M.O. Form 2373

SECRET

THE DAILY WEATHER REPORT

BRITISH SECTION

1st October to 31st December

1942

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.
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 ... Ground covered with snow, less than 6 ins. deep but ground not frozen.
8 ... ,, covered with snow, less than 6 ins. deep but ground frozen.
9 ... ,, covered with snow greater than 6 ins. deep.
– ... Fresh snow has fallen on the mountains.

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 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).

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.

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 ,,	6¼ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

Code for State of Sea (S)—Column 32

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

Rainfall—Columns 36, 37
Tr: = rain has fallen, but amount less than 0·1 m.m.

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

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

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

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

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

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.

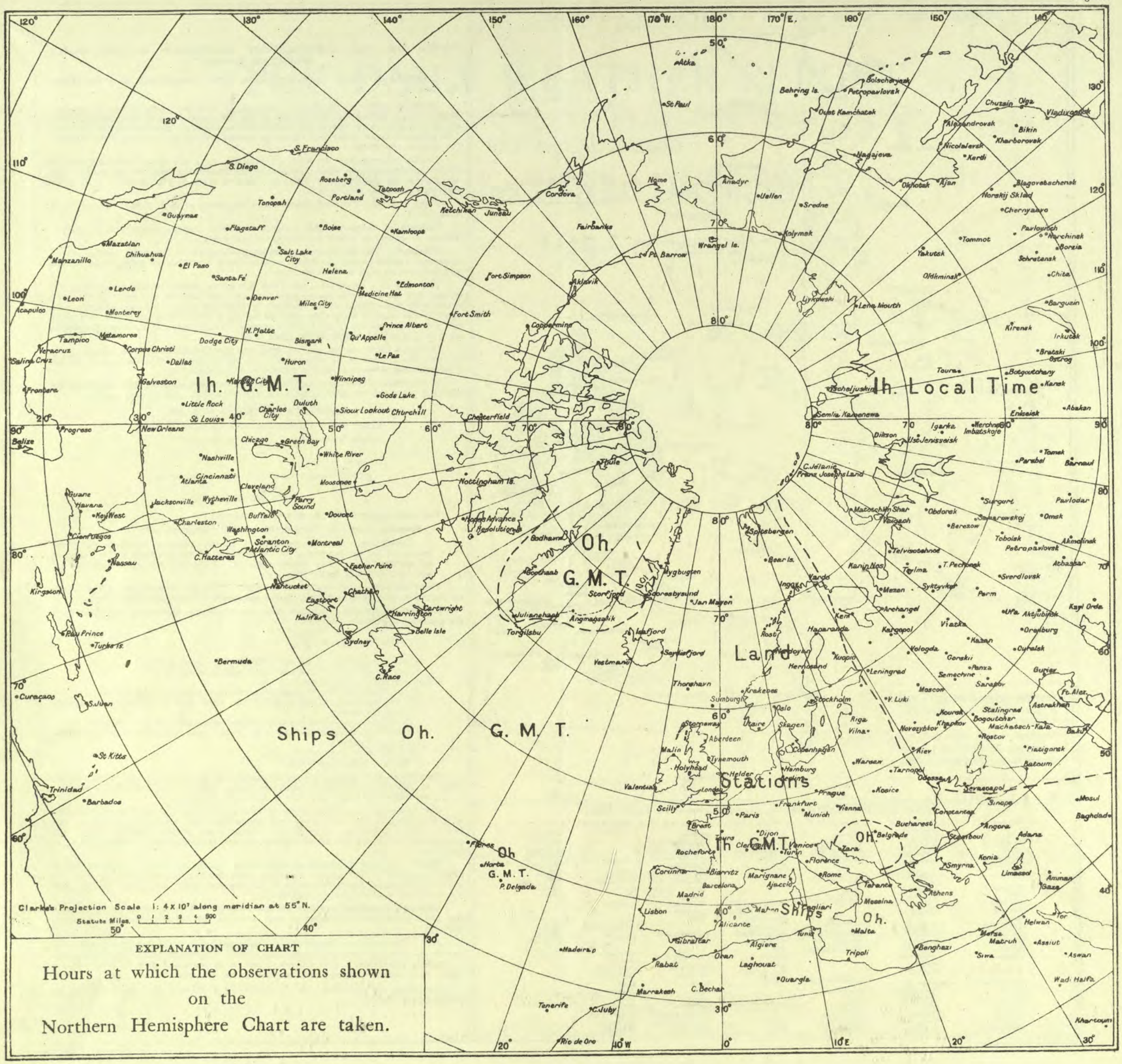
For gales commencing from East or West the South Cone will be hoisted if the gale is expected to change to a Southerly direction.

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.


1h. G. M. T.
1h. Local Time
Ships Oh. G. M. T.
Oh. G. M. T.
Land Stations
Oh. 1h. G. M. T.
Oh. G. M. T.
Ships Oh.
Clarke's Projection Scale 1: 4 X 10⁷ along meridian at 55° N.
Statute Miles.
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.

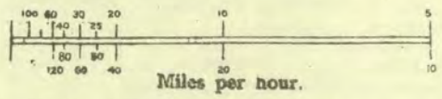
The wind at a height of 1,500–2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the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



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 5 is indicated by two whole feathers and one half feather.

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

N.B.—Readers of the Report who are unacquainted with the method of construction and the use of weather charts are recommended to read "The Weather Map: An Introduction to Modern Meteorology," (3rd Edition, 1939), to be purchased from H.M. Stationery Office, York House, Kingsway, W.C.2, price 3s. 2d. post free.

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

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

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON

MONTHLY SUPPLEMENT,

November 1942 No. 311

Quiet weather and deficiency of rain.

Pressure remained rather flat over the British Isles for the first few days of the month, but on the 5th a depression moved up from the Bay of Biscay over the southern half and passed away on the 6th. This was followed by frontal systems from an Icelandic low, moving eastwards across the country, but by the 14th an anticyclone advanced from the Atlantic. This high pressure continued to dominate the situation until the 27th, slowly receded and by the 30th small depressions had moved down from the North. Fog was reported from many stations especially during the first half of the month, persisting in some cases day and night. The London area was enveloped in a particularly dense fog-belt on the 11th.

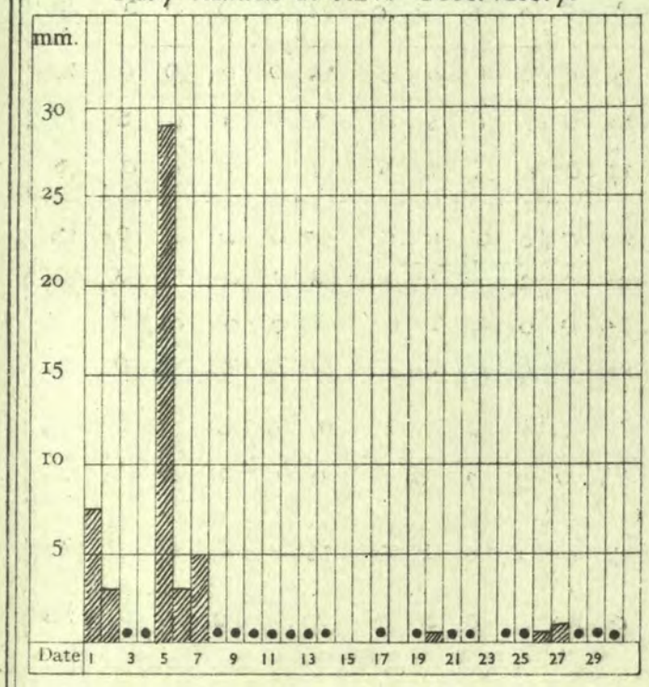
Rainfall was deficient in most parts of the country, only 20% of the normal being registered at some stations. Records were broken at Valley, Sealand, Leuchars, Aldergrove, Aberdeen. However, some rather heavy falls occurred on the 1st, 31mm Upper Heyford, 39mm Manston, 29 mm Lympne (thunderstorms at both of the latter stations) and again on the 5th, 29mm at Kew and South Farnboro'. A thunderstorm yielded 23mm at Point of Ayre during the night of the 2nd.

A rather outstanding day max. of 61°F occurred on the 14th at Aberdeen, while low maxima were reported on the 2nd (30°F Renfrew), on the 21st and 29th (34°F Dalwhinnie and Sumburgh) and again on the 22nd, when a number of places failed to reach 40°F. During the 4th, 22nd and 23rd, night minima at many stations were below 30°F and ground frosts were numerous throughout the month; a minimum of 15°F and grass min. of 9°F were recorded at Eskdalemuir on the 22nd.

Gales were confined to the extreme North and were reported on a number of occasions at Sumburgh, Wick, Tiree and Stornoway.

Apart from Valentia, sunshine was about the average at most stations, a rather pleasant spell occurring in some localities in the South between the 6th and 11th.

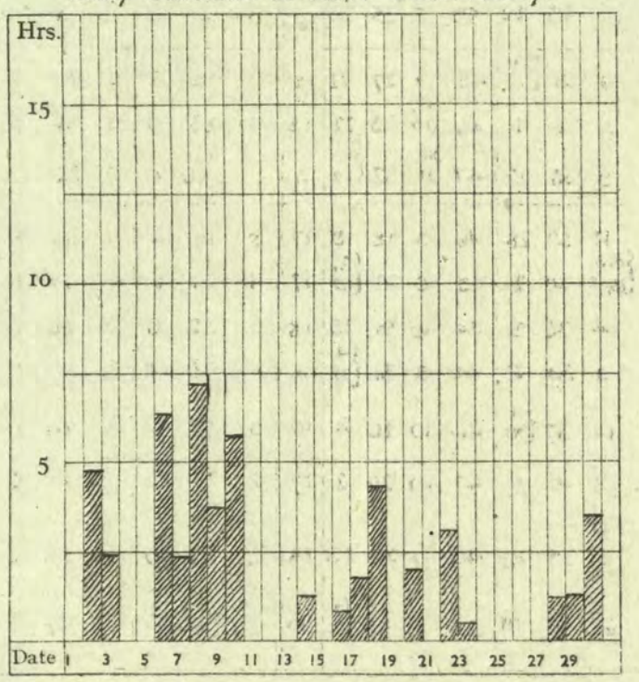
Daily Rainfall at KEW Observatory.



● = less than 0·5 mm.

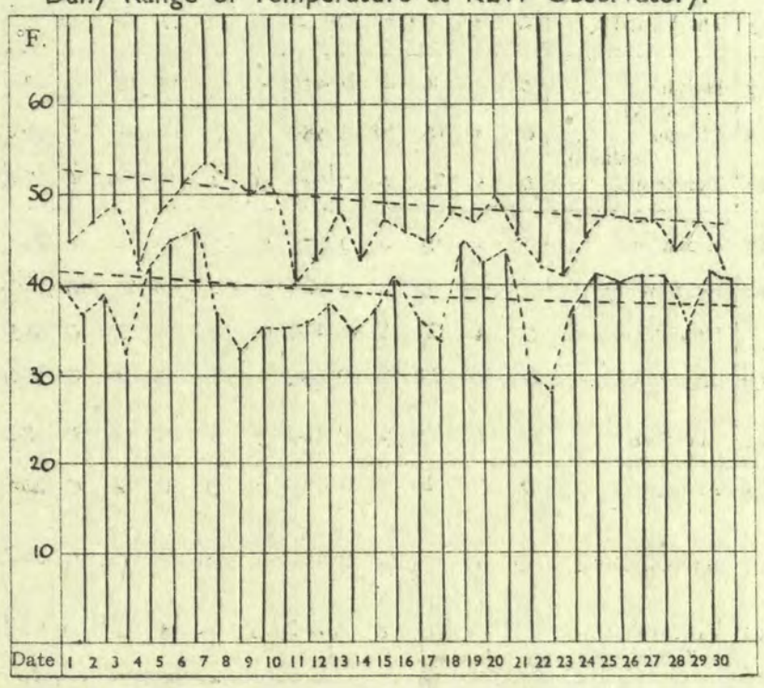
RAINFALL. Total for Month. 50 mm.

Daily Sunshine at KEW Observatory.



SUNSHINE. Total for Month. 53 hrs.

Daily Range of Temperature at KEW Observatory.



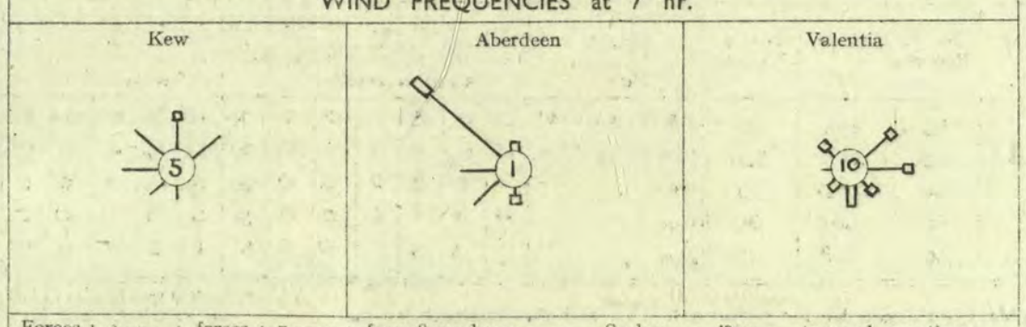
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.*

STATIONS.	PRESSURE Mean	PRESSURE Difference from average	TEMPERATURE Mean	TEMPERATURE Difference from average
	mb	mb.	°F.	°F.
Kew	1024·5	+9·9	42·3	−2·0
Aberdeen	1021·7	+11·9	42·3	0
Valentia	1026·5	+13·5	43·5	−4·0

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

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

	miles.
Kew ...	3812
Aberdeen ...	5190
Lerwick ...	15493
Valentia ...	

SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

District.	Stations.	† Temperature. Number of daily readings within fixed limits. Maximum. 32° or below.	33°–41°	42°–50°	51°–59°	60°–68°	Average Maximum.	Minimum. 23° or below	24°–32°	33°–41°	42°–50°	51°–59°	Average Minimum.	Extremes—Warmest and Coldest. Days. Highest Max.	Date.	Lowest Max.	Date.	Nights. Highest Min.	Date.	Lowest Min.	Date.	Number of Ground Frosts.	Low Cloud. Number of observations within fixed limits. 7 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	13 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	18 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	Fog, Mist and Good Visibility. Number of observations within fixed limits. 7 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.	13 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.
							°F						°F	°F		°F		°F.		°F																					
1	London ... (Kew Obsy).	0	2	24	4	0	48.6	0	2	22	6	0	40.0	54	7	40	11	46	7	28	23	18	4	18	0	2	21	2	2	21	1	1	3	2	6	0	1	1	4	4	0
	Croydon ...	0	4	20	6	0	49.1	0	4	18	8	0	39.4	57	10	38	22	46	7	26	23	9	12	11	0	7	19	0	11	11	0	1	1	7	16	0	0	1	10	10	1
	Thorney Island	0	0	21	9	0	50.2	0	5	18	7	0	41.5	57	9	44	23	48	7	28	22, 23	15	0	19	0	0	25	0	1	17	2	0	0	0	5	2	0	0	0	0	8
	Lympne ...	0	1	23	6	0	47.9	0	3	22	5	0	39.4	54	9	39	4	47	6	26	23	3	6	18	0	3	20	2	1	12	4	0	0	3	4	5	0	0	0	1	12
2	Shoeburyness...	0	0	20	10	0	49.2	0	4	20	6	0	39.0	57	9	42	23	45	6, 7, 19	30	23	18	1	16	0	0	23	0	0	20	0	0	3	3	7	0	0	0	0	1	7
	Gorleston ...	0	1	21	8	0	48.6	0	1	12	17	0	40.8	54	9, 10	41	30	50	6	32	23	1	8	21	0	4	24	0	6	19	0	0	1	0	2	11	0	0	0	0	15
	Cranwell ...	0	3	20	7	0	47.1	0	4	19	7	0	37.1	53	7	41	12, 28, 30	44	10, 11	29	23	5	5	15	0	4	17	2	3	17	1	0	2	3	9	0	0	0	2	9	1
3	Birmingham ... (Edgbaston)	0	3	24	3	0	46.9	0	2	21	7	0	39.0	52	8, 10	37	22	46	15	27	22	12	23	3	0	21	3	0	21	2	0	1	2	13	5	1	0	1	2	10	5
4	Ross-on-Wye...	0	3	20	7	0	48.4	1	6	19	4	0	39.0	54	8	37	4	45	7	23	23	16	8	17	0	7	18	0	6	19	0	0	3	3	4	5	0	1	2	3	12
5	The Lizard ...	0	0	16	14	0	*	0	0	9	21	0	*	57	2, 11	45	22	49	7	35	23	*	0	30	0	0	30	0	0	30	0	0	0	0	0	24	0	0	0	0	29
7	Holyhead ... (Valley)	0	0	16	14	0	49.7	0	6	10	14	0	44.4	57	16	45	21, 22	49	9	27	22	12	0	25	1	0	27	1	0	28	0	0	1	0	0	24	0	0	0	0	27
8	Chester ... (Sealand)	0	1	19	10	0	48.3	1	7	12	10	0	38.2	55	9	36	4	48	5, 18	23	22	15	3	23	0	2	26	0	3	25	0	1	1	3	4	2	0	1	0	5	10
10	Tynemouth ...	0	4	21	5	0	47.5	0	2	18	10	0	40.4	53	9	38	22	47	10, 11	32	5, 22	3	1	20	0	0	26	0	0	27	0	0	1	2	3	8	0	1	0	0	5
11	Leuchars ...	0	6	19	5	0	46.7	0	11	13	6	0	36.3	55	15	39	28	46	15	28	19	17	0	19	4	0	16	2	0	21	0	0	0	1	0	27	0	0	0	0	19
12	Renfrew ...	2	4	16	8	0	46.1	2	9	13	6	0	36.1	53	8, 9, 15, 18	30	2	49	10	23	2, 22	17	4	22	0	4	22	1	2	24	0	2	1	2	7	8	2	0	1	3	16
	Eskdalemuir ...	0	4	24	2	0	43.9	3	8	16	3	0	34.3	52	14	36	21	44	10	15	22	18	4	25	0	2	26	0	2	24	0	0	2	2	0	20	0	0	0	0	26
13B	Stornoway ...	0	1	22	7	0	47.2	0	3	18	9	0	39.6	53	9	39	21	49	9	31	4, 22	*	1	28	0	3	27	0	3	26	0	0	0	0	1	27	0	0	0	0	26
15	Aberdeen ...	0	4	23	2	1	46.2	0	5	15	10	0	38.3	61	14	37	21, 30	46	10	26	4	10	0	26	1	0	26	1	0	22	2	0	0	1	2	18	0	0	0	1	25
18	Aldergrove ...	0	1	26	3	0	47.9	0	9	15	6	0	39.1	53	6, 15	41	30	47	10	26	2	17	2	24	0	1	26	0	1	29	0	0	2	0	1	21	0	0	0	1	23
19	Birr Castle ...	0	1	23	6	0	48.6	1	15	13	1	0	38.2	56	6	39	23	49	10	22	23	18	2	24	0	1	28	0	2	20	0	0	0	2	0	28	0	0	0	0	30
20	Valentia ... (Cahirciveen)	0	0	22	8	0	51.2	0	10	8	12	0	43.7	56	6	44	19	50	10	28	2, 3	13	2	25	0	1	27	0	0	0	27	0	0	0	0	29	0	0	0	0	29

UPPER AIR TEMPERATURE.

