1	4

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 24th (39)	13h.—18h. 24th (40)	18h. 24th to 1h. 25th (41)	1h.–7h. 25th (42)
London (Kew)	bcmobc	bccbcmo	bbcmo	bcbmow
Croydon	bcmzoc	cbczo	bccmo bzo	bzobmo
S. Farnborough	bcbpoc	cbcb	bbc	bcbcb
Boscombe Down	bcpgbc	cbcbcpgbc	bcb	b
Thorney Island	cisbcc	cmo	cmobcmo	bcmobmo
Lympne	cmoc	c	bcw idomo	bcmo
Manston	bcmobc	cbczo	bzocmo iro	cmorrbbcmo
Shoeburyness	bczo	ccmo	bcprmo	cbcmo
Felixstowe	bcmzo	mczo	crorocmo	bmo
Gorleston	cbcqy	bcbq	bccrorocroc	cbc
Mildenhall	bbc	bbc	bcirocmo	bcbmox
Cranwell	bcmobc	cpro	crorobc	bbzo
Birmingham	b,c	cbc	bcoiro	ocprs
Upper Heyford	bc	bcjpbc	ciromoc	cmopro bcbmo
Ross-on-Wye	bc	bccpoc	bcb	bbcb
Hartland Point	cpr	cphrbcc	cbc	bc
Bristol	bctlgbc	cbc	bccb	bcb
Portland Bill	oR	o	c	c
Plymouth	cpro	cmopro	bcprobc	cbcpro
The Lizard	crr	cprbc	cprbcl	cbc
Scilly (St. Mary's)	cpcrc	cpqc	cbc	bccbc
Guernsey				
Pembroke	cq	cq	bcq	bcq
Holyhead (Valley)	c	cbc	bccpro	bcb
Chester (Sealand)	ybc	bccpro	cbcprh	cphrt
Manchester	cproc	prpRH	procmob	prprh
Spurn Head	cq	oprrr	bcq	bq
Catterick (Sc)	cmoprbc	cproc	bc	b
Tynemouth	prcmoq	crmobcq	bc	bcbbc
St. Abbs Head	bccrcir	cgc	cbcbq	bqb
Leuchars	cmciro	cirocy	ccyb	bbx
Renfrew (Abbots I.)	cpgmo	c	cbmob	bx
Eskdalemuir	Rrociro	crciro	ciroc	bcbx
Point of Ayre	crrc	rrcbq	bl	bPHRq
Tiree	crogbcc	bcc	bcb	bbcps
Stornoway	crogiroc	cphrcpr	cphbc	bccprcphbc
Dalwhinnie	orrpr	dpr prsc		copsbc
Aberdeen	cmobccjp	crrirobcqb	bcproq	bcqprsb
Wick	crrcg	cpg prc	cphbcpr	cph PH
Sumburgh	bccir	ciroc	cbc	cphRprobc
Blacksod Point	pr	pr	pr	pr
Malin Head	pr	pr	pr	pr
Aldergrove	ccpgcpg	cpophrbcpg	cprc	cbcbcc
Birr Castle	pr	bc		b
Valentia Obsy.	pr	pr	pr	pr
Roches Point	pr	pr	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 25th November 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
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 west to northwest winds in the South, fresh or strong in the North moderating, backing southwest or south and increasing again later, possibly to gale force in the North. Mainly fair with well broken cloud inland at first, some showers in the west and north, possibly of wintry character in north Scotland; rain will probably reach west Ireland soon after midnight, and spread to western districts of Great Britain by dawn; mainly good visibility at first, poor in rain later, cold becoming milder.

16 Orkneys and Shetlands
17 N. W. Ireland
18 N. E. Ireland
19 S. E. Ireland
20 S. W. Ireland

As 1- 15

GENERAL INFERENCE

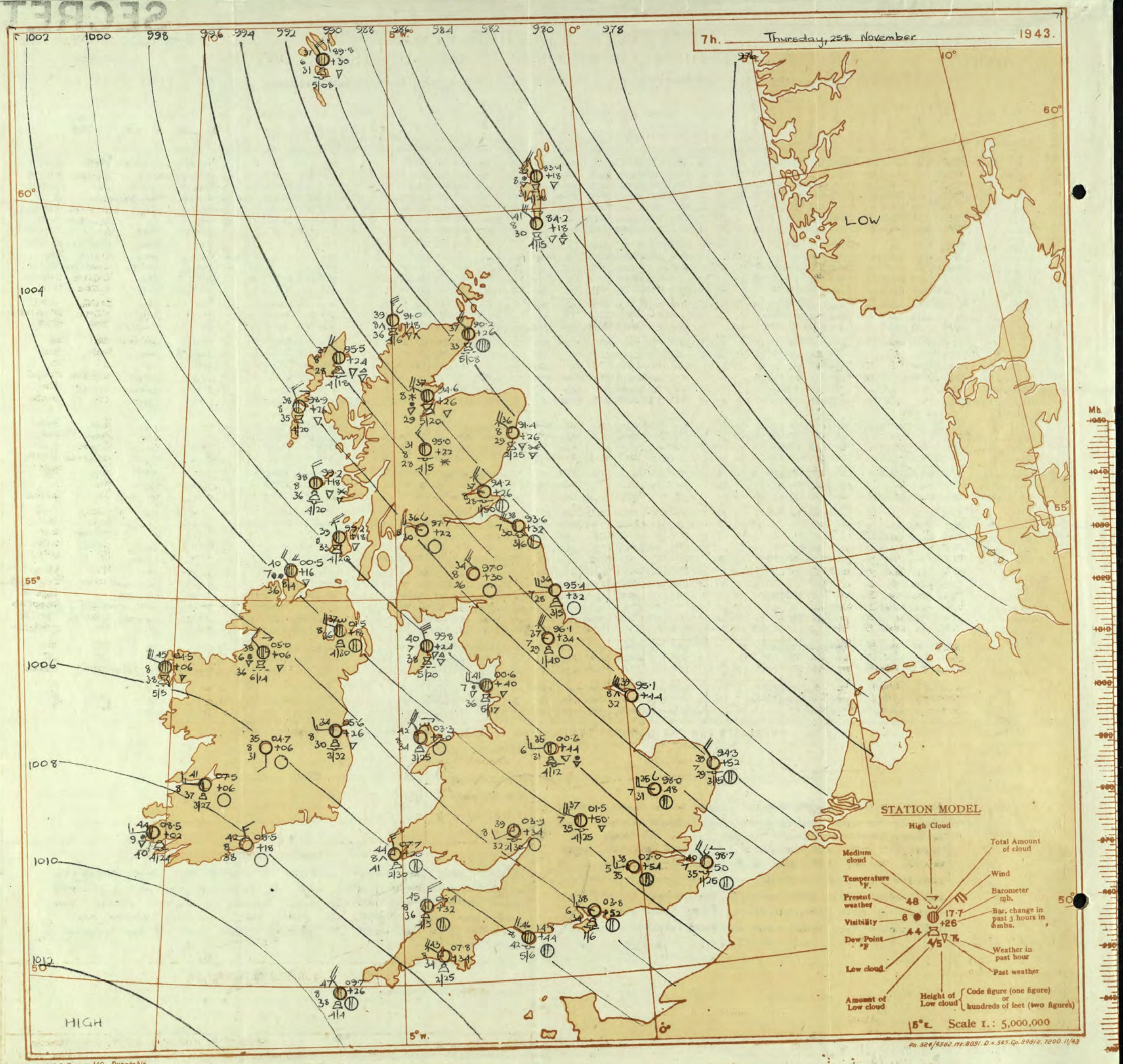
A ridge near our Western districts is moving east, and intensifying somewhat; depression further west is deepening and moving towards north Scotland; there will be some showers in exposed coastal areas in north and west, at first, but mainly fair conditions inland; rain spreading from the west will possibly affect most of the country by noon tomorrow.

FURTHER OUTLOOK

Rain at first, showery later

Forecasts issued at 10·30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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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 25th November 1943

No. 29953

OBSERVATIONS at 1 hr. G.M.T. 25th November

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	91·6	+44	W	5	b-bc	42	75	36	6	4	–	–	2-3	2-3	3000
	S. Farnborough	226	92·6	+46	NNW	3	b-bc	41	75	34	7	–	–	6	0	2-3	–
	Boscombe Down	417	94·3	+42	WNW	5	b	39	85	34	7	–	6	–	0	1	–
	Thorney Island	10	90·9	+18	WNW	4	Zo	42	85	37	6	5	–	–	1	1	2500
	Lympne ..	283	90·0	+6	WNW	4	bc/d	41	85	36	6	5	–	–	4-6	4-6	2000
	Manston ...	154	88·6	+36	NW	5	rp	42	85	38	6	5	–	–	10	10	2100
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	87·1	+42	WNW	5	Zo	42	85	38	6	5	–	–	7-8	7-8	4000
	Gorleston ...	5	83·9	+32	WNW	4	c/r	41	75	35	7	6	–	–	10	10	800
	Mildenhall ...	15	88·8	+54	WNW	4	b-bc	40	85	36	7	5	–	–	2-3	2-3	4000
	Cranwell ...	203	89·7	+52	WNW	4	b-bc	40	75	34	7	5	–	–	2-3	2-3	2000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	91·9	+48	NW'W	5	c/r	39	85	35	6	5	–	–	9	9	3000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	98·4	+38	NNW	5	bc	45	65	35	8	8	–	–	4-6	4-6	2500
	Bristol ...	209	95·5	+42	W	5	bc	41	75	34	7	5	–	–	4-6	4-6	4000
	Portland Bill ...	32	95·9	+44	N	5	c-bc	46	92	44	7	5	–	–	7-8	7-8	4000
	Plymouth ...	86	00·3	+32	NW	5	b-bc	44	75	36	8	3	–	–	2-3	2-3	2500
	The Lizard ...	240	02·2	+56	NNW	5	l	45	75	37	7	2	–	–	4-6	4-6	2000
	Scilly (St. Mary's)	163	03·2	+60	NNW	6	bc	47	65	35	8	8	–	–	4-6	4-6	1500
	Guernsey ...	175															
6	Pembroke ...	142	99·4	+30	NW'N	6	bcq	45	85	39	8	8	–	–	4-6	4-6	1500
7	Holyhead (Valley)	32	95·9	+42	NW'N	8	b-bc/pr	43	85	39	8	–	2	–	2-3	2-3	3000
	Chester (Sealand)	16	92·3	+44	N'N	6	c/pr	40	85	35	6	3	–	–	9+	9+	2900
8	Manchester ...	230	91·9	+48	NW	4	b	38	75	31	7	–	–	–	0	0	–
10	Spurn Head ...	29	85·8	+42	WNW	7	bcq	42	85	37	7	7	–	–	4-6	4-6	2500
	Catterick (Sc) ...	192	88·8	+42	NW	6	b	38	75	30	7	–	–	–	0	0	–
	Tynemouth ...	108	87·5	+36	NW	5	b-bc	38	75	29	7	–	4	–	0	2-3	–
11	St. Abbs Head	280	86·4	+34	NW	7	b-bcq	41	75	33	7	4	–	–	2-3	2-3	2500
	Leuchars ...	36	89·2	+48	WNW	5	b	38	75	30	8	5	–	–	1	1	4000
12	Renfrew (Abbots I.)	19	92·5	+44	WNW	5	b	38	75	30	8	–	–	–	0	0	–
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	92·9	+46	N	6	b	44	65	34	8	5	–	–	Tr	Tr	2500
13A	Tiree ...	44	95·1	+30	NNW	5	b-bc	40	75	32	8	2	–	–	2-3	2-3	2000
13B	Stornoway ...	12	91·1	+26	NW	4	b-bc	36	85	33	8	3	–	–	2-3	2-3	1600
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	86·5	+42	NW'N	6	pr	37	85	32	7	8	–	–	4-6	4-6	2000
	Wick ...	114	85·7	+28	NNW	5	bc	38	85	35	7	3	–	–	4-6	4-6	1000
16	Sumburgh ..	19	80·4	+22	NW'N	6	b-bc	40	65	28	8	2	–	–	2-3	2-3	2500
17	Blacksod Point	18	03·2	+28	NNW	3	b	44	65	33	8	5	–	–	1	1	4000
18	Malin Head ...	84	97·0	+36	N	7	phr	43	75	36	8	8	–	–	4-6	4-6	1500
	Aldergrove ...	268	97·3	+42	WSW	4	c/pr	37	85	33	8	3	–	3	9	9+	4700
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	06·9	+32	N'W	3	bc	46	65	35	8	2	–	–	4-6	4-6	2500
	Roches Point	22	03·9	+40	NNW	4	b	43	85	39	8	–	–	–	0	0	–

OBSERVATIONS at 7 hr. G.M.T. 25th November

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)	01·3	+46	WNW	3	Zo	38	85	33	6	5	–	–	Tr	Tr	2500	1	*
Croydon ...	02·0	+54	WSW	3	Zo	38	85	35	5	–	–	–	0	0	–	0	*
S. Farnborough	02·4	+50	WNW	3	b	39	85	33	8	–	4	–	0	Tr	–	0	*
Boscombe Down	03·6	+42	WNW	4	b	37	85	33	7	2	4	–	Tr	1	4000	1	*
Thorney Island	03·8	+52	W'N	3	Zo	38	85	34	6	8	–	–	Tr	Tr	4000	1	*
Lympne ..	00·1	+48	WNW	4	Zo	35	92	33	6	3	–	–	2-3	2-3	2000	1	4
Manston ...	98·7	+50	NW	4	b-bc	40	85	35	7	5	4	5	Tr	2-3	2500	1	*
Shoeburyness ...	00·1	+40	W'N	4	b	38	85	34	7	–	7	–	0	1	–	1	*
Felixstowe ...	96·8	+46	NNW	5	Zo	39	75	30	6	5	–	–	Tr	Tr	1500	0	4
Gorleston ...	94·3	+52	NW'N	4	b-bc	39	65	29	7	5	–	–	2-3	2-3	1500	1	4
Mildenhall ...	98·0	+48	W'N	4	b	35	85	31	7	–	4	–	0	Tr	–	1	*
Cranwell ...	98·5	+38	NW	5	Zo	37	75	30	6	5	–	–	Tr	Tr	2000	1	*
Birmingham ...	03·7	+46	WNW	3	cbc/rs	35	97	34	5	6	–	–	7-8	7-8	800	1	*
Upper Heyford	01·5	+50	WNW	5	bc	37	85	33	7	5	–	–	4-6	4-6	2500	1	*
Ross-on-Wye	03·9	+34	SW	2	b	39	75	32	8	5	–	–	1	1	3000	1	*
Hartland Point	06·4	+32	N	5	bc	45	75	36	8	1	–	–	4-6	4-6	2500	1	5
Bristol ...	05·1	+50	SW	2	Zo	37	97	36	6	5	–	–	1	1	4000	0	*
Portland Bill ...	04·8	+44	WNW	4	c-bc	46	85	42	8	5	–	–	7-8	7-8	4000	1	5
Plymouth ...	07·8	+34	WNW	4	b	43	65	34	8	2	–	–	1	1	2500	1	3
The Lizard ...	08·8	+26	WNW	4	bc	44	65	34	7	2	–	–	4-6	4-6	2500	0	5
Scilly (St. Mary's)	09·7	+26	NW'N	5	bc	47	75	38	8	2	–	–	4-6	4-6	1500	1	5
Guernsey ...																	
Pembroke ...	07·7	+20	NNW	5	bq	44	85	41	8	2	–	–	1	1	3000	0	4
Holyhead (Valley)	03·3	+30	NW	6	b-bc	42	75	34	8	2	6	3	2-3	2-3	2500	1	6
Chester (Sealand)	00·9	+38	NW'N	3	bc/pr	39	75	33	8	3	–	3	4-6	4-6	4500	1	*
Manchester ...	00·1	+38	WNW	4	cbc/phr	38	85	33	6	9	6	–	7-8	7-8	2000	1	*
Spurn Head ...	95·1	+44	WNW	7	bq	39	75	32	8	–	–	–	0	0	–	0	5
Catterick (Sc) ...	96·1	+34	NW	6	b	37	75	29	7	2	–	–	Tr	Tr	4000	0	*
Tynemouth ...	95·4	+32	WNW	4	b-bc	36	75	28	7	2	–	–	2-3	2-3	2500	0	3
St. Abbs Head	93·6	+32	WNW	6	b-bc	38	75	30	7	4	–	–	2-3	2-3	4000	0	5
Leuchars ...	94·2	+26	NW	5	b	37	65	28	8	5	–	–	Tr	Tr	5000	0	*
Renfrew (Abbots I.)	97·7	+22	WNW	3	b	36	85	30	8	–	4	–	0	Tr	–	3	*
Eskdalemuir ...	97·0	+30	NW'N	5	b	34	75	26	8	–	–	–	0	0	–	3	*
Point of Ayre ...	99·8	+24	NNW	7	phR	40	92	38	7	9	–	–	7-8	7-8	2000	1	4
Tiree ...	99·2	+18	NW	4	bc/ps	38	92	36	8	8	–	–	4-6	4-6	2000	1	4
Stornoway ...	95·5	+24	NW	4	bc/phr	37	75	28	8	8	–	–	4-6	4-6	1800	1	3
Dalwhinnie ...	95·0	+22	NW	3	bc	31	92	28	8	5	–	–	4-6	4-6	2500	8	*
Aberdeen † ...	91·4	+26	WNW	4	b	36	75	29	8	3	–	–	1	1	2500	1	3
Wick ...	90·2	+26	NW	5	c-bc	37	85	33	7	9	–	–	7-8	7-8	800	1	*
Sumburgh ..	84·2	+18	NW'N	6	bc/phr	41	65	30	8	3	–	3	4-6	4-6	1500	1	3
Blacksod Point	04·5	+6	NNW	6	c-bc	45	75	38	8	9	–	–	7-8	7-8	2500	1	5
Malin Head ...	00·5	+16	NW	4	rc6	40	85	36	7	–	2	–	10	10	1500	2	5
Aldergrove ...	01·5	+18	NNW	4	bc	37	97	36	8	2	3	–	4-6	4-6	3000	1	*
Birr Castle ...	04·7	+6	S	2	b	35	85	31	8	–	–	–	0	0	–	1	*
Valentia Obsy.	08·5	+2	S'W	3	pr	44	85	40	9	8	–	–	4-6	4-6	2400	1	2
Roches Point	08·5	+18	NNW	3	b	42	85	38	8	–	–	–	0	0	–	1	3

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)	48	37	31	–	–	1·7
Croydon ...	49	38	35	–	–	1·8
S. Farnborough	49	37	31	Tr	–	3·0
Boscombe Down	47	36	31	0·2	–	2·1
Thorney Island	51	37	31	–	–	*
Lympne ..	49	35	30	Tr	Tr	1·9
Manston ...	50	39	37	–	1	2·4
Shoeburyness ...	50	37	30	–	1	4·7
Felixstowe ...	49	38	34	–	2	5·5
Gorleston ...	50	38	32	–	2	6·2
Mildenhall ...	49	35	28	–	3	4·5
Cranwell ...	48	35	29	1	2	6·0
Birmingham ...	45	34	32	–	4	3·1
Upper Heyford	48	36	31	–	0·1	*
Ross-on-Wye	50	38	33	0·1	–	5·2
Hartland Point	49	40	42	10	–	0·9
Bristol ...	47	36	29	0·6	–	2·3
Portland Bill ...	50	45	*	2	–	*
Plymouth ...	49	46	35	2	1	0·3
The Lizard ...	50	43	*	1	0·5	*
Scilly (St. Mary's)	50	46	*	1	–	0·3
Guernsey ...						
Pembroke ...	50	42		–	–	1·0
Holyhead (Valley)	48	40	36	–	Tr	*
Chester (Sealand)	50	37	33	Tr	7	3·3
Manchester ...	47	37	30	5	3	*
Spurn Head ...	49	39	*	1	Tr	3·4
Catterick (Sc) ...	47	33	30	0·2	–	3·1
Tynemouth ...	48	35	31	0·3	–	*
St. Abbs Head	47	36		2	–	*
Leuchars ...	46	36	32	0·1	–	0·0
Renfrew (Abbots I.)	47	35	29	0·1	Tr	0·6
Eskdalemuir ...	44	32	28	9	0·1	0·0
Point of Ayre ...	49	39	*	3	5	0·0
Tiree ...	45	35	32	5	1	1·2
Stornoway ...	43	34	31	0·5	2	0·1
Dalwhinnie ...	40	31	26	3	0·6	0·0
Aberdeen † ...	46	34	31	3	2	0·4
Wick ...	45	35	33	1	2	*
Sumburgh ..	44	37	33	0·3	2	0·2
Blacksod Point	47	42	*	1	0·1	*
Malin Head ...	40	40		1	1	0·6
Aldergrove ...	45	35	30	3	2	0·8
Birr Castle ...	46	35	29	1	–	2·1
Valentia Obsy.	47	42	37	1	1	1·4
Roches Point	47	41	*	0·5	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 24th November / 18h. G.M.T. / 01h. G.M.T. 25th November / 07h. G.M.T.

III	$C_L C_M$	wwVhNh	DDFWN	$C_L C_M$	wwVhNh	DDFWN	$C_L C_M$	wwVhNh	DDFWN	$C_L C_M$	wwVhNh	DDFWN
109				86	25753	637	8-	27654	62784	36	27654	61685
115	87	02744	65627	87	88844	65586	87	88744	65587	34	14864	99784
203							80	01844	32684			
206	57	22854	61667	86	81854	28265	3-	85758	59588	3-	85865	59485
210	62	64635	64768	57	02854	63784	2-	01854	63514	2-	01854	57414
219	86	02855	64787	30	01853	63713	20	01853	63783	30	25854	31484
230	96	10865	28727	46	01964	62425	9-	88856	61686	3-	27854	28384
245	8-	81856	28388	50	02854	28484	50	01861	61511	50	01851	26401
260	52	02765	22328	57	05634	28524	50	05653	26213	50	05551	20111
278	97	25834	61688	94	81854	62725						
279	57	02844	55566	87	02754	26585	00	00790	28210	53	01762	26312
285	62	63635	24668							13	00851	30502
288				5-	22756	59566	00	00890	59420	00	00890	58500
575	37	81757	59388	30	25853	63483	3-	25745	63385	9-	81646	28287
301	87	02744	24887	8-	25668	26688	50	01763	28513	3-	81745	25485
321	8-	02757	55687	52	62645	58588	04	05690	22461	04	05690	26401
299	8-	02747	20517	80	02744	22414	50	01744	24514	80	01742	24402
292				57	61846	59688	50	01862	26561	00	00890	26410
310												
614	24	01754	57414	8-	81647	56587	50	05664	28314	50	05653	24203

13h. G.M.T. 24th November / 18h. G.M.T. / 01h. G.M.T. 25th November / 07h. G.M.T.

III	$C_L C_M$	wwVhNh	DDFWN	$C_L C_M$	wwVhNh	DDFWN	$C_L C_M$	wwVhNh	DDFWN	$C_L C_M$	wwVhNh	DDFWN
333	36	02845	53527	24	02755	60	20	01754	57684	20	01763	59513
334	--	63637	24488									
340	8-	29945	57584	47	02865	26417	8-	82665	30385	3-	81855	25385
136	53	01864	53514	5-	61758	53618	50	01762	59662	50	01861	59601
336	80	25655	28685	52	22656	24568				50	01753	28513
350	10	01853	24613	50	01753	55513	5-	02663	24423	50	01764	26404
368	30	01754	57484	34	01753	28483	20	25643	28483	80	01743	26313
379	20	01855	55515	54	02752	22483	50	01753	20303	50	01853	24483
390	10	05655	22416	00	00490	22410	5-	05553	57423	00	05690	26400
382	20	01753	57513	46	01753	24413	5-	02865	59325	80	01862	59412
438	87	02754	22725	80	01754	24614	50	01763	28613	50	01763	28513
430	26	02752	55426	50	05662	26322	50	01762	24412	50	01761	28311
409	32	88744	58587	36	27854	57485	30	01864	62614			

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 November
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 ...	b,cmobc	bccbcmo	bbcmobw
Croydon ...	bcmo2oc	cmbc2o	bccmob2o
Greenwich ...	bc	cb	bcbmo
Camden Square	bbc	c	*
Kensington ...	bc	cbc	*
Hampstead ...	bc	bc	bc

Atmospheric Pollution, Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0·3 Time 17–18h 24th. Min. <0·1 Time 0–4h 25th.

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	37	31	–	–	1·7	*	*
Croydon ...	49	38	35	–	–	1·8	*	*
Greenwich ...	49	38	30	–	–	3·2	66	70
Westminster ...	49	37	30	–			86	79
Regents Park ...	49	39	33	–	–		67	73
Camden Square	48	32	32	–	–	*	*	77
Kensington ...	47	38	29	–	–		77	74
Hampstead ...	47	35	29	–	–		*	77

Page 1 BRITISH SECTION

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

SECRET

Friday 26th November 1943

No.

OBSERVATIONS at 13h. G.M.T. 25th November

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)	06.4	+12	W	4	bc	46	55	29	8	8	-	-	4-6	4-6	4000
	Croydon	06.1	+6	W	4	b-bc	46	55	31	6	1	-	-	2-3	2-3	3000
	S. Farnborough	07.1	+10	W'S	4	b-bc	47	55	32	8	1	-	-	2-3	2-3	3000
	Boscombe Down	08.3	+8	WNW	4	bc	46	55	32	8	1	-	2	4-6	4-6	2500
	Thorney Island	08.3	+12	W'N	4	b	47	65	35	7	1	-	-	Tr	Tr	4000
	Lympne	06.0	+14	WNW	4	z₀	45	55	32	6	-	4	9	0	2-3	-
	Manston	05.0	+18	NW'W	4	b	45	65	34	7	-	-	-	0	0	-
2	Shoeburyness	05.9	+8	W'N	4	b-bc	46	55	31	7	1	-	-	2-3	2-3	5700
	Felixstowe	04.3	+22	NW'W	5	b	44	65	33	7	1	-	-	1	1	2500
	Gorleston	00.2	+12	WSW	4	b	43	55	29	7	-	-	-	0	0	-
	Mildenhall	03.4	+18	W	5	b	44	75	35	8	1	4	-	1	1	3000
	Cranwell	03.1	+20	W	4	z₀	41	85	36	6	5	7	-	4-6	4-6	2500
3	Birmingham	04.7	0	W	4	z₀	44	65	32	6	8	-	-	4-6	4-6	1500
	Upper Heyford	05.1	+2	W'N	5	bc	44	65	33	8	8	3	5	2-3	4-6	3000
4	Ross-on-Wye	06.3	+2	W'S	4	b-bc	47	55	32	8	8	-	1	1	2-3	3500
5	Hartland Point	08.4	-8	WNW	4	bc	48	75	39	8	2	6	1	2-3	4-6	2500
	Bristol	08.0	+4	W	4	c-bc	47	65	35	7	1	-	6	1	7-8	2500
	Portland Bill	08.9	+4	W	5	c	49	85	45	8	2	4	-	4-6	9	4000
	Plymouth	10.5	+2	W	4	c-bc	51	65	38	8	2	-	2	4-6	7-8	2500
	The Lizard	10.4	-4	WNW	4	bc	50	65	38	8	2	6	-	4-6	4-6	3000
	Scilly (St. Mary's)	10.6	-4	SW'W	2	bc	48	75	42	8	8	4	3	2-3	4-6	1500
	Guernsey															
6	Pembroke	09.5	+6	W'N	3	c-bcq	49	75	41	8	1	-	-	7-8	7-8	2000
7	Holyhead (Valley)	05.0	+2	W'N	7	c-bc	45	75	38	8	2	-	1	4-6	7-8	2500
	Chester (Sealand)	02.9	-2	WNW	5	bc	46	65	36	8	3	6	9	2-3	4-6	5000
8	Manchester	03.3	+4	WNW	4	∞pr	38	92	36	6	9	-	-	9+	9+	2000
10	Spurn Head	00.9	+20	W	7	b-bcq	42	75	34	6	2	3	-	2-3	2-3	2500
	Catterick (Sc)	00.5	+10	WNW	5	bc	42	65	30	9	5	3	-	2-3	4-6	3000
	Tynemouth	99.1	+20	W	4	b-bc	40	75	32	7	-	4	1	0	2-3	-
11	St. Abbs Head	96.9	+8	W	6	b-bc	39	75	30	7	1	-	9	2-3	2-3	3000
	Leuchars	97.2	+6	WNW	5	b	41	55	28	9	1	4	-	Tr	Tr	3500
12	Renfrew (Abbots I.)	01.6	+16	W	3	b-bc	42	65	33	8	2	4	-	2-3	2-3	2500
	Eskdalemuir	99.7	+6	WNW	4	b-bc	39	65	27	8	1	4	-	1	2-3	2700
	Point of Ayre	02.7	+4	N'W	5	cPHR	42	85	37	8	9	-	-	9+	9+	3000
13A	Tiree	02.9	+16	WNW	3	b-bc	40	85	36	9	3	6	3	2-3	2-3	2000
13B	Stornoway	99.2	+14	NW	4	cprh	41	75	32	8	3	-	-	7-8	7-8	2200
15	Dalwhinnie	98.2	+16	NW	4	bc	35	65	25	8	5	-	-	4-6	4-6	4000
	Aberdeen	93.6	+4	WNW	7	b	40	55	26	8	3	-	-	1	1	2500
	Wick	93.4	+8	NW	3	cpr	38	75	31	7	9	-	-	9+	10	800
16	Sumburgh	87.1	+14	NW	6	∞pr	41	85	38	8	3	6	3	7-8	9+	1600
17	Blacksod Point	06.6	+14	NNW	3	bc	45	75	38	8	9	-	-	4-6	4-6	2500
18	Malin Head	03.3	+14	NNW	3	bc	41	75	34	8	2	-	-	4-6	4-6	1500
	Aldergrove	04.2	+10	W'N	3	bc	41	75	33	8	3	-	3	4-6	4-6	1500
19	Birr Castle	06.8	+2	WSW	2	c-bc	45	85	41	8	5	-	3	4-6	7-8	2500
20	Valentia Obsy.	08.8	-6	WNW	3	b-bc	49	65	37	9	2	6	-	2-3	2-3	2800
	Roches Point	08.9	-4	W'N	2	b-bc	47	85	43	8	2	-	1	1	2-3	2500

OBSERVATIONS at 18h. G.M.T. 25th November

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)	07.2	+6	W'S	3	r₀r₀	43	75	36	5	5	-	-	10	10	2500	1	*
Croydon	07.2	+4	SW	4	z₀	43	75	35	6	5	-	-	9	9	3500	0	*
S. Farnborough	07.9	+2	W	4	c/r	41	75	35	8	5	7	-	7-8	9+	5500	1	*
Boscombe Down	08.2	0	WSW	2	bc	38	85	34	8	4	7	-	4-6	4-6	2000	0	*
Thorney Island	08.6	-12	WSW	2	z₀	44	65	34	6	1	4	8	2-3	4-6	4000	1	*
Lympne	07.3	+10	WSW	3	b	38	75	31	7	-	4	1	0	1	-		§
Manston	06.2	+10	W'S	3	z₀	40	75	32	6	1	3	-	1	2-3	2500	1	*
Shoeburyness	07.0	+2	WSW	3	z₀	42	75	33	6	5	7	-	4-6	4-6	2500	1	*
Felixstowe	04.9	+10	WNW	4	pr	41	85	36	6	8	-	-	4-6	10	1500	1	4
Gorleston	02.6	+4	NW'W	4	bc	40	85	34	7	5	-	-	4-6	4-6	1500	0	3
Mildenhall	04.9	+6	WSW	2	pr	37	97	36	6	8	-	-	9+	9+	2500	1	*
Cranwell	03.5	-2	W'S	3	z₀	36	92	34	6	5	-	-	4-6	4-6	2500	0	*
Birmingham	06.0	+10	WSW	2	c-bc z₀	40	85	36	6	8	-	-	9+	9+	1500	1	*
Upper Heyford	06.2	+14	W	3	b-bc pr	40	85	36	8	-	6	-	0	7-8	-	1	*
Ross-on-Wye	07.1	+4	W'S	3	pr	40	85	37	8	8	-	-	2-3	2-3	3000	1	*
Hartland Point	07.8	+2	NW	4	pr	47	85	44	8	8	4	1	4-6	7-8	1500	1	4
Bristol	07.7	+2	W'S	3	c-bc	41	85	36	7	2	6	6	1	7-8	2500	1	*
Portland Bill	08.6	+4	W	5	c-bc	49	85	45	8	5	-	-	7-8	7-8	4000	1	4
Plymouth	09.3	-2	W	3	z₀	45	85	40	5	8	6	2	2-3	4-6	3000	1	2
The Lizard	08.8	-4	WNW	4	c-bc	47	85	43	8	8	4	-	7-8	7-8	2000	1	4
Scilly (St. Mary's)	08.8	-6	WSW	3	bc	47	85	43	8	3	-	-	4-6	4-6	1200	1	4
Guernsey																	
Pembroke	08.0	+2	NW	3	bc	48	85	44	8	2	-	-	4-6	4-6	2000	0	4
Holyhead (Valley)	06.1	+8	NW'N	3	bc	42	85	37	8	2	-	-	4-6	4-6	2500	1	3
Chester (Sealand)	04.9	+16	WNW	4	pr	41	85	35	8	3	6	3	4-6	4-6	3500	1	*
Manchester	05.2	+12	S'W	3	z₀	34	97	33	6	4	-	-	2-3	2-3	2500	1	*
Spurn Head	00.2	+8	W	5	b	40	75	34	7	-	-	-	0	0	-	0	5
Catterick (Sc)	02.8	+20	W	4	b	37	75	30	8	5	-	-	Tr	Tr	4000	0	*
Tynemouth	01.9	+16	W	4	b-bc	37	75	29	7	-	4	-	0	2-3	-	0	3
St. Abbs Head	99.3	+14	WNW	5	b	39	65	29	7	5	-	-	Tr	Tr	4000	0	5
Leuchars	00.6	+18	W	3	b	37	65	26	9	4	-	-	Tr	Tr	5000	0	*
Renfrew (Abbots I.)	03.9	+18	SW	2	b	34	85	29	7	8	-	-	1	1	2000	3	*
Eskdalemuir	02.7	+16	WNW	4	b	33	65	24	8	2	-	-	1	1	2900	3	*
Point of Ayre	04.2	+6	NNW	5	b-bc	40	85	35	8	3	-	-	2-3	2-3	2000	1	4
Tiree	05.0	+8	W'N	3	bc	37	92	35	8	2	-	-	4-6	4-6	2000	1	3
Stornoway	02.0	+18	NW	4	bc	37	85	32	8	3	-	-	4-6	4-6	2000	2	3
Dalwhinnie	01.0	+14	-	0	bc	33	85	29	8	5	-	-	4-6	4-6	2500	4	*
Aberdeen	98.0	+24	NW	6	b-bc	36	85	32	8	5	-	-	2-3	2-3	2500	1	4
Wick	97.9	+32	SSW	5	c-bc	41	65	30	8	9	-	-	7-8	7-8	1000	1	*
Sumburgh	91.8	+24	NW'W	7	cbc phr	39	85	35	7	9	3	-	7-8	7-8	2200	1	
Blacksod Point	08.1	+10	NW'N	1	b-bc	41	75	34	8	5	-	-	2-3	2-3	2500	1	2
Malin Head	04.9	+14	WNW	3	pr	41	75	34	8	2	-	2	4-6	4-6	2500	2	3
Aldergrove	06.3	+18	W'S	3	c-bc	38	92	35	8	4	3	1	2-3	7-8	2500	1	*
Birr Castle	06.7	+4	WNW	2	b-bc	37	85	33	8	-	4	-	0	2-3	-	1	*
Valentia Obsy.	09.0	+6	-	0	b-bc	42	75	35	9	2	-	-	2-3	2-3	2600	1	0
Roches Point	08.3	+2	W'N	2	b-bc	45	85	41	8	5	-	-	2-3	2-3	2500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 25th (39)	Weather 13h.—18h. 25th (40)	Weather 18h. 25th to 1h. 26th (41)	Weather 1h.–7h. 26th (42)
London (Kew)	bm₀wbc	bcycm₀m₀	crbcbm₀	bm₀fx
Croydon	bm₀m₀zy	bzycz₀	bm₀	bm₀bfxe
S. Farnborough	bybcy	bccirc	crocbx	bxbcm₀bf
Boscombe Down	b	bcycbc	bbcbm₀b	b
Thorney Island	bbc	bccm₀bcm₀	bm₀	bm₀x
Lympne	bm₀z₀	bczb	bcprm₀bcm₀w	bbcm₀wx
Manston	b	bbc	bm₀	bbcm₀
Shoeburyness	bcz₀y	bcz₀ybcz₀	bcz₀	bcm₀
Felixstowe	bbz₀	cprm₀	b	bm₀x
Gorleston	bcb	bc	bcbw	bxbcz₀
Mildenhall	bxb	bccpre	cprobx	bxbm₀x
Cranwell	bz₀bcz₀	ctczbz₀	bz₀bm₀	bm₀
Birmingham	cbc	bcpshprc	cbc	bcx
Upper Heyford	bcb	bcpr₀	bcb	bxbcxbx
Ross-on-Wye	bbc	bccprc	bcb	bm₀bcm
Hartland Point	bcpr	bccprc	cbcpr	bcc
Bristol	bm₀	ccpc	cbcb	bcm₀x
Portland Bill	bcc	cc	bcb	bcbc
Plymouth	bbm₀bc	bccm₀	bcm₀cmw	bcm₀wx
The Lizard	bccbc	bcprc	bcw	bc
Scilly (St. Mary's)	bcp₀	bc	bcw	bcw
Guernsey				
Pembroke	bccq	bcq	bc	bc
Holyhead (Valley)	bcc	cbc	bbc	cbc
Chester (Sealand)	bccphr₀	bcpr	bcprc	cpr₀m₀
Manchester	prprhq	prntcbc	bcm₀bmx	bbcmxl
Spurn Head	bcqm₀	b	b	bm₀
Catterick (Sc)	bbc	bcb	b	b
Tynemouth	bm₀bc	bc	bcb	b
St. Abbs Head	bbcbbc	bcm₀bc	bcm₀	b
Leuchars	bby	byb	b	bbx
Renfrew (Abbots I.)	bbcx	bcbbx	bm₀x	bm₀xbx
Eskdalemuir	bxvbc	bcbx	bxb	bc
Point of Ayre	cPHR	PHrprc	b	cprc
Tiree	bcc	bcjpbc	bc	bcprprobc
Stornoway	becphcpr	hcprhcprsbc	bcprosbc	cprocpshbbc
Dalwhinnie	cm₀ps	bc		bcb
Aberdeen	b	bbccprsbc	bcb	bx
Wick	bcphrcpr	cphm₀c	bc	cbcpsbc
Sumburgh	cphp	cprhq	bcphr	cprbc
Blacksod Point	pr	bc	bc	bc
Malin Head	pr	pr	pr	pr
Aldergrove	bccprsbc	bcbbc	bcbcxbc	cxbcxcx
Birr Castle	c	pr	*	b
Valentia Obsy.	pr	bc	pr	bc
Roches Point	bc	bc	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 26th November 1943

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Calm to light variable breeze; fine, but higher cloud increasing tomorrow; some local morning fog tomorrow; cold with keen to hard frost night and morning.
5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England	Light variable wind becoming west to southwest freshening tomorrow; fine today; cloud increasing with chance of rain before end of period; rather cold; keen to hard frost tonight; becoming slowly milder tomorrow.
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	Calm to light variable breeze, becoming Southwest increasing fresh perhaps strong on coast; fine to fair today; cloud increasing; some snow or sleet changing to rain tomorrow; cold today with some frost at night then becoming milder.
15 N.E. Scotland; 16 Orkneys and Shetlands	Fresh northerly winds, decreasing light variable to southwesterly; wintry showers; bright periods; cold.
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	Light variable winds becoming southwest, increasing fresh perhaps strong on coast tomorrow; fair today; dull and rainy tomorrow; cold today becoming milder.

GENERAL INFERENCE

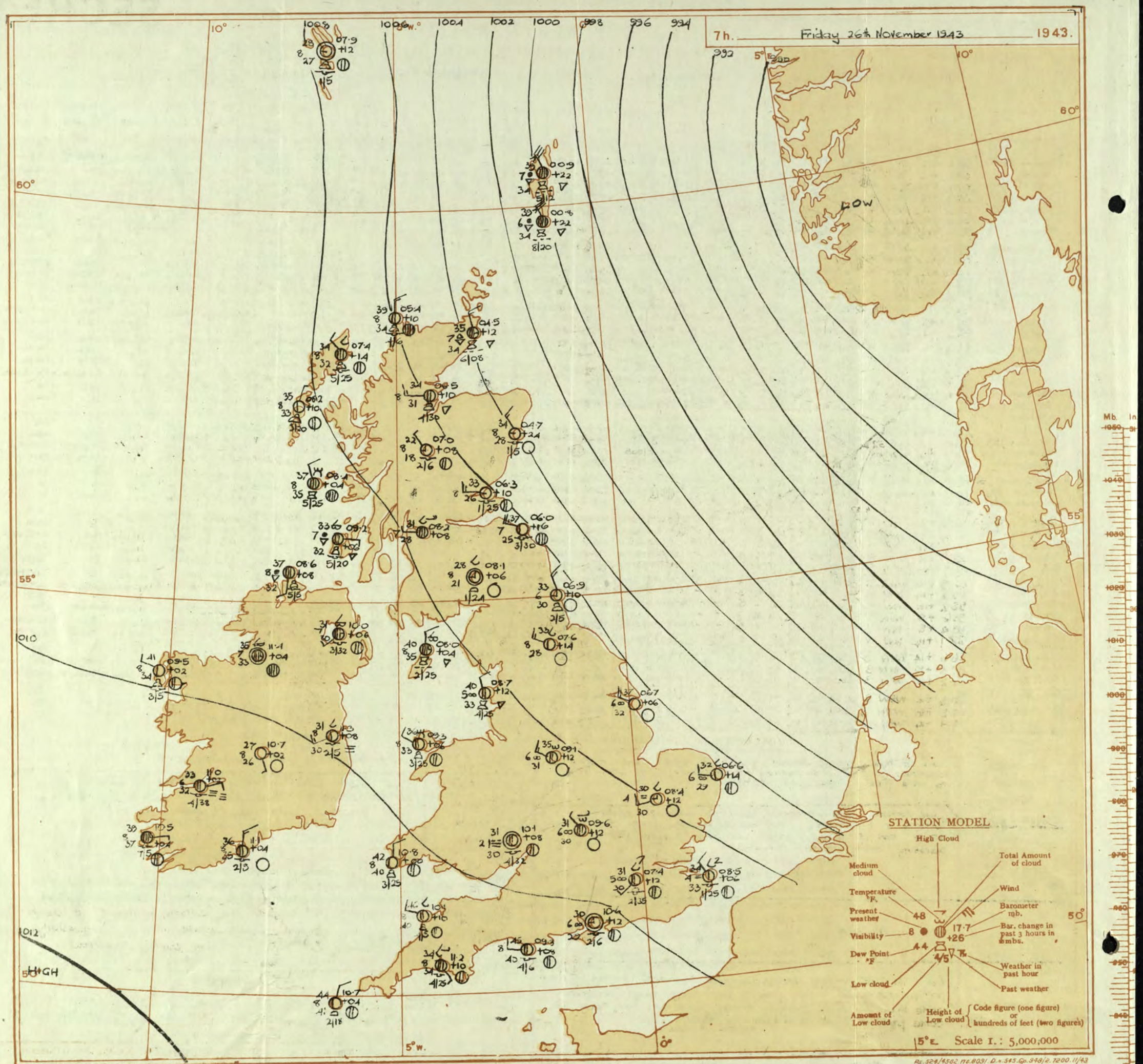
A ridge of relatively high pressure over Southern and western Britain will move slowly east, giving mainly fine weather today everywhere except for a few wintry showers in the extreme northwest. A deep depression developing west of Iceland will cause milder southwesterly winds, with precipitation to spread eastwards over the country tomorrow.

FURTHER OUTLOOK

A change to a generally unsettled mild southwesterly type of weather with probability of strong winds at times and gales on parts of the coast

Forecasts issued at 10-30

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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Rs. 524/4582 Wt. 8091. D.x.545. Gp. 948/2. 7200. 11/43

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 26th November 1943

No.

OBSERVATIONS at 1 hr. G.M.T. 26th November

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	*	*	*	*	*	37	*	*	*	*	*	*	*	*	*
	Croydon ...	290	08·9	+10	WSW	2	b	35	97	34	6	5	–	–	1	1	3000
	S. Farnborough	226	08·6	+2	–	0	b	33	97	33	7	–	–	–	0	0	–
	Boscombe Down	417	09·4	+4	NN	2	b	35	92	34	7	–	–	–	0	0	–
	Thorney Island	10	08·9	+2	NW	3	Zo	37	92	34	6	–	–	–	0	0	–
	Lympne ..	283	08·6	+4	NW	2	Zo	33	97	33	6	–	–	–	0	0	–
	Manston ...	154	07·3	+6	WNW	2	Zo	36	92	34	6	–	–	–	0	0	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	06·6	+10	W	3	b	37	97	35	7	–	–	–	0	0	–
	Gorleston ...	5	05·0	+12	WNW	2	b	33	85	30	7	–	–	–	0	0	–
	Mildenhall ...	15	06·7	+6	NS	3	b	34	97	32	7	–	–	–	0	0	–
	Cranwell ...	203	04·8	+4	WSW	2	Zo	32	97	31	5	–	–	–	0	0	–
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	07·8	+4	WSW	1	b	32	97	32	7	–	3	–	0	1	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	09·1	+6	N	2	bc/pr	45	92	43	8	3	–	–	4-6	4-6	1500
	Bristol ...	209	09·7	+10	WSW	1	Zo	35	92	33	6	–	–	–	0	0	–
	Portland Bill ...	32	08·9	+4	N	3	bc	47	85	43	8	5	–	–	4-6	4-6	4000
	Plymouth ...	86	10·0	+2	SSE	1	Zo	36	97	31	5	5	–	–	2-3	2-3	3000
	The Lizard ...	240	10·0	+2	NW	3	b-bc	43	92	41	8	2	–	–	2-3	2-3	2000
	Scilly (St. Mary's)	163	10·3	+6	NNW	2	b-bc	44	92	41	8	2	–	–	2-3	2-3	1500
	Guernsey ...	175															
6	Pembroke ...	142	09·6	+6	NNW	3	b-bc	45	85	42	8	2	–	–	2-3	2-3	2500
7	Holyhead (Valley)	32	08·2	+10	NW	1	b-bc	38	85	36	8	2	–	–	2-3	2-3	2500
	Chester (Sealand)	16	07·3	+8	NNW	1	c	37	85	34	7	3	–	–	9+	9+	2500
8	Manchester ...	230	07·6	+6	SSW	2	m	31	97	31	4	–	–	–	0	0	–
10	Spurn Head ...	29	05·3	+8	NN	5	b	37	85	32	7	–	–	–	0	0	–
	Catterick (Sc.) ...	192	05·2	+6	WNW	4	b	35	75	29	8	–	–	–	0	0	–
	Tynemouth ...	108	05·3	+14	NW	4	b	34	85	30	7	–	–	–	0	0	–
11	St. Abbs Head	280	04·0	+22	WNW	6	b-bc	39	65	28	7	5	–	–	2-3	2-3	4000
	Leuchars ...	36	04·5	+16	NW	4	b-bc	35	75	28	7	5	–	–	2-3	2-3	3000
12	Renfrew (Abbots I.)	19	06·2	+6	WSW	2	Zo	33	85	28	6	–	–	–	0	0	–
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	07·7	+18	N	4	b-bc	42	85	39	8	3	–	–	2-3	2-3	2000
13A	Tiree	44	07·2	+6	NW	3	pr	38	85	34	8	8	–	–	4-6	4-6	2000
13B	Stornoway ...	12	05·6	+14	–	0	pr	33	97	32	8	3	–	–	9	9	1000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	02·6	+18	WNW	5	b	35	85	32	9	3	–	–	1	1	2000
	Wick ...	114	01·6	+10	NNW	4	b-bc	37	85	33	8	8	–	–	2-3	2-3	1000
16	Sumburgh ..	19	97·5	+22	NNW	5	pr	39	85	35	6	3	–	–	9	9	1500
17	Blacksod Point	18	09·5	+2	WNW	1	bc	41	75	34	8	5	–	–	4-6	4-6	2500
18	Malin Head ...	84	07·4	+6	S	1	bc	36	85	31	8	2	–	–	4-6	4-6	2500
	Aldergrove ...	268	08·8	+6	–	0	b	31	92	30	8	4	–	–	1	1	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	10·4	+4	–	0	b	35	92	33	8	5	–	–	1	1	2500
	Roches Point	22	10·7	+10	NNW	3	b	40	97	39	8	5	–	–	1	1	2500

OBSERVATIONS at 7 hr. G.M.T. 26th November

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)	09·6	–6	SW	2	bf+	34	92	33	2	5	–	–	1	1	4000	1	*
	Croydon ...	07·4	+12	SW	1	Zo	31	97	30	3	4	4	4	1	4-6	3500	1	*
	S. Farnborough	10·2	+10	–	0	bf+	30	97	29	3	5	4	–	Tr	Tr	3500	3	*
	Boscombe Down	10·4	+10	NW	2	b	32	97	32	7	–	7	–	0	Tr	–	0	*
	Thorney Island	10·6	+12	–	0	Zo	30	97	29	6	5	–	–	1	1	4000	1	*
	Lympne ..	09·8	+10	NN'N	2	Zo	32	97	32	6	5	–	–	4-6	4-6	1000	1	3
	Manston ...	08·5	+6	NW	2	m	34	97	33	4	5	4	5	Tr	2-3	2500	1	*
2	Shoeburyness ...	09·8	+6	N	2	m	34	92	32	4	–	7	–	0	4-6	–	1	*
	Felixstowe ...	08·0	+12	N	3	Zo	37	75	31	6	5	–	2	1	1	2500	0	2
	Gorleston ...	06·6	+14	NN	2	Zo	32	85	29	6	–	4	–	0	2-3	–	1	2
	Mildenhall ...	08·4	+12	WSW	3	m	30	97	30	4	–	4	–	0	1	–	1	*
	Cranwell ...	06·7	*	N	3	Zo	31	97	29	5	5	–	–	1	1	4000	0	*
3	Birmingham ...	09·5	+6	N	2	Zo	36	85	31	5	5	3	–	2-3	4-6	2500	1	*
	Upper Heyford	09·6	+12	NW	1	Zo	31	97	30	6	–	3	–	0	7-8	–	3	*
4	Ross-on-Wye	10·1	+8	–	0	bcf+	31	97	30	2	5	–	–	4-6	4-6	3500	1	*
5	Hartland Point	10·1	+10	WNW	2	c-bc	46	75	40	8	2	4	–	4-6	7-8	2500	1	3
	Bristol ...	10·7	+10	SSW	1	Zo	31	97	30	5	5	–	–	1	1	4000	3	*
	Portland Bill ...	09·8	+8	N	2	bc	45	85	40	8	5	–	–	4-6	4-6	4000	1	4
	Plymouth ...	11·2	+10	SE	1	c-bc	34	97	34	8	5	4	1	4-6	7-8	2500	1	1
	The Lizard ...	10·6	+6	NW	2	bc	42	85	37	7	4	–	–	4-6	4-6	2500	1	3
	Scilly (St. Mary's)	10·7	+4	NNE	2	b-bc	44	92	41	8	1	4	–	1	2-3	1800	1	3
	Guernsey ...																	
6	Pembroke ...	10·8	+6	N	2	b-bc	42	92	40	8	2	–	–	2-3	2-3	2500	0	3
7	Holyhead (Valley)	09·3	+6	NNW	2	bc	36	85	33	8	2	6	–	2-3	4-6	2500	1	1
	Chester (Sealand)	08·7	+10	–	0	c-bc/pr	38	92	36	7	3	6	–	4-6	7-8	3500	1	*
8	Manchester ...	09·4	+14	SE	1	b-bcf+	32	97	32	3	4	6	3	2-3	2-3	3000	3	*
10	Spurn Head ...	06·7	+6	WNW	4	Zo	37	85	32	6	–	–	–	0	0	–	0	4
	Catterick (Sc.) ...	07·6	+14	WNW	3	b-bc	33	75	28	8	–	4	–	0	2-3	–	0	*
	Tynemouth ...	06·9	+10	NNW	3	b	33	85	30	6	2	–	–	1	1	2500	1	
11	St. Abbs Head	06·0	+16	WNW	5	b-bc	37	65	25	7	4	–		2-3	2-3	3000	0	4
	Leuchars ...	06·3	+10	W	3	b	33	75	26	8	5	–	–	Tr	Tr	2500	3	*
12	Renfrew (Abbots I.)	08·2	+8	W	1	ebc	31	85	28	7	–	4	2	0	7-8	–	3	*
	Eskdalemuir ...	08·1	+6	–	0	b	28	75	21	8	1	4	–	Tr	1	2400	1	*
	Point of Ayre ...	08·0	+4	NN	2	c	40	85	35	8	9	7	–	1	9+	2500	1	2
13A	Tiree	08·4	+4	NNW	2	c-bc	37	92	35	8	3	6	–	7-8	7-8	2500	1	1
13B	Stornoway ...	07·4	+14	NW	2	c-bc	34	92	32	8	8	4	–	7-8	7-8	2500	5	2
15	Dalwhinnie ...	07·0	+8	NW	1	b	22	85	18	8	5	–	–	1	1	4000	4	*
	Aberdeen † ...	04·7	+24	NW	3	b	34	75	28	8	5	–	–	Tr	Tr	2500	3	3
	Wick ...	04·5	+12	NNW	3	phr	35	97	34	7	9	–	–	9	9	800	1	*
16	Sumburgh ..	00·8	+22	NW	6	pr	39	85	34	6	9	–	–	10	10	2000	1	3
17	Blacksod Point	09·5	+2	NN	1	b-bc	41	75	34	8	8	–	–	2-3	2-3	2500	1	2
18	Malin Head ...	08·6	+8	S	2	pr	37	85	32	8	8	–	–	7-8	7-8	2500	2	2
	Aldergrove ...	10·0	+6	SNN	1	c	31	92	30	7	5	7	–	2-3	9	3200	1	*
19	Birr Castle ...	10·7	+2	SSE	1	b	27	97	26	8	–	–	–	0	0	–	1	*
20	Valentia Obsy.	10·5	+4	EN	1	c	39	92	37	8	5	–	–	9+	9+	2600	1	1
	Roches Point	11·1	+4	N	3	bc	36	97	35	8	5	–	5	1	4-6	2500	1	3

PAST 24 HOURS.