Pressure. mb.	Normal Height. Feet.	Bircham Newton. Normal Temp. °F.	Mean. °F.	No. of Reports.	Aldergrove. Mean. °F.	No. of Reports.	Penzance. Mean. °F.	No. of Reports.
950	1740	42.0	38.3	60	38.5	60	41.8	30
850	4960	34.2	29.8	60	32.5	60	33.9	30
750	7950	25.3	25.7	60	26.9	60	30.0	30
650	11620	14.2	16.1	60	16.7	60	20.5	30
550	15750	0.3	2.1	60	2.0	60	6.3	30

UPPER WINDS.

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

Station.	Lympne.						Plymouth (Mt. Batten).						Holyhead (Valley).						Renfrew.						Station.
Height. Metres.	*No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	*No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	*No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	*No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Height. Metres.
		kilometres per hour.						kilometres per hour.						kilometres per hour.						kilometres per hour.					
500 above ground	29	13	15	1	0	0	70	41	26	0	0	0	13	10	3	0	0	0	10	8	1	1	0	0	500 above ground.
1000 above M.S.L.	25	16	9	0	0	0	51	31	16	4	0	0	12	8	4	0	0	0	8	6	2	0	0	0	1000 above M.S.L.
2000 ,, ,,	18	8	9	0	0	0	20	9	6	5	0	0	7	5	2	0	0	0	3	2	1	0	0	0	2000 ,, ,,
3000 ,, ,,	11	4	7	0	0	0	9	5	3	1	0	0	3	1	2	0	0	0	2	2	0	0	0	0	3000 ,, ,,
4000 ,, ,,	7	3	3	1	0	0	5	1	2	2	0	0	1	0	1	0	0	0	2	0	1	1	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.
N. K. JOHNSON, D.Sc., A.R.C.S., Director

SUNSHINE, RAINFALL, AND HUMIDITY ..... November ..... 1942.

District.	Stations.	Sunshine. Number of Days with Duration. Nil.	0·1—3h.	3·1—6h.	6·1—9h.	Above 9h.	Maximum Duration. Hours.	Date.	Total for past 12 months. Hours.	Difference from average. Hours.	Total for Month. Hours.	Difference from average. Hours.	Highest and Lowest Totals on record for Month. First year of record.	Highest. Hrs.	Year.	Lowest. Hrs.	Year.	Rainfall. ‡Number of days with amount. 0, trace or 0·1 mm.	0·2—1 mm.	1·1—5 mm.	5·1—15 mm.	15·1—25 mm.	Above 25 mm.	Maximum fall in 24 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).	13	9	6	2	0	6·4	6	1415	-54	53	0	1880	81	1883	26	1888, 1932	20	5	2	2	0	1	29	5	556	-50	50	-6	1856	172	1940	10	1858	0	0
	Croydon ...	14	10	3	3	0	7·9	8	1534	+9	47	-5	1922	83	1923	28	1932	21	3	4	0	2	0	22	5	670	-9	51	-18	1921	197	1940	24	1932	0	0
	Thorney Island **	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	23	2	3	1	1	0	16	5	609	-84	41	-35	1881	200	1940	10	1901	1	0
	Lympne ...	5	13	7	5	0	8·1	10	1728	-37	81	+12	1921	108	1925	35	1934	16	5	5	2	1	1	29	1	623	-101	71	-10	1920	172	1940	26	1932	1	0
2	Shoeburyness ...	5	13	10	2	0	7·4	8	1596	-120	72	+6	1919	104	1920	43	1934, 1936	16	8	3	2	1	0	19	5	528	+25	52	-2	1920	138	1940	17	1920	0	0
	Gorleston ...	7	18	3	2	0	7·5	8	*	*	48	-18	1908	106	1920	37	1912	12	7	6	3	1	1	26	1	592	-30	92	+31	1871	208	1878	20	1920	0	0
	Cranwell ...	11	13	6	0	0	5·7	6, 8	1528	-10	45	-21	1921	97	1925	38	1932	18	6	3	2	0	1	29	1	545	-45	61	+14	1917	124	1935	22	1920	0	0
3	Birmingham ... (Edgbaston)	11	15	2	2	0	7·4	8	1310	+6	44	-2	1887	93	1913	13	1912	20	3	4	2	1	0	17	5	641	-33	39	-22	1893	181	1929	17	1920	0	0
4	Ross-on-Wye ...	12	8	7	3	0	7·0	8, 22	1447	-38	63	0	1915	108	1923	26	1934	21	5	2	2	0	0	11	5	552	-165	26	-38	1859	227	1929	14	1933	0	0
5	Falmouth ... (Observatory)	6	11	5	8	0	8·0	3	1640	-70	95	+19	1881	145	1923	38	1917	17	6	5	2	0	0	10	6	911	-196	32	-90	1871	340	1929	21	1901	0	0
7	Holyhead (Valley)	*	*	*	*	*	*	*	*	*	*	*	1914	124	1925	36	1922	20	5	3	2	0	0	14	10	792	-95	32	-73	1871	204	1877	38	1922	0	0
8	Chester ... (Sealand)	16	10	2	2	0	7·0	13	1398	+22	37	-16	1923	89	1938	33	1941	20	4	6	0	0	0	3	11	548	-90	16	-43	1922	130	1940	27	1922	0	0
10	Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	1935	*		*	*	21	4	4	1	0	0	7	5	477	-144	22	-32	1915	112	1933	19	1922	0	1
11	Leuchers ...	6	8	13	3	0	7·8	1	1579	+109	89	+19	1922	101	1925	42	1940	24	3	3	0	0	0	4	6	552	-101	11	-47	1922	129	1931	13	1937	0	0
12	Renfrew ...	10	12	8	0	0	6·0	12	1171	-22	51	+7	1921	60	1927	23	1941	21	5	3	1	0	0	9	6	947	+8	17	-82	1921	205	1938	14	1937	0	0
	Eskdalemuir ...	6	12	12	0	0	5·7	12	1265	+64	73	+18	1910	89	1925	28	1938	19	4	4	2	1	0	15	6	1362	-67	38	-109	1910	297	1938	30	1937	0	0
13B	Stornoway ...	14	10	5	1	0	8·0	3	1114	-101	43	-3	1881	67	1911	19	1881	11	8	7	3	1	0	16	9	1051	-150	66	-74	1870	250	1898	45	1933	0	2
15	Aberdeen ...	9	12	7	2	0	7·1	2, 4	1305	-24	61	+2	1881	83	1904	19	1941	20	3	6	1	0	0	6	10	653	-95	21	-54	1871	184	1940	31	1904	0	3
18	Aldergrove ...	3	10	7	4	0	7·3	3	1291	-35	68	+10	1927	77	1930	35	1939	18	7	5	0	0	0	4	6	906	+68	13	-69	1926	135	1931	18	1934, 1937	0	0
19	Birr Castle ...	9	14	7	0	0	4·8	3	*	*	45	-16	1881	95	1881, 1909	26	1917	21	5	3	1	0	0	6	6	896	+69	45	-34	1862	188	1939	21	1922	0	0
20	Valentia ... (Cahirciveen)	6	8	8	8	0	8·2	3	*	*	105	+42	1880	118	1909	33	1917	19	6	2	3	0	0	10	9	*	*	32	-107	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) ...	1	1	6	9	8	5	0	0	0	0
Ross-on-Wye ...	2	0	5	11	11	1	0	0	0	0
Falmouth (Obsy.)	0	2	10	13	5	0	0	0	0	0
Renfrew ...	0	3	3	13	10	0	1	0	0	0
Eskdalemuir ...	0	0	3	7	18	2	0	0	0	0
Aberdeen ...	0	0	1	9	15	5	0	0	0	0
Valentia ...	0	2	7	7	11	3	0	0	0	0

STATE OF GROUND AT 18 h.

No. of Days each Type was recorded

Stations.	0	1	2	3	4	5	6	7	8	9
London (Kew) ...	0	30	0	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 ...	9	20	0	1	0	0	0	0	0	0
Aberdeen ...	0	27	0	0	3	0	0	0	0	0
Valentia ...	1	28	1	0	0	0	0	0	0	0

CODE for State of Ground.

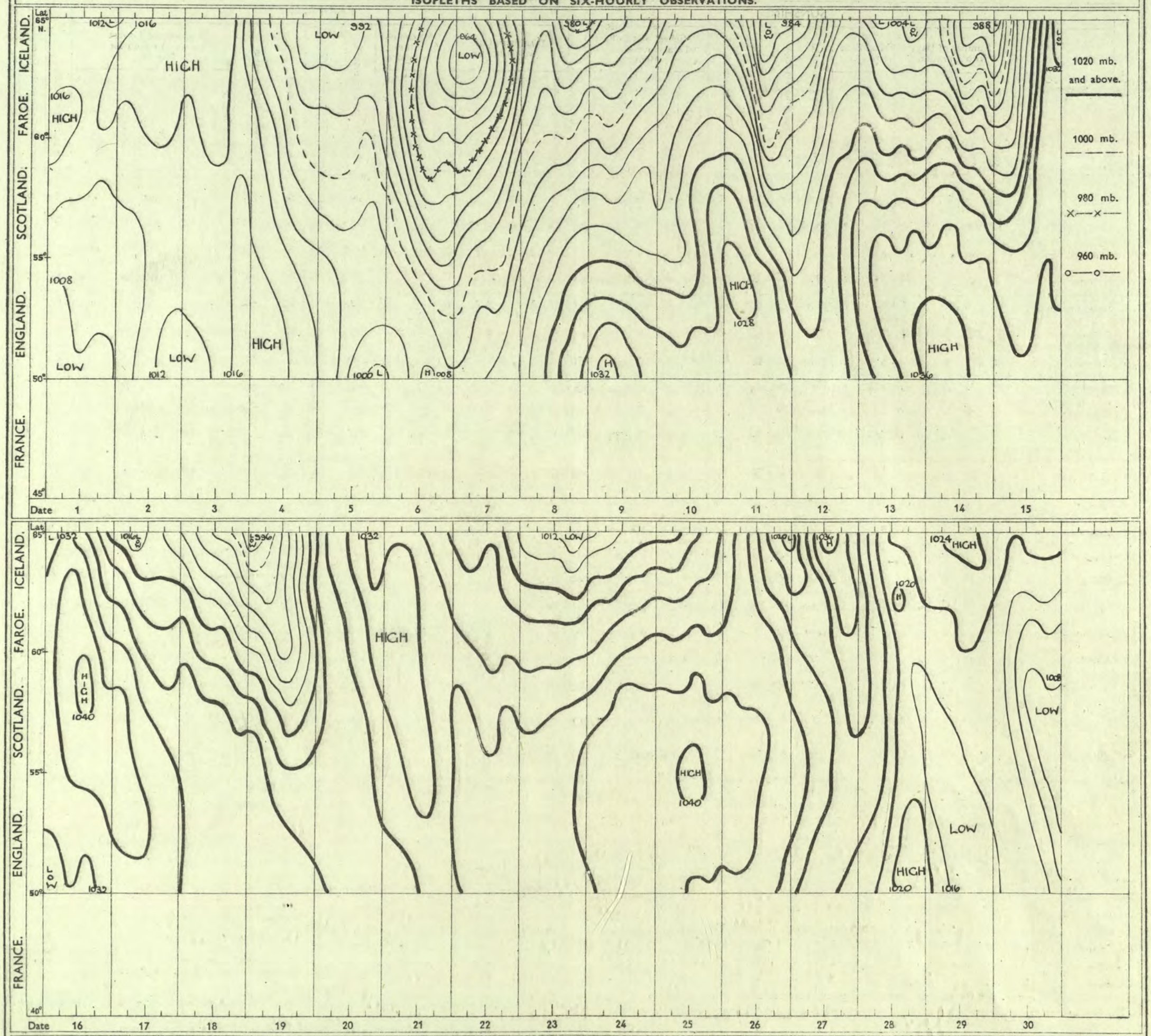
0 Dry.
1 Wet.
2 Flooded.
3 Frozen hard and dry
4 Partly covered with snow or hail.
5 Covered with ice or glazed frost
6 Covered with thawing snow.
7 Covered with snow, less than 6 in., but ground not frozen
8 Covered with snow, less than 6 in., and ground frozen
9 Covered with snow, greater than 6 ins. 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 1942.

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.

Pz. 392/4373. Wt. 8142. D.2558. 6p. 948/6.375. 12/42.

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

SEORET

Page 1 **BRITISH SECTION**

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

Sunday 1st November 1942

No. 29564

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)	Amount Low 0–10 (13)	Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	03·8	+2	NE'N	2	Zo	49	65	39	6	5	3	-	9	9+	2500
	Croydon	03·7	+2	N	1	m	49	75	42	4	2	-	-	9+	9+	1600
	S. Farnborough	03·6	-2	N	2	c	50	65	39	8	7	7	-	9	9	2000
	Boscombe Down	04·3	+2	NNE	3	c	48	75	41	7	5	3	-	2-3	9+	3000
	Thorney Island	03·6	+4	NE'N	2	c	51	75	42	7	5	-	-	4-6	9+	2500
	Lympne	02·2	+4	NNW	2	c	50	75	43	7	5	3	-	9+	9+	2500
	Manston	03·1	+14	NW	3	c	49	75	43	8	5	-	-	9+	9+	1100
2	Shoeburyness	04·0	+4	N'W	2	c	49	85	44	8	6	2	-	7-8	10	3000
	Felixstowe	02·4	+8	WNW	3	c	49	85	44	7	5	2	-	7-8	9+	2500
	Gorleston	01·6	+10	N'W	3	c	49	85	44	7	8	-	-	9+	9+	900
	Mildenhall	03·2	+10	NW	3	c	48	85	44	7	5	-	-	4-6	9+	1000
	Cranwell	03·9	0	NW'N	4	c	48	75	41	7	8	-	-	4-6	9	2500
3	Birmingham	04·9	+2	NNE	2	Zo	46	75	39	6	5	7	-	7-8	9+	1500
	Upper Heyford	03·6	-2	N'E	3	Zo	48	75	41	5	8	-	-	7-8	7-8	2500
4	Ross-on-Wye	04·8	-4	NNE	2	c	48	65	39	7	7	-	-	9+	9+	3500
5	Hartland Point	03·2	-4	ENE	3	c	48	85	44	7	5	-	-	9+	9+	2000
	Bristol	05·0	-2	NNE	3	Zo	48	75	41	6	1	3	-	1	9	2500
	Portland Bill	03·4	+6	ENE	4	o	50	85	46	8	5	-	-	10	10	4000
	Plymouth	03·1	-2	ENE	3	Zo	50	85	45	7	5	7	-	9	9+	3000
	The Lizard	02·1	+2	NE	4	c/r	51	92	49	7	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	02·6	+6	NE'N	2	c	52	85	47	7	6	-	-	9+	9+	1200
	Guernsey															
6	Pembroke	04·7	-4	ENE	4	c	46	85	43	7	5	2	-	7-8	9+	2100
7	Holyhead (Valley)	00·3	-2	ENE	3	c	47	75	38	8	8	3	-	9	9+	2500
	Chester (Sealand)	05·7	-2	N	2	c	47	65	38	6	5	-	-	9+	9+	4000
8	Manchester	05·3	-6	NW	3	Zo	46	75	39	5	2	3	-	4-6	7-8	2500
10	Spurn Head	02·9	+4	N'W	4	c-bc	49	75	41	7	6	6	-	4-6	7-8	1900
	Catterick	05·1	-6	NNW	3	c-bc	46	75	39	7	8	3	-	4-6	7-8	2200
	Tynemouth	05·4	-2	N	6	c-bc/pr	47	75	44	7	2	3	-	4-6	7-8	2400
11	St. Abbs Head	05·7	-4	N	5	cbcq	44	85	39	7	5	-	-	7-8	7-8	2500
	Leuchars	06·9	-6	N	3	bc	47	75	39	8	1	6	-	4-6	4-6	2500
12	Renfrew (Abbots I.)	08·0	-10	N'W	2	bc	47	65	35	8	1	3	-	2-3	4-6	3000
	Eskdalemuir	06·4	-4	NNE	3	b-bc	43	65	29	8	7	-	-	2-3	2-3	3500
	Point of Ayre	07·0	-4	NE'E	4	b	40	75	29	8	1	-	-	1	1	2500
13A	Tiree	09·4	-10	NE'N	4	b-bc	45	65	34	9	1	6	-	2-3	2-3	3500
13B	Stornoway	10·6	-8	NE	4	bc	45	85	40	8	2	6	-	4-6	4-6	2500
15	Dalwhinnie	09·2	-2	NNE	3	c	39	75	31	8	8	6	-	4-6	10	2500
	Aberdeen	06·7	-6	NNW	3	pr	44	75	38	8	8	-	-	9	9	2500
	Wick	09·3	-10	N	4	bc	44	85	39	9	8	-	-	4-6	4-6	2000
16	Sumburgh	08·2	-6	NNE	4	bc/pr	42	85	37	8	3	6	3	4-6	4-6	2500
17	Blacksod Point	09·5	-10	N	2	c-bc	48	75	41	8	8	-	-	7-8	7-8	2500
18	Malin Head	08·6	-6	NE	3	bc	46	65	35	8	2	-	-	4-6	4-6	2500
	Aldergrove	08·5	-8	NNW	1	b-bc	45	65	33	9	2		-	2-3	2-3	2500
19	Birr Castle	08·2	-2	N	2	c-bc	46	65	35	8	5	-	-	7-8	7-8	2500
20	Valentia Obsy.	07·9	-6	NE'N	4	b	47	55	32	9	1	-	-	Tr	Tr	2500
	Roches Point	06·3	-10	N	3	b-bc	49	65	38	8	4	3	-	Tr	2-3	4000

OBSERVATIONS at 18h. G.M.T. 31st October

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)	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)	05·1	+12	NNE	1	Zo	46	85	42	5	5	3	-	4-6	4-6	4000	1	*
Croydon	05·8	+12	N	1	bcf+	44	92	42	3	5	-	-	4-6	4-6	2500	1	*
S. Farnborough	05·2	+8	NNE	1	m	44	85	41	4	5	4	-	1	2-3	2000	1	*
Boscombe Down	05·3	+10	NE'E	2	Zo	45	85	41	6	-	3	-	0	9+	-	0	*
Thorney Island	04·5	+10	NE	2	Zo	47	85	43	6	5	3	-	4-6	7-8	4000	1	*
Lympne	04·5	+2	-	0	b	43	97	42	7	-	-	-	0	0	-	1	§
Manston	03·5	+2	NNW	1	c	48	85	43	7	5	7	-	7-8	9+	1200	1	*
Shoeburyness	15·8	+10	NNW	2	c	47	85	44	7	5	-	-	9	9	3500	1	*
Felixstowe	04·4	+14	WNW	2	Zo	48	85	44	6	5	-	-	10	10	4000	1	1
Gorleston	03·5	+6	N'W	2	Zo	48	85	44	6	8	7	-	4-6	9	800	1	3
Mildenhall	03·6	+18	NW'N	2	Zo	44	92	41	6	5	-	-	9+	9+	3000	1	*
Cranwell	05·5	+10	NW	3	Zo	45	85	41	5	5	3	-	2-3	9	4000	1	*
Birmingham	06·2	+8	NNE	2	m	45	85	41	4	5	-	-	9+	9+	1500	1	*
Upper Heyford	04·9	+10	N'E	1	Zo	43	85	39	5	5	3	-	2-3	2-3	4000	1	*
Ross-on-Wye	05·5	+6	NNE	1	m	44	85	39	4	5	-	-	9+	9+	3000	1	*
Hartland Point	03·7	+8	E	3	c	47	85	43	7	-	7	-	0	9+	-	1	3
Bristol	05·1	0	-	0	cf+	44	85	41	3	5	-	-	9	9	7200	1	*
Portland Bill	04·0	+6	ENE	4	o	49	85	44	7	5	-	-	10	10	2500	1	4
Plymouth	03·3	+2	ENE	3	Zo	47	85	43	6	5	3	-	2-3	4-6	5000	0	2
The Lizard	02·4	+4	NE	4	c/r	49	92	47	7	8	2	-	9	10	1000	1	4
Scilly (St. Mary's)	02·7	+6	NE	2	c	50	85	47	7	8	7	-	4-6	9+	1200	1	3
Guernsey																	
Pembroke	05·1	+4	NE	4	c	46	85	40	7	8	-	-	9	9	2500	0	2
Holyhead (Valley)	06·7	+6	-	0	c-bc	42	85	38	8	8	3	-	2-3	7-8	5000	1	2
Chester (Sealand)	06·4	+8	NW	2	Zo	44	85	39	6	5	-	-	9+	9+	4000	0	*
Manchester	06·6	+10	NW'N	3	m	43	85	38	4	4	3	-	2-3	9+	4000	0	*
Spurn Head	04·4	+6	NNW	3	bc	46	75	40	7	7	-	-	4-6	4-6	2500	0	3
Catterick	06·3	+4	NNW	3	c-bc	43	75	37	7	5	3	-	4-6	7-8	2500	1	*
Tynemouth	05·4	+6	N	5	c-bc	48	92	45	6	2	3	-	4-6	7-8	2500	1	4
St. Abbs Head	05·5	+2	N	4	c	45	75	38	7	5	-	-	9+	9+	2500	0	4
Leuchars	06·7	+6	N'W	2	c	43	85	40	8	5	3	-	7-8	9	2500	1	*
Renfrew (Abbots I.)	07·9	+4	-	0	c-bc	40	85	34	8	5	-	-	7-8	7-8	3500	1	*
Eskdalemuir	07·3	+6	N	2	bc	36	85	30	8	5	-	-	4-6	4-6	2200	1	*
Point of Ayre	07·1	+4	ENE	3	c-bc	46	65	36	8	8	-	-	7-8	7-8	3000	0	3
Tiree	09·4	+2	NE'N	2	bc	43	65	33	9	2	6	-	4-6	4-6	3000	0	3
Stornoway	11·1	+10	NNW	3	c-bc	37	97	36	8	2	6	-	4-6	7-8	2500	1	2
Dalwhinnie	09·2	+2	NNE	2	pr	36	92	35	8	5	-	-	9+	9+	2500	1	*
Aberdeen	06·4	+2	NW'N	2	b-bc	40	85	38	7	4	-	-	2-3	2-3	2500	1	2
Wick	09·0	0	NNE	3	c-bc	43	75	36	9	8	-	-	7-8	7-8	2000	0	*
Sumburgh	07·5	0	NNE	4	bc	40	85	36	8	8	-	-	4-6	4-6	2500	1	4
Blacksod Point	09·3	+2	NNE	1	bc	42	85	38	8	8	-	-	4-6	4-6	4000	1	2
Malin Head	08·3	+2	NE	3	bc	45	65	34	8	2	-	-	4-6	4-6	2500	1	3
Aldergrove	08·3	+6	-	0	b-bc	35	85	32	9	8	-	5	2-3	2-3	3000	1	*
Birr Castle	07·6	+2	N	2	c	43	75	36	8	5	1	-	9	10	2500	1	*
Valentia Obsy.	08·0	+6	N'E	2	b-bc	40	75	33	9	7	-	-	2-3	2-3	4000	1	2
Roches Point	06·5	+6	N'E	2	c	46	85	42	8	5	-	-	9	9	1500	1	3

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 31st (39)	13h.—18h. 31st (40)	18h. 31st to 1h. 1st (41)	1h.–7h. 1st (42)
London (Kew)	cmoczo	cbcmow	bcbmow	b, cmow
Croydon	cmocm	czbcf	bcfbfwcfw	bfwcm
S. Farnborough	cmoc	cbzocbm	bmmocmw	cmwmo
Boscombe Down	bcc	cbcc	cmorop	crrmo
Thorney Island	cbcc	cbc	cwmo	cwmoiro
Lympne	bcbb	cb	bbmwb	bmocmow
Manston	c	c	cmobc	bbcmo
Shoeburyness	c	c	cw	cmow
Felixstowe	c	ccidoc	cmo bcmo	cmo bcmow
Gorleston	cidoc	cido	cidozo	bcczo
Mildenhall	cmo	cmo	cbcbmobf	bbcc f
Cranwell	ccproc	ccmo	cmo	ccrorom o
Birmingham	bcczo	cz		
Upper Heyford	bcmocmo	czobcmo	bcbccmo	crrmo o
Ross-on-Wye	czbcc	ccz	cmomro	cmomrott
Hartland Point	c	circ	oiroc	cit
Bristol	cmcmo	cmocm	cfiroitf	citt fmo
Portland Bill	c	co	pprf	oit
Plymouth	cmo	cbc	crorirom	cRRrr
The Lizard	croc	prroc	orrcl	crrc
Scilly (St. Mary's)	c	c	clc	cbcc
Guernsey				
Pembroke	c	c	c	bcmo
Holyhead (Valley)	c	cjpbc	bcbw x	zbcc
Chester (Sealand)	czo	czomo	cmo	cmo
Manchester	cmzo	czom	cmmo	cirom
Spurn Head	cpro	cbc	bcmoc	cmo
Catterick	probcc	c	bcmocmo	cmo c
Tynemouth	cp	cprc	cpobcc	rp
St. Abbs Head	cq	c	cprc	croe
Leuchars	bbc	bcc	bc	bcbwbx
Renfrew (Abbots I.)	cbc	bc	bcmo	bcmo
Eskdalemuir	b	bbc		probc
Point of Ayre	b	bbcc	bcb	bbcb
Tiree	bcv	bcjpr	bcb	bbc
Stornoway	cphr	bcc	bc	bc
Dalwhinnie	bcposc	cpro		cbcpro c
Aberdeen	cpro	crobcb	bccirobc	bc
Wick	bccjpc	bc	bc	bccbc
Sumburgh	bcprhprobc	bcprobc	bcprocpro	bcpro v
Blacksod Point	bc	bc	b	bc
Malin Head	bc	bc	+	+
Aldergrove	bxbcb	bbchrobc	bcc	cbcb
Birr Castle	c	c		bc
Valentia Obsy.	b	b	b	bc
Roches Point	b	c	c	bc

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

Districts	Forecast
1 S.E. England; 2 E. England	Light or moderate east wind. Cloudy; thundery rain: rather cold during day, moderate night temperature.
3 E. Midlands; 4 W. Midlands	Light or moderate northeast wind. Cloudy; rain at times; cold during day, moderate night temperature.
5 S.W. England; 6 South Wales; 7 North Wales	Light northeast wind: cloudy; rain at times to-day, snow locally on high ground. Cold during day; fog and slight frost locally to-night.
8 N.W. England; 9 N. Midlands; 10 N.E. England	Moderate or light northeast to east wind; bright intervals but occasional rain; rather cold during day, moderate night temperature.
11 S.E. Scotland	As 12-14
12 S.W. Scotland & Isle of Man	Light north wind; cloudy; occasional showers: cold during day; fog and slight frost locally at night,
13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland	Light north to northeast wind; bright periods, cold during day, slight frost at night.
15 N.E. Scotland; 16 Orkneys and Shetlands	Light north wind; cloudy; occasional showers, rather cold during day, moderate night temperature.
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	As 12-14

GENERAL INFERENCE

Pressure is low to east and southeast of the British Isles and relatively high to the northwest. A depression west of Biscay will move east. The rather cold weather will continue. There will be bright periods in the Northwest, but in the South and East it will be cloudy with rain at times, and snow locally on high ground in the Midlands.

FURTHER OUTLOOK

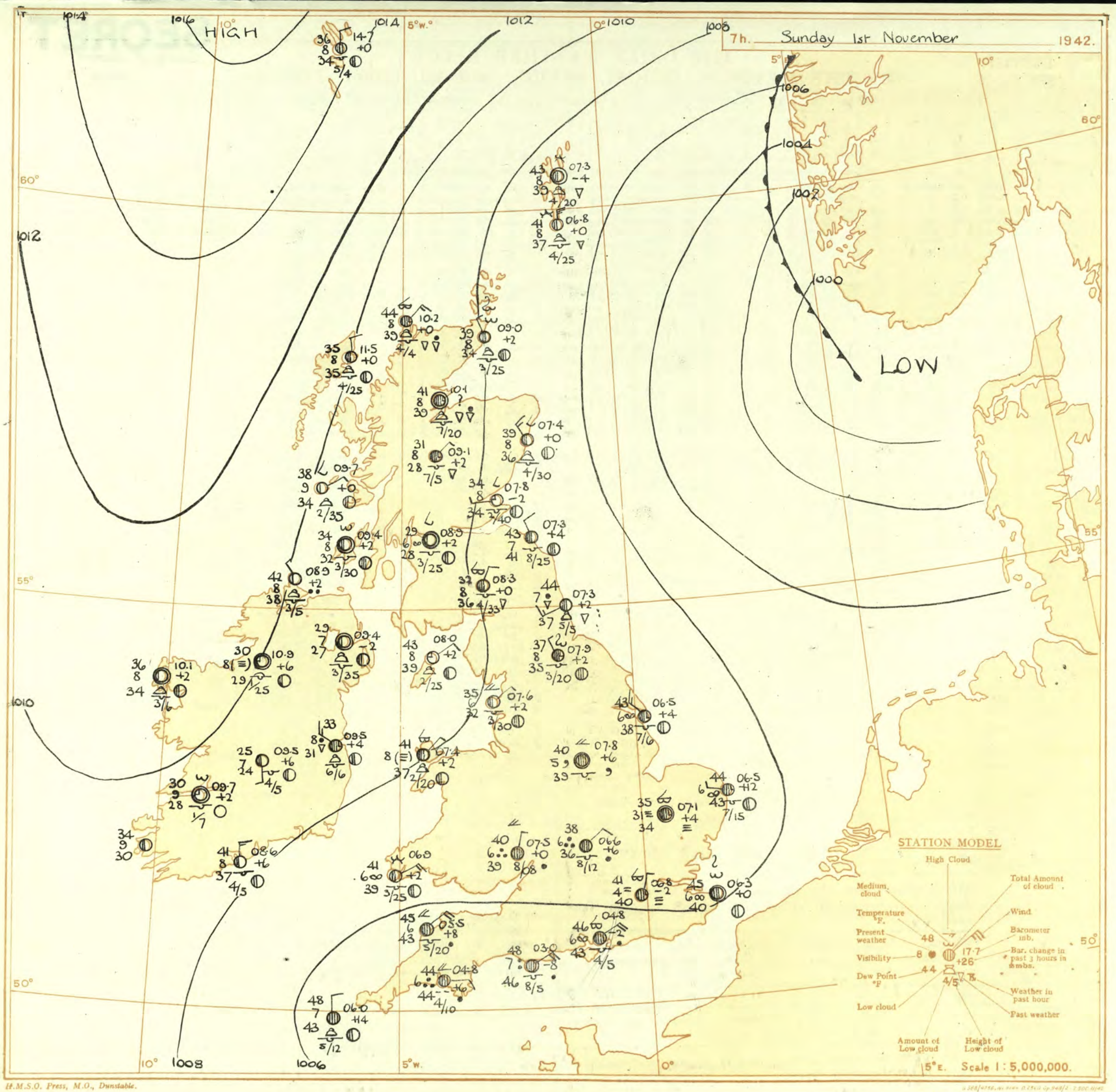
Continuing cold; rain at times in the South and East; bright periods in the Northwest.

Forecasts issued at 1030

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

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

7h. Sunday 1st November 1942.



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).

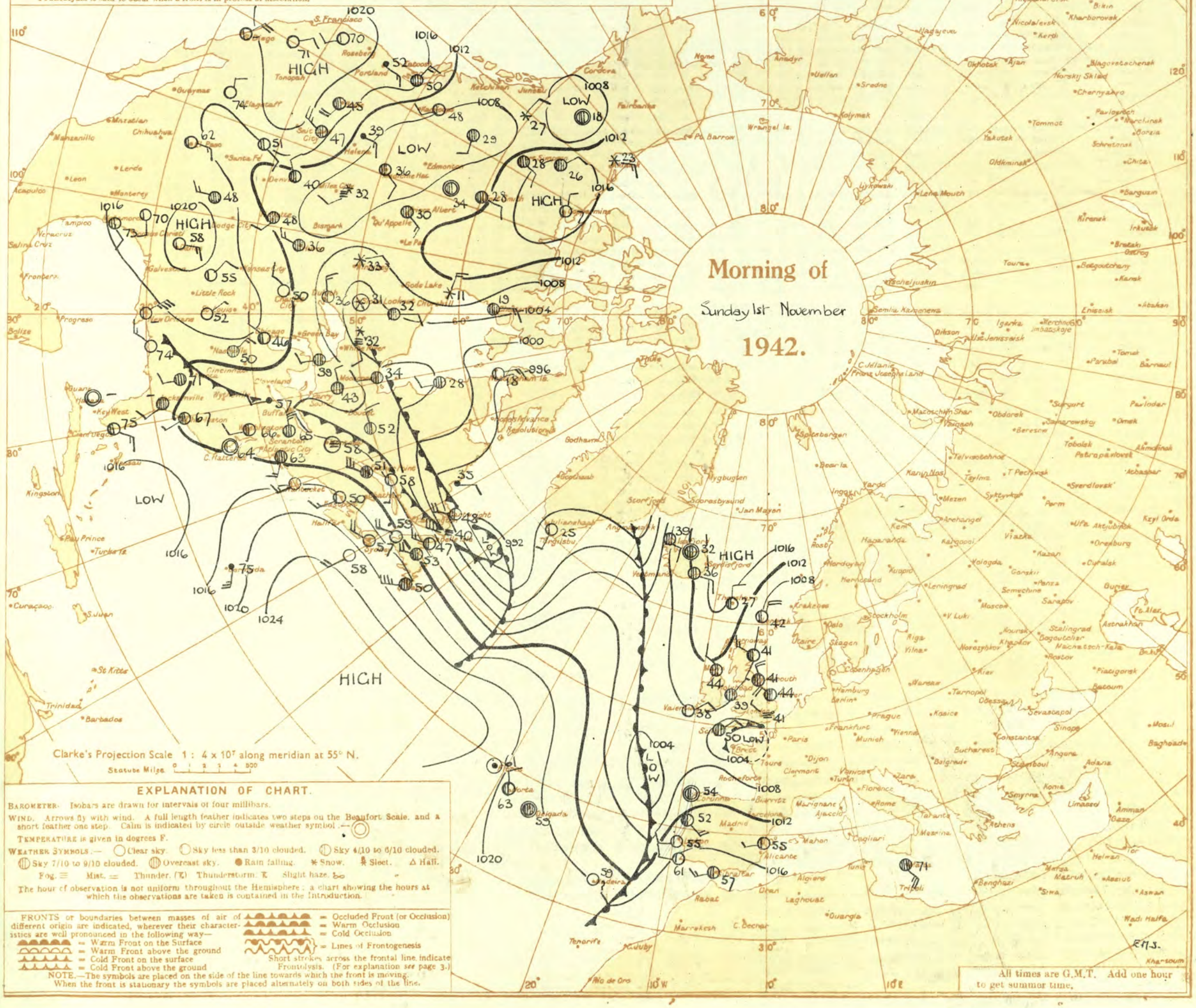
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.