District	Stations	Temperatures 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 25th Hrs. (38)
1	London (Kew)	46	31	20	Tr	1	6·1
	Croydon ...	46	43	23	–	–	6·5
	S. Farnborough	47	28	18	Tr	Tr	6·7
	Boscombe Down	47	30	22	–	–	6·4
	Thorney Island	48	29	24	–	–	*
	Lympne ..	46	32		–	0·5	
	Manston ...	45	34	31	–	–	6·6
2	Shoeburyness ...	46	33	26	–	–	6·4
	Felixstowe ...	45	34	31	0·2	3	6·4
	Gorleston ...	44	31	31	–	–	6·8
	Mildenhall ...	44	30	23	2	Tr	4·8
	Cranwell ...	35	30	25	0·5	–	3·9
3	Birmingham ...	45	34	30	1	–	4·5
	Upper Heyford	45	40	22	Tr	–	*
4	Ross-on-Wye	47	31	22	2	–	5·9
5	Hartland Point	40	44	40	1	3	3·9
	Bristol ...	44	29	23	Tr	Tr	6·6
	Portland Bill ...	49	42	*	–	–	*
	Plymouth ...	52	34	24	–	–	6·2
	The Lizard ...	51	40	*	1	–	5·2
	Scilly (St. Mary's)	52	43	*	–	–	2·6
	Guernsey ...						
6	Pembroke ...	50	39	*	–	–	3·1
7	Holyhead (Valley)	47	36	29	Tr	–	*
	Chester (Sealand)	46	35	24	0·2	2	4·1
8	Manchester ...	40	30	24	5	0·2	*
10	Spurn Head ...	45	36	*	–	–	6·4
	Catterick (Sc.) ...	43	31	24	–	–	6·0
	Tynemouth ...	41	32	31	–	*	*
11	St. Abbs Head	40	37	*	–	–	*
	Leuchars ...	41	30	22	–	–	6·9
12	Renfrew (Abbots I.)	42	28	17	–	Tr	0·6
	Eskdalemuir ...	39	26	16	–	–	6·9
	Point of Ayre ...	44	38	*	3	0·5	1·2
13A	Tiree	*	34	27	1	1	3·7
13B	Stornoway ...	42	31	25	2	1	2·8
15	Dalwhinnie ...	36	21	13	Tr	–	3·3
	Aberdeen † ...	41	34	29	0·1	–	5·3
	Wick ...	41	34	31	3	1	*
16	Sumburgh ..	42	37	35	4	3	0·2
17	Blacksod Point	48	37	*	Tr	–	*
18	Malin Head ...	43	36		0·2	1	2·1
	Aldergrove ...	42	28	21	1	–	4·4
19	Birr Castle ...	46	26	21	0·1	–	3·8
20	Valentia Obsy.	50	35	29	Tr	Tr	5·6
	Roches Point	43	36	*	–	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 25th November / 18h. G.M.T.

III	$C_L C_M$	wwVhNh	DDFWN	$C_L C_M$	wwVhNh	DDFWN
109	86	82746	62687	8-	25756	64786
115	34	88844	99786	87	87834	53787
203						
206	3-	84748	57508	36	81755	24387
210	33	81855	58687	9-	81848	59588
219	9-	88846	28586	20	01854	30514
230				3-	25854	24284
245	16	01851	28502	54	01952	57492
260	00	00790	22410	50	61652	20202
278	36	25244	02440	31	01943	26283
279	86	01853	24414	84	01851	26312
285	13	01752	26513			
288	57	00861	58501	00	00890	22400
575	34	01762	28184	36	25354	03380
301	9-	27446	25287	24	25653	27383
321	36	81765	26515	00	05590	24380
296	20	01742	24402	20	01742	22302
292	34	01763	22414	44	01852	26213
310				20	01425	16445
614	9-	81547	26327	46	05541	25322

01h. G.M.T. 26th November / 07h. G.M.T.

III	$C_L C_M$	wwVhNh	DDFWN	$C_L C_M$	wwVhNh	DDFWN
109	8-	81648	62588	20	01753	28513
115	84	01834	32524	84	01864	32324
203						
206	20	01863	18483	20	01864	24384
210	4-	01853	25313	2-	81857	26487
219	20	01853	02388	20	01853	02113
230	40	01852	28312	30	08853	22183
245	04	01890	22111	04	01890	26101
260	00	05590	22200	04	08490	24101
278	30	01853	00013	5-	02867	00087
279	50	01861	28201	50	01861	00003
285				13	01861	30303
288	04	00890	24301	04	00890	22201
575	44	01851	00012	07	02790	00027
301	80	01754	29214	30	05554	30284
321	00	05590	25200	04	08490	24101
296	00	00790	24300	20	01742	24202
292	04	01761	22112	04	01790	24301
310				20	43203	24443
614	04	08490	24101	04	47390	00003

13h. G.M.T. 25th November / 18h. G.M.T.

III	$C_L C_M$	wwVhNh	DDFWN	$C_L C_M$	wwVhNh	DDFWN
333	23	02853	22426	24	02755	20225
334	--	88537	28388	--	27645	28316
340	87	31954	26615	80	01853	28323
136	23	04690	2350-	40	01872	22512
236	23	01754	28415	20	05654	2844
350	13	01853	57404	4-	01753	55413
368	86	81854	25485	86	01854	24284
379				34	25745	24385
390	14	01761	26402	80	41453	24443
382	13	01853	26514	96	25741	26386
438	60	01762	26512	17	02763	26517
430				50	05344	26224
409	16	01954	23414	36	81854	26386

01h. G.M.T. 26th November / 07h. G.M.T.

III	$C_L C_M$	wwVhNh	DDFWN	$C_L C_M$	wwVhNh	DDFWN
333	2-	02766	00016	37	02755	22185
334				--	02603	28113
340	50	01851	00001	8-	25856	26236
136	00	05690	24200	03	05690	26302
236				50	01754	28314
350	5-	05662	20102	00	04690	22104
368	50	05642	23112	53	05543	00003
379	50	01762	24202	53	01762	26214
390	00	05590	24300	07	05590	24213
382	00	00790	00000	03	47390	00013
438	00	00790	24310	50	01763	30413
430	00	00790	26210	04	01790	00012
409	36	02854	00084			

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 26th November
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	bmowbc	bcycmom	crbcfx	0·3	3·10h 25th
Croydon ...	bmomozy	bzcyczo	bmo		
Greenwich ...	bmo	bbccfo	fortbymf		
Camden Square	b	c	*		
Kensington ..	bc	bcapcr	*		
Hampstead ...	bc	bcorx	bc	0·1	0·5h 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 % Today
Kew	46	31	20	Tr	1	6·1	*	*
Croydon ...	46	43	23	–	–	6·5	*	*
Greenwich ...	46	29	26	–	1	5·5	57	90
Westminster ..	48	30	25		1		67	28
Regents Park ..	46	31	19	–	2		65	35
Camden Square	47	33	23	–	3	*	*	38
Kensington ..	44	31	18	Tr	1		70	34
Hampstead ..	46	31	24	–	3		*	36

SECRET

BRITISH SECTION

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

Saturday 27th November 1943

No. 29955

OBSERVATIONS at 13h. G.M.T. 26th November

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)	10·7	0	WNW	1	m	40	85	35	4	5	3	9	2-3	9+	4000
	Croydon	10·7	-6	W	1	m	42	75	35	4	-	4	9	0	9+	-
	S. Farnborough	12·9	+16	WNW	1	c	42	75	34	7	-	5	4	0	9-	-
	Boscombe Down	11·6	+2	NW'W	1	z0	40	85	36	6	-	5	-	0	9	-
	Thorney Island	11·5	+2	WNW	2	z0	44	85	37	6	-	7	6	0	9+	-
	Lympne	10·8	-2	NW	2	m	41	85	36	4	-	-	6	0	9	-
	Manston	09·7	+2	NW'W	2	m	42	75	35	4	-	-	6	0	7-8	-
2	Shoeburyness	10·9	-2	WNW	3	z0	43	75	35	5	-	-	6	0	4-6	-
	Felixstowe	08·9	-4	WNW	4	z0	42	65	30	6	-	-	6	0	7-8	-
	Gorleston	08·4	+10	NW'W	2	z0	40	65	31	6	-	-	8	0	2-3	-
	Mildenhall	09·8	+4	WSW	3	z0	39	85	34	6	-	3	2	0	4-6	-
	Cranwell	09·3	+2	W	2	m	34	92	34	4	-	3	6	0	7-8	-
3	Birmingham	10·6	0	WNW	2	m	39	85	35	4	5	3	-	4-6	9+	2500
	Upper Heyford	10·5	0	NW	1	z0	41	75	33	6	-	5	6	0	9	-
4	Ross-on-Wye	10·7	-2	W	2	c-bc	45	75	36	8	7	5	1	1	7-8	3500
5	Hartland Point	10·9	-4	NE	1	c-bc	46	75	40	9	2	4	6	2-3	7-8	2500
	Bristol	11·5	-2	W	1	z0	41	92	39	5	5	7	6	1	9+	5700
	Portland Bill	09·8	-6	NW	2	c	47	85	43	8	2	4	-	4-6	9	4000
	Plymouth	11·9	-2	-	0	z0	46	85	41	5	5	7	6	4-6	10	3500
	The Lizard	11·8	+4	-	0	c-bc	51	65	40	8	2	1	-	7-8	7-8	2500
	Scilly (St. Mary's)	11·6	0	-	0	c	51	75	42	8	8	7	-	9	9+	1500
	Guernsey															
6	Pembroke	11·2	-2	SSW	1	bc	48	75	42	8	2	4	1	2-3	4-6	2500
7	Holyhead (Valley)	10·6	0	WNW	2	c-bc	46	75	37	9	2	3	3	4-6	7-8	3000
	Chester (Sealand)	10·0	+6	W'S	1	c	43	75	37	7	8	3	5	7-8	9+	4000
8	Manchester	10·3	0	S'W	2	m	40	85	36	4	2	3	3	4-6	7-8	3000
10	Spurn Head	08·4	0	WNW	4	z0	39	55	25	6	2	4	2	2-3	4-6	2500
	Catterick (Sc)	08·6	+6	NW	4	bc	40	75	31	8	-	3	4	0	4-6	-
	Tynemouth	08·8	+2	W	3	b-bc	37	85	32	7	2	-	-	2-3	2-3	2500
11	St. Abbs Head	07·5	+6	W	4	b-bc	37	85	32	6	4	-	-	2-3	2-3	4000
	Leuchars	07·9	+6	W	2	b-bc	40	65	29	9	5	4	1	Tr	2-3	4000
12	Renfrew (Abbots I.)	09·8	+2	WSW	1	c	40	75	32	7	-	4	4	0	9	-
	Eskdalemuir	08·1	0	WNW	2	bc	37	55	22	8	7	4	2	Tr	4-6	3700
	Point of Ayre	05·3	+4	NW'N	2	c	44	75	35	8	9	6	-	4-6	9+	2000
13A	Tiree	08·8	0	-	0	c-bc	41	85	38	9	8	6	5	4-6	7-8	3000
13B	Stornoway	07·7	+2	W	2	bc	37	85	32	8	8	-	6	2-3	4-6	1800
15	Dalwhinnie		+2	N	1	c-bc	34	75	28	8	8	4	-	7-8	7-8	4000
	Aberdeen	06·4	+8	NW	5	b c-bc	38	75	31	8	3	-	-	Tr	Tr	2500
	Wick	06·8	+18	SW	1	phr	35	97	34	8	9	6	3	7-8	7-8	1000
16	Sumburgh	04·0	+14	NW'W	4	bc	39	85	34	8	3	6	3	4-6	4-6	2000
17	Blacksod Point	08·8	-10	S	1	c-bc	45	85	41	8	8	-	3	2-3	7-8	4000
18	Malin Head	08·3	-2	S'W	2	pr	40	75	32	8	8	-	2	4-6	7-8	2500
	Aldergrove	09·9	+2	S	1	z0	36	92	34	6	5	7	-	1	9+	1500
19	Birr Castle	10·5	-4	SSE	1	c	41	85	37	8	5	1	-	7-8	9+	2500
20	Valentia Obsy.	09·7	-2	SSE	4	ig	47	85	43	8	5	7	-	7-8	10	2000
	Roches Point	11·0	-4	N	1	z0	44	92	42	6	5	-	5	2-3	4-6	2500

OBSERVATIONS at 18h. G.M.T. 26th November

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)	11·5	+8	SW	1	bf	35	92	32	3	-	-	-	0	0	-	1	*
Croydon	11·6	+6	WSW	1	bf+	36	92	34	2	-	4	-	0	Tr	-	0	*
S. Farnborough	11·4	+6	W	1	z0	34	92	31	6	-	4	1	0	Tr	-	3	*
Boscombe Down	12·0	+4	-	0	z0	36	97	35	5	-	4	-	0	1	-	0	*
Thorney Island	11·9	+6	-	0	m	35	92	32	4	-	4	-	0	Tr	-	1	*
Lympne	15·5	+6	NNW	2	m	35	97	34	4	-	4	4	0	9	-	1	§1
Manston	10·5	+6	NNW	1	cbcf-	37	92	34	3	-	3	8	0	7-8	-	1	*
Shoeburyness	11·4	+4	WNW	2	cbcf	37	85	34	3	-	7	-	0	7-8	-	1	*
Felixstowe	10·0	+16	WNW	3	z0	37	85	33	6	-	-	1	0	Tr	-	0	3
Gorleston	08·7	+8	NW'W	2	z0	34	85	28	5	-	-	-	0	0	-	0	
Mildenhall	10·1	+4	N'S	2	m	35	92	32	4	-	-	-	0	0	-	1	*
Cranwell	10·1	+6	W'N	2	m	34	97	34	4	-	-	-	0	0	-	0	*
Birmingham	10·7	+2	SW	2	b-bcf+	35	92	33	3	5	-	-	2-3	2-3	2500	1	*
Upper Heyford	11·0	+4	WNW	1	z0	31	97	30	6	-	4	1	0	2-3	-	1	*
Ross-on-Wye	11·1	+4	W	1	b	37	85	32	8	5	-	-	1	1	3000	1	*
Hartland Point	10·8	-2	SE	2	bc	42	85	37	8	2	4	-	4-6	4-6	2500	1	3
Bristol	11·7	-12	SSW	2	z0	37	85	31	6	-	4	2	0	4-6	-	1	*
Portland Bill	11·1	+6	NW	2	c-bc	47	85	43	8	5	-	-	7-8	7-8	4000	1	4
Plymouth	11·9	+4	ESE	1	z0	44	85	45	5	5	7	-	4-6	9+	3500	1	1
The Lizard	11·9	+4	-	0	c	46	85	43	8	5	2	-	7-8	9+	1500	1	2
Scilly (St. Mary's)	11·5	+4	SW	4	id0	47	85	43	8	8	7	-	9	10	1600	1	
Guernsey																	
Pembroke	10·7	0	W'N	2	bc	45	85	41	8	2	4	-	2-3	4-6	2500	0	2
Holyhead (Valley)	10·2	0	-	0	c	38	85	34	8	8	3	-	7-8	9	4000		1
Chester (Sealand)	10·1	+4	-	0	z0	36	92	34	6	5	6	-	4-6	10	3000	1	*
Manchester	10·5	+2	SSW	1	m	35	97	34	4	4	-	-	2-3	2-3	4000	1	*
Spurn Head	09·4	+8	NW'W	4	b	39	75	32	7	-	-	-	0	0	-	0	3
Catterick (Sc)	09·6	+6	WNW	2	b-bc	31	85	28	8	-	3	-	0	2-3	-	0	*
Tynemouth	09·7	+10	W	3	z0	35	85	30	5	-	4	-	0	2-3	-	3	3
St. Abbs Head	08·6	+8	WNW	4	b-bc	38	75	30	7	4	-	-	2-3	2-3	4000	0	4
Leuchars	08·5	+8	W	2	b-bc	31	85	27	8	-	-	5	0	2-3	-	3	*
Renfrew (Abbots I.)	09·0	-2	-	0	bcf	33	92	31	3	-	7	-	0	4-6	-	3	*
Eskdalemuir	10·2	+8	-	0	c-bc	35	85	30	8	5	4	-	4-6	7-8	2700	3	*
Point of Ayre	09·1	0	N'S	2	b-bc	34	97	33	8	3	7	-	Tr	2-3	2000	1	
Tiree	07·4	-8	-	0	c	41	75	35	9	5	-	-	10	10	2000	1	
Stornoway	07·3	-2	-	0	bc	30	97	29	7	8	-	8	2-3	4-6	1800	3	1
Dalwhinnie	07·5	+4	-	0	b-bc	22	85	16	8	5	-	-	2-3	2-3	4000	4	*
Aberdeen	08·0	+12	WNW	2	z0	33	75	28	6	4	-	-	1	1	4000	3	2
Wick	07·3	+4	NW	1	bc	31	92	31	8	4	-	-	4-6	4-6	2500	5	*
Sumburgh	05·3	+6	N	3	b-bc	35	65	29	8	4	6	-	Tr	2-3	2000	1	3
Blacksod Point	05·1	-14	S'E	4	ir0	45	92	43	8	6	2	-	7-8	10	1500	1	3
Malin Head	07·2	-2	SE'S	1	c	39	85	37	8	5	-	-	10	10	2500	2	2
Aldergrove	09·7	+4	SSW	1	z0	34	92	32	6	-	1	-	0	9+	-	1	*
Birr Castle	07·7	-8	S	2	c	41	75	33	8	5	1	-	7-8	10	2500	1	*
Valentia Obsy.	06·7	-10	S'E	4	r0r0	48	97	48	6	6	-	-	10	10	700	1	3
Roches Point	08·6	-14	SSW	3	ir0	48	85	44	8	6	2	-	4-6	10	1500	1	3

PAST 24 HOURS.

Stations	Weather 7h.–13h. 26th (39)	13h.–18h. 26th (40)	18h 26th to 1h. 27th (41)	1h.–7h. 27th (42)
London (Kew)	bcfxcm	bcbfx	bfFx	cfrofx
Croydon	cm	czbcf	bfofbfx	bfcfbfxdof
S. Farnborough	bfmbcmz	cbcbm	bm0mfofbfx	bofxcrfm0ro
Boscombe Down	bcmcm0	cm0bcm0	bm0jfx	crorom0
Thorney Island	bccm0	cm0bcm	bfwbmow	beirocrorom0
Lympne	bmcm	cm	cmbccm	cbcbmx
Manston	bcbcm	czz0f	cfcbz0bf	bcfbcmx
Shoeburyness	bcmxcf	bcz0cf	cfbcm0	bcm0cm0x
Felixstowe	bmbcz0	cz0bm0	bcm0	bcm0x
Gorleston	bcz0z0	bcbz0	bz0x	bbccz0x
Mildenhall	bm0bcm0c	cm0bcm	bmxcmx	cmxbcmx
Cranwell	bcm0bcm	cm	bf	bfbcfcm
Birmingham	bccm	cmbf	fbm	bmoro
Upper Heyford	bcxcxcm0	czbcb	bcm0wcmx	cmxrfrorof
Ross-on-Wye	bcfcmbc	cbc	bbccro	com0r
Hartland Point	cbcc	cbc	bcc	ciriro
Bristol	bcfxc	cm0bcm0	cm0w	cdodom0dd
Portland Bill	cc	c	c	cd
Plymouth	cmcm0	cm0	cm0cidom0	cdo dom0
The Lizard	c	cpr0c	bccdd	ciddd
Scilly (St. Mary's)	bcc	cid0	cid0	cfd
Guernsey				
Pembroke	bcc	bc	crororr	cq
Holyhead (Valley)	cprbc	c	cororo	ororom0c
Chester (Sealand)	[illegible]	cprm0bc	bcm0	omdoc
Manchester	cxbcm	c	cffwbcm	cm dod0
Spurn Head	bcm0	b	bf	cm0
Catterick (Sc)	bc	bbc	bm0cm0	cm0cm
Tynemouth	bcm0	bcm0	bcm0	bcom
St. Abbs Head	bcbm0	bm0bcm0	bcm0bc	cbcm0croso
Leuchars	bxb	bx	bcm0	cshm0xcdom0x
Renfrew (Abbots I.)	bcm0mxcx	cm0bcfx	cfxcrororcm0	cm0idof
Eskdalemuir	bxbcx	bcxcx	cxbx	bxossdd
Point of Ayre	cpr	cb	bcroro	roroc
Tiree	cv	c	cvbcvcir0	cir0 dom0
Stornoway	cbc	bccbcfgbc	cid0	crrcid0crr
Dalwhinnie	p,c	cbc	*	bcps0o
Aberdeen	bxbbcpsb	bbx	bx	bxbccx
Wick	cphccph	cphcb	bcbbcc	cbccbc
Sumburgh	bcprs	pr0b	bcbbc	bc
Blacksod Point	c	r	pr	r
Malin Head	pr	c	r	r
Aldergrove	cxm0cm0	cm0cm0z	roromo	rorocid0cf
Birr Castle	c	c	*	d
Valentia Obsy.	r	r	r	d
Roches Point	c	r	r	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 27th November 1943

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Moderate southerly winds, veering southwest; cloudy and dull, with occasional drizzle; much hill fog and local ground fog; rather cold, becoming mild.
5 S.W. England; 6 South Wales; 7 North Wales	Moderate to fresh southwesterly winds; cloudy and dull, with occasional drizzle; much hill fog and local coast fog; mild.
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; 14 Mid Scotland	Moderate south to Southeast winds, freshening, with gales locally later, and winds veering southwest; occasional drizzle at first; more general rain later; much hill fog and local ground fog; rather cold.
15 N.E. Scotland; 16 Orkneys and Shetlands	Moderate or fresh southeast winds; rain soon spreading from west; more general rain later; local hill fog; rather cold.
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	Moderate southerly winds, freshening with gales locally later, and veering southwest; rain spreading from Southwest, with local drizzle later; much hill fog and local coast fog; rather cold.

GENERAL INFERENCE

A trough of low pressure is moving east over the British Isles, and will be followed by a deepening depression moving east or eastnortheast from the central Atlantic; mild conditions will spread to all districts with rain and drizzle at times; winds will become strong in the west and north and may reach gale locally on the coasts

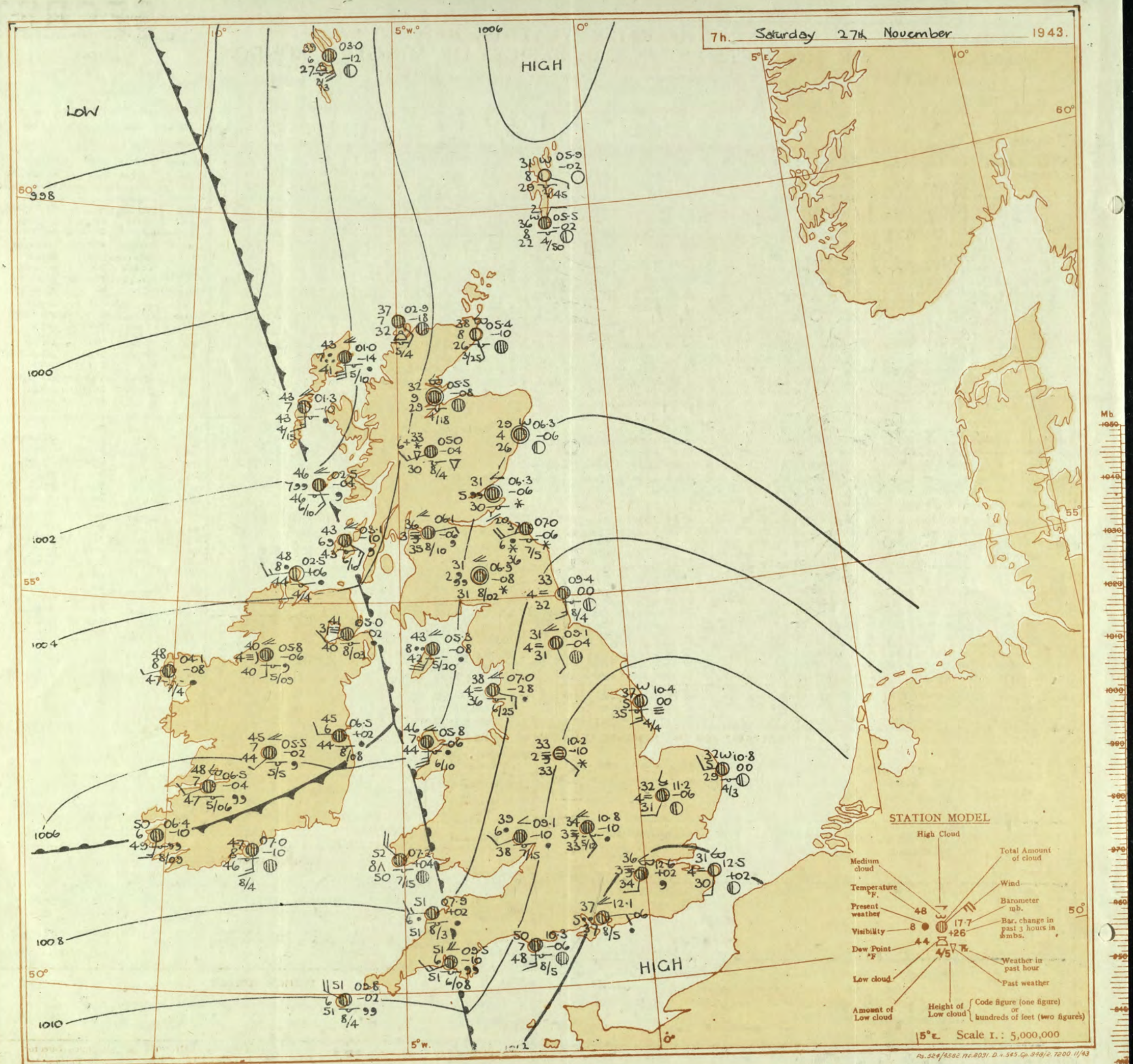
FURTHER OUTLOOK

Unsettled southwest to west type; cloudy in most districts, with rain at times.