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

BRITISH SECTION

Sunday 1st November 1942

No. 29564

OBSERVATIONS at 1 hr. G.M.T. 1st 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	06·5	+2	NW	1	bf	41	97	41	3	-	3	-	0	Tr	-
	S. Farnborough	226	05·8	0	NNE	2	m	42	92	40	4	5	7	-	2-3	7-8	2000
	Boscombe Down	417	05·9	0	NE	3	r_0r_0	42	97	39	6	5	-	-	10	10	1000
	Thorney Island	10	05·1	0	ENE	3	z_0	45	85	42	6	-	7	-	0	7-8	-
	Lympne	283	05·6	0	NW	1	z_0	41	97	40	6	5	-	-	Tr	Tr	7000
	Manston	154	05·5	+2	N	1	b	45	85	41	7	5	-	-	1	1	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	05·5	+4	NW'N	2	z_0	45	92	42	6	5	7	-	Tr	4-6	3500
	Gorleston	5	05·3	+6	NNW	1	c	45	85	42	6	5	-	-	9+	9+	1500
	Mildenhall	15	06·3	+6	WNW	2	bf+	36	97	35	3	-	4	-	0	Tr	-
	Cranwell	203	07·1	+6	NW'N	2	z_0	41	85	38	6	5	-	-	9+	9+	3000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	05·6	+2	N	2	z_0	40	97	39	6	5	3	-	2-3	9	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	04·5	+2	NE	4	ir_0	47	85	43	7	5	2	-	7-8	10	2500
	Bristol	209	06·6	+2	-	0	+f	41	92	40	3	5	-	-	10	10	3100
	Portland Bill	32	04·5	+6	ENE	5	r+	48	85	44	7	5	-	-	10	10	2500
	Plymouth	82	03·8	-2	ENE	3	ir_0	47	92	44	6	5	2	-	7-8	10	1500
	The Lizard	240	03·4	+2	NNE	3	c	47	97	47	8	8	2	-	7-8	10	1500
	Scilly (St. Mary's)	163	03·6	0	NE	2	c	50	85	46	7	5	2	-	7-8	10	1500
	Guernsey	175															
6	Pembroke	142	06·4	+4	ENE	4	c-bc	44	92	42	7	5	2	-	4-6	7-8	2500
7	Holyhead (Valley)	32	07·3	+6	NNE	1	c-bc	39	92	36	8	5	3	-	4-6	7-8	2700
	Chester (Sealand)	16	07·5	+2	NW'W	2	z_0	39	92	36	6	5	-	-	9	9	4500
8	Manchester	235	07·6	+6	NNW	2	z_0	39	92	36	6	-	3	-	0	9+	-
10	Spurn Head	29	06·2	+16	NW	4	c	44	85	39	7	7	-	-	9+	9+	4000
	Catterick	175	07·5	+6	W	2	z_0	41	85	37	6	5	3	-	7-8	9	3200
	Tynemouth	108	07·1	+6	NNW	4	z_0	41	85	36	6	2	-	-	9	9	2500
11	St. Abbs Head	280	06·3	+2	N	2	c	44	92	42	7	5	-	-	10	10	2500
	Leuchars	36	07·2	-2	NW	1	b-bc	38	97	37	8	5	3	-	Tr	2-3	3500
12	Renfrew (Abbots I.)	19	08·6	+4	W'S	1	z_0	33	92	31	6	5	7	-	2-3	4-6	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	07·7	+2	NNE	8	b-bc	45	75	36	8	2	-	-	2-3	2-3	3000
13A	Tiree	44	09·7	-2	NE	2	b	39	85	34	9	1	-	-	1	1	3500
13B	Stornoway	15	11·3	-2	N	2	bc	39	97	39	8	5	-	-	4-6	4-6	2600
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	06·8	-2	WNW	3	c-bc/pr	41	92	40	8	4	7	-	2-3	7-8	2500
	Wick	114	08·8	+2	NNE	2	b-bc	41	85	38	8	2	-	-	2-3	2-3	2500
16	Sumburgh	19	07·0	-6	N	5	pr	41	85	37	7	2	6	-	7-8	9	2000
17	Blacksod Point	18	09·7	-2	-	0	b-bc	38	97	37	8	5	-	-	2-3	2-3	4000
18	Malin Head	84	08·4	-2	NW	2	c-bc	44	75	37	8	2	2	-	2-3	7-8	2500
	Aldergrove	268	09·5	+4	-	0	c-bc	33	92	30	8	5	-	-	7-8	7-8	3000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	08·9	0	NE'E	2	b	38	75	31	9	5	-	-	1	1	4000
	Roches Point	22	07·9	+4	N	3	c-bc	43	85	39	8	5	-	-	7-8	7-8	1500

OBSERVATIONS at 7 hr. 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. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	06·5	0	NE	2	z_0	42	85	38	6	-	7	-	0	10	-	1	*
Croydon	06·0	-2	NNE	1	m	41	97	40	4	-	7	-	0	9+	-	1	*
S. Farnborough	05·9	-2	NE'E	2	z_0	42	85	39	6	5	-	-	10	10	5000	1	*
Boscombe Down	07·0	0	NE	3	++	41	97	40	6	5	-	-	10	10	1500	1	*
Thorney Island	04·8	-2	NE'E	4	z_0	46	85	43	6	5	7	-	4-6	10	2500	1	*
Lympne	06·1	0	NNE	2	c	44	92	41	8	5	-	-	9+	9+	4500	1	§ 1
Manston	06·3	0	-	0	z_0	45	85	40	6	-	3	4	0	7-8	-	1	*
Shoeburyness	06·3	0	N'E	1	bc	41	85	39	6	5	-	-	4-6	9	4000	1	*
Felixstowe	06·5	+2	NNW	2	z_0	40	97	39	6	5	7	1	2-3	4-6	4000	1	2
Gorleston	06·5	+12	W'N	1	z_0	44	92	43	6	5	-	-	9+	9+	1500	1	2
Mildenhall	07·1	+4	-	0	cf+	35	97	34	3	-	7	-	0	9+	-	1	*
Cranwell	07·4	+4	NW'W	1	$+_0+_0$	40	92	37	6	5	-	-	7-8	10	2500	1	*
Birmingham	07·7	+4	NE	1	r_0r_0	40	97	39	4	6	-	-	10	10	800	7	*
Upper Heyford	06·6	+6	NE'N	2	++	38	97	36	6	5	-	-	10	10	1200	1	*
Ross-on-Wye	07·5	0	N'E	1	++	40	92	39	6	-	2	-	10	10	800	1	*
Hartland Point	05·3	+8	NE	4	c	45	92	43	6	5	2	-	7-8	10	2000	·1	4
Bristol	07·3	+4	NE	2	z_0	40	92	38	6	5	7	-	2-3	10	1500	1	*
Portland Bill	03·0	-8	ENE	4	i+	48	92	46	7	5	-	-	10	10	2500	1	4
Plymouth	04·8	+6	E	2	++	44	97	44	6	6	2	-	4-6	10	1000	1	2
The Lizard	05·0	+12	N	3	c-bc	44	92	42	6	8	6	-	7-8	7-8	1500	1	3
Scilly (St. Mary's)	06·0	+14	N	2	c-bc	48	85	43	7	8	-	-	7-8	7-8	1200	1	2
Guernsey																	
Pembroke	06·9	+2	ENE	3	z_0	41	92	39	6	5	6	-	2-3	4-6	2500	1	2
Holyhead (Valley)	07·4	+2	NNE	1	c-bcjf	41	85	37	8	2	7	-	1	7-8	2000	0	2
Chester (Sealand)	07·8	0	SE'S	1	c	35	92	33	5	5	7	8	1	10	5700	0	*
Manchester	08·1	+2	E	1	c-bcf+	36	97	35	3	-	7	-	0	7-8	-	0	*
Spurn Head	06·5	+4	NW'W	3	z_0	43	85	38	6	5	-	-	9+	9+	4000	0	3
Catterick	07·9	+2	NNW	1	c	37	92	35	8	5	-	9	2-3	9+	2000	1	*
Tynemouth	07·3	+2	WSW	3	pr	44	85	37	7	2	-	-	7-8	7-8	2500	1	3
St. Abbs Head	07·3	+4	NNW	2	c	43	92	41	7	5	-	-	10	10	2500	1	3
Leuchars	07·5	-2	W	1	b	34	97	34	8	5	4	-	1	1	4000	1	*
Renfrew (Abbots I.)	08·9	+2	-	0	z_0	29	97	28	6	5	4	-	2-3	2-3	2500	1	*
Eskdalemuir	08·3	0	N'E	2	c-bc	36	85	32	3	5	7	-	4-6	7-8	3300	1	*
Point of Ayre	08·0	+2	ENE	2	b	43	85	39	8	2	-	-	1	1	2500	0	3
Tiree	09·7	0	ENE	1	b-bc	38	85	34	9	2	4	-	1	2-3	3500	0	2
Stornoway	11·5	0	N	2	bc	35	97	35	8	5	-	-	4-6	4-6	2500	1	
Dalwhinnie	09·1	+2	NNE	1	c	31	85	28	8	5	-	-	9+	9+	2500	3	*
Aberdeen †	07·4	0	NW	3	bc	39	92	36	8	8	4	-	4-6	4-6	3000	1	2
Wick	09·0	+2	NNW	1	c-bc	39	85	34	8	8	3	9	2-3	7-8	2500	0	*
Sumburgh	06·8	0	N	5	bc	41	85	37	8	8	6	-	4-6	4-6	2500	1	4
Blacksod Point	10·1	+2	-	0	b-bc	36	92	34	8	8	-	-	2-3	2-3	4000	1	1
Malin Head	08·9	+2	NW'N	1	b-bc/d	42	85	38	8	8	-	-	2-3	2-3	2500	2	2
Aldergrove	09·4	-2	-	0	b-bc	29	97	27	7	8	-	-	2-3	2-3	3500	1	*
Birr Castle	09·5	+6	S	1	bc	25	97	24	7	5	-	-	4-6	4-6	2500	1	*
Valentia Obsy.	09·7	+6	-	0	bc	34	85	30	9	1	4	2	Tr	4-6	2500	1	1
Roches Point	08·6	+6	N	3	bc	41	85	37	8	5	-	-	4-6	4-6	2500	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)	Rainfall Night 18h–7h mm. (37)	Sunshine 31st Hrs. (38)
London (Kew)	49	40	27	-	Tr	1·9
Croydon	49	38	31	-	Tr	0·5
S. Farnborough	50	37	29	-	-	3·7
Boscombe Down	48	40	39	-	11	0·9
Thorney Island	52	44	40	-	Tr	*
Lympne	51	37	30	-	Tr	1·4
Manston	49	43	36	-	-	*
Shoeburyness	51	37	28	-	-	0·1
Felixstowe	52	40	35	0·1	-	1·1
Gorleston	51	42	39	0·6	0·3	-
Mildenhall	48	34	29	Tr	Tr	0·5
Cranwell	48	40	36	0·1	0·2	0·3
Birmingham	47	39	37	-	3	0·4
Upper Heyford	48	35	31	-	11	*
Ross-on-Wye	49	40	33	-	7	1·3
Hartland Point	48	44	43	Tr	-	-
Bristol	48	39	30	-	6	0·4
Portland Bill	52	45	*	-	4	*
Plymouth	50	44	42	-	20	0·7
The Lizard	51	43	*	2	5	0·1
Scilly (St. Mary's)	54	47	*	-	-	1·3
Guernsey						
Pembroke	47	38	*	-	Tr	0·0
Holyhead (Valley)	49	37	27	0·2	-	*
Chester (Sealand)	47	30	27	-	-	0·1
Manchester	47	36	28	-	Tr	*
Spurn Head	49	42	*	Tr	0·4	2·1
Catterick	47	37	29	0·1	-	4·9
Tynemouth	48	39	36	0·4	0·4	*
St. Abbs Head	45	42	*	-	0·2	*
Leuchars	49	34	26	-	-	7·3
Renfrew (Abbots I.)	48	28	23	-	-	4·7
Eskdalemuir	43	32	25	-	Tr	7·2
Point of Ayre	48	43	*	-	-	6·7
Tiree	47	36	*	-	-	
Stornoway	46	35	31	2	Tr	4·0
Dalwhinnie	40	28	20	Tr	Tr	1·4
Aberdeen †	46	39	36	1	0·1	3·9
Wick	46	34		Tr	0·2	*
Sumburgh	45	40	35	3	1	2·3
Blacksod Point	50	33	*	-	0·3	*
Malin Head	47	38		-	5	4·9
Aldergrove	46	27	27	0·1	-	8·5
Birr Castle	49	24	19	-	-	3·6
Valentia Obsy.	47	32	25	Tr	Tr	8·1
Roches Point	50	36	*	-	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 31st October $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 1st November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	30	10855	35685	36	25744	32585	30	25743	01483	30	01854	30384
115	87	10844	04486	87	10844	04426	77	02844	14426	87	25844	04386
203							80	00853	04483			
206	20	01953	32313	20	01861	30211	03	01890	00012	8-	25857	00087
210	3-	25646	38486				57	01753	01384	5-	02756	28316
220	83	01953	08385	80	25745	03485				80	88846	32286
230	10	01963	09442	14	01964	02104	53	01863	04113	73	02862	06125
245	26	25963	32183	86	01936	63223	53	02952	31315	87	05655	26215
260	5-	02765	28125	5-	05655	26127	8-	05666	00026	5-	05667	30127
278	13	01951	01311	83	01854	06314	53	01761	24102	73	05655	00067
279	70	01865	02415	53	02865	28226	5-	01774	00024	5-	02765	03125
285	27	81624	30585	23	02745	30417						
288	8-	25555	29485	53	08463	26384	53	05555	22218	57	05663	21226
578	10	01952	00002	40	01853	00003	00	00890	00000	40	09851	00001
301	03	05690	02326	53	47354	02126	53	05673	08123	52	01662	04124
321	57	05664	27326	53	25663	28225	53	05664	28225	07	05690	28127
299	84	02755	32515	5-	01754	32414	8-	02756	26316	57	01755	26317
292	2-	05646	29387	53	05665	28285	53	05664	27125	57	05655	28116
310	--	01636	26216							**	01755	26317
614	87	05566	30227	57	05565	32128	07	05590	02214	52	51572	00058

III	13h. G.M.T. 31st October $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 1st November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	53	02863	02267	53	02851	02227	57	05663	22127	53	01763	26215
334	--	02645	08117	--	02745	12216						
340	13	05462	01225	57	05557	32228	52	62464	16168	07	43390	30167
136	83	02744	30387	8-	81746	24386	5-	05667	28287	3-	05667	28127
336	13	02754	08327	53	05645	08328						
350	87	05665	29327	07	05690	02286	57	04227	06741	57	05673	08127
368	53	02664	07415	53	02665	04127	52	22534	04168	02	62438	02268
379	83	05654	02416	53	05663	02123	03	05590	02125	62	64523	02368
390	74	05647	30327	5-	05548	02128	07	43390	32147	57	43367	00048
382	86	05664	02225	06	17490	00024	57	08463	00048	02	64690	31168
438							44	05643	02314	5-	03738	02428
430	5-	02757	04327	53	02763	04215	07	05690	02325	57	05654	06428
409	5-	02748	02228	57	61656	04168	52	62657	06268	53	02765	03327

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 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_0cz_0	$cbcm_0w$	$bcbm_0w$
Croydon	cm_0cm	czbcf	bc,fwcm
Greenwich	$cbccm_0$	c	cbccm
Camden Square	c	c	*
*Kensington	bccbc	bc	*
Hampstead	bc	c	0

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·2 Time 17-20h 31st; Min. <0·1 Time 0-6h 1st

Stations	Temperature Day Max °F	Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	49	40	27	-	Tr	1·9	*	*
Croydon	49	38	31	-	Tr	0·5	*	*
Greenwich	49	38	28	-	-	1·3	77	88
Westminster	51	42	35	-	-		71	89
Regents Park								
Camden Square	50	40	33	-	-	*	*	91
Kensington	51	40	25	-	-		87	85
Hampstead	48	38	35	-	-		*	89

SECRET

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

Monday 2nd November 1942

No. 29565

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)	06·4	-2	N	2	rr	43	92	41	4	6	2	-	2-3	2-3	2500
	Croydon	06·8	-2	—	0	rf	46	92	43	2	5	-	-	10	10	1500
	S. Farnborough	06·0	-2	NNE	2	iro	42	92	40	4	5	-	-	10	10	800
	Boscombe Down	07·0	+2	NW	4	rr	37	97	37	6	6	2	-	9	10	600
	Thorney Island	05·1	-2	NNE	3	z0	47	92	45	5	5	3	-	4-6	9+	800
	Lympne	05·6	-8	ESE	3	c	52	75	45	8	7	2	-	7-8	10	6500
	Manston	05·8	-10	ESE	3	c	53	75	45	8	5	3	-	7-8	9+	4000
2	Shoeburyness	07·0	-10	E	4	c	52	75	44	8	8	-	-	9+	9+	3500
	Felixstowe	06·3	-6	NE'E	3	c	51	75	43	7	5	7	3	2-3	9+	4000
	Gorleston	07·2	+8	NE'N	1	c	51	75	42	7	5	-	-	9+	9+	2000
	Mildenhall	06·8	-6	N	3	z0	47	92	44	5	5	7	-	7-8	10	3000
	Cranwell	08·0	+6	NW	2	rr	41	97	39	4	6	2	-	2-3	10	1800
3	Birmingham	08·3	+2	NE	2	roro	39	92	37	4	6	-	-	10	10	450
	Upper Heyford	07·2	-4	N	2	rr	33	97	33	4	-	2	-	10	10	1500
4	Ross-on-Wye	08·7	0	NE	2	z0	41	86	39	6	6	2	-	9+	10	800
5	Hartland Point	07·9	+6	NE	2	c-bc	46	85	42	7	2	6	-	4-6	7-8	2000
	Bristol	08·8	+2	N'E	3	roro	39	92	37	5	6	2	-	4-6	10	800
	Portland Bill	06·5	+16	NE	4	c-bc	45	85	40	8	4	7	-	4-6	7-8	4000
	Plymouth	07·7	+14	N'W	3	c-bc	47	85	41	7	5	-	-	7-8	7-8	2000
	The Lizard	07·6	+8	NNW	2	bc	51	75	42	7	4	4	-	4-6	4-6	2000
	Scilly (St. Mary's)	08·4	+10	—	0	pr	50	85	43	7	8	9	-	7-8	10	1200
	Guernsey															
6	Pembroke	09·2	+6	NNE	3	c	46	75	39	7	8	-	-	9+	9+	2400
7	Holyhead (Valley)	08·9	+8	NE'N	2	b-bc	47	65	36	8	2	6	-	1	2-3	3500
	Chester (Sealand)	08·7	0	N	1	c	44	85	39	5	8	-	-	10	10	3500
8	Manchester	08·7	-2	—	0	rf	41	92	39	3	-	2	-	10	10	800
10	Spurn Head	07·6	-4	WNW	4	rr	45	92	43	6	8	-	-	10	10	1500
	Catterick	09·3	0	W	2	s/r	43	92	40	6	5	7	-	9	10	1000
	Tynemouth	09·4	+4	NNW	3	pr	44	85	41	6	8	-	-	9+	9+	1900
11	St. Abbs Head	09·1	+6	NNW	3	c	44	75	38	8	5	4	-	7-8	9+	3000
	Leuchars	09·3	+2	W	2	b	48	75	41	8	2	4	-	Tr	Tr	2500
12	Renfrew (Abbots I.)	10·0	+2	—	0	bc	47	75	38	7	5	3	-	1	4-6	3000
	Eskdalemuir	09·4	+2	NE'N	2	c	42	75	33	8	8	7	-	4-6	9	3600
	Point of Ayre	09·2	+2	NE	2	pr	45	75	39	8	8	-	-	7-8	7-8	2500
13A	Tiree	10·5	+2	NE	3	bc	47	65	36	9	1	4	-	4-6	4-6	3000
13B	Stornoway	11·7	-2	N	2	bc	46	92	44	9	2	6	-	2-3	4-6	3000
15	Dalwhinnie	10·5	+2	N	2	c	40	65	32	8	8	-	9	4-6	9	2500
	Aberdeen	09·1	+6	NW	4	c-bc	46	75	39	8	8	-	-	7-8	7-8	2500
	Wick	09·8	+4	NW	2	c-bc	46	75	39	9	8	-	9	4-6	7-8	2000
16	Sumburgh	07·4	0	N'W	3	c-bc	47	75	39	9	8	6	9	4-6	7-8	2500
17	Blacksod Point	11·4	+2	—	0	bc	50	75	43	8	1	5	5	2-3	4-6	4000
18	Malin Head	09·8	0	N	2	bc	47	65	36	8	2	-	-	4-6	4-6	2500
	Aldergrove	10·6	+4	NW	1	b	46	75	40	9	2	-	-	1	1	3000
19	Birr Castle	10·6	-2	N	1	c-bc	44	75	37	8	5	-	-	7-8	7-8	2500
20	Valentia Obsy.	11·0	+2	NE'N	3	c-bc	48	65	33	9	1	-	6	Tr	7-8	2500
	Roches Point	10·7	+2	N	3	b-bc	46	65	35	8	1	-	5	1	2-3	4000

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. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	06·6	+10	NNW	3	z0	40	92	38	5	5	-	-	10	10	2500	1	*
Croydon	06·7	+6	N	3	of	41	97	40	3	5	-	-	10	10	2000	1	*
S. Farnborough	07·4	+12	NW	3	roro	38	97	36	3	5	-	-	10	10	500	1	*
Boscombe Down	08·3	+8	NNW	3	z0	38	92	36	6	5	7	-	4-6	10	1500	1	*
Thorney Island	07·1	+16	NW'N	4	c	40	92	38	7	5	-	-	9+	9+	4800	1	
Lympne	05·0	+2	—	0	TLR	46	92	44	6	9	-	-	10	10	2000	1	3
Manston	04·9	-10	ESE	1	tlr	48	92	46	6	3	-	-	10	10	800	1	*
Shoeburyness	05·7	-8	ESE	4	c/r	51	92	49	5	5	2	-	9	10	1400	1	*
Felixstowe	05·3	-2	ESE	2	rr	49	97	48	6	5	-	-	10	10	2500	2	2
Gorleston	05·6	-8	ENE	3	o	51	75	42	7	5	-	-	10	10	1500	0	3
Mildenhall	06·2	-2	N'W	4	rr	42	97	41	4	-	2	-	10	10	300	1	*
Cranwell	08·1	+2	NW	2	rr	41	97	41	4	-	2	-	10	10	5700	1	*
Birmingham	08·5	+2	N	2	of	40	97	39	3	6	-	-	10	10	450	1	*
Upper Heyford	07·2	+2	N'W	3	m	34	97	34	4	5	7	-	7-8	9+	4000	1	*
Ross-on-Wye	08·9	+4	SW	2	m	39	97	38	4	5	-	-	2-3	2-3	3000	1	*
Hartland Point	09·3	+10	NE	2	c-bc	46	75	35	7	5	8	-	4-6	7-8	2500	1	2
Bristol	09·7	+6	WNW	1	m	38	97	37	4	5	-	-	1	1	4000	1	*
Portland Bill	08·4	+12	NW	3	bc	42	85	37	8	5	-	-	4-6	4-6	4000	1	4
Plymouth	10·2	+16	NE	1	z0	42	85	41	6	5	-	-	4-6	4-6	3500	1	2
The Lizard	09·4	+10	NE	2	c	46	85	42	7	8	6	-	7-8	9+	1500	1	3
Scilly (St. Mary's)	09·2	+6	SE'S	1	bc	46	85	42	7	8	4	4	4-6	4-6	1200	1	2
Guernsey																	
Pembroke	09·8	+4	NE	2	c-bc	43	75	34	8	8	2	-	4-6	7-8	2500	1	1
Holyhead (Valley)	09·2	+4	NE	1	b	38	85	35	7	2	6	-	1	1	2500	1	2
Chester (Sealand)	09·2	+6	WNW	2	bc	38	85	35	6	5	-	-	4-6	4-6	4000	1	*
Manchester	08·9	+4	W'N	2	rf	41	92	39	3	5	7	-	4-6	9	2500	1	*
Spurn Head	06·8	-4	WNW	4	rr	45	92	45	6	8	-	-	10	10	1500	1	3
Catterick	08·9	+2	NW	2	rr	42	97	42	5	6	2	-	10	10	1000	1	*
Tynemouth	09·1	+4	NNW	4	bc	44	85	39	6	8	4	-	4-6	4-6	1500	1	3
St. Abbs Head	09·6	+6	NNW	3	c-bc	45	75	38	7	5	-	-	7-8	7-8	4000	0	3
Leuchars	09·4	+2	—	0	b	40	97	39	8	4	4	-	Tr	Tr	2500	0	*
Renfrew (Abbots I.)	09·8	+4	W	1	m	37	85	35	4	5	4	-	Tr	2-3	4000	1	*
Eskdalemuir	09·8	+4	—	0	bc	36	55	32	8	5	7	-	2-3	4-6	3300	0	*
Point of Ayre	09·4	+4	NE'E	2	bc	44	75	37	8	2	-	-	4-6	4-6	2500	0	3
Tiree	10·8	+2	NE	2	bc	42	75	35	9	2	3	-	4-6	4-6	2000	0	2
Stornoway	11·4	0	N'E	2	b-bc	38	97	38	9	4	4	1	2-3	2-3	2500	1	
Dalwhinnie	10·0	0	NNE	2	bc	36	92	35	8	5	-	-	4-6	4-6	2500	1	*
Aberdeen	09·7	+10	NW	3	bc	42	85	38	7	5	-	-	4-6	4-6	3000	1	2
Wick	09·9	+2	NW	2	bc	39	85	34	9	8	-	-	4-6	4-6	2000	0	*
Sumburgh	08·0	+2	N'W	2	bc	42	92	39	9	8	4	2	2-3	4-6	2500	1	2
Blacksod Point	11·4	+4	—	0	b-bc	39	92	37	8	1	-	-	2-3	2-3	4000	1	1
Malin Head	10·0	+6	NE'E	1	b-bc	45	75	38	9	2	-	-	2-3	2-3	2500	2	2
Aldergrove	10·5	+8	—	0	c	40	85	35	9	5	6	-	7-8	9	3000	1	*
Birr Castle	10·6	+2	N	1	b-bc	34	92	32	8	-	4	-	0	2-3	-	1	*
Valentia Obsy.	11·2	+4	E'N	2	c	38	65	28	9	1	7	2	Tr	9+	2500	1	2
Roches Point	11·1	+10	NNE	2	bc	40	75	33	8	5	-	5	1	4-6	2500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 1st (39)	13h.—18h. 1st (40)	18h. 1st to 1h. 2nd (41)	1h.—7h. 2nd (42)
London (Kew)	crorm	rrorroc	rr0irc	e,bm0x
Croydon	cmfcfr	cmofrr	ofd0dcm0	cm0bcm
S. Farnborough	cidomoRroRm	ciroormrom0	cr0m bcm0	bcm0mrgx
Boscombe Down	croromo	crriro cm0	cm0fbm0	bcm0x
Thorney Island	rrlercm0	cm0 iroc	cwbcm0b	bm0bcw fg
Lympne	iroc	cm0TLR	cm0TLrof	cm0bm0
Manston	c	croro PR	ctlrcm0	om0m
Shoeburyness	cmobc	crrom	crrm0c	cm0
Felixstowe	bcm0wcm0	ccm0cm0rocm0	rrcrrim0f0m0	cmr0m0m
Gorleston	c2oc	c	orrr0r0	oror0d0
Mildenhall	cmcm0	cm0orrm	orr0r0r0f	cr0of
Cranwell	crrm0	crrm	pr0r0m	od0d0fddm
Birmingham	ororo	oirof	mir0c	ocm
Upper Heyford	orsrsm	orrmcm	cid0bm	bcm0z
Ross-on-Wye	romorro	d0m0cbm	bm0w	bmgx
Hartland Point	c	cbcc	c	cr0bc
Bristol	ororomorrm	ororom0	bmfmm0	bm0bcmf
Portland Bill	orrc	cc	cc	cbc
Plymouth	cmobc	cbcm0	bcm0w	bcwm0pr
The Lizard	bc	bcc	cbcw	bcc
Scilly (St. Mary's)	cbcc	cbc	bccbc	bcc
Guernsey				
Pembroke	bcm0c	c	bcc	ir0c
Holyhead (Valley)	vcfgbc	bcbf	cpr0	bbcx
Chester (Sealand)	momc	cbcm0	bcm0cm0	cm0m
Manchester	cffir	ciroff	bffcir0m	ir0id0ff
Spurn Head	omoro	omoro	om0r0	om0d0m0
Catterick	croromo	cm0rrm0	crrm0cm	cmcirmcm0
Tynemouth	cp	cprbc	bcop	cpcm0
St. Abbs Head	c	c	bcc	cm0
Leuchars	bxbccb	b	bm0bx	bx
Renfrew (Abbots I.)	bcmbcm0bc	bnbcm	bfFex	bFex
Eskdalemuir	bcc	cbc	bcxm0	bccx
Point of Ayre	bbcc	procbc	bcc	bbc
Tiree	bc	bc	bcprb	bcjpx
Stornoway	bc	probc	bc	bcx
Dalwhinnie	cpro	cbc		bcc
Aberdeen	bcbbcc	cbccbc		bx
Wick	bccbcprbcc	cbc	bcpr0bc	bcbcx
Sumburgh	bccprobc	bccbc	bcpr0c	cbcc
Blacksod Point	bc	bc	r	bc
Malin Head	bc	bc	bc	bc
Aldergrove	b	bbcproc	bc	bcbx
Birr Castle	bc	bc		c
Valentia Obsy.	bc	c	bc	bc
Roches Point	bc	bc	bc	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 2nd November 1942

Districts	Forecast
1 S.E. England	Light variable wind. Fine at first, but extensive fog developing during night and dispersing only slowly tomorrow. Rather cold by day, slight local frost at night.
2 E. England, 3 E. Midlands, 4 W. Midlands, 5 S.W. England	Light variable wind. Dull with slight local rain or drizzle at first. Cloud slowly dispersing, but fog becoming general tonight and dispersing only slowly tomorrow, rather cold by day, local frost at night.
6 South Wales, 7 North Wales, 8 N.W. England, 9 N. Midlands, 10 N.E. England, 11 S.E. Scotland, 12 S.W. Scotland & Isle of Man	As 6-12 / Light or moderate East winds; dull with rain at times; rather cold. / Light variable winds; mainly fair, but extensive fog developing tonight, dispersing slowly tomorrow; rather cold with local frost at night.
13A W. Scotland, 13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland	Light variable winds; mainly fair but a few scattered showers; rather cold with local frost at night.
16 Orkneys and Shetlands	As 13-16
17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland, 20 S. W. Ireland	As 6-12.

GENERAL INFERENCE

Pressure is almost uniform over the British Isles and a small depression over the Bay of Biscay is moving slowly east. There will be scattered showers in Scotland, local rain or drizzle at first in eastern England, and local rain in the Southwest. Elsewhere it will be fair at first, but extensive fog will develop during the night

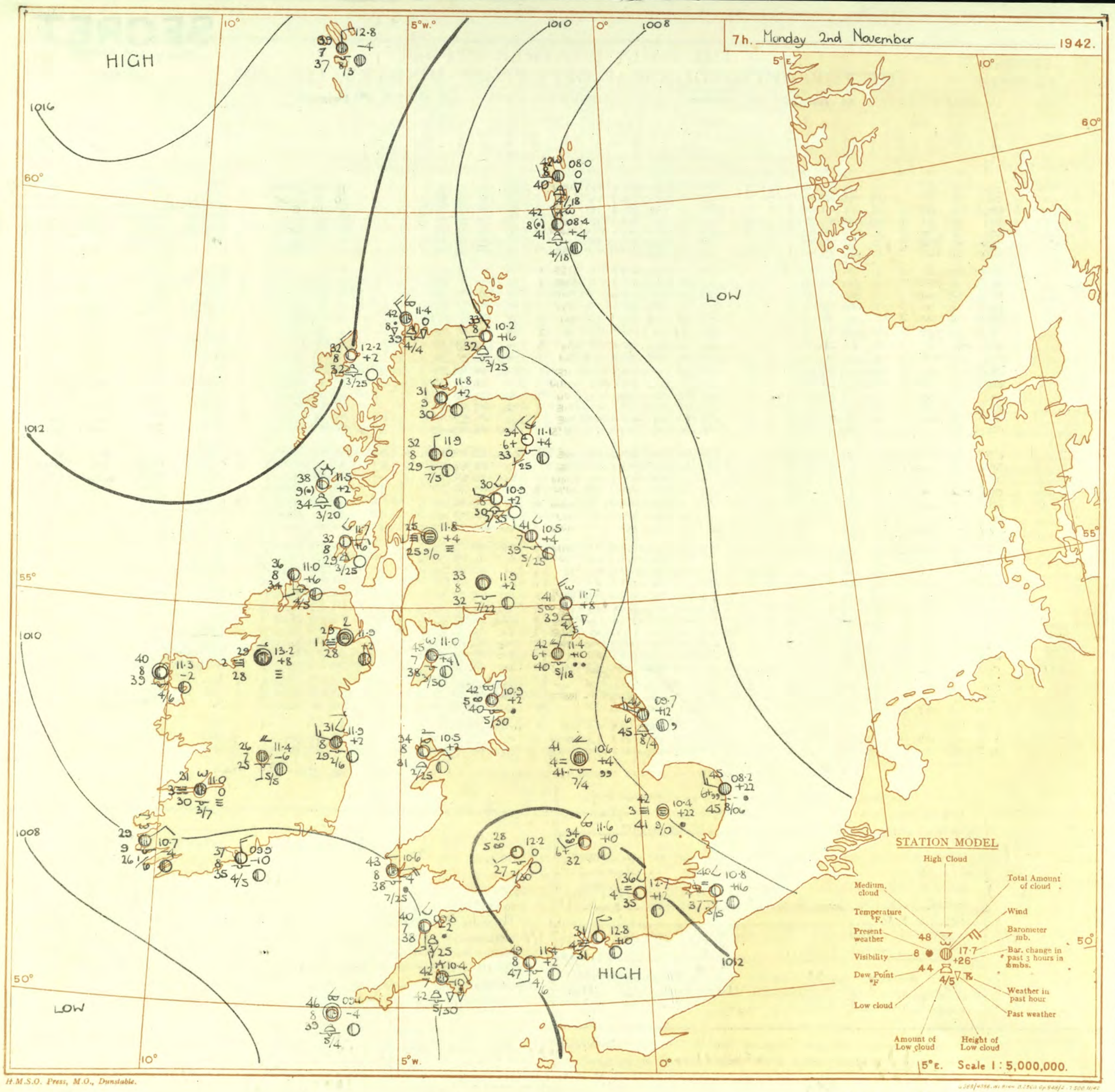
FURTHER OUTLOOK

No rapid changes indicated.

Forecasts issued at 10.30

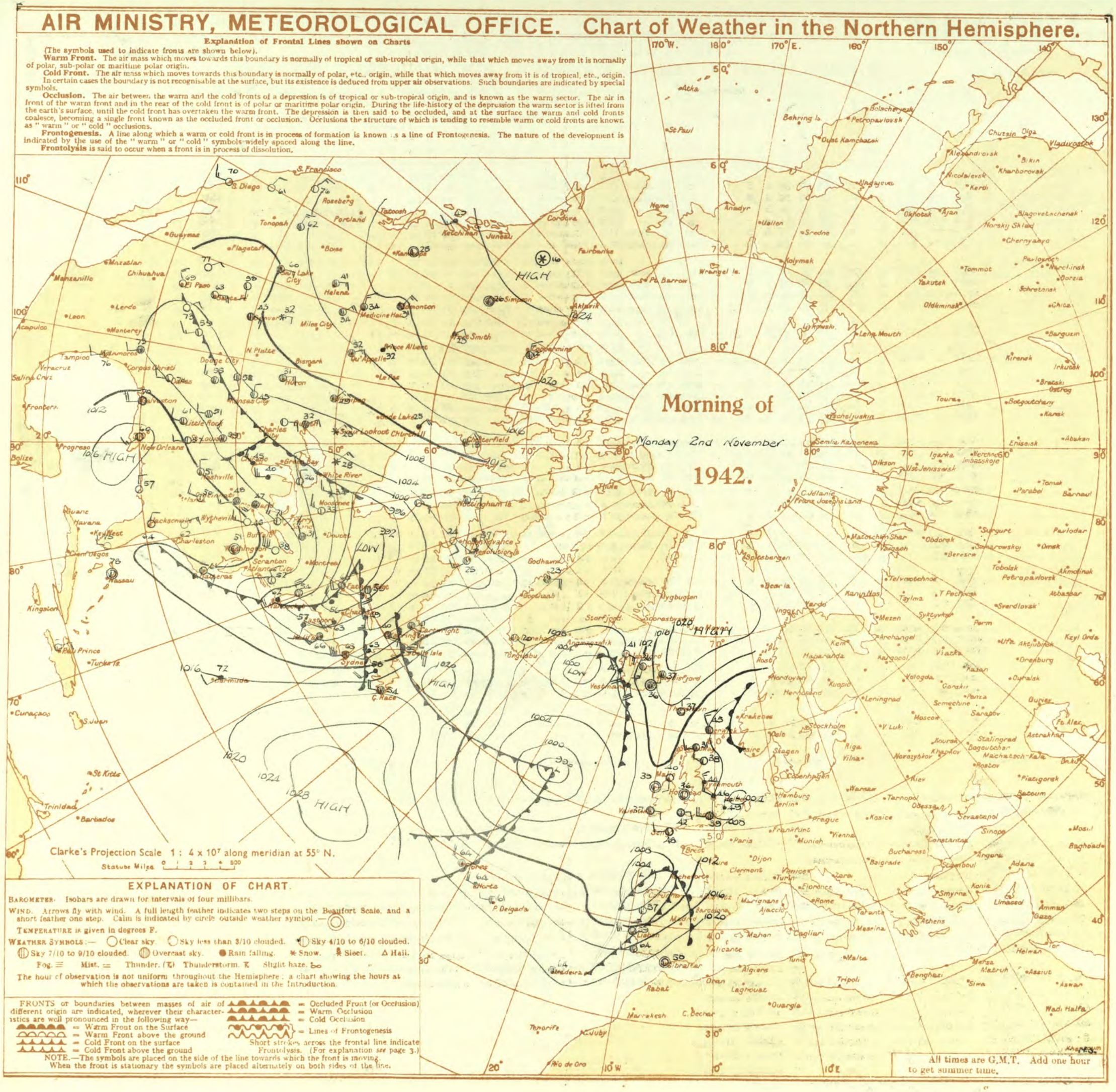
N. K. JOHNSON, D.Sc., A.R.C.S., Director.
Meteorological Office, Air Ministry, Kingsway, London, W.C.2

7h. Monday 2nd November 1942.



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.