Forecasts issued at 10-30.

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Saturday 27th November 1943.



Rs. 524/4382. Nc. 8031. D. 4. 545. Gp. 948/2. 7200. 11/43

H.M.S.O. Press, M.D. 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).

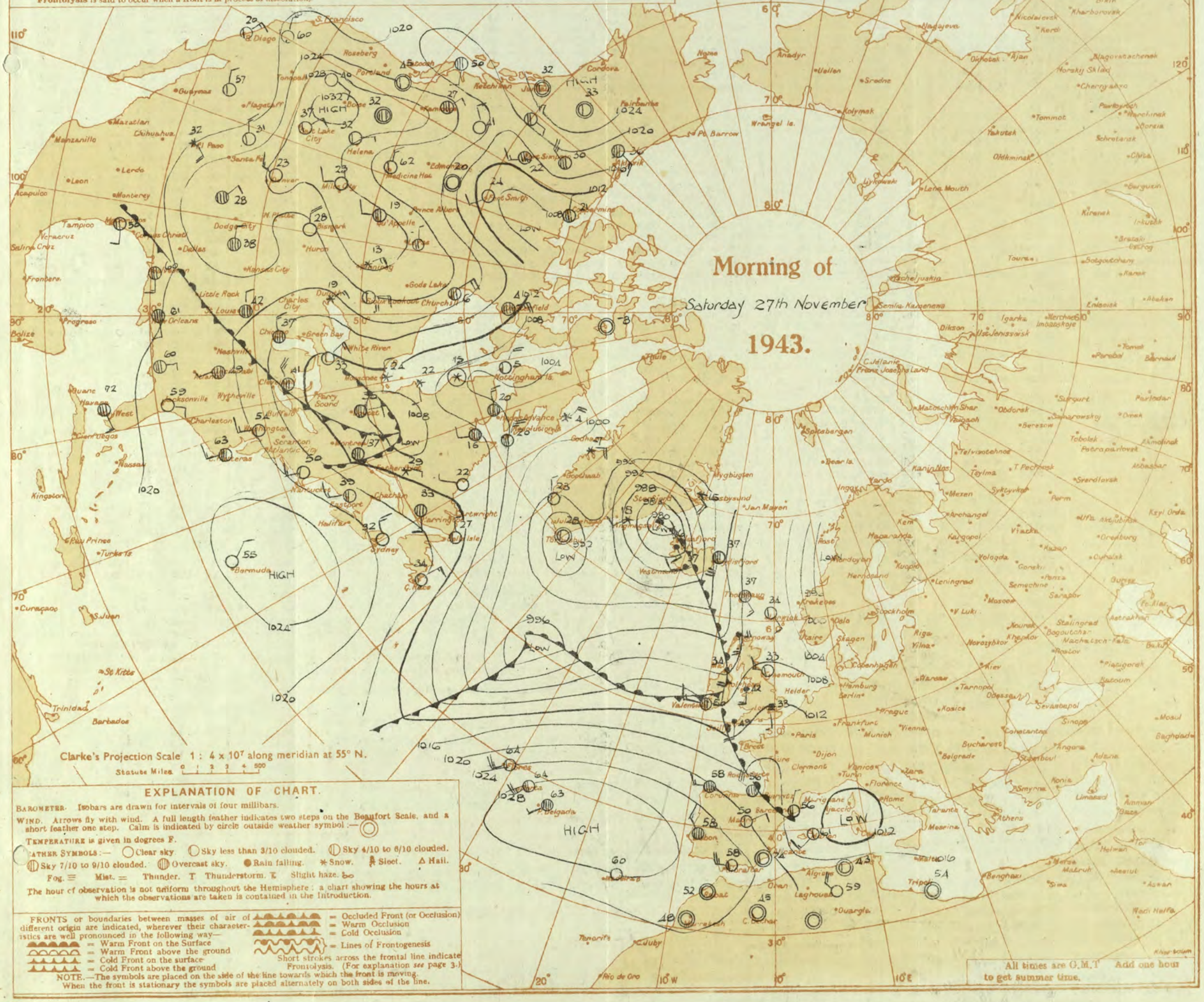
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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 27th November 1943

No. 20235

OBSERVATIONS at 1 hr. G.M.T. 27th November

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	12.4	-2	S	1	bf	33	97	32	2	-	-	-	0	0	-
	S. Farnborough	226	12.5	+2	S	1	bf	31	97	30	1	-	-	-	0	0	-
	Boscombe Down	417	12.9	-2	SE'S	2	b-bf+	29	97	29	3	-	-	5	0	2-3	-
	Thorney Island	10	13.0	+4	—	0	Zo	31	97	30	5	5	-	-	2-3	2-3	4000
	Lympne ..	283	13.3	+6	NW'N	2	m	33	97	33	4	-	3	-	0	3+	-
	Manston ...	154	11.9	+4	W'N	2	bf-	35	92	33	3	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	11.0	-2	W	2	Zo	37	92	35	5	-	-	-	0	0	-
	Gorleston ...	5	09.8	+4	WNW	2	Zo	33	85	28	6	-	-	-	0	0	-
	Mildenhall ...	15	11.1	+2	SSW	2	m	34	92	32	4	-	-	6	0	7-8	-
	Cranwell ...	203	10.9	-2	W'S	2	bf+	34	97	33	2	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Hereford	408	11.7	0	SSW	1	m	32	97	32	4	5	7	7	1	10	5700
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	09.8	-6	S	3	c	44	92	42	7	5	2	-	7-8	10	1500
	Bristol ...	209	11.9	-2	S	2	Zo	41	65	30	6	5	7	-	7-8	9+	4100
	Portland Bill ...	32	11.5	+2	N	2	c	46	85	42	7	5	-	-	10	10	220
	Plymouth ...	86	11.4	-2	—	0	c/d	43	97	42	5	5	7	8	7-8	9+	4200
	The Lizard ...	240	10.8	-2	SW	4	dodo	59	65	49	6	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	10.1	-6	S'E	4	ido	49	97	49	5	5	2	-	7-8	10	800
	Guernsey ...	175															
6	Pembroke ...	142	08.5	-12	SW'S	4	rr	48	97	47	6	5	-	-	10	10	1500
7	Holyhead (Valley)	32	09.1	-6	S	4	fofo	42	92	40	6	6	2	-	10	10	1800
	Chester (Sealand)	16	09.7	-2	—	0	m	36	85	33	4	5	-	-	10	10	2100
8	Manchester ...	230	10.4	-2	S	3	m	36	85	32	4	-	-	6	0	7-8	-
10	Spurn Head ...	29	10.4	+2	W	2	mf+	36	92	33	4	-	-	-	0	0	-
	Catterick (Sc) ...	192	10.1	-2	—	0	Zo	30	92	28	6	-	-	1	0	2-3	-
	Tynemouth ...	108	10.2	0	W	3	Zo	33	85	30	5	-	4	-	0	2-3	-
11	St. Abbs Head	280	08.3	0	W	3	bc	39	85	35	7	-	-	-	4-6	4-6	4000
	Leuchars ...	36	07.7	-2	—	0	Zo	30	85	27	6	5	:	-	2-3	3+	2500
12	Renfrew (Abbots I.)	19	07.7	-6	NE'E	1	Zo	34	92	32	6	5	2	-	4-6	10	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	08.6	0	SW'N	2	fofo	40	85	36	8	-	2	-	10	10	4000
13A	Tiree	44	04.3	-8	SW	4	r/r	42	85	38	7	5	2	-	3	10	1200
13B	Stornoway ...	12	03.3	-14	SSE	5	fofo	41	75	34	7	5	2	-	4-6	10	1000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	07.4	-4	E	1	b-bc	25	92	23	9	5	-	5	2-3	2-3	2500
	Wick ...	114	06.8	-2	W	1	c	30	97	29	8	5	-	6	Tr	3+	2500
16	Sumburgh ..	19	05.9	+2	N	2	bc	35	75	28	8	4	-	-	4-6	4-6	3500
17	Blacksod Point	18	04.1	+6	W'N	3	bc	50	97	50	8	5	-	-	4-6	4-6	1500
18	Malin Head ...	84	02.6	-28	SSE	4	ifo	39	85	35	8	5	-	-	4-6	4-6	1500
	Aldergrove ...	268	06.0	-18	ESE	2	fofo	37	92	35	6	-	2	-	10	10	1500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	08.0	+2	W'N	3	c/d	50	97	50	6	5	-	-	10	10	900
	Roches Point	22	07.2	+2	SW'N	4	bc	50	97	50	8	5	-	-	4-6	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 27th November

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)	12.0	-2	ESE	1	rf	34	97	33	2	5	-	-	10	10	1500	1	*
	Croydon ...	12.6	+2	S'W	2	df	36	92	34	3	-	7	-	0	10	-	1	*
	S. Farnborough	11.9	-4	SE'S	1	ifo	36	97	33	4	5	-	-	9	9	3000	1	*
	Boscombe Down	11.3	-4	SE	4	fofo	36	97	35	6	5	-	-	10	10	1600	1	*
	Thorney Island	12.1	-6	E	2	fofo	37	97	37	5	-	2	-	10	10	2500	1	*
	Lympne ..	13.4	0	SW	1	Zo	32	97	31	6	-	5	-	0	7-8	-	1	*
	Manston ...	12.5	+2	S'W	1	m	31	92	30	4	-	7	-	0	4-6	-	1	*
2	Shoeburyness ...	13.3	0	SSW	2	Zo	34	97	33	6	-	7	-	0	7-8	-	1	*
	Felixstowe ...	11.5	-2	NSW	1	Zo	34	92	32	5	5	7	-	4-6	4-6	5700	0	1
	Gorleston ...	10.8	0	W	2	Zo	32	85	29	5	5	3	-	4-6	7-8	800	3	2
	Mildenhall ...	11.2	-6	S'W	2	m	32	97	31	4	-	3	-	0	3	-	1	*
	Cranwell ...	10.1	-6	SW	3	mf-	35	92	32	4	5	4	-	4-6	7-8	2500	3	*
3	Birmingham ...	09.8	-10	SSE	2	fofo	36	97	35	4	6	-	-	10	10	800	1	*
	Upper Hereford	10.8	-10	S'E	2	df	34	97	33	3	6	2	-	7-8	10	1200	1	*
4	Ross-on-Wye	09.1	-10	SW	2	ifo	39	92	38	6	5	1	-	9+	10	1500	1	*
5	Hartland Point	07.9	+2	W	3	ifo	51	97	51	6	5	-	-	10	10	800	1	4
	Bristol ...	09.8	-14	SSE	2	rf	39	97	38	3	-	2	-	10	10	1300	1	*
	Portland Bill ...	10.3	-6	S	3	o	50	92	48	7	5	-	-	10	10	2500	1	4
	Plymouth ...	09.5	-10	SW'W	3	c/d	51	97	51	6	5	2	-	9	9+	800	1	
	The Lizard ...	09.9	0	SW	3	dodo	51	97	51	6	5	-	-	10	10	1000	1	3
	Scilly (St. Mary's)	09.8	-2	WNW	4	c/d	51	97	51	6	5	-	-	10	10	1500	1	4
	Guernsey ...																	
6	Pembroke ...	07.2	+4	NW	4	cq	52	92	50	8	5	-	-	9+	9+	1500	1	3
7	Holyhead (Valley)	05.8	-6	S	5	c	46	92	44	7	5	2	-	9	10	1000	1	3
	Chester (Sealand)	07.9	-12	S'E	3	c/d	39	92	37	5	5	2	-	4-6	10	2300	1	*
8	Manchester ...	09.1	-6	SE'S	3	dodo	37	92	35	4	6	2	-	7-8	10	1000	1	*
10	Spurn Head ...	10.4	0	S	3	Zo	37	92	35	5	5	3	-	4-6	7-8	1500	0	2
	Catterick (Sc) ...	09.1	-4	S	1	m	31	97	31	4	-	2	-	0	10	-	0	*
	Tynemouth ...	09.4	0	S	3	m	33	92	32	4	5	-	-	10	10	1500	3	3
11	St. Abbs Head	07.0	-6	SW	4	rs	37	97	36	6	5	-	-	9+	9+	2500	1	3
	Leuchars ...	06.3	-6	-	0	dodo	31	97	30	5	5	1	-	Tr	10	2000	5	*
12	Renfrew (Abbots I.)	06.1	-6	ENE	1	df	36	97	35	3	-	2	-	10	10	1000	1	*
	Eskdalemuir ...	06.9	-8	—	0	dd	31	97	31	2	-	2	-	10	10	200	4	*
	Point of Ayre ...	05.3	-8	SSW	5	fofo	43	97	42	8	6	2	-	7-8	10	2000	1	4
13A	Tiree	02.5	-4	SSE	3	dodo	46	97	46	7	5	2	-	9	10	1000	1	3
13B	Stornoway ...	01.0	-14	S	6	rr	43	92	41	7	5	2	-	7-8	10	1000	2	2
15	Dalwhinnie ...	05.0	-4	SW	3	ps	33	85	30	6	5	-	-	10	10	1500	4	*
	Aberdeen † ...	06.3	-6	—	0	c	28	92	26	4	-	3	-	0	3+	-	3	1
	Wick ...	05.4	-10	SSE	1	bc	38	65	26	8	5	7	-	2-3	4-6	2500	5	*
16	Sumburgh ..	05.5	-2	NNE	2	c	36	65	22	8	5	3	6	4-6	9	5000	3	2
17	Blacksod Point	04.1	-8	W'S	1	c	48	97	47	8	6	-	-	9+	9+	1500	1	2
18	Malin Head ...	02.5	+6	WSW	3	ifo	48	85	44	8	5	-	-	4-6	4-6	1500	2	3
	Aldergrove ...	05.0	-2	SW'W	2	of+	41	97	40	3	5	-	-	10	10	300	1	*
19	Birr Castle ...	05.5	-2	SSW	1	ebc	45	97	44	7	5	2	-	7-8	10	2500	1	*
20	Valentia Obsy.	06.4	-10	S'W	3	c/d	50	97	49	6	5	-	-	10	10	900	1	2
	Roches Point	07.0	-10	S	3	c	47	97	46	8	5	-	-	10	10	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 26th Hrs. (38)
1	London (Kew)	40	29	20	0.1	0.1	0.0
	Croydon ...	42	29	26	-	Tr	1.8
	S. Farnborough	44	26	17	-	1	2.1
	Boscombe Down	41	28	22	-	2	1.8
	Thorney Island	45	28	28	Tr	1	*
	Lympne ..	42	30	23	-	-	4.3
	Manston ...	42	31	26	-	-	3.3
2	Shoeburyness ...	44	32	26	-	-	3.4
	Felixstowe ...	42	32	30	-	2	5.5
	Gorleston ...	40	32	28	-	-	4.1
	Mildenhall ...	41	31	21	Tr	-	4.8
	Cranwell ...	40	31	27	-	-	2.7
3	Birmingham ...	41	35	29	-	0.2	0.3
	Upper Hereford	42	30	23	-	1	*
4	Ross-on-Wye	47	33	24	-	3	3.8
5	Hartland Point	47	41	39	-	1	1.1
	Bristol ...	44	32	25	Tr	3	1.5
	Portland Bill ...	48	45	*	-	-	*
	Plymouth ...	49	40	37	-	Tr	1.0
	The Lizard ...	52	45	*	0.1	1	0.8
	Scilly (St. Mary's)	53	40	*	-	1	1.5
	Guernsey ...						
6	Pembroke ...	49	43	*	-	3	5.0
7	Holyhead (Valley)	47	36	32	1	2	*
	Chester (Sealand)	43	34	28	0.4	0.3	0.3
8	Manchester ...	40	33	32	-	0.2	*
10	Spurn Head ...	41	35	*	-	-	4.3
	Catterick (Sc) ...	41	27	19	-	-	5.1
	Tynemouth ...	39	32	29	-	-	*
11	St. Abbs Head	39	32	*	-	Tr	*
	Leuchars ...	41	29	*	-	Tr	6.7
12	Renfrew (Abbots I.)	42	30	32	Tr	0.3	4.3
	Eskdalemuir ...	39	23	15	-	0.2	5.3
	Point of Ayre ...	43	34	*	Tr	Tr	0.0
13A	Tiree	42	40	39	Tr	1	5.0
13B	Stornoway ...	41	29	21	-	3	4.7
15	Dalwhinnie ...	34	20	15	-	Tr	3.0
	Aberdeen † ...	38	34	18	Tr	-	5.3
	Wick ...	37	28	23	2	-	*
16	Sumburgh ..	42	34	30	1	Tr	2.7
17	Blacksod Point	46	44	*	Tr	3	*
18	Malin Head ...	41	37		0.4	1	0.7
	Aldergrove ...	38	33	30	0.1	1	1.2
19	Birr Castle ...	42	39	36	-	1	0.9
20	Valentia Obsy.	48	48	48	2	1	0.0
	Roches Point	49	46	*	0.3	2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 26th November: $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 27th November: $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN
109	87	02954	30425	5-	02784	30414	53	02854	18115	57	02653	13115
115				82	88635	16288	22	02955	12328	8-	02745	12228
203							5-	02846	12426			
206	44	01961	28302	50	01862	26213	00	02890	00008	57	02964	00028
210	86	02954	25414	03	01990	20214	04	01990	20114	03	01890	10224
219	24	01852	00014	56	02863	10126	52	61744	16468	52	02744	15365
230	23	02962	00026	47	17755	00028	52	61756	00067	52	02746	00068
245	14	01951	29212	00	01890	20113	04	05690	24203	07	61690	24166
260	00	05590	22203	00	45390	00040	00	45390	00040	5-	67368	00048
273	87	02954	20127	40	04651	00028	52	62048	16268	62	58518	14458
279	16	02761	03125	50	01761	20113	57	05664	12127	52	05656	16168
285	13	01852	32414									
288	24	01851	28302	04	05690	21211	00	05690	19124	07	49590	00027
575	57	04763	00026	07	02750	00028	62	31625	14158	52	09435	16158
301	86	05654	28127	27	08451	00002	02	08490	12328	52	08456	10368
221	00	08490	24215	00	45290	22140	00	45290	18240	--	43390	06240
290	24	01742	26313	50	05643	26203	00	00790	26202	40	45353	22243
292	07	02890	24115	04	01890	00013	00	05590	00025	01	57190	00048
310	24	01425	24345									
614	08	08490	26126	04	47390	26112	07	45290	24147	02	57390	18147

III	13h. G.M.T. 26th November: $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 27th November: $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN
333	23	01863	28124	50	02765	00025	52	62556	18268	52	52516	04268
334	--	02646	28117	--	01643	28114						
340	57	05665	26127	54	01762	24112	01	05590	16128	62	62338	16468
136	00	05690	24203	00	05590	24213	00	08490	00040	03	08490	17116
336	57	02754	28317	50	05648	24215				--	61309	24169
350	00	05690	22114	03	08490	22113	01	45390	22140	02	61468	18148
368	83	05683	00014	54	08462	24113				02	67348	16168
379	04	02790	24227	03	05590	24112	03	05590	20323	02	67348	14368
390	00	05590	28215	04	08490	22213	00	45390	24107	--	45209	16249
382	05	05690	25127	00	00020	00000	07	43490	00044	5-	61558	14268
438	07	05690	30315	50	01763	28213	5-	01758	32218	87	62654	00067
430	09	05690	00026	00	05520	24110	03	05590	32115	07	62690	02168
409	86	25854	00087	57	02855	14228	5-	05648	14428	5-	21628	24458

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 27th November
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	bcfxcm	bfx	cfrofx	1.3	0.3
Croydon ...	cm	czbcf	bfcfxdof	20-23h 26th	5-7h 27th
Greenwich ...	bcff ⊕	bcbff	bfodlm		
Camden Square	c	c	*		
Kensington ...	bcm	bcm	*		
Hampstead ...	bcmx	or	od		

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 %	Humidity 9h % To-day
Kew	40	29	20	0.1	0.1	0.0	*	*
Croydon ...	42	29	26	-	Tr	1.8	*	*
Greenwich ...	38	31	25	-	0.3	0.0	87	93
Westminster ...	39	31	26	0.4			72	94
Regents Park ...	40	33	21	-	1		82	86
Camden Square	39	33	23	-	0.3	*	*	94
Kensington ...	41	32	19	-	1		88	91
Hampstead ...	38	32	24	-	1		*	92

SECRET

Page 1 BRITISH SECTION

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

Sunday 28th November 1943

No. 29956

OBSERVATIONS at 13h. G.M.T. 27th November

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)	Height of Base (feet) (15)
1	London (Kew)	08·5	-26	SSW	2	ido	44	92	42	5	5	-	-	10	10	1500
	Croydon	08·8	-30	SSE	3	dodo	45	97	44	5	5	2	-	4-6	10	1000
	S. Farnborough	08·5	-26	SSW	3	df	44	97	43	3	5	-	-	10	10	300
	Boscombe Down	09·0	-10	W'S	2	zo	48	97	48	6	5	2	-	7-8	10	300
	Thorney Island	09·3	-18	S'W	4	ido	49	92	48	6	-	2	-	10	10	800
	Lympne	11·2	-18	SSW	4	roro	45	92	43	5	5	2	-	9	10	1500
	Manston	11·4	-10	S'W	4	dodo	45	92	42	5	5	2	-	7-8	10	3000
2	Shoeburyness	11·3	-20	SSE	4	dodo	44	85	40	6	5	-	-	10	10	1500
	Felixstowe	10·9	-10	S'W	4	roro	42	92	40	4	5	-	-	10	10	2500
	Gorleston	10·6	0	SW'W	2	zo	40	75	32	6	5	-	-	9+	9+	1800
	Mildenhall	09·4	-18	SSE	3	dodo	39	97	39	4	5	-	-	10	10	2500
	Cranwell	07·8	-18	SSW	2	dodo	37	97	37	3	-	2	-	10	10	1000
3	Birmingham	07·8	-8	SSW	1	df	40	97	40	2	5	-	-	10	10	450
	Upper Heyford	08·7	-14	SW	1	df	41	97	41	2	-	-	-	10	10	<150
4	Ross-on-Wye	07·7	-10	WSW	2	zo	47	92	45	5	5	-	-	10	10	1000
5	Hartland Point	07·0	-12	WSW	3	id	51	97	50	6	5	2	-	9+	10	4000
	Bristol	08·4	-6	SW	2	c/d	49	97	49	5	6	2	-	9	10	500
	Portland Bill	09·3	-6	W	4	c	52	92	50	8	5	-	-	10	10	4000
	Plymouth	09·3	-6	WSW	3	d	52	97	51	6	5	2	-	9	10	800
	The Lizard	09·0	-8	W	4	roro	52	97	52	8	5	-	-	10	10	1500
	Scilly (St. Mary's)	08·4	-14	SW'S	4	r	52	97	52	7	5	-	-	10	10	800
	Guernsey															
6	Pembroke	08·7	-4	SW'W	3	c	52	97	51	7	5	-	-	10	10	1500
7	Holyhead (Valley)	05·5	-6	SWW	3	c	50	92	48	8	8	7	-	9	10	2000
	Chester (Sealand)	06·5	-8	S	2	zo	44	92	41	6	5	7	-	4-6	10	4000
8	Manchester	06·4	-18	S'E	3	m	41	85	37	4	6	2	-	9	10	800
10	Spurn Head	07·8	-20	S'E	4	cf	39	92	39	3	5	3	-	4-6	9	1500
	Catterick (Sc)	08·0	-10	S	3	f-	34	97	34	2	-	-	-	10	10	<150
	Tynemouth	07·4	-10	SSW	4	m	38	92	34	4	8	-	-	9+	9+	2200
11	St. Abbs Head	05·5	-8	SSW	3	c	38	97	38	7	5	7	-	7-8	9+	2500
	Leuchars	04·7	-6	—	0	df	37	97	37	3	-	-	-	10	10	<150
12	Renfrew (Abbots I.)	04·2	-10	—	0	cf+	37	97	36	3	-	2	-	10	10	800
	Eskdalemuir	05·2	-12	—	0	df	34	97	34	3	-	2	-	10	10	<150
	Point of Ayre	04·5	-6	SSW	2	c	48	92	46	8	6	7	-	4-6	9+	2000
13A	Tiree	02·0	-2	—	0	c	48	97	47	8	5	7	-	7-8	9+	5500
13B	Stornoway	99·9	-4	S	5	iro	46	97	45	6	5	7	-	7-8	9+	1200
15	Dalwhinnie	03·5	-6	SW	3	o	35	92	32	7	5	-	-	10	10	1500
	Aberdeen	04·2	-14	S'W	1	iro	40	85	35	5	5	-	-	7-8	9+	5000
	Wick	03·8	-8	SSE	3	c	42	65	32	9	5	-	-	9+	9+	5000
16	Sumburgh	04·8	-16	SE	3	c/pr	40	75	32	9	2	6	6	4-6	9	2000
17	Blacksod Point	00·1	-26	S	3	roro	51	92	49	7	6	2	-	4-6	10	800
18	Malin Head	01·8	-10	S'W	1	c	46	92	44	8	5	-	-	9+	9+	1500
	Aldergrove	03·9	-10	SSW	2	zo	44	97	43	5	5	-	-	9	10	1000
19	Birr Castle	02·7	-28	S	1	c	49	92	47	7	5	2	-	7-8	10	2500
20	Valentia Obsy.	01·0	-38	S'E	5	dr	53	97	53	6	5	-	-	10	10	800
	Roches Point	04·3	-28	SW	3	dr	51	97	51	6	5	-	-	10	10	800