Monday 2nd November 1942

No. 29565

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	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	10·7	+14	W	4	z0	39	97	39	6	5	-	-	10	10	1500
	S. Farnborough	226	10·6	+10	W	2	z0	39	92	36	6	5	-	-	2-3	2-3	1600
	Boscombe Down	417	12·0	+8	W'S	2	z0	34	97	34	5	-	-	-	0	0	-
	Thorney Island	10	11·5	+10	W'S	3	z0	38	92	36	6	-	-	-	0	0	-
	Lympne	283	08·4	+18	N'W	3	z0	39	92	37	6	5	-	-	10	10	600
	Manston	154	07·5	+14	W	4	z0	40	92	39	6	5	-	-	10	10	700
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	05·5	+14	NW'W	4	66	46	97	45	5	5	-	-	10	10	600
	Gorleston	5	04·6	-6	NNE	4	66	49	85	45	6	6	-	-	10	10	800
	Mildenhall	15	07·6	+14	NW'W	4	rf	42	97	42	3	5	-	-	10	10	300
	Cranwell	203	08·6	+4	NW	2	of+	42	97	42	3	-	2	-	10	10	200
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	09·9	+10	NNW	2	z0	36	97	35	5	-	3	-	0	4-6	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	10·4	0	ESE	2	c	42	92	40	7	5	6	-	7-8	9+	2500
	Bristol	209	11·8	+2	-	0	z0	33	97	32	5	-	-	1	0	Tr	-
	Portland Bill	32	11·8	+18	NW	2	c-bc	46	85	42	8	5	-	-	7-8	7-8	4000
	Plymouth	82	11·9	+4	E	1	z0	39	92	37	6	5	7	-	2-3	4-6	3000
	The Lizard	240	10·4	0	ESE	2	bc	48	75	41	8	8	-	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	10·4	0	SW'W	2	bc	48	75	39	8	8	-	-	4-6	4-6	1200
	Guernsey	175															
6	Pembroke	142	11·2	+4	ENE	2	c-bc	42	92	40	7	4	7	-	4-6	7-8	2500
7	Holyhead (Valley)	32	10·3	0	-	0	b-bc/pr	36	92	34	7	8	-	-	2-3	2-3	2500
	Chester (Sealand)	16	10·4	+6	W	1	z0	37	85	34	5	5	-	-	9	9	4900
8	Manchester	235	10·4	+4	W'N	2	ir0	40	97	39	4	5	-	-	10	10	2200
10	Spurn Head	29	07·6	-2	NW	3	rr	46	85	43	6	8	-	-	10	10	1500
	Catterick	175	10·1	+4	NW'N	2	m/r	42	85	39	4	5	3	-	4-6	9+	2000
	Tynemouth	108	09·8	+6	NNW	3	pr0	44	85	40	6	2	-	-	9	9	2500
11	St. Abbs Head	280	10·2	-2	WNW	3	c	43	92	41	7	5	-	-	10	10	2500
	Leuchars	36	10·8	+2	-	0	b	32	97	32	8	5	-	-	Tr	Tr	5000
12	Renfrew (Abbots I.)	19	11·5	+2	-	0	bF+	26	97	26	1	-	-	-	0	0	-
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	10·7	+2	ENE	2	c	46	65	36	8	5	-	-	9+	9+	4500
13A	Tiree	44	11·5	+2	-	0	b-bc	38	85	35	8	8	6	-	2-3	2-3	2500
13B	Stornoway	15	12·5	+2	-	0	b-bc	35	97	35	8	8	-	-	2-3	2-3	3000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	10·6	+2	WNW	3	bc	38	92	37	8	5	7	-	2-3	4-6	3500
	Wick	114	10·4	-2	WSW	3	b-bc/pr	34	97	34	8	2	-	-	2-3	2-3	2500
16	Sumburgh	19	08·4	0	NNW	3	c/pr	44	97	42	8	8	7	-	7-8	9+	2500
17	Blacksod Point	18	11·6	0	-	0	b	39	97	38	8	5	-	-	Tr	Tr	4000
18	Malin Head	84	10·6	-2	S	1	bc	40	85	36	8	2	-	-	4-6	4-6	2500
	Aldergrove	268	11·7	0	-	0	bc	31	92	30	8	5	-	-	4-6	4-6	4000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	11·4	-4	ENE	2	c	31	85	28	9	-	3	2	0	9	-
	Roches Point	22	11·7	0	N'E	3	bc	41	85	37	8	5	-	-	4-6	4-6	2500

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

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)	12·3	+10	W'S	1	z0	37	92	35	5	-	3	1	0	2-3	-	1	*
Croydon	12·7	+12	WNW	2	m	36	92	35	4	-	4	-	0	2-3	-	1	*
S. Farnborough	12·5	+18	WSW	1	fg	31	97	30	6	-	-	-	0	0	-	1	*
Boscombe Down	13·0	+8	-	0	m	30	97	30	4	5	7	1	4-6	4-6	3500	0	*
Thorney Island	12·8	+10	N'W	1	fg	31	97	31	4	-	7	1	0	2-3	-	0	*
Lympne	11·3	+12	WNW	2	m	35	97	35	4	-	4	1	0	1	-	1	§2
Manston	10·8	+16	W	3	m	40	85	37	4	5	4	-	2-3	2-3	1500	1	*
Shoeburyness	10·9	+20	W	2	c-bc	40	85	37	5	-	3	1	0	7-8	-	1	*
Felixstowe	10·2	+22	W	4	m	43	97	42	4	5	-	-	10	10	800	1	3
Gorleston	08·2	+22	WNW	3	d0d0	45	97	45	6	6	-	-	10	10	600	1	3
Mildenhall	10·4	+22	WSW	2	f-	42	97	41	3	-	-	-	10	10	<150	1	*
Cranwell	10·4	+16	NW	1	dd	42	97	42	4	-	2	-	10	10	400	1	*
Birmingham	11·6	+10	WNW	2	m	36	85	32	4	5	-	-	10	10	1500	1	*
Upper Heyford	11·6	+10	WSW	2	z0	34	97	32	6	-	7	-	0	4-6	-	1	*
Ross-on-Wye	12·2	0	SW	1	z0	28	92	27	5	5	-	-	1	1	3000	1	*
Hartland Point	09·8	-2	S	3	bc	40	92	38	7	2	4	-	2-3	4-6	2500	0	3
Bristol	12·9	+4	-	0	m	32	97	31	4	5	-	-	9	9	5700	1	*
Portland Bill	11·4	+2	S	2	bc	49	85	47	8	8	-	-	4-6	4-6	4000	1	3
Plymouth	10·4	-10	E	2	c/pr	42	97	42	7	8	6	-	7-8	9+	3000	1	2
The Lizard	08·8	-8	SE	3	c-bc	49	85	45	8	8	-	-	7-8	7-8	1500	1	3
Scilly (St. Mary's)	09·1	-4	-	0	c	46	75	39	8	8	7	-	7-8	9	1500	1	2
Guernsey																	
Pembroke	10·6	-4	E	4	c	43	85	38	8	5	1	-	9+	9+	2500	0	2
Holyhead (Valley)	10·5	+2	E	2	bc	34	92	31	8	1	3	5	1	4-6	2500	1	2
Chester (Sealand)	11·0	+2	E	1	m	39	97	38	4	5	2		4-6	10	3500	1	*
Manchester	11·2	+4	ESE	1	oF+	40	97	29	1	-	2	-	10	10	800	1	*
Spurn Head	09·7	+12	WNW	3	c/d	46	97	45	6	8	-	-	10	10	1500	1	3
Catterick	11·4	+10	NNE	2	c/r	42	92	40	6	5	2	-	7-8	10	1800	1	*
Tynemouth	11·7	+8	NNW	3	z0	41	88	39	5	2	3	-	4-6	7-8	2500	1	3
St. Abbs Head	10·5	+4	WNW	2	c-bc	41	92	39	7	5	4	-	7-8	7-8	2500	0	3
Leuchars	10·9	+2	WNW	1	b-bc	30	97	30	8	4	5	-	1	2-3	3500	3	*
Renfrew (Abbots I.)	11·8	+4	-	0	F-	25	97	25	1	-	-	-	10	10	<150	3	*
Eskdalemuir	11·9	+2	-	0	c	33	92	32	8	5	-	-	9+	9+	2200	3	*
Point of Ayre	11·0	+4	E'N	2	c	45	75	38	7	5	3	-	4-6	9+	5000	0	2
Tiree	11·5	+2	NW	2	bcjp	38	85	34	9	8	6	-	2-3	4-6	2000	1	1
Stornoway	12·2	+2	NW	1	b-bc	32	97	32	8	8	-	-	2-3	2-3	2500	3	
Dalwhinnie	11·9	0	N	1	c	32	85	29	8	5	-	-	9+	9+	2300	1	*
Aberdeen †	11·1	+4	NW'W	2	b	34	97	33	6	5	9	-	Tr	1	2500	1	2
Wick	10·2	+16	W	2	b-bc	33	97	32	8	8	-	-	2-3	2-3	2500	0	*
Sumburgh	08·4	-4	NNW	3	bcjp	42	97	41	8	8	6	9	4-6	4-6	1800	1	2
Blacksod Point	11·3	-2	-	0	bc	40	97	39	8	5	-	-	4-6	4-6	4000	1	1
Malin Head	11·0	+6	S	1	bc	36	92	34	8	4	-	-	4-6	4-6	2500	1	2
Aldergrove	11·9	+2	-	0	bF+	29	97	29	1	-	-	6	0	Tr	-	1	*
Birr Castle	11·4	-6	S	1	c	26	97	25	7	5	2	-	7-8	10	2500	1	*
Valentia Obsy.	10·7	-4	NEE	2	c-bc	29	85	26	9	5	3	3	Tr	7-8	4000	3	2
Roches Point	09·9	-10	N	3	bc	37	92	35	8	5	-	-	4-6	4-6	2500	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 1st Hrs. (38)
London (Kew)	45	37	27	7	0·5	0·0
Croydon	46	35	32	15	0·5	0·0
S. Farnborough	42	31	22	9	0·1	0·0
Boscombe Down	43	29	23	6	Tr	0·0
Thorney Island	48	31	27	13	Tr	*
Lympne	53	35	32	28	0·4	1·0
Manston	54	40	38	30	9	
Shoeburyness	53	39	33	11	1	0·8
Felixstowe	53	43	42	9	10	1·5
Gorleston	52	44	43	-	26	3·1
Mildenhall	47	41	40	9	12	0·0
Cranwell	41	40	39	23	7	0·0
Birmingham	40	36	31	6	0·5	0·0
Upper Heyford	39	33	29	31	Tr	*
Ross-on-Wye	41	27	21	4	-	0·2
Hartland Point	47	40	38	-	Tr	2·2
Bristol	40	29	21	4	0·1	0·0
Portland Bill	49	42	*	4	-	*
Plymouth	48	37	31	1	1	5·7
The Lizard	53	44	*	-	-	5·6
Scilly (St. Mary's)	55	44	*	Tr	-	4·0
Guernsey						
Pembroke	48	40	*	-	0·3	1·9
Holyhead (Valley)	51	31	24	-	0·3	*
Chester (Sealand)	45	31	22	-	Tr	0·5
Manchester	43	36	29	1	0·3	*
Spurn Head	45	43	*	8	8	0·0
Catterick	43	41	39	3	2	0·0
Tynemouth	46	41	38	2	1	*
St. Abbs Head	45	40	*	-	-	*
Leuchars	50	29	20	-	-	7·8
Renfrew (Abbots I.)	47	23	21	-	-	4·3
Eskdalemuir	44	24	17	-	-	2·1
Point of Ayre	48	43	*	Tr	-	6·3
Tiree	48	36	*	-	Tr	7·5
Stornoway	47	32	20	0·2	-	4·0
Dalwhinnie	42	30	24	0·1	-	2·1
Aberdeen †	46	33	30	-	-	5·3
Wick	46	33	29	Tr	0·5	*
Sumburgh	47	41	32	Tr	0·1	3·3
Blacksod Point	52	37	*	0·3	-	*
Malin Head	47	35		-	-	0·5
Aldergrove	50	26	19	0·2	Tr	6·2
Birr Castle	47	26	20	-	-	4·1
Valentia Obsy.	48	28	23	Tr	Tr	8·0
Roches Point	47	36	*	-	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 1st November $C_L C_M$	$wwVhN_h$	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	3-	81746	30386	46	01864	31314	80	01853	24283	86	02851	26285
115	87	81844	04386	87	10844	04286	52	81844	32287	87	81844	28326
203	8-	25946	04386	8-	02946	04386				8-	02948	08218
206	8-	81957	29287	46	02964	26185	03	01990	00014	03	02990	28125
210	86	02954	27387	86	10844	28284	56	01853	20284			
220	80	01855	02215	80	25751	00084				80	01854	00014
230	13	01961	00002	10	01951	07101	5-	01861	00001	84	01961	22203
245	86	01962	28103	54	07961	28112	57	01961	22301	84	01961	22203
260	03	05690	28214	53	05662	28213	00	04590	28200	5-	08487	24127
278	83	01865	28217	74	02858	23225	5-	02767	00027	53	47365	12125
279	87	02665	06126	53	05664	05164	07	05590	02127	5-	05587	06127
285										27	02743	18127
288	52	64356	26268	52	62354	28468	52	22466	28368	87	22468	28368
575	13	01951	00011	4-	02956	00025	00	00790	00000	00	43290	00045
301	63	17582	09345	17	47361	32143	5-	22658	05168	57	05565	02168
321	62	62655	24168	62	63424	28268	62	51455	28368	5-	51448	28258
299	8-	61747	30367	5-	62748	04368	8-	62747	04367	8-	02756	32416
298	52	05661	29228	62	62567	29268	57	61576	29268	57	05665	30167
310										--	02428	32328
614	02	67268	00068	02	62448	30168	02	08448	28128	32	24447	00058

III	13h. G.M.T. 1st November $C_L C_M$	$wwVhN_h$	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	83	01864	16115	26	01862	02113	00	00890	00000	53	02862	00026
334										--	04337	00028
340	57	45464	28145	5-	61358	30168	04	05690	28212	5-	05665	00015
136	5-	05668	31228	5-	64458	32268	2-	24636	26368	--	57309	00069
336										53	01753	04314
350	5-	64648	28268	52	62525	28368						
368	83	01644	02115	50	05571	00011	04	05590	00003	3-	08473	00028
379	--	77209	02379	--	46309	08633	04	05690	02343	54	05654	28314
390	5-	62468	04248	5-	62338	32368	5-	21428	24368	03	08490	24227
382	62	62634	32268	57	05585	32128	--	48209	28209	07	08490	00041
438	52	02736	12428	--	48209	26299	--	21490	22810	44	05553	24313
430	87	05565	03398	5-	05658	31828	07	01690	30202	04	04690	32112
409	14	01752	03402	53	02755	06227	5-	01755	07125	23	01753	12115

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 *	cr0rm	rr0rr0c	r0ir0cm
Croydon	cmrcFr	cmoFrr	ofr0bcm
Greenwich	cr0d0m0	rReirg	ir0cdm
Camden Square	or	or	*
*Kensington	bco	or	*
Hampstead	or	orbc	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 8·24 Time 8h 1st. Min. 3·4 Time 28hrs 1st.

Stations	Temperature Day Max °F	Temperature Night Min °F	Temperature Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	45	37	27	7	0·5	0·0	*	*
Croydon	46	35	32	15	0·5	0·0	*	*
Greenwich	47	35	29	14·2	Tr	0·0	87	82
Westminster	48	36	32	13·2		*	83	94
Regents Park	48	36	33	10·0	0·5	*	99	81
Camden Square	46	36	31	[illegible]	[illegible]	*	*	91
Kensington	47	36	26	9·2	0·6	*	98	90
Hampstead	44	33	31	3·9	3·2	*	*	90

SECRET

Page 1 BRITISH SECTION

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

Tuesday 3rd November 1942.

No. 29566

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)	13·1	-2	SSW	1	zo	46	75	38	6	-	-	4	0	9	-
	Croydon	13·6	0	-	0	zo	49	55	35	6	-	-	3	0	7·8	-
	S. Farnborough	12·5	-6	NE	1	zo	49	55	35	5	-	-	6	0	7·8	-
	Boscombe Down	12·5	-10	E'S	3	zo	47	75	40	6	-	3	3	0	7·8	-
	Thorney Island	12·6	-4	E	3	c-bc	50	65	38	7	-	8	6	0	7·8	-
	Lympne	13·4	-2	WSW	1	c-bc	48	65	38	7	-	-	6	0	7·8	-
	Manston	12·5	+2	WSW	2	c-bc	49	65	37	7	-	4	6	0	7·8	-
2	Shoeburyness	13·3	-4	WSW	2	c-bc	50	65	38	6	1	7	6	Tr	7·8	3000
	Felixstowe	12·3	+4	WNW	3	zo	45	85	41	6	5	-	-	9+	9+	1000
	Gorleston	11·2	+8	NW'N	3	o	47	85	43	6	5	-	-	10	10	1000
	Mildenhall	12·3	+2	WSW	3	zo	45	85	41	5	5	-	-	10	10	2000
	Cranwell	12·1	+2	WNW	1	ido	45	97	45	4	6	2	-	7·8	10	700
3	Birmingham	12·1	0	WSW	2	b-bc	48	65	37	7	-	-	1	0	2-3	-
	Upper Heyford	11·9	-6	SSW	1	zo	50	55	36	6	-	3	6	0	4-6	-
4	Ross-on-Wye	11·7	-10	ENE	2	zo	45	85	40	6	-	5	1	0	4-6	-
5	Hartland Point	09·5	-8	ESE	3	c	50	85	46	8	2	7	-	1	9+	2500
	Bristol	12·8	-2	ESE	2	zo	47	65	36	6	5	-	-	10	10	4000
	Portland Bill	10·6	-12	E	4	c	63	85	49	8	2	4	-	4-6	10	4000
	Plymouth	09·7	-12	ESE	2	roro	48	97	47	6	5	7	-	7·8	10	3000
	The Lizard	08·5	-8	ESE	3	c-bc	57	75	49	8	8	6	-	7·8	7·8	2000
	Scilly (St. Mary's)	08·2	-10	NE'N	2	c	52	75	46	8	8	7	-	4-6	10	1200
	Guernsey															
6	Pembroke	09·6	-2	SE'S	4	c-bc	52	85	46	8	2	7	-	4-6	7·8	2500
7	Holyhead (Valley)	11·5	-2	-	0	bc	51	55	34	8	2	3	8	Tr	4-6	2500
	Chester (Sealand)	11·6	-6	ESE	2	b-bc	51	65	40	6	2	4	-	2-3	2-3	3500
8	Manchester	11·9	-2	SSE	1	zo	46	85	41	6	5	-	-	9	9	5700
10	Spurn Head	11·9	+10	N	2	zo	48	75	41	6	8	-	-	10	10	1500
	Catterick	12·9	+4	NNE	1	zo	46	75	39	6	5	7	-	2-3	10	4000
	Tynemouth	129	+6	N	3	c-bc	47	75	40	7	5	3	-	4-6	7·8	2300
11	St. Abbs Head	12·2	+12	WNW	1	c	44	75	38	7	5	4	-	9	9+	4000
	Leuchars	12·3	0	SW	1	zo	43	85	38	6	-	3	-	0	4-6	-
12	Renfrew (Abbots I.)	12·6	+2	-	0	F+	30	97	30	0	-	-	-	10	10	<150
	Eskdalemuir	11·4	0	-	0	c	41	85	36	8	5	7	-	7-8	9+	2800
	Point of Ayre	11·9	+2	SE'E	3	roro	45	85	40	7	6	2	-	4-6	10	1000
13A	Tiree	12·5	+2	N'W	2	pr	43	75	37	9	3	6	3	4-6	7·8	2000
13B	Stornoway	12·5	+2	-	0	c-bc	48	75	41	9	8	6	1	4-6	7·8	3000
15	Dalwhinnie	12·5	+4	S	1	bc	41	65	30	8	8	-	-	4-6	4-6	2500
	Aberdeen	12·0	+2	NNW	2	b	45	65	35	8	1	4	3	Tr	Tr	3500
	Wick	11·2	+6	W'N	3	c-bc	45	85	41	9	8	3	-	7·8	7·8	2000
16	Sumburgh	08·2	+6	NW	4	c-bc	48	75	41	9	2	4	-	7-8	7·8	3000
17	Blacksod Point	12·2	+2	E'S	1	c-bc	48	75	40	9	8	5	6	2-3	7·8	4000
18	Malin Head	11·8	+6	W	1	c-bc	46	85	41	8	5	-	-	7·8	7·8	2500
	Aldergrove	12·7	-2	W	1	zo	41	92	38	6	8	7	3	7·8	9	3000
19	*Birr Castle	11·6	-2	N	2	c-bc	41	85	37	8	5	-	-	7·8	7·8	2500
20	Valentia Obsy.	11·2	0	WNW	2	bc	46	55	31	9	5	7	3	1	4-6	4000
	Roches Point	09·9	-6	NE	1	bc	46	75	38	8	1	3	-	1	4-6	4000