OBSERVATIONS at 18h. G.M.T. 27th November — 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)	°F. 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)	State of Ground 0–9 (31)	Sea 0–9 (32)	Weather 7h.–13h. 27th (39)	Weather 13h.–18h. 27th (40)	Weather 18h 27th to 1h 28th (41)	Weather 1h.–7h. 28th (42)
London (Kew)	07·4	-2	SSW	2	m	46	97	45	4	5	-	-	10	10	1500	1	*	crofrdido	cidodofc	cmro rcro	rocrrroc
Croydon	07·8	-2	S	1	m	49	92	48	4	5	2	-	9	10	1400	1	*	crorocdodm	cdodem	cmrororfrr	crrfomoido
S. Farnborough	07·6	-4	SW'S	1	zo	47	97	46	5	-	2	-	0	10	—	1	*	cirormdf	cdofmo	cmoro iromr	crommodo
Boscombe Down	08·1	-6	S	2	o/r	47	97	46	6	5	-	-	10	10	1100	1	*	cromodf	cmocromg	roromocdomo	cdodoc
Thorney Island	08·3	-6	S	1	o/d	49	92	48	5	5	-	-	10	10	900	1	*	oddmoido	oidocm	cmodcdcc	crorodododomo
Lympne	08·9	-14	WSW	3	of	49	97	48	1	5	-	-	10	10	<150	1	5	cmoiro	crododf	ododof	ododforrff
Manston	09·7	-10	SW'S	3	c/d	48	97	47	5	6	2	-	9+	10	400	1	*	bcmxmido	cdodroro	cmoirororo	cmorororrcmo
Shoeburyness	08·9	-6	S	3	m	48	97	47	4	5	-	-	10	10	1500	1	*	mocdodomo	crorom	cido	cidoc
Felixstowe	08·0	-10	SSW	4	roro	46	97	45	4	5	-	-	10	10	500	1	3	cmocrorom	ocrorom	cfcidmo	crocmo
Gorleston	08·0	-14	SW	2	dodo	45	92	44	5	6	-	-	10	10	800	1	3	czo	odod zo	odffeiro	cir
Mildenhall	07·1	-10	SW	2	of+	44	97	43	3	5	-	-	10	10	400	1	*	cmcidof	cdodomc	ofemoirmdof	of ido cmo
Cranwell	04·9	-8	SSE	1	f	40	97	40	3	-	-	-	10	10	<150	1	*	cfdodo		ofdodocfiro	cfrorocm
Birmingham	05·9	-8	SSW	2	dF	44	97	44	1	5	-	-	10	10	450	1	*	oiro f	oid F	dfforo	foido
Upper Heyford	06·5	-10	—	0	F	43	97	43	1	-	-	-	10	10	<150	1	*	oddomcdf	odeFe	oferorom	odoro dodomcmo
Ross-on-Wye	05·9	-10	SSW	1	roro	49	97	47	4	-	2	-	10	10	800	1	*	cmoom	cmooro	romrroc	c
Hartland Point	04·2	-20	SSW	3	iro	50	97	49	7	5	2	-	7-8	10	800	1	4	ciroid	cidir	cirddc	oidodd
Bristol	06·7	-10	S'W	3	iro	50	92	48	6	6	2	-	4-6	10	1000	1	*	cmo,ido,c	cmo	cmodorocdo	cmororo,ido
Portland Bill	08·5	-4	SW	4	rr	52	92	50	7	5	-	-	10	10	2500	1	4	rrc	orr	opr	orro
Plymouth	06·6	-14	WSW	3	roro	52	97	52	6	6	2	-	9	10	600	1	2	cido	crorormo	cidomocm	cidododomo
The Lizard	06·0	-16	SW	5	df	52	97	52	3	5	-	-	10	10	800	1	4	roro	oid df	roddrf	pidf
Scilly (St. Mary's)	04·6	-12	SW'W	5	dd	54	97	54	6	5	-	-	10	10	800	1	4	cdcr	roro dd	dodomo	cododo
Guernsey																					
Pembroke	03·3	-16	SSW	5	dd	52	97	51	6	5	-	-	10	10	1500	1	3	c	ciroqdd	ororomo	cdd
Holyhead (Valley)	02·2	-22	S'E	4	roro	50	97	50	5	6	2	-	10	10	1400	1	3	c	ciro roro	orororm	omooidomo
Chester (Sealand)	04·6	-12	S	2	m	45	92	43	4	5	2	-	7-8	10	2000	1	*	cmo	momc	mroroidoc	cmoprmo
Manchester	05·3	-12	S	3	m	44	92	42	4	5	2	-	4-6	10	2000	1	*	cdodoidom	cocm	rorododom	idododomo
Spurn Head	06·1	-6	SSW	3	of	40	97	39	3	5	-	-	10	10	1500	1	1	cf	of	of	ofroromo
Catterick (Sc)	05·5	-14	WNW	2	F	35	97	35	0	-	-	-	10	10	<150	1	*	oF	oiro F	oiro	oidoFcf
Tynemouth	05·3	-8	SW	3	of	38	92	36	3	5	-	-	10	10	1500	3	3	ocm	cmoff	omorr	orrirm
St. Abbs Head	03·4	-10	SW	4	zo	39	97	39	6	5	-	-	9+	9+	1500	1	3	crocmo	cmodoc	cmo	cmorocmrrcmo
Leuchars	01·8	-18	—	0	df	36	97	36	2	-	-	-	10	10	<150	1	*	cdodomf	ododof	odofromoro	foroforomo
Renfrew (Abbots I.)	02·4	-8	—	0	cf+	39	97	38	3	-	2	-	10	10	800	1	*	cfdodo	cdofcfodf	cdodof	cidofcf
Eskdalemuir	03·0	-14	—	0	dF	35	97	35	1	-	2	-	10	10	<150	1	*	pdfidof	idofddF	drof	rofdom
Point of Ayre	01·6	-18	SSW	3	iro	49	92	47	7	6	2	-	4-6	10	1000	1	3	dodoc	ciro	ddrr	ciro
Tiree	98·0	-16	S	4	iro	49	97	48	8	5	2	-	9	10	1000	1	3	ccirOC	cciro	cirodomo	cmoc
Stornoway	96·6	-20	S	5	c	47	85	43	7	8	7	-	7-8	9+	1800	1	3	ciromo	ciromocirc	ccidororom	crororrmobc
Dalwhinnie	00·0	-20	SSW	3	c	36	92	33	7	5	7	-	7-8	9+	1500	1	*	opsoco	oc	*	ciridoo
Aberdeen	01·4	-20	SSW	2	m	39	92	36	4	5	-	-	9+	9+	4000	1		cmxciro	czoidocm	cmdiro	ororoiromo
Wick	00·4	-22	SSE	2	bc	41	75	33	8	-	3	2	0	4-6	-	1	*	bcc	cbc	bcciro	errmocmo
Sumburgh	01·6	-22	SE	4	c	42	65	32	9	5	-	-	4-6	9+	3000	1		cpro	cvproc	ciroc	crorrc
Blacksod Point	93·9	-34	SSE	4	iro	51	97	51	6	6	2	-	4-6	10	800	2	3	r	r	d	r
Malin Head	96·8	-30	SE'S	3	roro	46	92	44	7	5	-	-	10	10	1500	2	2	r	r	r	d
Aldergrove	00·0	-22	SSE	2	roro	47	92	44	6	-	2	-	10	10	800	4	*	cFmmo	cmom,rr	cdodomcm	mfmo, rmo
Birr Castle	97·4	-34	S	1	ir	50	92	48	7	6	2	-	7-8	10	800	1	*	c	r	*	r
Valentia Obsy.	99·0	-4	SW'W	4	dodo	55	97	55	5	5	-	-	10	10	300	1	4	r	r	r	e
Roches Point	99·4	-20	SW'S	3	o	53	97	53	8	5	-	-	10	10	800	1	4	r	r	c	d

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 28th November 1943

Districts	Forecast
1 S.E. England	Fresh southwest winds strong locally on coast, veering westerly or northwesterly for a time, probably backing and increasing again later; dull with occasional rain; a fairer period tonight; changeable temperature.
2 E. England; 3 E. Midlands; 4 W. Midlands	Fresh southwest winds veering west to northwest; dull with some rain; becoming fair this evening and tonight; possibly further rain later; very mild then colder.
5 S.W. England; 6 South Wales; 7 North Wales ♠; 8 N.W. England ♠; 9 N. Midlands	Strong west wind veering temporarily, probably backing and increasing later today; rain at times; changeable temperature.
10 N.E. England; 11 S.E. Scotland; 12 S.W. Scotland & Isle of Man ♠	Wind veering northwest strong to squally, gale locally on coast, then moderating; variable sky with bright periods; some showers of rain and hail with a chance of thunder; rather cold.
13A W. Scotland ♠; 13B N.W. Scotland ♠; 14 Mid Scotland; 15 N.E. Scotland	Fresh gusty northwest winds, strong to gale locally on northwest coast at first, moderating; showers of rain, and hail with sleet on high ground; bright intervals; rather cold.
16 Orkneys and Shetlands	As 10-15
17 N. W. Ireland ♠; 18 N. E. Ireland ♠	As 6-9
19 S. E. Ireland; 20 S. W. Ireland	Fresh northwest wind, becoming rather variable for a time; bright periods; some local showers; mainly rather cold.

GENERAL INFERENCE

A deep depression is centred over Iceland, and an associated trough from the Shetlands across England and Wales is moving southeast, accompanied by some general rainfall; colder northwesterly winds and rather showery conditions over Scotland and Ireland will spread over the whole country; it is probable that a secondary disturbance will move in toward Southwest England, moving quickly east, and cause an early return of rain to our Southern districts.

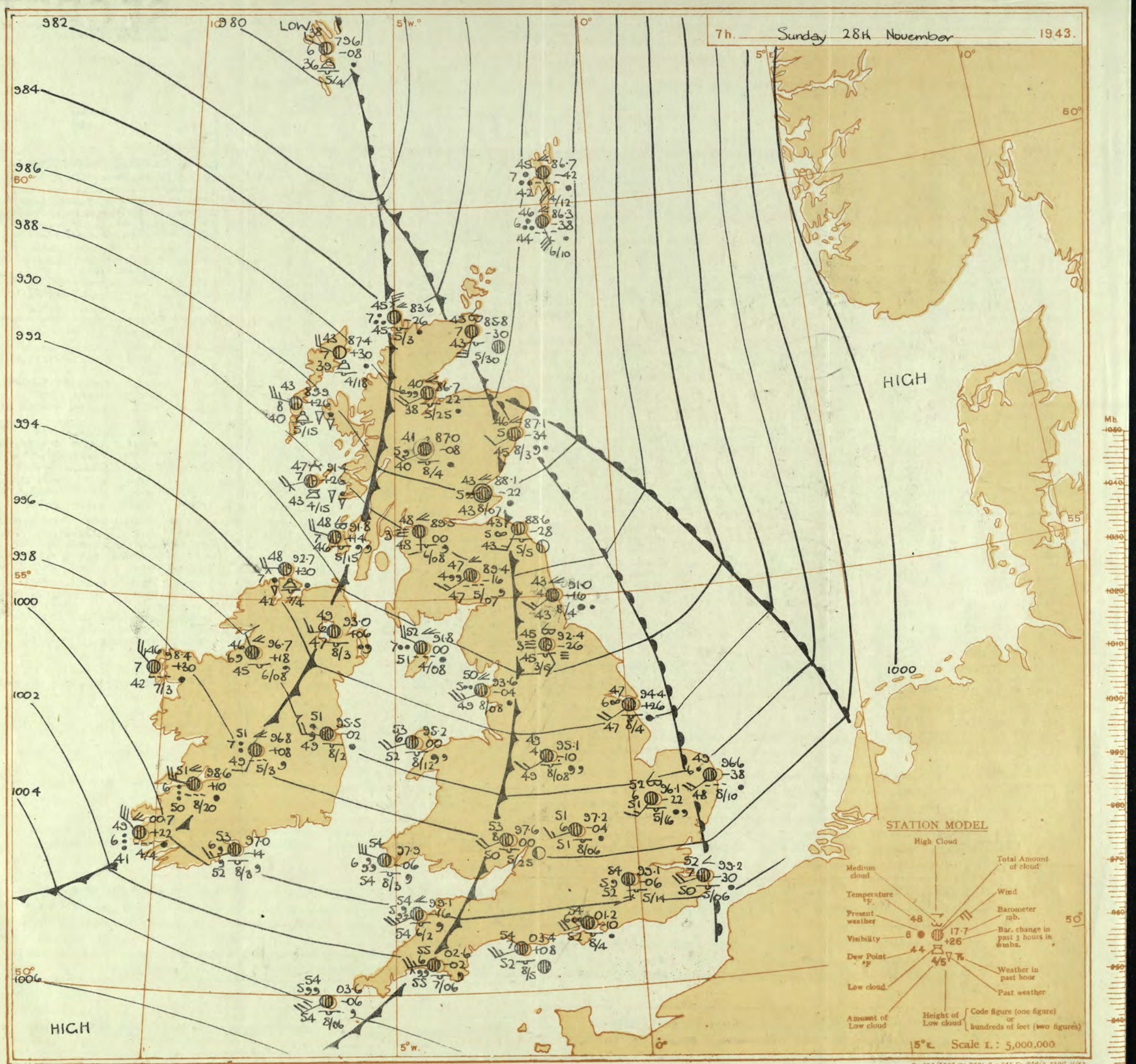
FURTHER OUTLOOK

None issued.

♠ Gale warning in operation in districts 7, 8 12, 13 (A&b), 17, 18 time of issue 11·50 on 28th November

Forecasts issued at

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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

Rs. 524/8562 Wt. 8091. D. & S. 545. Gp. 948/2. 7200. 11/43

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).

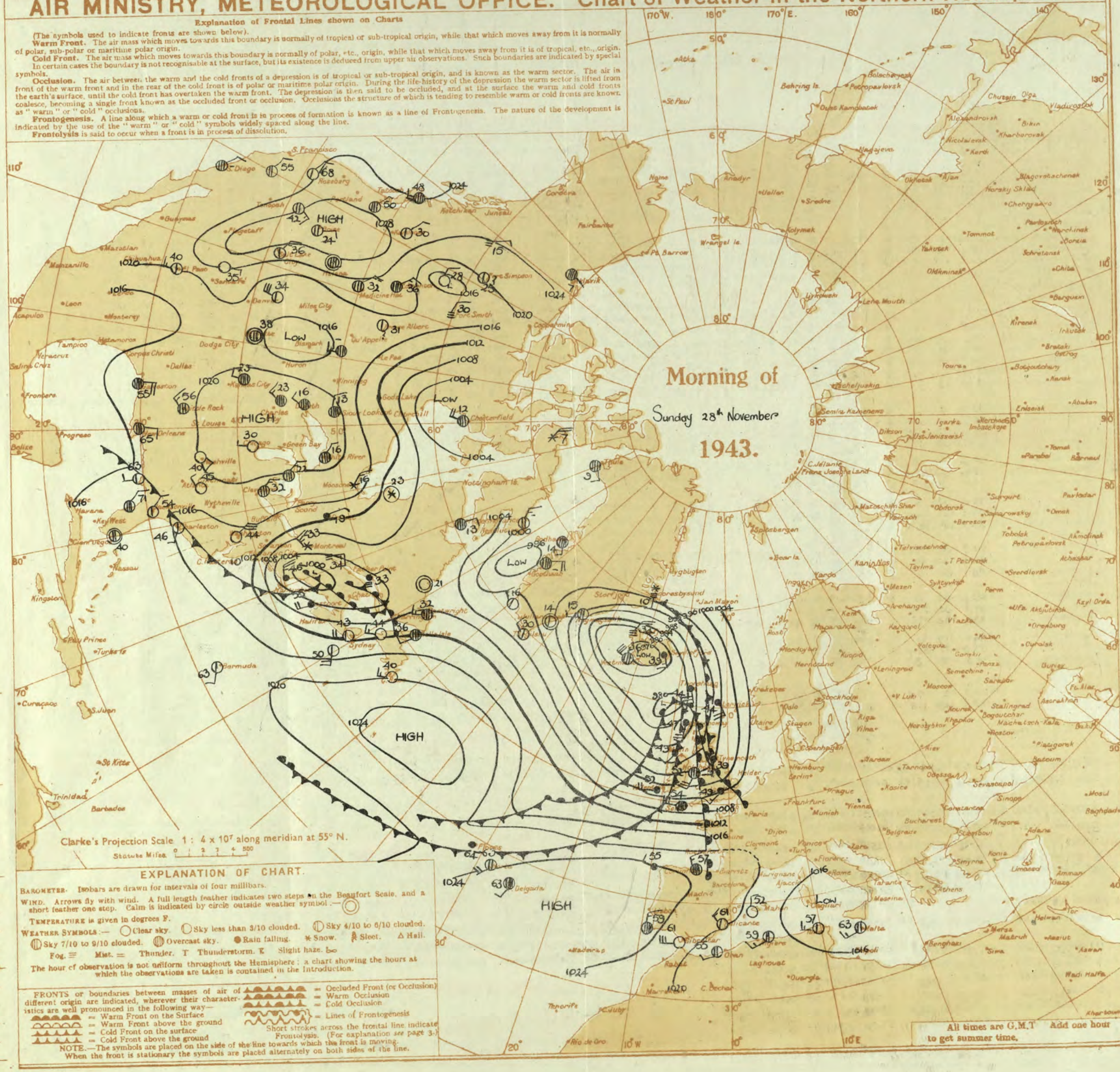
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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. E 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.

Sunday 28th November 1943

No. 29956.

OBSERVATIONS at 1 hr. G.M.T. 28th November

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	03·3	+26	SSW	3	rf	49	97	49	3	5	2	–	7-8	10	600
	S. Farnborough	226	02·0	-30	NWW	2	roro	49	97	49	4	5	–	–	10	10	700
	Boscombe Down	417	02·2	-26	SW	3	df	51	97	51	2	5	–	–	10	10	
	Thorney Island	10	03·2	-32	S	4	roro	50	97	49	5	–	2	–	2-3	10	450
	Lympne	283	05·2	-30	SSW	4	rF	49	97	49	1	5	–	–	10	10	200
	Manston	154	05·6	-18	SWS	4	roro	50	92	48	6	6	2	–	7-8	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	04·9	-16	SSW	3	m/d	46	97	45	4	5	–	–	10	10	1500
	Gorleston	5	03·4	-32	SSW	2	rf	46	92	44	2	5	–	–	10	10	<150
	Mildenhall	15	02·7	-22	S	3	df	48	97	47	3	5	–	–	10	10	700
	Cranwell	203	00·5	-28	SW	1	rF	45	97	45	3	–	2	–	10	10	450
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	00·3	-34	SW	3	dr	48	97	48	4	–	2	–	10	10	300
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	00·5	0	W	5	dd	53	97	53	5	6	2	–	7-8	10	800
	Bristol	209	01·0	-24	SSW	3	ido	52	97	51	6	6	–	–	9	9	900
	Portland Bill	32	03·4	-20	S	4	rr	51	92	49	7	5	–	–	10	10	2500
	Plymouth	86	02·9	-4	WS	5	ido	54	97	54	6	5	–	–	7-8	10	500
	The Lizard	240	04·4	0	NW	5	%d	54	97	54	5	5	–	–	10	10	800
	Scilly (St. Mary's)	163	04·1	+2	W	6	%d	54	97	54	5	5	–	–	10	10	800
	Guernsey	175															
6	Pembroke	142	99·0	-8	W	7	roG	53	97	53	6	5	–	–	10	10	800
7	Holyhead (Valley)	32	95·6	-18	SSW	6	c/r	52	97	52	5	5	–	–	7-8	10	500
	Chester (Sealand)	16	98·4	-28	SE	3	m/r	48	92	46	4	5	–	–	10	10	1400
8	Manchester	230	97·5	-34	SE	4	dd	47	97	46	4	6	2	–	7-8	10	600
10	Spurn Head	29	00·9	-24	S	3	oF+	41	97	40	1	5	–	–	10	10	1500
	Catterick (Sc)	192	99·4	-30	SSW	2	df	37	97	37	2	–	–	–	10	10	<150
	Tynemouth	108	98·4	-30	S	3	rr	39	97	39	6	–	2	–	10	10	1500
11	St. Abbs Head	280	95·8	-32	S	4	roG	41	97	41	6	5	2	–	7-8	10	1500
	Leuchars	36	95·8	-28	NW	2	rf	37	97	37	3	–	2	–	10	10	2000
12	Renfrew (Abbots I.)	19	93·1	-48	NE'E	2	ido	42	97	41	3	–	2	–	10	10	1400
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	93·5	-38	SSW	4	rr	49	97	49	6	–	2	–	10	10	2000
13A	Tiree	44	89·9	-34	SW	4	dodo	49	97	49	6	5	–	–	10	10	600
13B	Stornoway	12	88·1	-38	S	7	roro	47	97	47	6	5	2	–	7-8	10	1200
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	95·4	-34	S	3	roro	43	92	41	5	5	2	–	9	10	400
	Wick	114	93·3	-24	SSE	4	rr	44	85	41	6	5	–	–	10	10	2200
16	Sumburgh	19	95·2	-34	SSE	6	roro	45	85	42	6	5	2	–	10	10	1000
17	Blacksod Point	18	94·1	+10	W	5	dd	52	97	52	6	–	2	–	10	10	800
18	Malin Head	84	89·0	-22	SSW	3	iD	49	92	47	7	5	–	–	10	10	1500
	Aldergrove	268	92·4	-18	S	2	m/d	50	97	49	4	5	–	–	10	10	460
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	99·9	+2	WSW	4	iro	52	97	52	6	5	–	–	10	10	800
	Roches Point	22	99·0	+10	WS	4	bc	53	92	51	8	5	–	–	4-6	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 28th November — 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 27th Hrs. (38)
London (Kew)	98·4	-6	WSW	3	Zo	52	92	50	6	5	–	–	10	10	1500	1	*	47	45	45	1	2	0·0
Croydon	99·1	-6	S	3	ido	54	92	52	5	5	–	–	7-8	10	1400	1	*	49	49	46	2	3	0·0
S. Farnborough	99·1	-2	W	4	dodo	53	97	52	8	5	–	–	10	10	500	1	*	48	47	42	1	3	0·0
Boscombe Down	00·5	+2	W	4	c	52	92	50	8	5	2	–	7-8	10	1600	1	*	49	46	44	2	2	0·0
Thorney Island	01·2	-10	SWW	4	Zo	54	92	52	6	5	–	–	10	10	1500	1	*	51	47	*	4	3	*
Lympne	99·5	-14	WSW	3	m/r	52	97	52	4	5	–	–	9	9	300	1	§5	49	48	47	3	6	0·0
Manston	99·2	-30	WSW	4	c	52	92	50	7	5	1	–	7-8	10	600	1	*	48	47	45	1	2	0·0
Shoeburyness	99·4	-30	SW	3	Zo	52	97	51	5	5	–	–	9	9	1500	1	*	48	49	51	0·4	2	0·0
Felixstowe	97·7	-30	SW	5	Zo	48	97	46	5	5	–	–	10	10	1500	1	4	46	45	44	2	2	0·0
Gorleston	96·6	-38	SWS	4	iro	49	97	48	6	6	–	–	10	10	1000	1	4	45	40	42	0·6	2	0·1
Mildenhall	96·1	-22	SWS	3	c/d	52	97	51	6	5	7	–	7-8	10	1600	1	*	44	44	36	0·6	1	0·0
Cranwell	94·6	-22	WSW	5	Zo	51	97	50	5	5	–	–	10	10	1000	1	*	40	38	36	1	2	0·0
Birmingham	96·3	-10	WSW	3	Zo	52	97	51	6	6	–	–	10	10	800	0	*	44	44	42	0·5	1	0·0
Upper Heyford	97·2	-4	WSW	3	Zo	51	97	51	6	5	–	–	10	10	600	1	*	43	42	41	1	3	*
Ross-on-Wye	97·6	0	WSW	4	cbc	53	85	50	8	5	–	–	7-8	7-8	2500	1	*	49	48	44	0·1	2	0·0
Hartland Point	99·1	-12	SW	5	dd	54	97	54	5	5	2	–	9	10	450	1	5	51	49	48	1	4	0·0
Bristol	99·7	-6	SWW	6	c/d	52	97	51	5	6	2	–	9	10	500	1	*	51	49	46	1	2	0·0
Portland Bill	03·4	+8	WSW	5	o	54	92	52	7	5	–	–	10	10	2500	1	4	52	49	*	2	3	*
Plymouth	02·6	-2	WS	5	dodo	55	97	55	6	5	–	–	9+	10	600	1	4	53	51	50	1	4	0·0
The Lizard	04·0	-4	W	6	df	54	97	54	3	5	–	–	10	10	800	1	5	52	53	*	2	2	0·0
Scilly (St. Mary's)	03·6	-6	SWW	6	dodo	54	97	54	5	5	–	–	10	10	600	1	4	54	53	*	3	2	0·0
Guernsey																							
Pembroke	97·9	-6	WN	6	dd	54	97	54	6	5	–	–	10	10	800	1	4	53	50	*	1	6	0·0
Holyhead (Valley)	95·2	0	WSW	4	%d	53	97	52	6	5	–	–	10	10	1200	1	4	51	48	48	1	1	*
Chester (Sealand)	95·1	-6	WN	3	Zo	55	85	49	5	5	7	–	7-8	10	2000	1	*	45	44	43	–	1	0·0
Manchester	94·9	-4	WSW	5	c/d	52	97	51	5	6	2	–	7-8	10	700	1	*	44	43	42	0·3	2	*
Spurn Head	94·4	-26	SW	4	Zo	47	97	47	6	5	–	–	10	10	1500	1	4	40	36	*	Tr	1	0·0
Catterick (Sc)	92·4	-26	SSE	2	f–	45	97	45	3	5	7	–	2-3	9+	1500	1	*	35	35	34	0·2	1	0·0
Tynemouth	91·0	-16	SW	3	m/r	43	97	43	4	–	2	–	10	10	1500	1	3	42	37	35	–	2	*
St. Abbs Head	88·6	-28	SSW	3	Zo	43	97	43	5	5	–	–	7-8	7-8	2500	1	4	39	38	*	0·2	2	*
Leuchars	88·1	-22	–	0	dodo	43	97	43	5	–	2	–	10	10	700	1	*	37	35	35	0·5	0·6	0·0
Renfrew (Abbots I.)	89·5	0	S	2	f	48	92	48	3	5	2	–	9	10	800	1	*	39	38	32	0·6	3	0·0
Eskdalemuir	89·4	-16	SWS	3	dodo	47	97	47	4	6	2	–	7-8	10	700	1	*	35	35	35	2	7	0·0
Point of Ayre	91·8	0	WNW	4	roG	52	97	51	7	6	2	–	4-6	10	800	1	3	49	48	*	0·1	4	0·0
Tiree	91·4	+26	WN	4	%pr	47	85	43	7	3	6	–	4-6	9	1500	1		50	46	43	0·4	3	0·0
Stornoway	87·4	+30	WNW	4	bc	43	85	39	7	8	–	–	4-6	4-6	1800	2	3	47	43	39	2	6	0·0
Dalwhinnie	87·0	-8	WSW	3	ido	41	97	40	5	5	–	–	10	10	1500	1	*	37	35	33	Tr	2	0·0
Aberdeen †	87·1	-34	SW	2	%d	46	97	45	5	–	2	–	10	10	800	1	1	40	39	34	Tr	3	0·0
Wick	85·8	-30	SW	5	c	45	92	43	7	5	7	–	7-8	10	3000	1	*	43	40	35	0·3	4	*
Sumburgh	86·3	-38	SSE	6	rr	46	92	44	6	6	2	–	9	10	1000	1	3	42	41	38	Tr	6	0·1
Blacksod Point	98·4	+30	NW	5	c	46	85	42	7	6	–	–	9+	10	800	2	4	51	45	*	–	2	*
Malin Head	92·7	+20	W	4	pr	48	85	44	7	8	–	–	9+	9+	1500	2	3	49	45		0·5	1	0·0
Aldergrove	93·0	+6	W	3	%d	49	92	47	6	5	–	–	10	10	800	1	*	47	46	45	0·1	3	0·0
Birr Castle	96·8	+8	SSW	2	ir	51	92	49	7	6	2	–	7-8	10	800	1	*	50	50	50	3	5	0·0
Valentia Obsy.	00·7	+22	NW	6	iR	49	85	41	6	6	2	–	4-6	10	1500	1	5	55	48	47	7	8	0·0
Roches Point	97·0	-14	WSW	3	id	53	97	52	6	5	–	–	10	10	800	1	4	53	52	*	5	0·3	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 27th November $C_L C_M$	wwVhN_h	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN	01h. G.M.T. 28th November $C_L C_M$	wwVhN_h	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN
109	55	02863	12325	75	01763	14314	52	02754	15428	5-	64638	48568
115	52	02854	20267	22	02844	20327	52	66735	16368	52	64735	65568
203												
206	57	02765	26228	50	01654	00024	62	62664	00078	52	52655	20468
210	57	02864	11225	57	05673	12224	02	62658	12168	57	05664	17168
219	57	02875	18257	57	02864	14225	02	52518	17468	8-	25845	26585
230	52	02746	00058	52	02744	00028	5-	51638	14168	52	21845	57458
245	5-	57338	25168	5-	43348	23168	02	61548	28168	5-	21538	24158
260				--	46209	20149	02	62568	00058	5-	05548	22228
277	54	02744	18227				5-	64428	15368	52	62637	24368
279	52	52544	14158	5-	47358	12158	02	52445	12158	52	21535	55458
285										5-	53628	24458
288	02	41430	19158	5-	57258	18248	--	57109	17159	57	08444	18348
575	57	05635	14348	62	55525	14258	02	21638	24268	52	51636	30268
301	52	51446	15358	--	46309	09349	--	58309	12369	02	62538	22368
321	5-	08448	14258	--	46209	18249	--	43309	14369	57	05635	16365
290	5-	51548	20358	5-	47248	20348	5-	43238	20348	5-	22548	20468
292	--	44209	10259	--	57109	00049	--	57109	10349	5-	41538	16358
310												
614	02	47238	20158	--	57009	20249	5-	57328	14268	53	47237	20228

III	13h. G.M.T. 27th November $C_L C_M$	wwVhN_h	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN	01h. G.M.T. 28th November $C_L C_M$	wwVhN_h	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN
333	57	05545	00058	52	62625	14268	52	62616	18368	52	61646	20468
334	--	05537	00028	--	63427	28188						
340	52	41438	16358	62	62235	12268	62	52338	16468	77	02855	26226
136	52	52455	18328	--	48209	17249	5-	08428	18268	5-	62518	19468
336				--	67309	20269						
350	02	51438	16368	--	46109	00049	5-	67324	16168	5-	45335	20348
368				5-	51635	20258	5-	52438	24358	5-	52424	26358
379				--	46109	20359	--	67209	51469	5-	05628	22368
390	52	57336	15268	5-	45038	16158	5-	57238	00058	5-	08437	22258
382	02	21438	00058	52	41458	00048	5-	54438	17368	5-	05548	23428
438	5-	58637	20467	--	57109	22459	8-	67438	20668	8-	57238	22668
430	52	52537	18458	5-	41458	00058	5-	52438	18458	5-	21547	20357
409	5-	52628	18358	57	52635	15468	5-	57208	23558	5-	57108	02658

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 28th November
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	cofrdido	cidodofc	cmrorc	Kew 24 hours ended 7h.
Croydon	crorocdo	cdodocmo	crrfido	Max. 0·5 Time 18h 27th
Greenwich	cidro	cdodo	dodorrc	Min. <0·1 Time 0-5h 28th
Camden Square	or	od	*	
Kensington	ord	ompm	*	
Hampstead	orf	odf	r	

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	45	45	1	2	0·0	*	*
Croydon	49	49	46	2	3	0·0	*	*
Greenwich	51	48	45	1	3	0·0	95	88
Westminster	54	46	42	3			91	90
Regents Park								
Camden Square	49	49	38	1	3	*	*	91
Kensington	48	48	44	1	2		93	91
Hampstead	47	45	41	1	3		*	96

TERMS OF SUBSCRIPTION.

SECRET

Page 1

BRITISH SECTION

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

Monday 29th November 1943

No. 29957

OBSERVATIONS at 13h. G.M.T. 28th November

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)	96·9	−16	SW'W	4	rr	55	97	54	5	6	2	–	7·8	10	1500
	Croydon ...	97·6	−18	WSW	5	id.	57	92	45	5	5	2	–	9	10	1000
	S. Farnborough	97·9	−14	WSW	5	r.r.	56	92	54	7	5	–	–	10	10	500
	Boscombe Down	98·8	−10	WSW	5	d.d.	55	97	54	5	6	2	–	9	10	600
	Thorney Island	00·1	−16	SWW	6	id.	55	92	53	7	6	2	–	7·8	10	800
	Lympne ...	98·7	−10	W'S	5	c/f	54	97	53	6	5	7	–	9	10	700
	Manston ...	98·0	−10	WSW	4	c	56	92	53	7	5	–	–	10	10	700
2	Shoeburyness ...	98·4	−14	SW	3	z.	55	92	51	5	5	–	–	10	10	1500
	Felixstowe ...	95·8	−18	WSW	5	z.	54	85	50	6	5	2	–	9	10	1500
	Gorleston ...	94·3	−22	W	3	c	55	85	49	7	8	–	–	10	10	800
	Mildenhall ...	94·6	−16	SWW	5	c/f	55	92	53	8	5	–	–	9	10	700
	Cranwell ...	95·6	−10	W	3	r.r.	52	97	52	4	6	2	–	7·8	10	1000
3	Birmingham ...	95·4	−10	NW	4	ir	53	97	53	5	6	–	–	10	10	800
	Upper Heyford	95·4	−16	WSW	6	c/d	54	97	53	6	5	–	–	7·8	10	400
4	Ross-on-Wye	98·5	0	WNW	4	c/f	54	85	49	8	5	–	–	9+	9+	2500
5	Hartland Point	01·3	+32	WNW	5	r.r.	52	97	52	6	5	2	–	7·8	10	300
	Bristol ...	98·1	−10	W'S	6	d.d.	55	92	53	5	6	2	–	7·8	10	600
	Portland Bill ...	01·4	−12	WSW	6	c	53	92	51	7	5	–	–	10	10	2500
	Plymouth ...	01·9	−10	WSW	7	d.d.	55	97	55	6	5	2	–	9	10	600
	The Lizard ...	04·2	0	WSW	7	c/f	54	97	54	6	5	–	–	9+	9+	1000
	Scilly (St. Mary's)	05·7	+24	NW	6	c/d	52	92	51	7	5	–	–	9+	9+	800
	Guernsey ...															
6	Pembroke ...	01·5	+2	NW	5	c	50	85	45	8	8	–	–	9+	9+	1000
7	Holyhead (Valley)	99·7	+40	NWW	6	c	49	75	43	8	8	7	–	7·8	9+	2500
	Chester (Sealand)	96·2	+14	NWW	4	r.r.	47	92	45	6	6	2	3	4·6	10	1000
8	Manchester ...	95·7	+16	NWW	5	c/f	47	97	45	6	2	7	–	2·3	10	2000
10	Spurn Head ...	92·8	−8	WSW	4	r.r.	49	97	49	4	5	–	–	10	10	800
	Catterick (Sc) ...	93·2	+12	NSW	4	ir.	48	85	42	7	6	2	–	4·6	10	1000
	Tynemouth ...	91·2	+12	WSW	3	m	49	85	43	4	8	–	–	9+	9+	1600
11	St. Abbs Head	90·3	+14	W	4	c	46	92	44	7	4	7	–	7·8	9+	2000
	Leuchars ...	91·6	+22	WNW	4	c-bc	45	85	41	8	–	7	1	Tr	7·8	3000
12	Renfrew (Abbots I.)	94·7	+26	WNW	4	bc	46	75	37	8	8	3	–	1	4·6	2000
	Eskdalemuir ...	93·6	+30	WNW	5	c/pr	44	75	36	8	5	4	–	9	9+	1400
	Point of Ayre ...	96·3	+36	N'W	6	c	48	75	40	8	9	7	9	4·6	9	3500
13A	Tiree ...	95·4	+10	W	4	bc	45	75	38	9	3	6	3	2·3	4·6	2000
13B	Stornoway ...	90·0	+2	WSW	5	bc/pr	40	85	34	8	3	6	3	4·6	4·6	2200
15	Dalwhinnie ...	91·0	+20	WNW	3	bc	39	65	28	8	8	–	–	4·6	4·6	2500
	Aberdeen ...	89·7	−28	NW'W	3	c	44	75	37	8	8	7	–	Tr	9+	5700
	Wick ...	89·0	+16	WNW	3	pr	42	85	47	9	9	3	4	4·6	4·6	2000
16	Sumburgh ...	84·4	+16	W'S	5	pr	45	75	37	8	2	7	8	4·6	9+	2000
17	Blacksod Point	03·3	+18	NW	5	c-bc	47	65	36	8	8	4	–	4·6	7·8	2500
18	Malin Head ...	97·2	+18	WNW	4	pr	45	65	34	8	8	–	–	7·8	7·8	1500
	Aldergrove ...	99·8	+18	WNW	4	b-bc	46	85	41	8	3	6	–	1	2·3	2500
19	Birr Castle ...	03·7	+34	WNW	2	b-bc	48	75	40	8	2	–	–	2·3	2·3	1500
20	Valentia Obsy.	08·8	+34	NW'W	5	bc	49	55	35	8	3	6	–	4·6	4·6	2300
	Roches Point	05·5	+50	NNW	5	c-b/pr	49	85	45	8	3	–	5	4·6	7·8	1500

OBSERVATIONS at 18h. G.M.T. 28th November

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)	03·4	+72	NW'N	4	z.	48	75	43	5	5	–	–	4·6	4·6	1500	1	*
	Croydon ...	03·8	+68	W	4	z.	49	75	42	5	5	2	–	4·6	10	1000	1	*
	S. Farnborough	04·5	+70	WNW	3	c-bc	48	85	44	8	5	7	–	7·8	7·8	2600	2	*
	Boscombe Down	06·5	+66	NW	4	pr	46	85	41	7	2	4	–	4·6	4·6	2500	1	*
	Thorney Island	05·2	+56	W'N	5	b	49	75	42	7	5	–	–	Tr	Tr	2500		*
	Lympne ...	01·6	+34	NW'N	4	c/f	49	85	45	5	5	–	–	2·3	10	700	1	§
	Manston ...	00·7	+32	NW'W	4	c/f	48	92	46	6	5	–	–	4·6	10	1800	1	*
2	Shoeburyness ...	01·6	+80	WSW	5	z.	49	85	43	5	5	–	–	2·3	2·3	2500	1	*
	Felixstowe ...	98·6	+34	WNW	5	c-bc/f	48	85	44	5	5	–	–	7·8	7·8	4000	1	4
	Gorleston ...	97·1	+38	NNW	3	z.	47	85	43	6	5	–	–	4·6	4·6	1500	1	3
	Mildenhall ...	00·5	+62	W'N	5	z.	47	85	43	6	5	–	–	Tr	Tr	4000	1	*
	Cranwell ...	01·3	+34	WNW	3	b-bc	44	85	37	7	–	4	–	0	2·3	–	1	*
3	Birmingham ...	03·7	+30	WNW	4	b	43	92	41	7	5	–	–	Tr	Tr	4000	1	*
	Upper Heyford																	*
4	Ross-on-Wye	05·5	+40	W'N	3	b	45	75	37	8	5	–	–	1	1	3000	1	*
5	Hartland Point	08·8	+42	NNW	4	bc/pr	47	85	42	8	3	4	–	2·3	4·6	1500	1	5
	Bristol ...	07·2	+52	WNW	5	z.	45	75	38	6	4	6	–	1	1	2500	1	*
	Portland Bill ...	07·2	+26	NW	5	c-bc	51	92	45	7	5	–	–	7·8	7·8	4000	1	5
	Plymouth ...	10·0	+42	NW	5	z.	49	85	43	6	5	–	–	2·3	2·3	2500	1	4
	The Lizard ...	11·4	+30	WNW	5	c-bc/pr	48	75	41	7	8	–	–	7·8	7·8	1500	1	
	Scilly (St. Mary's)	12·1	+32	NW'W	6	bc	50	75	46	8	8	6	–	4·6	4·6	1100	1	5
	Guernsey ...																	
6	Pembroke ...	09·1	+20	NW	5	pr	48	75	41	7	8	4	–	4·6	7·8	1800	1	4
7	Holyhead (Valley)	09·1	+34	WNW	6	bc	46	75	37	8	2	–	1	4·6	4·6	2500	1	4
	Chester (Sealand)	02·7	+34	NW'N	4	pr	45	75	38	6	3	6	–	7·8	9	2900	1	*
8	Manchester ...	02·5	+38	W'N	4	c/pr	44	85	36	6	4	–	–	1	1	2000	1	*
10	Spurn Head ...	98·3	+44	NW'W	6	b-bc	45	75	38	7	7	–	–	2·3	2·3	2500	1	4
	Catterick (Sc) ...	99·1	+36	W	5	b	41	75	33	7	–	4	–	0	Tr	–	1	*
	Tynemouth ...	98·0	+36	W	4	b-bc	42	85	37	7	–	4	–	0	2·3	–	1	3
11	St. Abbs Head	95·0	+14	W	4	b-bc	41	75	34	7	5	–	–	2·3	2·3	2500	0	3
	Leuchars ...	94·9	+14	WSW	4	b	36	85	32	9	4	–	–	Tr	Tr	4000	1	*
12	Renfrew (Abbots I.)	98·1	+18	WSW	4	b-bc/pr	41	75	34	7	8	–	3	2·3	2·3	2500	1	*
	Eskdalemuir ...	97·8	+16	SW'W	4	b-bc	38	75	31	8	7	–	–	2·3	2·3	1800	1	*
	Point of Ayre ...	01·0	+18	NW	6	b	46	75	38	8	2	–	–	1	1	2500	0	4
13A	Tiree ...	96·4	+8	W	4	b-bc	45	85	41	8	8	–	–	2·3	2·3	2000	1	3
13B	Stornoway ...	91·6	+14	W	4	pr	39	75	32	8	3	–	–	4·6	4·6	1800	2	2
15	Dalwhinnie ...	95·0	+16	WSW	3	bc	35	85	30	8	5	–	–	4·6	4·6	1500	1	*
	Aberdeen ...	93·3	+16	WSW	2	b	39	75	30	7	4	–	–	Tr	Tr	3000	1	2
	Wick ...	90·1	+10	WSW	4	bc/pr	36	85	33	8	3	–	–	4·6	4·6	1500	1	*
16	Sumburgh ...	85·7	+8	W'S	6	b-bc	44	75	35	8	3	–	–	2·3	2·3	2000	1	3
17	Blacksod Point	05·5	+14	W	5	bc/pr	44	75	36	7	9	–	–	4·6	4·6	1500	1	4
18	Malin Head ...	99·0	+10	NW'W	5	pr	44	85	40	8	8	–	–	4·6	4·6	1500	2	4
	Aldergrove ...	02·2	+18	W'S	4	b-bc	40	75	34	8	3	–	–	2·3	2·3	2000	1	*
19	Birr Castle ...	07·1	+18	NNW	3	b-bc	42	85	38	8	5	–	–	2·3	2·3	2500	1	*
20	Valentia Obsy.	12·5	+22	WNW	5	bc/pr	47	65	36	8	3	–	–	4·6	4·6	2500	1	5
	Roches Point	11·0	+28	NW	4	b	46	85	42	8	5	–	–	1	1	1500	1	+

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 28th (39)	Weather. 13h.—18h. 28th (40)	Weather. 18h. 28th to 1h. 29th (41)	Weather. 1h.—7h. 29th (42)
1	London (Kew)	c.m.r.r	c.r.r.q.c.m.	b.c.b.m.	b.b.c.m.w
	Croydon ...	c.i.d.m.c.m.c.r.r.m.c	b.z.	b.z.b.b.c	b.z.b.b.c
	S. Farnborough	c.d.m.r.	c.r.d.r.r.m.c.b.c.b	b.b.w.b.c	b.b.w.b.c
	Boscombe Down	c.d.d.m.	b.c.p.r.	b.c.p.r.r.b.c.c	b.b.p.r.c
	Thorney Island	c.i.r.c.i.d.	c.i.d.b.c.b	b.b.m.b	b.m.b.c.m.
	Lympne ...	m.c.i.r.c.m.c.m.c.i.r.c.r.	c.b.m.	b.w.b.c.w.b	b.m.b.c.b
	Manston ...	i.d.c	c.i.d.r.r.m.c.m.b.m.	b.m.b.c.b	b.m.b.c.b
2	Shoeburyness ...	c.i.r.c	b.c.r.m.	b.c.z.	b.c.z.
	Felixstowe ...	c.i.d.r.c.m.c	c.m.c.r.r.m.b.m.	b.m.b	b.m.b
	Gorleston ...	o.d.c.z.c	c.i.d.b.c.z.	b.c.b.z.w	b.c
	Mildenhall ...	c.i.r.	c.i.R.c.i.r.	b.m.	b.m.b.c.b
	Cranwell ...	c.r.r.m	c.b.c	b.c	b.c.m.b.m.c
3	Birmingham ...	o.i.r	i.r.o.b	b	b, c.i.r.
	Upper Heyford	c.o.d.o.d.m		b.b.m.b	b.c.b
4	Ross-on-Wye	d.o.c.r.i.r.	c.b.c.c	b.b.c.b	c.p.o.c.r
5	Hartland Point	o.d.i.r.o.r.r.o.	c.p.r.c	b.c.p.r.	b.c.q.p.l
	Bristol ...	c.d.d.o.m.p.d.d	c.d.d.c.z.o.b	b.z.b.c.w	b.w.b.c.p.r
	Portland Bill ...	c	c	b.c.c	c
	Plymouth ...	o.d.d.o.m.	c.d.d.o.c.b.c	b.c.m.b	b.c.p.r.
	The Lizard ...	o.d.f.m.r		b.c.c	c.r.b.c
	Scilly (St. Mary's)	d.o.d.	c.d.o.c.b.c	b.c.p.q	b.c.p.q
	Guernsey ...				
6	Pembroke ...	c.w.i.q	c.q.p.r.o	c.q	b.c.q
7	Holyhead (Valley)	r.r.o.r.r.m.o	c.b.c	b.c.c	c.p.r.o.b
	Chester (Sealand)	c.i.r.r.o.h.	r.r.o.m.o.b.c	c.p.r.o.b.m.o	c.p.r.o.z.o.b
8	Manchester ...	c.i.r.r.m	p.r.o.h.o.z.o	b.z.o.p.r.o.b.c	p.R.q.p.r
10	Spurn Head ...	o.r.o.r.o	b.c	b.c	b.c
	Catterick (Sc) ...	c.o.d.o.r.r.o.	b.c.c	b.b.c.b	o.c.i.d.o.c.m.o
	Tynemouth ...	c.m.m.o	b.c.m.o	b.c	b.c.c
11	St. Abbs Head	c	b.c.b	b.b.c	b.c.i.r
	Leuchars ...	o.d.o.m.o.c	o.w.r.u.q	i.c.b	b.x.p.r.o.b.c
12	Renfrew (Abbots I.)	c.f.p.r.o.b.c	b.c.p.r.o.b	b.c.p.r.c.p.r.b.c	c.p.r.p.q.p.r.b.c
	Eskdalemuir ...	d.o.p.r.o.c	i.r.o.c.b.c	b.c.c.p.R	c.p.R.o.r.r
	Point of Ayre ...	c.r.r.c	c.b	b.c	c.P.H.b.c
13A	Tiree ...	c.c.p.h.b.c	b.c.c.p.r.o	b.c.p.r.b.c	c.c.p.r.o.b.c
13B	Stornoway ...	b.c.p.r.b.c	b.c.p.r.o	b.c.p.r.o.b.c.c.p.r	b.c.p.r.o.b.c.p.r.
15	Dalwhinnie ...	o.p.r.b.c	b.c.c.p.r.o.b.c	*	o.c.o.p.s.c
	Aberdeen ...	c.r.i.o.c	b.c.j.p.b	b.c.c.x	b.c.c.x.z
	Wick ...	c.d.o.d.o.b.c	b.c.p.r.o.b.c	b.c.p.r.o.c	b.c.p
16	Sumburgh ...	c.r.o.r.o.c	c.p.r.o.b.c	b.c.p.r.o	b.c.p.r.o.c.p.r.
17	Blacksod Point	pr	pr	Hr	Hr
18	Malin Head ...	pr	pr	pr	pr
	Aldergrove ...	c.i.r.o.b.o.d.o	b.o.b.c.p.r.o.b	b.o.c.p.r.	pr, P.R.b.c
19	Birr Castle ...	r	pr	*	pr
20	Valentia Obsy.	pr	pr	pr	pr
	Roches Point	pr	pr	b	pr

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 29th November, 1943.

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Fresh northwest winds, strong locally, backing and moderating later; mainly fair, but a few scattered showers, becoming fine tonight; cold with frost locally at night.
5 S.W. England 6 South Wales ♠ 7 North Wales ♠ 8 N.W. England ♠ 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man ♠ 13A W. Scotland ... ♠ 13B N.W. Scotland ♠ 14 Mid Scotland 15 N.E. Scotland	Strong squally northwest wind, gale locally at first, backing and moderating later; occasional showers of rain or hail, snow or sleet showers on Scottish mountains; local thunder; showers becoming less frequent later; cold.
16 Orkneys and Shetlands 17 N. W. Ireland ♠ 18 N. E. Ireland ♠ 19 S. E. Ireland ♠ 20 S. W. Ireland ♠	As 5-15.

GENERAL INFERENCE

A depression North of the Faeroes is moving northeast and a ridge is spreading from west across the British Isles. Weather will be generally cold and showery with mainly strong northwest winds moderating later. The showers will be very scattered in the southeast and in other districts they will become less frequent later.

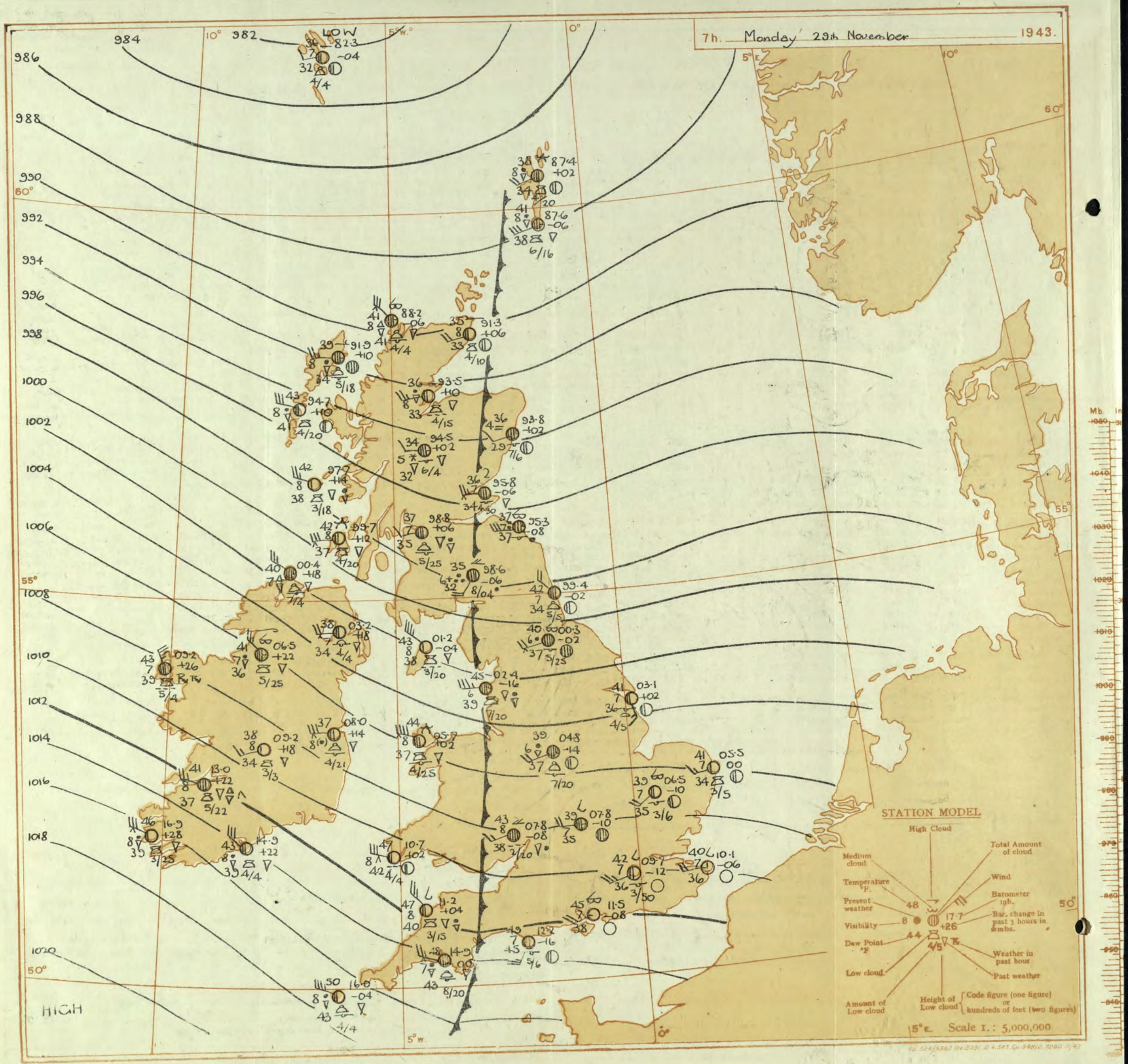
FURTHER OUTLOOK

Mainly fair at first, but rain spreading from west later.

♠ Warning of northerly gale in operation in districts:- 6, 7, 8, 12, 13, 17, 18, 19, 20.
times & issue 1150 28th Nov. 1943. 0100 29th Nov. 1943.

Forecasts issued at

NELSON K. JOHNSON, K.C.B., D.Sc., 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).