OBSERVATIONS at 18h. 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)	Weather 7h.–13h. 2nd (39)	Weather 13h.–18h. 2nd (40)	Weather 18h. 2nd to 1h. 3rd (41)	Weather 1h.–7h. 3rd (42)
London (Kew)	11·5	0	-	0	bcf+	40	92	38	3	5	3	-	4-6	4-6	4000	1	*	bmczo	ybcfw	bcfoFro	rorcrc
Croydon	12·3	-2	-	0	cf+	41	92	39	2	-	3	-	0	9	-	1	*	bcmbzo,y	bczyczyf	cfcf	cmroro
S. Farnborough	11·2	-2	E	1	zo	43	75	35	5	-	7	-	0	10	-	1	*	bmoxfczoy	czoybczo	czmFmo	cromozifm
Boscombe Down	11·4	-2	ENE	3	zo	43	75	36	6	-	7	-	0	9+	-	0	*	bcmocmo	cmo	cmo	cm
Thorney Island	10·9	+2	NNE	3	c	46	92	46	7	-	7	-	0	10	-	1		bcfgbc	bcc	cmcworoco	cromrofs
Lympne	12·1	-2	-	0	zo	40	85	36	6	-	3	2	0	7·8	-	1	§	bmmozo	cczobcmo	cmororo	cmrorr
Manston	12·2	-2	-	0	zo	39	85	34	6	-	-	2	0	4-6	-	1	*	bczobc	cmo	crorozo	crorobbm
Shoeburyness	12·7	-2	-	0	bc	40	85	37	6	-	4	-	0	4-6	-	1	*	cbcmo	cbcwmo	bcmooir	orm
Felixstowe	12·2	-2	E'N	1	zo	44	92	42	5	5	-	-	10	10	1500	0	1	omocmo	omomocmo	bcmzcmzcro	orromorm
Gorleston	11·2	0	NW'N	1	m/r	47	97	46	4	5	-	-	10	10	1500	0	3	orozo		cirocz	orrroro
Mildenhall	11·9	-2	-	0	m	45	92	43	4	5	-	-	10	10	2200	1	*	ofdfoncm	cmocm	cmpFiroF	oFrremorr
Cranwell	12·1	+2	-	0	f+	44	97	44	3	-	-	-	10	10	<150	1	*	odorom	cidocmf	oddorof	orrmcrrmo
Birmingham	11·9	0	SE	2	bF+	43	75	35	1	-	-	-	0	0	-	1	*	cmbc	bcmf	Fbcb	bFF
Upper Heyford	11·5	0	ENE	1	zo	40	75	33	6	-	3	1	0	2-3	-	1	*	bcmobczoy	bczoybcmo	bcmocm	cmidoF
Ross-on-Wye	11·1	0	E	1	zo	43	75	37	5	5	-	-	9+	9+	3500	1	*	bfbcfz	bccz	e	cmo
Hartland Point	09·1	+4	E	3	c	48	85	44	7	5	6	-	9	9+	2000	0	3	bccc	c	cligc	eipro
Bristol	11·8	0	ESE	1	m	41	85	38	4	5	4	7	2-3	10	5700	1	*	cmxbcfcmo	cmo	cmbcmcm	cmwbcm
Portland Bill	10·2	-6	NE	4	o	52	85	48	8	5	-	·	10	10	4000	1		c		cc	cc
Plymouth	08·9	+2	E	1	zo	48	85	44	5	5	7	-	4-6	10	5000	1	2	crororrmo	cromocmo	cido	bcbiromo
The Lizard	07·7	+4	NNE	3	rr	48	97	48	7	8	2	-	9	10	1500	1	3	cprc	cprrr	c	cprbc
Scilly (St. Mary's)	08·3	+6	-	0	ir	48	92	46	6	5	-	-	9	9	1000	1	2	c	cir	circ	cbc
Guernsey																					
Pembroke	10·1	+6	SSW	1	roro	46	97	45	7	8	2	-	7·8	9+	1500	1	2	c	crrlo	c	bcpmrc
Holyhead (Valley)	11·2	+2	ENE	1	c	43	85	38	8	-	7	-	0	9+	-	1	4	bc	bcc	cbcmo	c
Chester (Sealand)	11·7	+4	ESE	1	bc	39	92	37	6	5	3	-	2-3	4-6	4000	0	*	cmbczo	bczomo	ocrromocbc	bmoFF
Manchester	11·9	+2	E	2	b-bcf+	40	97	39	2	5	-	-	2-3	2-3	4000	1	*	Fffidocm	cmbcff	bff	FF
Spurn Head	12·1	+6	E	2	zo	47	92	45	6	8	-	-	10	10	1500	1	2	omo	omododo	o	oro
Catterick	12·9	-4	-	0	rf	44	97	44	3	5	2	-	7·8	10	800	1	*	cmo	crororf	cirof	cirof
Tynemouth	13·1	+6	NNE	3	c	47	85	42	6	5	-	-	9	9	2500	1	3	bcmoc	c	c	c
St. Abbs Head	12·4	0	SW	2	c	43	75	36	7	5	4	-	9	9+	4000	0	3	cmo	cmo	cm	cmom
Leuchars	12·3	+4	WNW	2	b	36	97	36	6	-	4	-	0	1	-	1	*	cgfx	bccfmob	bcmox	mobccx
Renfrew (Abbots I.)	12·8	+8	-	0	F+	27	97	24	0	-	-	-	10	10	<150	3	*	oFex	ofex	oFx	oFex
Eskdalemuir	12·8	+6	-	0	c	38	85	33	8	5	-	-	9	9	2800	0	*	cxc	c	oro•	oromo
Point of Ayre	11·6	-2	ESE	3	c	46	85	42	7	6	2	-	7·8	10	1000	1	3	croro	roro c	ctlrr	Rtlrrc
Tiree	12·9	+4	NNW	1	b-bc	38	85	34	9	2	6	-	1	2-3	3000	1	1	bcpro	probcb	bcprobc	bcxjp
Stornoway	13·1	+6	NW	1	bc	39	92	38	8	8	3	-	2-3	4-6	2000	1		bcc	cbc	bc	bwbcx
Dalwhinnie	12·7	+6	-	0	b	37	85	35	8	4	-	-	Tr	Tr	4000	0	*	cbc	bcb		b
Aberdeen	12·5	+6	WNW	2	bcf+	35	92	52	2	-	-	8	0	4-6	-	1	1	bxmdb	bbzfF	bFzox	bzox
Wick	11·7	0	SW	1	c-bc	39	92	36	9	8	7	-	4-6	7·8	2000	1	*	cbc	cprocbc	bcpro	bcc
Sumburgh	09·5	+6	WNW	3	c-bc	46	85	42	9	2	6	-	4-6	7·8	2400	1	4	cbc	bcc	bcc	cbdoc
Blacksod Point	12·9	+6	N	2	b-bc	45	85	41	8	5	5	-	1	2-3	4000	0	2	bc	bc	b	rs
Malin Head	12·1	+6	SW'W	1	c-bc	41	92	39	8	8	-	-	7-8	7-8	2500	1	0	bc	c	bc	pr
Aldergrove	12·7	+6	-	0	zo	39	92	37	5	8	7	-	4-6	9+	2000	0	*	xfbfmocmo	cmo	croc	bcbmofc
*Birr Castle	11·5	+6	NW	1	c	39	92	37	7	6	2	-	7·8	10	1500	1	*	c	r	*	bc
Valentia Obsy.	11·7	+10	E'N	3	c-bc	40	75	32	9	1	-	4	Tr	7·8	4000	1	2	bc	bc	bc	b
Roches Point	10·4	+6	N'E	2	bc	41	85	37	8	5	-	5	1	4-6	2500	1	2	bc	bc	b	bc

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

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands	Moderate northerly wind decreasing. Rain at first, clearing slowly from West and becoming fair or fine. Moderate to poor visibility, fog at night; rather cold or cold.
4 W. Midlands, 5 S.W. England, 6 South Wales	Light northerly wind; fair or fine. Good visibility but poor in Midlands with fog at night. Rather cold; local ground frost at night.
7 North Wales, 8 N.W. England, 9 N. Midlands, 10 N.E. England, 11 S.E. Scotland, 12 S.W. Scotland & Isle of Man	Light northwest wind; clear intervals, local rain at first. Fog night and morning. Rather cold or cold; some ground frost at night.
13A W. Scotland, 13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland	Light to moderate west wind; fair or fine. Mainly good visibility, fog in industrial areas: cold with frost at night.
16 Orkneys and Shetlands	Light variable wind; cloudy; local rain. Rather cold; good visibility.
17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland, 20 S. W. Ireland	As 13-15

GENERAL INFERENCE

Pressure is low to the east and southeast of the British Isles and an anticyclone to the west is spreading east. Rain in East and Southeast England at first will clear slowly from the West to-day, giving mainly fair or fine conditions over the whole country, though visibility will remain poor in many areas of England, with much fog to-night and some frost. Conditions will be rather cold to cold, throughout.

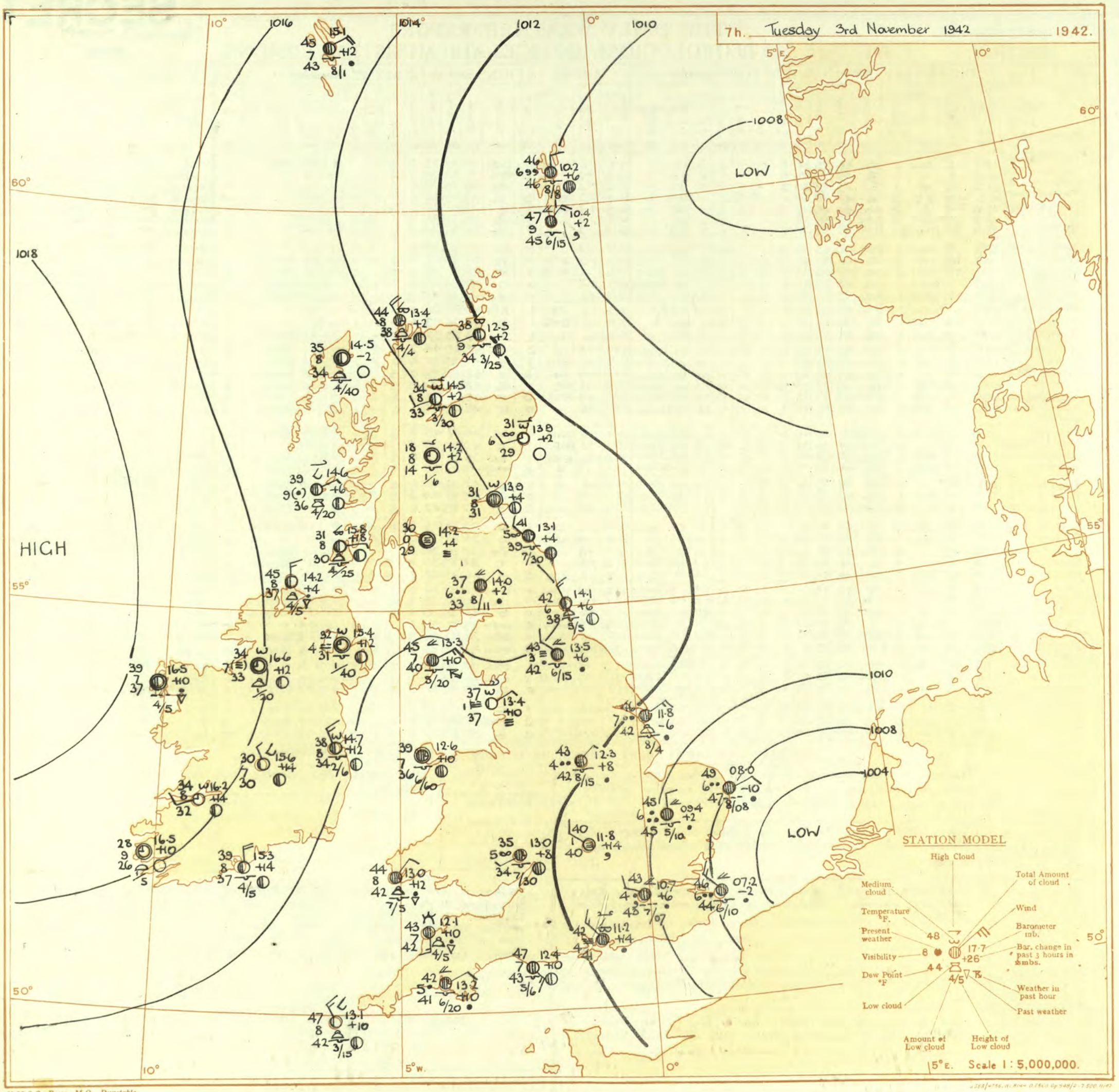
FURTHER OUTLOOK

Mainly fair; fog and frost night and morning.

Forecasts issued at 1030.

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

7h. Tuesday 3rd November 1942 1942.



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

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

Explanation of Frontal Lines shown on Charts

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

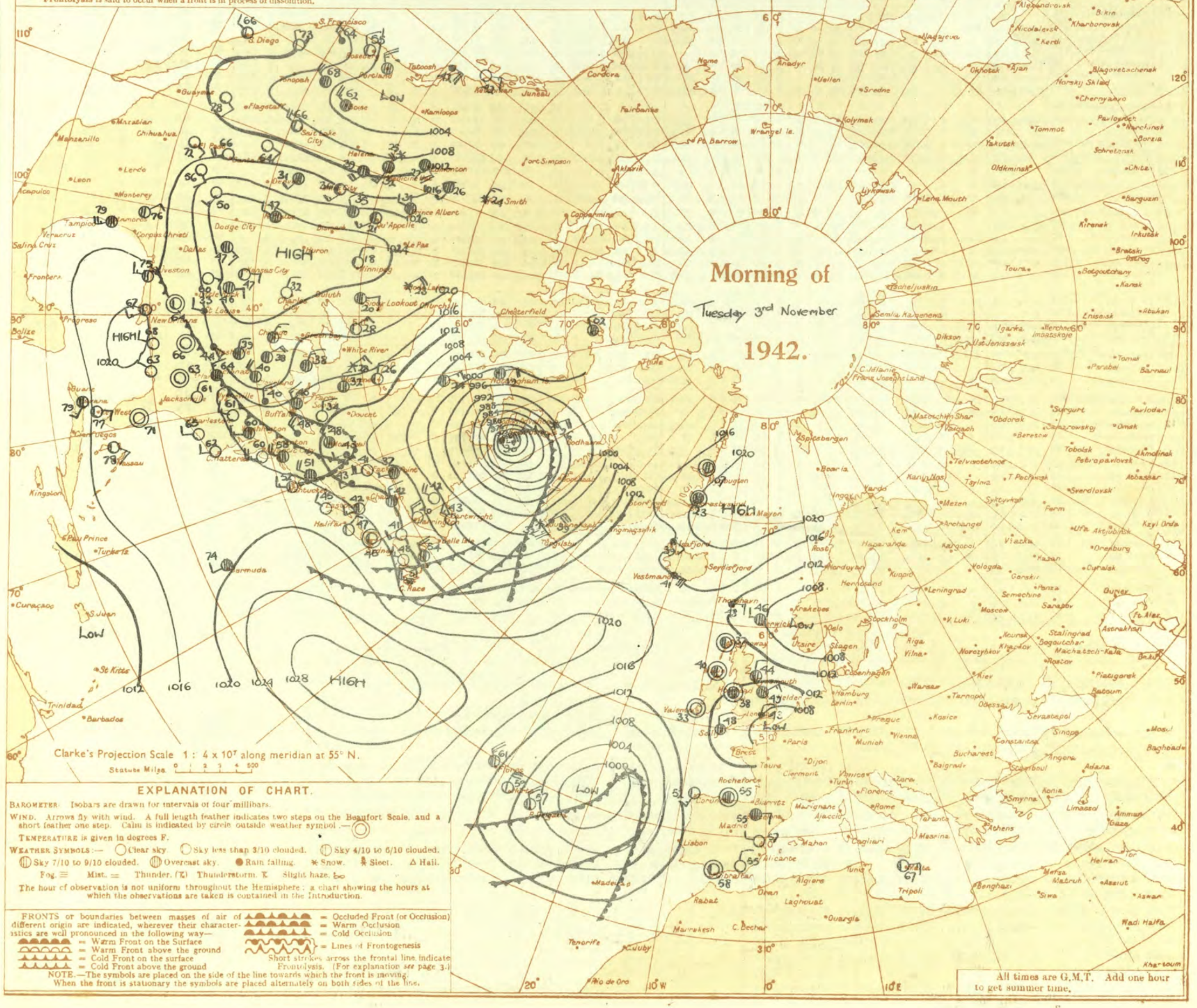
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

BRITISH SECTION

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

Tuesday 3rd November 1942
No. 29566.