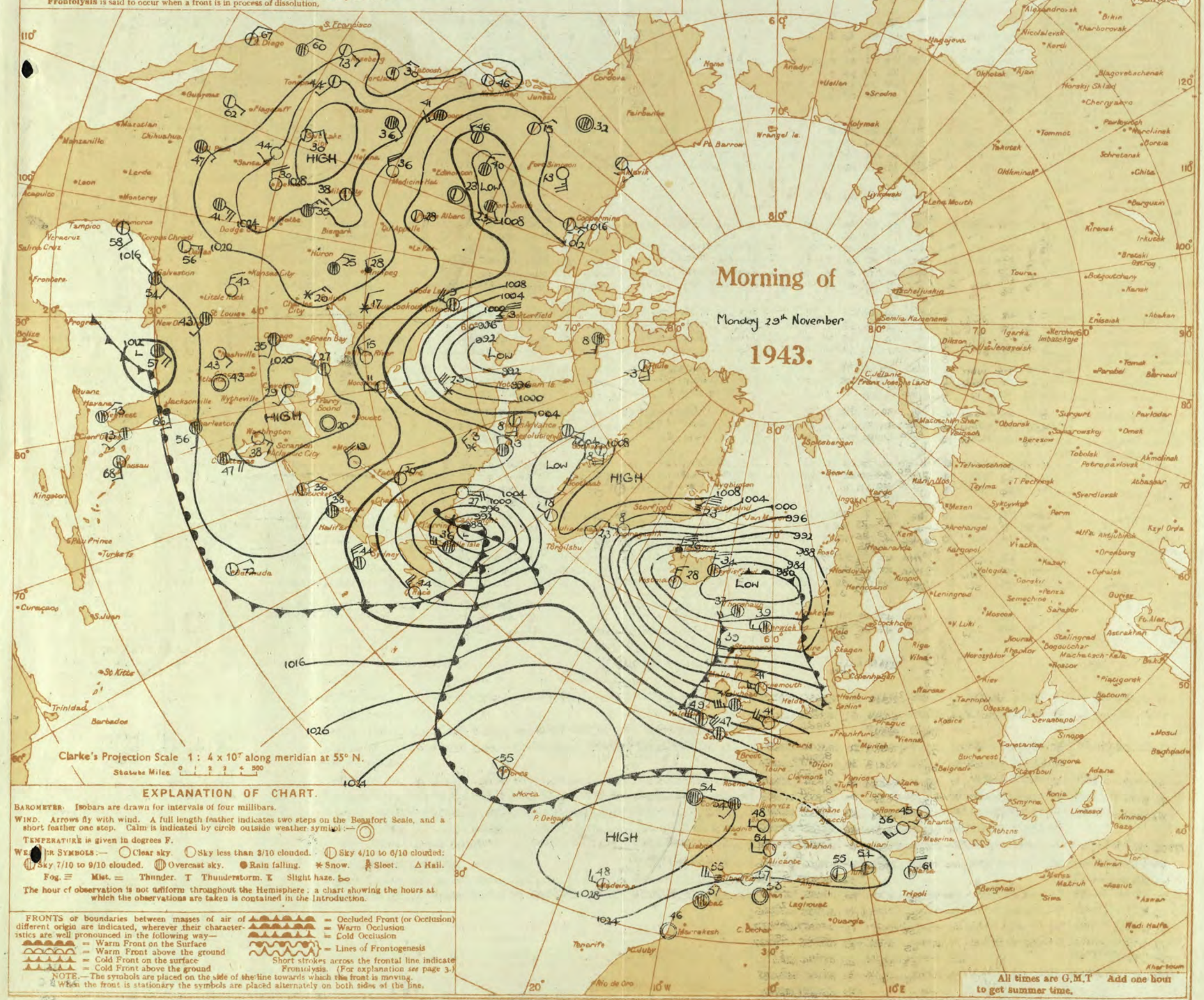
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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 29th November 1943

No. 23957

OBSERVATIONS at 1 hr. G.M.T. 29th November

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	11·1	+18	WNW	5	b	41	85	36	6	-	-	-	0	0	-
	S. Farnborough	226	11·4	+16	W'S	4	b	40	85	36	8	-	4	-	0	Tr	-
	Boscombe Down	417	12·1	+10	SW'W	4	b-bc	39	92	37	8	4	6	-	2-3	2-3	3000
	Thorney Island	10	12·2	+14	W	4	b	46	75	38	7	-	-	-	0	0	-
	Lympne	283	11·0	+18	W'N	3	b	39	92	37	7	-	-	-	0	0	-
	Manston	154	09·6	+30	WSW	3	zo	40	85	37	6	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	07·0	+10	W	4	zo	44	85	38	5	-	-	-	0	0	-
	Gorleston	5	05·5	+28	WNW	3	b	39	92	35	7	-	-	-	0	0	-
	Mildenhall	15	17·4	+14	WSW	3	zo	40	85	35	6	-	4	-	0	Tr	-
	Cranwell	203	06·0	+8	WSW	5	b-bc	39	85	36	7	5	-	-	2-3	2-3	2500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	09·4	+12	W'S	3	b-bc	36	92	34	7	-	4	-	0	2-3	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	12·9	+10	NNE	4	bc/pr	46	75	40	8	8	-	-	4-6	4-6	2500
	Bristol	209	12·1	+10	WSW	3	b-bc	42	85	36	7	-	7	1	0	2-3	-
	Portland Bill	32	13·4	+20	NW	5	c-bc	46	85	42	7	5	-	-	7-8	7-8	4000
	Plymouth	86	15·2	+10	WNW	4	bc	46	86	41	7	5	-	-	4-6	4-6	2000
	The Lizard	240	16·0	+14	WNW	5	c-bc	48	75	41	7	2	-	-	7-8	7-8	2000
	Scilly (St. Mary's)	163	16·3	+6	W'N	6	bc/pr	47	85	41	8	8	6	-	4-6	4-6	1200
	Guernsey	175															
6	Pembroke	142	12·2	+8	NW'W	6	c-bcq	48	75	40	8	8	-	-	7-8	7-8	1500
7	Holyhead (Valley)	32	07·3	+2	W'S	7	c	46	75	38	8	8	-	8	7-8	9	3100
	Chester (Sealand)	16	06·2	+8	W'N	4	zo	43	75	36	6	5	-	2	2-3	4-6	3000
8	Manchester	230	05·9	+8	SW'W	3	bc	41	75	34	7	4	-	-	4-6	4-6	3000
10	Spurn Head	29	03·8	+14	WSW	4	bc	42	75	35	7	7	-	-	4-6	4-6	2500
	Catterick (Sc)	192	01·6	0	SSW	2	b	39	85	35	7	5	-	-	Tr	Tr	4000
	Tynemouth	108	00·2	-2	W	3	b-bc	41	85	37	7	2	-	-	2-3	2-3	2500
11	St. Abbs Head	280	97·2	0	WSW	6	bc	39	92	36	7	4	-	-	4-6	4-6	2500
	Leuchars	36	96·2	-6	WSW	4	b-bc	35	92	34	8	5	-	-	2-3	2-3	4500
12	Renfrew (Abbots I.)	19	98·8	+6	WSW	2	c	40	85	36	7	2	-	-	9	9	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	03·6	+14	WNW	6	b-bc	44	75	38	8	5	-	-	2-3	2-3	2000
13A	Tiree	44	96·9	-2	WNW	4	c/phr	42	97	42	7	8	-	-	9	9	2000
13B	Stornoway	12	90·8	-4	WSW	5	pr	39	85	33	7	8	-	-	7-8	7-8	1800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	94·5	-2	WSW	3	bc	35	75	29	8	5	-	-	4-6	4-6	2500
	Wick	114	91·9	-6	SW	4	c	35	85	33	8	3	-	-	2-3	10	2000
16	Sumburgh	19	88·1	+10	W	5	c-bc	44	75	35	8	3	-	-	7-8	7-8	2000
17	Blacksod Point	18	04·2	-10	W'S	7	c/Hr	45	75	38	7	9	-	-	10	10	1500
18	Malin Head	84	98·6	-6	WNW	5	phr	45	65	34	8	8	-	-	4-6	4-6	1500
	Aldergrove	268	03·5	+2	SW	3	pr	38	92	36	7	8	-	-	10	10	1700
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	13·1	-8	W	6	bc	49	75	41	8	3	-	-	4-6	4-6	2500
	Roches Point	22	13·2	+2	NW	4	b	43	85	39	8	5	-	-	1	1	2500

OBSERVATIONS at 7 hr. G.M.T. 29th November — 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)	Temp. Max. Day 7h–18h °F. (33)	Temp. Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 28th Hrs. (38)
London (Kew)	09·0	-10	SW	3	zo	41	85	36	6	5	3	-	4-6	7-8	2500	1	*	56	40	35	1	-	0·0
Croydon	09·7	-12	SW	5	bc	42	85	36	7	5	4	-	2-3	4-6	5000	1	*	57	41	37	2	-	0·0
S. Farnborough	10·1	-10	WSW	4	bc	40	85	36	8	-	5	3	0	4-6	-	1	*	56	39	34	1	-	0·0
Boscombe Down	11·1	-8	WSW	6	c-bc/pr	41	92	39	8	3	-	-	7-8	7-8	2000	1	*	56	37	31	1	1	0·3
Thorney Island	11·5	-8	SW'W	4	b	45	75	38	7	-	7	-	0	Tr	-	1	*		43			-	*
Lympne	11·6	0	W	3	b-bc	38	85	35	7	2	4	-	Tr	2-3	2500	1	4§	54	49	31	1	-	0·0
Manston	10·1	-6	W'S	4	b	40	85	36	7	-	4	-	0	1	-	1	*	57	39	37	2	Tr	0·3
Shoeburyness	09·9	-6	SW	3	zo	42	75	35	6	-	4	-	0	1	-	1	*	55	41	35	2	-	0·0
Felixstowe	07·3	0	WSW	5	b	41	85	35	7	5	-	-	1	1	2500	0	4	55	40	36	2	-	0·0
Gorleston	05·5	0	WSW	3	b-bc	41	75	33	7	3	-	-	2-3	2-3	2500	1	3	56	38	33	3	-	0·0
Mildenhall	06·5	-10	SW'S	4	bc	39	85	35	7	5	7	-	2-3	4-6	4000	1	*	57	38		1	-	
Cranwell	04·2	-14	WSW	5	c-bc	40	85	36	7	5	4	-	7-8	7-8	3500	0	*	54	37	32	6	-	0·0
Birmingham	06·4	-8	SW	4	o/r	39	92	37	7	6	-	-	10	10	800	1	*	54	38	35	5	2	0·0
Upper Heyford	07·8	-10	W'S	4	c	39	85	35	7	-	4	-	0	9	-	1	*		35	30		-	*
Ross-on-Wye	07·8	8	WSW	3	c/r	43	85	38	8	6	2	-	1	10	2000	1	*	55	41	36	1	1	0·2
Hartland Point	11·2	+4	NW	5	bc/pr	47	75	40	8	3	4	-	2-3	4-6	1500	1	5	54	42	41	3	2	0·2
Bristol	10·4	-14	SW	4	pr	43	85	39	6	3	-	-	10	10	1500	1	*	56	39	34	7	5	0·0
Portland Bill	12·2	-16	SSW	5	c-bc	49	85	45	7	5	-	-	7-8	7-8	4000	1	5	54	45	*		-	*
Plymouth	14·9	0	W'N	5	PR	48	85	43	7	8	-	-	10	10	2000	1	4	56	45	39	2	0·1	0·2
The Lizard	14·5	-4	WNW	7	bc	45	75	39	7	2	-	-	4-6	4-6	2500	1	5	55	45	*	0·6	5	0·2
Scilly (St. Mary's)	16·0	-4	WNW	7	pr	50	75	43	8	8	-	-	4-6	4-6	1500	1	6	55	47	*	0·6	1	0·5
Guernsey																							
Pembroke	10·7	+2	WNW	6	bcq	47	85	42	8	6	-	-	4-6	4-6	1500	1	5	54	41	*	5	2	0·4
Holyhead (Valley)	09·7	+2	W'N	8	c-bc	44	75	37	8	8	6	-	4-6	7-8	2500	1	6	53	42	39	9	0·6	*
Chester (Sealand)	04·7	-6	WNW	4	zo	4	65	34	6	3	-	-	2-3	4-6	2500	1	*	55	42	35	8	0·5	0·4
Manchester	04·1	-12	SW'S	4	c-bc/pr	40	85	36	6	2	6	-	4-6	7-8	2500	1	*	52	39	36	9	2	*
Spurn Head	03·1	+2	S	3	bc	41	85	36	7	7	-	-	4-6	4-6	2500	0	2	51	36	*	2	-	0·0
Catterick (Sc)	00·3	-2	WSW	4	irp	40	85	37	6	5	7	-	7-8	10	2500	1	*	52	35	28	1	Tr	0·4
Tynemouth	99·4	-2	NW	4	c-bc	42	85	38	7	2	-	-	7-8	7-8	2500	1	3	53	39	34	-	-	*
St. Abbs Head	95·8	-8	WSW	6	ir	37	97	37	7	5	7	-	7-8	9+	1500	1	4	51	36	*	-	Tr	*
Leuchars	95·8	-6	W	5	c-bc	36	92	34	7	5	-	6	4-6	7-8	3000	1	*	47	33	26	0·2	0·1	2·4
Renfrew (Abbots I.)	98·8	+6	WSW	2	c-bc/pr	37	92	35	7	8	-	-	7-8	7-8	2500	1	*	49	37	30	0·2	3	2·1
Eskdalemuir	98·6	-6	SSW	4	rr	35	92	32	6	-	2	-	10	10	400	1	*	49	34	32	0·2	4	1·2
Point of Ayre	01·2	-4	NW	7	b-bc	43	85	38	8	9	-	-	2-3	2-3	2000	1	4	52	40	*	1	2	1·0
Tiree	97·7	+14	WNW	5	b-bc/pr	42	85	38	8	3	-	-	2-3	2-3	1800	1	4	47	38	34	0·5	5	0·3
Stornoway	91·9	+10	W	5	pr	39	75	34	8	8	-	8	7-8	9	1800	2	3	44	37	32	2	1	2·2
Dalwhinnie	94·5	+2	W	2	ps	34	92	32	5	5	-	-	9	9	1500	7	*	44	33	28	2	4	1·8
Aberdeen †	93·8	+2	SW	2	m	36	75	29	4	5	-	-	9+	9+	4000	3	1	46	34	25	-	-	1·8
Wick	91·3	+6	SW'W	4	bc	35	92	33	8	3	-	5	4-6	4-6	1000	1	*	45	34	30	1	0·4	*
Sumburgh	87·6	-6	SW	6	pr	41	85	3[illegible]	[illegible]	[illegible]	-	-	9	9	1600	1	3	47	39	34	5	2	0·1
Blacksod Point	02·2	+20	NNW	7	c-bc/Hr	43	85	39	7	9	-	-	7-8	7-8	1500	2	5	47		*	1	2	*
Malin Head	00·4	+18	NW'W	5	PHR	40	85	36	7	8	-	-	9+	9+	1500	2	4	48	38		1	8	2·7
Aldergrove	03·2	+18	W	4	bc	38	85	34	7	4	-	-	4-6	4-6	1500	1	*	40	36	32	0·1	4	3·7
Birr Castle	09·2	+18	WSW	3	b-bc	38	85	34	8	3	-	-	2-3	2-3	800	1	*	51	37	36	3	7	3·8
Valentia Obsy.	16·9	+28	WNW	6	pr	46	75	39	8	3	-	-	2-3	2-3	2500	1	6	49	42	39	1	2	2·9
Roches Point	14·9	+22	NW	6	pr	43	85	39	8	3	-	-	4-6	4-6	1500	1	4	54	43	*	2	1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 28th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 29th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
100	36	02864	26584	36	25654	56584	3-	01754	21524	31	27655	53585
115	34	02954	61684	34	88844	61686	34	89635	61688	87	88844	61686
203							--	81840	20587			
206	26	25953	24584	30	25853	57683	80	25863	20583	30	81844	22584
210				40	01951	23381	56	01963	20413	36	01953	22484
219	30	01854	59684	30	01854	57784	30	01854	56684	30	81854	59614
230	8-	01964	57484	3-	27854	57484	36	02855	20286	9-	27853	21383
245	57	02953	26126	50	01951	25311	50	02754	22118	53	01852	22213
260				50	05553	23413	00	05590	20310	86	25655	57486
277	26	01844	61584	26	01843	56684	8-	01854	55514	8-	01844	58594
279	54	62845	59466	36	25854	57584	40	01754	57514	8-	81646	57486
285	62	53745	26558							22	85525	26488
288	52	22855	24368	04	01890	24311	50	00861	20301	50	01855	20217
575	86	82743	61485	9-	85647	28587	3-	81658	55488	37	81755	61586
301	62	62766	27568	24	01752	25583	30	88658	26628	3-	25657	25787
321	52	64544	26468	04	05690	26463	3-	81765	55585	57	02755	23487
290	5-	64648	22468				40	01753	24413	40	01754	24414
292	02	64758	28468	50	01751	61461	50	01754	24414	3-	81748	53688
310										20	02428	28368
614	57	22644	28367	5-	05654	26324	40	05663	22213	57	61667	55418
333	27	81844	63468	26	02764	59485	3-	05655	55525	2-	02755	55786
334										--	65637	22578
340	62	62625	61568	46	01852	28213	54	01853	25313	56	02864	26386
136	02	64528	20468	50	01762	24562	03	01790	24512	03	02790	53416
336										57	02753	24616
350	57	22726	57568	00	00730	53560	50	05662	20302	00	05690	55414
368	57	21745	28457	54	01753	30383	80	25754	59584	36	27644	59584
379	62	21737	50568	50	02744	28324	50	05662	25382	3-	82667	57487
390	52	61436	51428	50	08444	61524	00	05590	22200	07	08490	53515
382	5-	52538	55568	5-	22864	59455	00	00790	23300	50	01864	22414
438	5-	62438	22768				10	01750	24513	80	01753	24613
430	5-	63528	54468	50	01742	61522	50	05651	26101	50	05663	24213
409	57	52855	26458	87	02845	26487	8-	02755	25525	36	25745	59687

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 29th November
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	cm0r0r	crr0qcm0	bcbm0w
Croydon	cid0m0cm0	cr0r0m0c	bz0bbc
Greenwich	c	cr0rc	bcbcr0
Camden Square	o	or	*
Kensington	cpor	opbc	*
Hampstead	od	or	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0·2, Time 19-20h 28th. Min. <0·1, Time 0-6h 29th.

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	56	40	35	1	-	0·0	*	*
Croydon	57	41	37	2	-	0·0	*	*
Greenwich	57	40	33	2	-	0·0	91	81
Westminster	57	41	34	3			93	85
Regents Park	57	40	35	1	-		94	79
Camden Square	56	40	35	3	-	*	*	86
Kensington	58	41	33	3	Tr		78	86
Hampstead	55	38	33	2	0·2		*	85

Page 1 BRITISH SECTION

SECRET

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

Tuesday 30th November 1943

No. 29958

OBSERVATIONS at 13h. G.M.T. 29th November

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)	09.9	+12	WNW	4	c-bc	46	55	30	8	8	-	-	7-8	7-8	1500
	Croydon	10.3	+12	W	5	z0	46	65	34	6	7	-	-	9	9	2000
	S. Farnborough	11.0	+10	WNW	6	b-bc	47	55	32	8	7	-	-	2-3	2-3	3000
	Boscombe Down	12.2	+6	WNW	6	c	45	65	33	8	2	-	-	7-8	7-8	2000
	Thorney Island	12.5	+2	W'N	6	bbc	49	55	33	8	1	-	-	2-3	2-3	2500
	Lympne	10.1	+2	NW	5	c	46	65	35	8	1	-	-	9	9	2000
	Manston	08.9	+2	W'N	4	c	45	75	39	8	1	6	1	7-8	9	2500
2	Shoeburyness	09.4	+8	W'N	5	z0	46	65	32	6	8	-	-	9	9	1500
	Felixstowe	07.3	+4	W'N	5	c	46	65	35	8	5	-	-	9	9	1500
	Gorleston	04.3	+12	WNW	4	bcq	45	75	35	7	8	-	-	4-6	4-6	1500
	Mildenhall	06.7	+6	W'N	5	c-bc	45	75	36	8	8	3	-	7-8	7-8	2500
	Cranwell	05.6	+12	W	5	c	43	75	36	7	8	-	-	9+	9+	1000
3	Birmingham	09.0	+8	W	4	c-bc	43	75	36	7	8	-	-	7-8	7-8	1500
	Upper Heyford	09.2	+12	W'N	6	b-bc	44	65	33	8	3	-	-	2-3	2-3	2500
4	Ross-on-Wye	11.0	+12	W'N	5	bq	46	65	34	8	2	-	3	1	1	3000
5	Hartland Point	15.5	+16	NW	5	bc	47	65	35	8	2	6	-	4-6	4-6	2000
	Bristol	13.2	+14	W	5	c-bc	46	65	34	7	2	-	-	7-8	7-8	2500
	Portland Bill	13.4	+10	W	5	c-bc / c-bs	49	85	45	8	2	-	-	7-8	7-8	4000
	Plymouth	18.0	+18	WNW	6	bc/pr	47	85	43	7	3	6	3	4-6	7-8	2500
	The Lizard	18.8	+20	WNW	7	bc/pr	48	75	39	7	2	-	-	4-6	4-6	3000
	Scilly (St. Mary's)	20.4	+16	NW'W	7	c	50	75	41	8	8	4	-	7-8	9+	1200
	Guernsey															
6	Pembroke	15.0	+22	NW	5	cbcq	47	75	40	8	8	2	-	4-6	7-8	2000
7	Holyhead (Valley)	10.3	+20	NW'W	7	c	45	75	38	8	2	6	-	7-8	9	2500
	Chester (Sealand)	07.3	+14	NW'W	6	phr	45	75	37	7	3	6	-	9+	9+	2500
8	Manchester	06.7	+10	W'N	5	c-bc/phr	41	85	36	6	9	6	3	7-8	7-8	2500
10	Spurn Head	03.4	+8	W	5	c-bc	42	85	36	7	8	3	-	4-6	7-8	1500
	Catterick (Sc)	02.4	+12	WNW	4	bc	43	75	55	8	8	6	-	4-6	4-6	2000
	Tynemouth	00.8	+4	W	5	bc	42	85	35	7	-	4	2	0	4-6	-
11	St. Abbs Head	98.4	+12	W	5	c-bc	42	85	37	7	2	4	-	4-6	7-8	3500
	Leuchars	99.7	+2	WSW	4	c-bc	41	85	38	8	3	8	3	1	7-8	2000
12	Renfrew (Abbots I.)	01.4	+10	WSW	4	c-bc/pr	41	85	36	7	3	-	3	4-6	7-8	2000
	Eskdalemuir	00.6	+10	W'N	5	c-bc	39	85	34	8	8	4	-	4-6	7-8	1500
	Point of Ayre	05.3	+16	NW	7	c-bc	45	75	38	8	9	-	-	7-8	7-8	2000
13A	Tiree	01.1	+12	W'N	5	c-phr	42	97	41	8	9	-	-	9+	9+	1000
13B	Stornoway	97.2	-2	W	7	c/phr	42	75	35	7	9	7	9	4-6	10	2000
15	Dalwhinnie	97.0	+4	W	3	prs	36	85	31	6	5	-	-	9+	9+	1500
	Aberdeen	94.9	+2	W'N	4	c	41	65	30	8	5	7	3	Tr	9+	2500
	Wick	91.4	-2	SW	3	pr	37	92	35	7	3	-	-	10	10	1000
16	Sumburgh	88.3	0	SW'S	4	c-bc/pr	43	75	35	9	3	6	3	4-6	7-8	1800
17	Blacksod Point	13.4	+10	WNW	6	bc/pr	42	85	38	7	3	-	3	2-3	4-6	1500
18	Malin Head	04.5	+16	NW'N	6	phr	44	65	33	8	8	-	-	9+	9+	1500
	Aldergrove	07.4	+10	W'S	5	bc	40	75	34	8	3	6	3	4-6	4-6	2500
19	Birr Castle	13.5	+12	NW	4	pr	44	75	37	7	8	7	-	7-8	9	1500
20	Valentia Obsy.	21.0	+14	NW'W	6	pr	49	65	38	8	3	-	-	7-8	7-8	2600
	Roches Point	18.0	+10	NW'N	5	bc	47	85	42	8	3	-	2	2-3	4-6	1500

OBSERVATIONS at 18h. G.M.T. 29th November

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)	12.1	+12	W	4	z0	43	65	33	6	-	-	-	0	0	-	1	*
	Croydon	12.7	+16	NW	5	z0	43	75	33	5	5	-	-	Tr	Tr	3000	1	*
	S. Farnborough	13.3	+16	WNW	4	b	42	75	34	7	5	-	-	1	1	3000	1	*
	Boscombe Down	14.4	+8	W'N	5	b-bc	41	75	34	8	4	-	-	2-3	2-3	2500	0	*
	Thorney Island	14.7	+14	W	6	b	42	75	35	7	-	-	-	0	0	-	1	*
	Lympne	12.3	+18	WNW	4	b	41	75	33	7	1	-	-	Tr	Tr	2500	1	§4
	Manston	10.5	+12	W'N	4	z0	42	85	37	6	-	6	-	0	1	-	1	*
2	Shoeburyness	10.9	+18	W'N	4	z0	42	65	33	6	-	-	-	0	0	-	1	*
	Felixstowe	08.6	+6	W	5	z0	42	75	34	6	5	7	-	2-3	2-3	4000	0	5
	Gorleston	05.5	+4	WNW	4	b	42	75	34	7	-	-	-	0	0	-	0	3
	Mildenhall	08.9	+14	WSW	4	c-bc	41	75	35	7	4	6	-	7-8	7-8	4000	1	*
	Cranwell	07.6	+6	W'N	6	bc	38	85	35	7	5	-	-	4-6	4-6	2000	0	*
3	Birmingham	10.6	+6	W	3	b	40	75	33	7	5	-	-	Tr	Tr	2500	1	*
	Upper Heyford	11.1	+14	W'N	5	b	39	75	33	8	4	-	-	Tr	Tr	3000	1	*
4	Ross-on-Wye	12.8	+8	W'S	4	b	42	65	33	8	8	-	3	1	1	2500	1	*
5	Hartland Point	16.2	+2	NW	5	c/pr	48	75	39	8	5	-	-	9	9	1500	1	5
	Bristol	14.8	+12	W'N	5	b-bc	43	75	35	7	4	6	-	1	2-3	2500	1	*
	Portland Bill	16.4	+8	W	5	c-bc	47	85	43	8	5	-	-	7-8	7-8	4000	1	5
	Plymouth	19.7	+12	WNW	4	bc/pr	45	85	41	6	8	-	-	4-6	4-6	2000	1	3
	The Lizard	20.7	+12	WNW	7	bc/pr	48	85	42	7	2	6	-	4-6	4-6	2500	1	5
	Scilly (St. Mary's)	21.6	+4	NW'W	6	c-bc/pr	50	75	41	8	8	7	-	4-6	7-8	1200	1	6
	Guernsey																	
6	Pembroke	17.0	+10	NW	5	c-bcq	47	85	42	8	8	-	-	7-8	7-8	1500	1	4
7	Holyhead (Valley)	11.2	+2	WNW	7	b-bc	43	79	36	8	2	6	-	2-3	2-3	2500	1	6
	Chester (Sealand)	09.4	+10	NW'W	4	bc/pr	43	75	34	8	3	6	-	4-6	4-6	2500	1	*
8	Manchester	08.4	+34	W	4	bc/pr	40	75	32	6	3	6	-	2-3	4-6	2000	1	*
10	Spurn Head	05.4	+10	WSW	5	b-bc	42	85	37	7	7	-	-	2-3	2-3	1500	0	4
	Catterick (Sc)	04.3	+4	WSW	2	b-bc/ps	37	92	35	7	5	-	-	2-3	2-3	2000	1	*
	Tynemouth	02.1	+8	W	5	b-bc	40	85	36	7	2	-	-	2-3	2-3	2500	1	3
11	St. Abbs Head	98.2	+12	W	5	bc	39	92	36	7	4	-	-	4-6	4-6	4000	0	4
	Leuchars	96.7	-10	WSW	5	bc	37	88	33	8	4	4	2	Tr	4-6	5000	1	*
12	Renfrew (Abbots I.)	01.2	-6	WSW	5	c/pr	38	92	35	6	3	-	-	9	9	1800	1	*
	Eskdalemuir	01.6	+6	W'S	5	c-bc/pr	36	85	33	7	5	4	-	4-6	7-8	1800	1	*
	Point of Ayre	06.3	+2	NW	7	b-bc	44	75	37	8	9	-	-	2-3	2-3	2500	0	4
13A	Tiree	00.4	-8	WNW	7	pr	43	92	41	6	9	-	-	10	10	800	1	5
13B	Stornoway	92.8	+10	WNW	5	pr	39	85	36	7	9	-	-	7-8	7-8	1500	2	4
15	Dalwhinnie	97.0	+6	WSW	3	prs	34	92	32	4	-	-	-	10	10	<150	7	
	Aberdeen	94.4	-6	W'S	3	b-bc	39	65	28	7	-	4	3	0	2-3	-	1	*2
	Wick	90.9	-2	SW	4	bc/pr	36	92	35	8	3	-	3	2-3	4-6	1000	1	*
16	Sumburgh	87.4	+2	W	2	c-bc/pr	39	92	37	8	3	6	-	7-8	7-8	1800	1	3
17	Blacksod Point	14.4	+10	WNW	7	c-bc/pr	45	75	38	7	9	-	-	7-8	7-8	1500	2	6
18	Malin Head	03.8	-6	NW	6	phr	45	65	34	8	8	-	-	7-8	7-8	1500	2	4
	Aldergrove	07.8	+2	WSW	4	pr	39	85	35	8	9	-	-	4-6	4-6	1500	1	*
19	Birr Castle	14.1	+2	NW	3	c-bc	46	75	36	8	8	-	-	7-8	7-8	1500	1	*
20	Valentia Obsy.	22.3	+10	WNW	6	pr	50	75	43	8	3	-	-	7-8	7-8	2500	1	6
	Roches Point	19.2	+10	NW'W	4	bc	47	85	43	8	3	-	3	2-3	4-6	1500	1	4

PAST 24 HOURS. WEATHER.

District	Stations	7h.–13h. 29th (39)	13h.–18h. 29th (40)	18h. 29th to 1h. 30th (41)	1h.–7h. 30th (42)
1	London (Kew)	pr0bccy	bybcbz0	bz0	bbc cz0
	Croydon	bbcc m0	bccprbcm0	bz0	bz0cz0
	S. Farnborough	bccir0 bbc	bcycb	b	bz0m0bbc
	Boscombe Down	bbc	cbc	bbcc bc	bbc
	Thorney Island	bcy	b	bbc	b
	Lympne	bbccprc	cbc	bm0wbw	bcm0wb
	Manston	cpr0 bc	cbcb	bm0b	m0bcc, pr0
2	Shoeburyness	bccm0	cbcm0	bm0	bcz0cx
	Felixstowe	cm0c	cm0bccm0	bbcz0	bmcbcpr0
	Gorleston	cbcq	bcq	bbc	bcctlpr0q
	Mildenhall	bcc	cbcpr0c	cbbc	bcirbc
	Cranwell	c	bc	cpr0m0	bm0cm0bc
3	Birmingham	cbcc	cb	b, 0	cir0
	Upper Heyford	cbc	bcpr0b	bbc pr0	bcb
4	Ross-on-Wye	bcp0	bcqp0bc		cbccr0c
5	Hartland Point	bcc	bcprc	circrq	cqprbc
	Bristol	bc	bcb	bz0bbcpr0	cprm0qb
	Portland Bill	c	c	pR	c
	Plymouth	bccbcpr0	bcpr0cpr	cpr0bc	cpr0prb
	The Lizard	cprbc	cprbc	bccpr	b'cprc
	Scilly (St. Mary's)	bcpqc	cp	cbcp0	bc
	Guernsey				
6	Pembroke	cq	cq	cpr0q	cq
7	Holyhead (Valley)	cbcc	cbc	bccpr0c	bbcc
	Chester (Sealand)	cpr0phr0	cphr pr0	c prhbc	bc pr0
8	Manchester	prqrph	rpr	cpRpr	phpr
10	Spurn Head	c	bc	cq	bc
	Catterick (Sc)	cir0 cbc	bcpr0bccpr0s	bc pr0bc	bbcb
	Tynemouth	bcm0	bc	bcq	bcqbc
11	St. Abbs Head	bcc	bccbc	bc	bccbcc
	Leuchars	bcxc	cbc	bcpr0b	bbc
12	Renfrew (Abbots I.)	bc prbcpr0c	cprmcm0	cprm0cpr0	cpr0bcm0
	Eskdalemuir	psrsprbc	pr0bc	bcprsPRS	cprbc
	Point of Ayre	c	cb	bPhrq	bPrq
13A	Tiree	bccphpr	cphrc	cpr0bccpr0	bcpr0phb
13B	Stornoway	cphrc	cpr	bcprhcpr0	bcpr0bc
15	Dalwhinnie	coprsc	ocprs0		oirsc
	Aberdeen	cxzbcc	cbcb	bbx	bxbccprc
	Wick	bcpr0	cpr0bcpr0bc	bc pr0	bcpr0cb
16	Sumburgh	pr0bc	cpr0	bccphr0c	bcphcpr0
17	Blacksod Point	pr	pr	pr	pr
18	Malin Head	pr	pr	pr	pr
	Aldergrove	cpr0cbc	bccpr0bc	pr0c PR	bccprbc
19	Birr Castle	pr	pr	*	bc
20	Valentia Obsy.	pr	pr	pr	pr
	Roches Point	pr	pr	pr	pr

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 30th November

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	Fresh or strong northwest or north winds, gale locally at first, backing and moderating later. Occasional thundery showers of rain or hail, some bright periods; showers dying out later: cold or very cold.
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	Fresh or strong northwest winds moderating and backing; bright intervals and local showers at first, dull with occasional rain later: cold becoming milder.
14 Mid Scotland; 15 N.E. Scotland	As 1-12
16 Orkneys and Shetlands	1-12
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	13A - 13B

GENERAL INFERENCE

A ridge of high pressure is moving east across the British Isles and will be followed by a trough of low pressure. It will be generally cold and showery at first with bright periods in most places, but dull milder conditions with occasional rain will spread from west later.

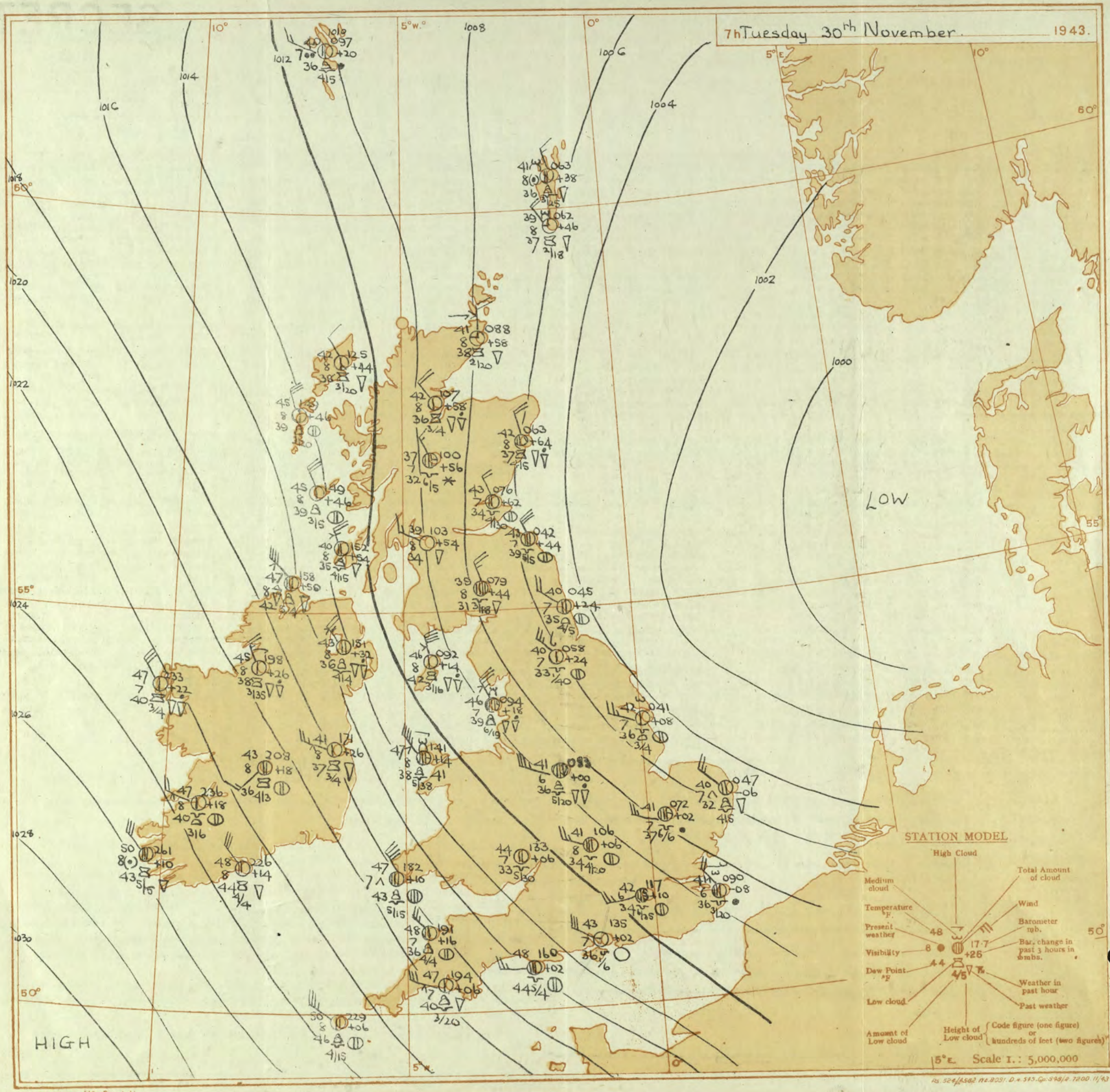
FURTHER OUTLOOK

Becoming milder generally but with much cloud and with some rain in most districts.

Forecasts issued at 1030

NELSON K. JOHNSON, K.C.B., D.Sc., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h Tuesday 30th November 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.

Tuesday 30th November 1943

No. 29958

OBSERVATIONS at 1 hr. G.M.T. 30th November

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	11·4	−18	WSW	5	b	41	75	34	6	5	9	−	Tr	Tr	2000
	S. Farnborough	226	11·8	−14	W'N	4	b	41	85	36	7	5	−	−	1	1	3000
	Boscombe Down	417	14·0	+6	WNW	5	b	42	75	35	8	−	·	−	0	0	−
	Thorney Island	10	13·7	−14	W'S	6	bc	45	75	38	7	8	−	−	4-6	4-6	2500
	Lympne	283	11·7	−14	W	4	b	37	92	35	7	−	−	−	0	0	−
	Manston	154	10·6	−10	W	4	c-bc	39	85	34	7	−	3	2	0	7-8	−
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	07·6	−18	W	5	zo	40	75	33	6	5	−	−	2-3	2-3	2500
	Gorleston	5	06·0	−10	WNW	4	bc	40	75	32	7	5	−	−	4-6	4-6	1500
	Mildenhall	15	08·1	−8	SWW	4	c	39	85	34	7	5	−	−	9+	9+	3500
	Cranwell	203	05·8	−10	W	4	pr	37	92	35	6	8	−	−	7-8	7-8	2000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	10·3	−8	W	5	bc/pr	39	85	35	7	5	−	−	4-6	4-6	2000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	16·3	0	WNW	6	c-bc/pr	48	85	43	7	3	−	−	7-8	7-8	1500
	Bristol	209	14·4	−2	W	5	pr	43	85	38	5	3	−	−	10	10	1500
	Portland Bill	32	15·3	−16	SW	5	o/r	47	92	45	7	5	−	−	10	10	2500
	Plymouth	86	17·7	−14	WNW	6	pr	48	85	44	6	8	−	−	9	9	2000
	The Lizard	240	20·7	+2	WNW	7	pr	51	75	45	7	2	−	−	7-8	7-8	2000
	Scilly (St. Mary's)	163	22·3	−2	NW	7	bc/pr	51	75	45	7	8	−	−	4-6	4-6	1500
	Guernsey	175															
6	Pembroke	142	16·1	+4	NW	6	c-bcq	43	85	45	7	8	−	−	7-8	7-8	1500
7	Holyhead (Valley)	32	11·5	+2	NW'W	8	b-bc	45	75	38	8	8	−	−	2-3	2-3	2500
	Chester (Sealand)	16	08·4	+28	N W	7	b-bc/pr	44	75	37	7	3	−	−	2-3	2-3	2500
8	Manchester	230	07·6	+2	NW	6	c-bc/pr	39	85	35	7	2	−	−	7-8	7-8	2800
10	Spurn Head	29	03·4	−18	WSW	6	cq	41	92	38	6	7	−	−	9+	9+	1500
	Catterick (Sc)	192	02·7	−2	WNW	6	b'	39	85	34	7	−	−	−	0	0	−
	Tynemouth	108	01·5	+10	W	6	b-bcq	38	92	35	7	2	−	−	2-3	2-3	2500
11	St. Abbs Head	280	98·6	+26	W	7	bc	40	65	29	7	4	−	−	4-6	4-6	4000
	Leuchars	36	98·9	+24	WNW	5	b	39	75	33	8	4	−	−	1	1	4000
12	Renfrew (Abbots I.)	19	03·3	+20	W'N	5	c/pr	42	85	36	6	3	−	−	9	9	1000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	06·7	+14	N	8	b-bc/phr	43	92	41	7	3	−	−	2-3	2-3	1500
13A	Tiree	44	06·4	+28	NW'N	7	pr	43	85	39	7	3	−	3	4-6	4-6	1500
13B	Stornoway	12	01·9	+38	NNW	6	b-bc/pr	42	85	36	7	3	−	−	2-3	2-3	1800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	96·9	+22	N	5	c-bc	39	85	34	8	8	6	3	4-6	7-8	2000
	Wick	114	96·1	+38	NW	1	c-bc/pr	38	85	33	7	3	−	−	1	1	1500
16	Sumburgh	19	96·6	+54	NNE	4	c-bc/phr	39	92	38	8	3	−	−	7-8	7-8	1500
17	Blacksod Point	18	19·2	+28	NW	7	b-bc	47	65	36	7	8	−	4	2-3	2-3	1500
18	Malin Head	84	09·3	+30	NW	7	PHR	45	75	38	8	8	−	−	7-8	7-8	1500
	Aldergrove	268	11·0	+22	NW'W	4	c-bc/pr	41	85	38	8	3	−	−	7-8	7-8	1500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	24·8	+14	WNW	5	bc/pr	49	75	42	8	3	−	−	4-6	4-6	2500
	Roches Point	22	19·6	−2	WNW	7	bc/pr	46	85	42	8	3	−	−	4-6	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 30th November — 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 29th Hrs. (38)
London (Kew)	11·1	+4	WNW	4	zo	42	65	32	6	5	−	−	9	9	2500	1	*	47	41	35	0·1	−	4·2
Croydon	11·7	+10	W	5	c	42	75	34	6	5	−	−	9	9	3500	1	*	47	40	35	Tr	−	4·2
S. Farnborough	12·2	+6	WNW	5	bc	42	75	34	7	5	3	−	4-6	4-6	3000	1	*	47	40	32	1	−	6·2
Boscombe Down	14·2	+6	NW'W	5	bc	41	85	35	8	5	3	−	2-3	4-6	4000	0	*	47	39	35	3	−	5·2
Thorney Island	13·5	−2	WNW	6	b	43	75	36	7	5	−	−	Tr	Tr	4000	1	*	48	40	38	Tr	Tr	*
Lympne	10·3	0	NW'W	4	bc	38	85	35	7	−	4	6	0	4-6	−	1	§4	46	36	31	0·6	−	4·9
Manston	09·0	−8	NW'W	4	zo	41	85	36	6	5	3	2	2-3	7-8	2000	1	*	46	37	33	Tr	Tr	3·5
Shoeburyness	10·1	+	W'N	3	zo	43	75	34	6	5	7	−	2-3	7-8	2500	1	*	46	*	32	−	−	3·0
Felixstowe	07·3	+4	W'N	7	PR	42	75	34	7	5	−	−	7-8	7-8	2500	1	5	47	39	35	0·1	0·1	2·7
Gorleston	04·7	−6	NW	5	bcq	40	75	32	7	8	−	−	4-6	4-6	2500	1	+	47	37	33	1	0·4	3·0
Mildenhall	07·2	+2	W'N	5	c	41	85	37	7	5	−	−	9	9	4000	1	*	45	37	25	Tr	0·2	*1·4
Cranwell	06·4	+26	WNW	5	zo	41	85	36	6	5	7	−	4-6	4-6	3000	0	*	44	36	34	0·3	0·4	2·2
Birmingham	10·4	+4	WNW	5	iro	41	85	37	6	6	−	−	9+	9+	800	1	*	44	38	35	−	1	2·7
Upper Heyford	10·6	+6	WNW	5	c-bc	41	75	34	8	5	−	−	4-6	7-8	2000	1	*	48	37	31	Tr	0·1	*
Ross-on-Wye	13·3	−8	W	4	c	44	65	33	7	5	−	−	7-8	7-8	3000	1	*	46	42	36	0·1	0·3	5·5
Hartland Point	19·1	+16	NW	5	bc	48	65	36	7	2	−	−	4-6	4-6	1500	1	6	48	46	42	0·1	3	2·0
Bristol	14·9	+8	W	4	b-bc	43	85	35	7	5	−	−	2-3	2-3	2500	1	*	47	39	34	0·2	1	3·1
Portland Bill	16·0	+2	W	5	c-bc	48	92	44	8	5	−	−	Tr	7-8	2500	1	5	51	45	*	0·3	0·2	*
Plymouth	19·4	+6	WNW	6	b-bc	47	75	40	7	8	−	−	2-3	2-3	2000	1	4	50	44	39	2	6	5·2
The Lizard	21·4	+4	N	6	c-bc	45	97	45	6	8	6	−	7-8	7-8	1500	1	5	49	44	*	3	2	5·3
Scilly (St. Mary's)	22·9	+6	NW	7	bc	50	85	46	8	8	−	−	4-6	4-6	1500	1	6	51	47	*	1	0·2	4·9
Guernsey																							
Pembroke	18·2	+10	NW	8	c-bcq	47	85	43	7	8	−	−	7-8	7-8	1500	1	5	48	44	*	−	1	2·6
Holyhead (Valley)	14·1	+14	NW	9	c	47	75	38	8	8	6	3	7-8	9	3800	1	6	45	42	41	Tr	Tr	*
Chester (Sealand)	10·0	+10	NW'N	7	c/pr	45	75	38	7	3	−	−	10	10	2500	1	*	46	42	36	4	3	3·7
Manchester	09·0	+10	NWW	5	pr	42	85	38	6	2	6	−	7-8	9+	1500	1	*	45	37	33	1	10	*
Spurn Head	04·1	+8	W'N	5	b-bc	42	75	36	7	4	3	−	2-3	2-3	1500	0	5	49	40	*	Tr	−	2·8
Catterick (Sc)	05·8	+24	NW	5	b-bc	40	75	33	7	5	4	−	Tr	2-3	4000	1	*	44	35	30	0·3	1	4·4
Tynemouth	04·5	+24	WNW	4	bc	40	85	35	7	1	−	−	4-6	4-6	2500	1	3	43	37	33	−	−	*
St. Abbs Head	04·2	+44	NNW	6	c-bc	43	85	39	7	5	−	−	7-8	7-8	2500	0	5	43	36	*	Tr	−	*
Leuchars	07·6	+62	NW	4	bc	43	75	34	7	5	−	−	4-6	4-6	3000	1	*	42	36	33	−	0·3	5·5
Renfrew (Abbots I.)	10·3	+54	WNW	3	b	39	85	34	8	−	−	−	0	0	−	1	*	42	38	29	4	3	1·2
Eskdalemuir	07·9	+44	NNW	5	c	39	85	31	8	5	−	−	2-3	10	1800	1	*	40	34	32	1	4	3·3
Point of Ayre	09·2	+14	N'W	8	b-bc/pr	46	85	42	8	3	−	−	2-3	2-3	1600	1	5	45	41	*	−	5	1·9
Tiree	14·9	+46	NNW	6	b-bc	45	85	39	8	2	−	−	2-3	2-3	2000	1	5	46	32	31	4	6	1·4
Stornoway	12·5	+44	NW	2	b-bc	42	85	38	8	3	−	−	2-3	2-3	2000	2	2	43	37	35	6	1	0·0
Dalwhinnie	10·0	+56	NNW	3	c	37	85	32	7	5	−	−	9	9	2500	4	*	36	33	32	9	7	0·0
Aberdeen †	06·3	+64	NNW	4	bc/pr	42	85	37	8	3	−	3	4-6	4-6	2500	1	2	42	36	27	−	2	0·6
Wick	08·8	+58	N	4	b	41	85	38	8	3	−	3	1	1	2000	1	*	38	35	33	4	4	*
Sumburgh	06·2	+46	N'W	4	b	39	92	37	8	3	6	−	1	1	1800	1	3	44	36	33	4	3	0·6
Blacksod Point	23·3	+22	NW	6	b-bc/pr	47	75	40	7	3	−	−	2-3	2-3	1500	1	5	47	43	*	4	Tr	*
Malin Head	15·8	+50	NW'N	8	phr	47	85	42	8	8	−	−	7-8	7-8	1500	2	6	46	36		3	3	0·3
Aldergrove	15·1	+32	NW'W	5	bc/pr	43	75	36	8	8	−	−	4-6	4-6	1500	1	*	42	38	34	1	3	2·1
Birr Castle	20·8	+18	SW	3	bc	43	75	36	8	3	−	−	4-6	4-6	800	1	*	44	41	38	1	0·3	2·5
Valentia Obsy.	26·1	+10	NW	6	c-bcjp	50	75	43	8	3	−	−	7-8	7-8	2500	1	6	50	48	44	8	2	2·0
Roches Point	22·6	+14	NW	6	bc	48	85	44	8	3	−	−	4-6	4-6	1500	1	+	48	45	*	1	1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 29th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 30th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
100	96	25845	56687	96	25754	55584	30	01763	64513	30	01754	63584
115												
203												
206	8-	25854	53587	3-	25855	53585	30	81843	61483	30	25843	28483
210				40	25854	54484	3-	81858	53588	86	81845	61685
219	30	25845	57785	36	01854	59884	30	01854	60884	3-	81744	61785
230	9-	24856	55586	9-	81847	57687	36	27854	63684	3-	02855	30585
245	57	02563	22326	54	01863	57413	54	01853	22383	3-	25843	28383
260	8-	25654	20384				40	05653	22513	50	05652	24212
277				9-	83737	56687	30	25843	61784	30	01843	62783
279	96	81845	57586	30	25754	59684	32	81645	59685	50	01753	61583
285												
288	10	01853	565x4	54	00852	22412	04	01890	54421	04	01890	60522
575	90	25854	61584	30	25863	61683	30	01754	63584	30	25863	63583
301	86	27845	25675	36	25644	25714	3-	81658	59788	26	25746	62787
321	96	81645	58486	20	05653	24483	86	25754	59484	56	01762	59523
290	23	01745	24414				80	14744	24514	70	01744	24514
292	36	01953	22584	44	01853	22413	40	01753	24483	50	01864	26624
310	26	52525	20415							60	05628	20478
614	36	02754	57415	9-	81645	56485	3-	85547	58487	6-	81646	61416

III	13h. G.M.T. 29th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 30th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	2-	02754	58625	20	02759	55525	2-	05654	57714	27	02745	58716
334	--	61636	26587				--	27645	28586	--	65537	24588
340	8-	25865	59385	40	01852	59412	8-	81847	59487	8-	81844	28487
136	10	01851	24612	06	01790	23412	54	01764	23414	8-	81757	24587
236	20	01754	24514	57	05654	28516						
350	20	01854	57584	00	00890	24510	40	05663	57513	8-	81755	59585
368	30	25644	61584	84	05644	59524						
379	86	01854	59584	57	01852	26412	50	25752	24382	5-	01765	26415
390				40	05653	22423	50	05663	22323	5-	05667	24327
382	84	01842	59522	40	01862	57412	3-	81856	58416	86	01862	24402
438	8-	02655	24715	50	01753	24613	50	01653	24613	10	01762	28612
430				00	00790	59410	53	01852	59414	04	01890	61402
409	20	25855	59787	26	02865	59526	8-	02766	58786	26	01764	61514

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 30th November
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	pr.bcy	bybcbzo	bzobbc	Kew 24 hours ended 7h. Max. 0·2 Time 15-17h 29th
Croydon	bbccmo	bccprbc	bzoczo	Min. <0·1 Time 0-6h
Greenwich	bbcq	bcbqy	bbccro	
Camden Square	b	b	*	
Kensington	bc	bc	*	
Hampstead				

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	41	35	0·1	−	4·2	*	*
Croydon	47	40	35	Tr	−	4·2	*	*
Greenwich	46	39	32	−	Tr	3·4	56	76
Westminster	48	41	32	0·1			64	83
Regents Park	46	41	35	−	Tr		62	79
Camden Square	47	40	35	−	Tr	*	*	79
Kensington	47	43	*	*	*	*		*
Hampstead							*	