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)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	43	*	*	*	*	*	*	*	*	*
	Croydon	290	10·3	-14	NNE	2	ir_0	43	92	42	4	5	-	-	10	10	3100
	S. Farnborough	226	09·6	-10	N	2	ror_0	42	85	39	4	5	-	-	10	10	3200
	Boscombe Down	417	11·2	+2	NNW	2	z_0	41	85	37	6	-	7	-	0	10	-
	Thorney Island	10	10·1	-4	N'W	3	ror_0	43	85	39	4	-	2	-	10	10	800
	Lympne	283	08·1	-18	E'N	1	ror_0	42	92	40	6	-	2	-	10	10	2500
	Manston	154	09·2	-14	E	1	rr	45	85	40	6	5	-	-	10	10	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	00·1	-10	N'E	2	ror_0	45	92	43	5	5	-	-	10	10	2200
	Gorleston	5	10·2	-10	SE	1	ir_0	50	85	45	6	5	-	-	10	10	800
	Mildenhall	15	10·8	-10	NNW	1	rf	45	97	45	1	-	2	-	10	10	1200
	Cranwell	203	11·5	-6	N'W	1	rf	44	97	43	3	6	2	-	4-6	10	100
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	10·9	-4	N	2	m	38	97	37	4	5	-	-	10	10	1800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	10·6	+6	SE	3	c	45	85	42	7	2	2	-	7-8	10	2500
	Bristol	209	12·3	+2	-	0	m	38	92	36	4	5	-	-	7-8	7-8	4000
	Portland Bill	32	10·0	+4	ENE	3	o	50	85	46	7	5	-	-	10	10	2500
	Plymouth	82	11·3	+10	E	1	z_0	43	97	42	5	5	1	-	1	4-6	4000
	The Lizard	240	10·5	+8	NE'E	2	c	49	92	47	7	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	10·9	+12	N'W	2	c-bc	48	92	46	8	5	-	-	7-8	7-8	1500
	Guernsey	175															
6	Pembroke	142	11·1	+4	S'W	2	c	46	97	45	7	8	7	-	7-8	10	1500
7	Holyhead (Valley)	32	11·7	0	-	0	c	38	92	36	7	5	-	-	10	10	7200
	Chester (Sealand)	16	12·3	+2	ESE	1	z_0	32	97	31	5	-	-	1	0	1	-
8	Manchester	235	12·4	+2	NNE	1	f	35	97	35	2	-	-	-	0	0	-
10	Spurn Head	29	11·8	0	E'N	3	c	49	75	42	7	8	-	-	10	10	1500
	Catterick	175	13·3	-2	-	0	rf	43	97	42	3	5	2	-	9	10	1200
	Tynemouth	108	13·7	+2	N	2	c	44	85	39	6	8	-	-	9	9	2500
11	St. Abbs Head	280	12·7	+2	WNW	2	m	42	92	40	4	5	-	-	9	9	4000
	Leuchars	36	13·5	+2	WSW	1	z_0	33	97	33	6	-	4	-	0	2-3	-
12	Renfrew (Abbots I.)	19	13·7	+2	-	0	F+	32	97	31	1	-	-	-	10	10	<150
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	12·3	+2	NE'E	3	rr	46	85	42	7	6	2	1	9	10	800
13A	Tiree	44	14·2	+4	-	0	bc	38	92	35	9	2	4	-	2-3	4-6	3000
13B	Stornoway	15	14·8	+2	-	0	bc	37	92	34	8	5	-	-	4-6	4-6	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	13·7	+2	-	0	b	30	92	28	9	5	-	-	1	1	4000
	Wick	114	12·3	+2	WSW	1	bc/pr	35	85	31	8	5	-	-	4-6	4-6	2000
16	Sumburgh	19	10·0	+2	WNW	3	c	47	85	42	8	5	6	-	2-3	10	2500
17	Blacksod Point	18	15·0	+4	-	0	b-bc	37	92	35	8	5	-	-	2-3	2-3	4000
18	Malin Head	84	13·6	+2	-	0	bc	40	85	36	8	8	-	-	4-6	4-6	2500
	Aldergrove	268	14·0	+4	-	0	c	39	92	37	5	5	-	-	10	10	2000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	14·8	+6	-	0	b	33	85	30	9	-	-	-	0	0	-
	Roches Point	22	13·3	+8	N	3	b	39	92	37	8	5	-	-	Tr	Tr	2500

OBSERVATIONS at 7 hr. G.M.T. 3rd 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 2nd Hrs. (38)
London (Kew)	10·4	+8	WNW	2	z_0	43	92	41	5	5	2	-	9	10	2500	1	*	47	39	28	Tr	3	4·8
Croydon	10·7	+6	W'N	2	dr	43	97	43	4	6	2	-	9+	10	700	1	*	52	41	36	-	4	6·5
S. Farnborough	11·1	+14	NW	3	ir_0	42	97	41	4	5	7	-	9+	10	400	1	*	50	40	38	-	0·3	4·9
Boscombe Down	12·7	+12	WNW	3	z_0	37	97	36	5	5	7	-	4-6	4-6	6000	0	*	47	37	33	-	-	3·6
Thorney Island	11·2	+14	NW	3	fg	42	97	41	4	-	7	7	0	10	-	1	*	52	41	39	Tr	1	*
Lympne	07·1	+2	NW	4	ror_0	42	97	42	6	6	2	-	7-8	10	400	1	§ 3	50	40	30	-	9	7·2
Manston	07·2	-2	NW	3	ror_0	46	92	44	6	5	2	-	9	10	1000	1	*	50	29		-	8	-
Shoeburyness	09·1	0	N'W	2	rr	42	97	41	4	-	2	-	10	10	1500	1	*	52	39	31	-	5	4·0
Felixstowe	08·9	-2	N	3	rr	43	97	42	5	5	-	-	10	10	900	2	1	47	42	36	-	7	0·4
Gorleston	08·0	-10	E'N	2	ror_0	49	92	47	6	6	-	-	10	10	800	1	3	49	46	45	1	13	0·0
Mildenhall	09·4	+2	N	2	rr	45	97	45	6	5	2	-	7-8	10	1000	1	*	46	44	40	Tr	13	0·0
Cranwell	11·8	+8	N'W	2	rr	43	97	43	6	6	2	-	7-8	10	1200	1	*	46	43	42	2	9	0·0
Birmingham	12·7	+8	NW	2	F+	37	97	36	1	-	-	-	10	10	<150	1	*	49	36	25	-	Tr	5·8
Upper Heyford	11·8	+14	WNW	2	F-	40	97	40	1	-	-	-	10	10	<150	1	*	51	36	31	-	Tr	*
Ross-on-Wye	13·0	+8	SW	1	z_0	35	97	34	5	5	-	-	9+	9+	3000	1	*	48	34	29	-	-	5·1
Hartland Point	12·1	+10	S	3	c-bc	43	97	42	7	2	6	-	4-6	7-8	2500	1	3	50	43	41	-	2	0·4
Bristol	14·0	+12	SW	2	fg	36	92	34	6	5	-	1	4-6	4-6	4000	1	*	47	36	30	-	Tr	1·8
Portland Bill	12·4	+10	ESE	3	c-bc	47	85	43	7	5	-	-	7-8	7-8	4000	1	4	53	44	*	-	0·4	*
Plymouth	13·2	+10	ENE	2	ir_0	42	97	41	5	5	2	-	9	9+	2000	1	2	49	39	28	3	1	0·1
The Lizard	12·3	+10	NW	3	bc	45	92	43	8	8	6	-	4-6	4-6	2000	1	3	57	44	*	5	1	2·4
Scilly (St. Mary's)	13·1	+10	NNW	3	b-bc	47	85	42	8	8	4	-	2-3	2-3	1500	1	2	52	46	*	9	4	0·0
Guernsey																							
Pembroke	13·0	+12	N'E	2	c	44	92	42	8	8	-	-	9+	9+	2500	1	2	51	41	*	3	1	1·7
Holyhead (Valley)	12·6	+10	-	0	c	39	92	36	7	5	-	-	9	9	6000	0	2	51	36	31	-	-	*
Chester (Sealand)	13·1	+10	ESE	1	F	30	92	28	0	-	-	-	10	10	<150	5	*	51	29	20	-	-	3·9
Manchester	13·0	+6	-	0	F	35	97	35	0	-	-	-	10	10	<150	1	*	47	31	26	0·1	-	*
Spurn Head	11·8	-6	NE'E	3	ror_0	46	85	42	7	8	-	-	10	10	1500	1	3	48	45	*	2	3	0·0
Catterick	13·5	+6	NW	2	rf	43	97	42	3	5	2	-	9	10	1500	1	*	46	42	41	1	1	0·0
Tynemouth	14·1	+6	NNW	3	c-bc	42	85	38	6	8	-	-	7-8	7-8	2500	1	3	47	42	39	-	-	*
St. Abbs Head	13·1	+4	WNW	2	z_0	41	97	39	5	5	-	-	9+	9+	3000	0	2	44	40	*	-	-	*
Leuchars	13·9	+4	-	0	c-bc	31	97	31	8	-	3	-	0	7-8	-	3	*	46	29	21	-	-	4·8
Renfrew (Abbots I.)	14·2	+4	-	0	F	30	97	29	0	-	-	-	10	10	<150	3	*	30	25	25	-	-	0·0
Eskdalemuir	14·0	+2	NNE	1	ror_0	37	85	33	6	-	2	-	10	10	1100	1	*	43	37	36	-	4	0·0
Point of Ayre	13·3	+10	NE	3	c	45	85	40	7	5	2	-	7-8	10	2000	1	3	49	41	*	4	23	0·0
Tiree	14·6	+6	ENE	1	c-bcjp	39	85	36	9	3	4	1	4-6	7-8	2000	1	1	50	35	*	1	1	4·4
Stornoway	14·5	-2	-	0	bc	35	97	34	8	8	-	-	4-6	4-6	4000	1		48	34	24	Tr	-	5·4
Dalwhinnie	14·2	+2	-	0	b	18	85	14	8	5	-	8	Tr	1	4000	3	*	42	18	10	-	-	3·2
Aberdeen †	13·9	+2	W'S	2	z_0	31	85	29	6	-	3	8	0	1	-	3	1	47	30	23	-	-	7·1
Wick	12·5	+2	W'S	2	c-bc	38	85	34	9	5	7	-	2-3	7-8	2500	1	*	46	34	30	Tr	0·5	*
Sumburgh	10·4	+2	NNE	3	c	47	92	45	9	5	2	-	9	10	1500	1	2	49	45	38	-	Tr	4·4
Blacksod Point	16·5	+10	-	0	bc/pr	39	92	37	7	6	-	-	4-6	4-6	2500	1	1	50	35	*	-	0·2	*
Malin Head	14·2	+4	N	3	bc	45	75	38	8	2	-	-	4-6	4-6	2500	1	2	47	36		-	0·1	1·8
Aldergrove	15·4	+12	-	0	fg	32	97	31	4	5	3	-	Tr	1	4000	1	*	42	31	23	-	4	2·9
Birr Castle	15·6	+14	NNW	1	b-bc	30	97	29	7	-	4	-	0	2-3	-	1	*	45	30	25	0·6	0·1	1·2
Valentia Obsy.	16·5	+10	-	0	b	28	92	26	9	1	-	-	Tr	Tr	2500	3	2	47	28	23	Tr	Tr	5·7
Roches Point	15·3	+14	N	4	bc	39	92	37	8	5	-	-	4-6	4-6	2500	1	3	48	39	*	-	Tr	*

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
100	73	01864	27284	80	01853	24314	53	01763	22414	36	10854	22384
115	57	25844	20286	52	02844	24286	54	81844	20287	87	02844	28436
203							5-	61948	16308			
206	13	01963	26223	43	01864	24114	50	01853	24313	53	01863	22214
210	10	01952	22303	57	02963	21216	5-	25863	21383	06	01990	21313
220										20	01854	00014
230	70	01962	30192	70	02961	00001	50	01951	00001	83	05761	08105
245	14	01961	22203	03	01990	24102	54	05661	22201	57	01961	22204
260	03	08490	00046	--	46209	00049	--	48209	00049	--	61109	00069
278	87	05657	31147	5-	61658	03328	57	02766	00067	57	02867	04168
279	57	05227	12342	57	61446	04268	5-	22568	04368	57	05654	02127
285	5-	22748	06128	5-	61628	16128				5-	61628	24168
288	57	08455	01328	52	05564	04268	52	62444	08268	52	47265	26168
575	15	01862	00044	43	01853	00015	03	08790	00012	23	09751	00011
301	42	61455	04168	01	47390	00065	03	47190	08143	03	47190	04143
321	5-	62424	28168	52	47344	00058	62	67335	00068	62	64524	30268
299	57	02754	32215	8-	02757	04227	50	02755	08215	8-	02757	06327
292	52	61566	29168	52	62355	00068	57	62455	00068	62	6444	00068
310	--	02628	24348							--	42109	32329
614	5-	43367	24167	--	48009	00049	5-	43328	00048	5-	62638	02168

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	53	22863	00026	53	02764	02127	52	62766	00068	52	62664	28168
334				--	01762	01013				--	05453	00016
340	14	01761	16113	53	08463	06114	--	46109	00049	--	44209	01149
136	5-	62428	26268	5-	05567	32167	02	64658	06268	52	64647	02368
336	53	01753	32314							50	02754	04216
350	17	01761	24224	00	05590	02113	02	67258	01148	02	62758	30258
368	53	05555	08318	57	05563	08228	5-	05678	00028	54	05675	00015
379	00	02790	22115	03	02790	04114	57	05644	04325	57	48306	30347
390	50	05673	24224	03	08490	00014	5-	47367	00048	50	62558	28168
382	07	05690	00013	07	08490	00024	07	05590	28226	01	47390	27248
438	03	05690	26215	5-	03648	04218	5-	22648	02568	87	02636	24358
430	03	01790	06115	67	05690	04327	5-	62448	02268	52	05555	30328
409	89	22754	07267	53	02755	08327	50	01754	08214	84	02854	28165

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 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
Kew *	bmcz_0	ybcfw	bcfofofbc
Croydon	bcmbz_0y	bczyczyf	cfofcmb
Greenwich	bbc ⊕	mbcmf	offcrrm
Camden Square	o	c	*
*Kensington	bcz	bbc	*
Hampstead	bc	bc	ofr

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 1·5 Time 13h 2nd
Min. 0·1 Time 3h 3rd.

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	39	28	Tr	3	4·8	*	*
Croydon	52	41	36	-	4	6·5	*	*
Greenwich	50	42	29	-	3	5·7	61	92
Westminster	50	38	34	3			75	98
Regents Park	*	38	31	Tr	2		70	96
Camden Square	49	38	30	-	3	*	*	92
Kensington	49	36	25	-	3		93	93
Hampstead	48	39	31	-	3		*	97

SECRET

Page 1 BRITISH SECTION

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

Wednesday 4th November 1942

No. 29567

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)	14·3	+12	NW'N	3	zo	49	65	40	6	8	-	6	7-8	9+	4000
	Croydon	14·1	+10	NW	2	zo	49	75	42	5	5	4	3	7-8	9	1800
	S. Farnborough	14·4	+10	NW	2	zo	49	75	41	6	7	-	-	4-6	4-6	1600
	Boscombe Down	15·0	+4	WNW	1	zo	49	75	41	5	-	-	3	0	1	-
	Thorney Island	14·6	+10	W'S	2	zo	51	75	44	6	1	5	-	1	4-6	3500
	Lympne	12·3	+22	WNW	4	o	47	85	43	7	5	-	-	10	10	1500
	Manston	11·2	+22	NW'W	4	pt	48	92	46	6	2	-	-	9+	10	900
2	Shoeburyness	12·6	+18	NNW	3	tt	48	97	46	6	6	2	-	4-6	10	1500
	Felixstowe	11·4	+22	NW	4	toto	47	92	45	6	5	2	-	10	10	1500
	Gorleston	10·6	+14	NNE	5	toto	48	85	45	6	6	-	-	10	10	800
	Mildenhall	12·8	+16	NW	4	toto	46	97	45	6	6	2	-	9+	10	700
	Cranwell	13·8	+4	NW	3	e/t	46	92	44	6	5	2	-	2-3	10	3000
3	Birmingham	14·8	+6	NNW	2	c-bcf	45	85	41	3	5	3	-	4-6	7-8	2500
	Upper Heyford	14·0	+6	NW	1	m	46	85	41	4	5	-	-	9+	9+	2000
4	Ross-on-Wye	14·5	0	SSW	1	zo	46	75	39	6	5	4	-	4-6	4-6	4000
5	Hartland Point	14·5	+6	N	2	c-bc	49	75	40	8	2	6	-	4-6	7-8	1700
	Bristol	15·4	+2	-	0	zo	49	65	38	6	5	-	-	9+	9+	5700
	Portland Bill	15·2	+8	WSW	3	tt	47	92	45	7	5	-	-	10	10	2500
	Plymouth	15·1	+6	W'N	2	c-bc	53	65	43	8	7	-	-	7-8	7-8	3500
	The Lizard	14·7	+8	W	3	bc	52	85	46	8	8	6	-	4-6	4-6	2000
	Scilly (St. Mary's)	15·5	+4	NW	2	b-bc	52	65	48	8	8	-	-	2-3	2-3	1500
	Guernsey															
6	Pembroke	14·7	+2	NW	3	c-bc	49	85	44	8	8	6	-	4-6	7-8	5000
7	Holyhead (Valley)	15·0	+8	NNW	1	c	47	75	41	7	-	3	-	0	9+	-
	Chester (Sealand)	14·8	+4	SW	1	c	42	85	38	4	5	3	6	2-3	9	3000
8	Manchester	14·8	+6	-	0	oF-	42	97	41	3	5	-	-	10	10	1000
10	Spurn Head	13·7	+10	NNE	4	c-bc	49	75	40	7	1	1	-	4-6	7-8	1500
	Catterick	15·3	+4	NW	1	c/t	45	85	42	5	5	2	-	4-6	10	1700
	Tynemouth	15·6	+4	N	3	c-bc	46	85	42	6	5	-	-	7-8	7-8	2800
11	St. Abbs Head	14·8	0	WNW	2	zo	42	85	37	5	5	-	-	9+	9+	3800
	Leuchars	15·3	+2	WSW	2	c	39	85	35	7	-	7	-	0	9+	-
12	Renfrew (Abbots I.)	15·8	0	-	0	Ft	29	97	29	0	-	-	-	10	10	<150
	Eskdalemuir	15·4	0	-	0	ito	40	85	36	7	5	-	-	10	10	1800
	Point of Ayre	15·2	+4	NNE	1	bc	47	75	40	8	2	-	-	4-6	4-6	2500
13A	Tiree	15·6	0	S'W	1	bc/pt	51	55	37	9	3	6	8	2-3	4-6	3000
13B	Stornoway	15·2	0	WSW	2	bjp	48	65	36	9	2	3	1	Tr	Tr	3000
15	Dalwhinnie	15·2	+2	SSW	1	bc	43	65	33	8	7	-	-	4-6	4-6	4000
	Aberdeen	14·9	+6	W'N	2	b	44	65	34	7	8	-	2	Tr	1	4000
	Wick	13·2	0	WNW	3	bc	45	75	37	9	5	-	-	4-6	4-6	3500
16	Sumburgh	11·3	+2	NNE	2	id	47	97	47	7	5	7	-	9	9+	800
17	Blacksod Point	18·0	+2	W	1	c-bc	49	75	41	8	8	-	-	7-8	7-8	2500
18	Malin Head	15·6	+2	N	3	c	46	75	38	8	9	-	-	4-6	4-6	2500
	Aldergrove	16·3	-2	N'N	2	b	45	75	38	8	2	4	-	1	1	2800
19	Birr Castle	17·0	0	N	1	b-bc	47	75	39	8	5	-	-	2-3	2-3	2500
20	Valentia Obsy.	18·1	0	N	3	bc	49	55	34	9	1	-	4	Tr	4-6	2500
	Roches Point	17·2	+2	N	4	b-bc	46	75	38	8	1	3	-	Tr	2-3	4000

OBSERVATIONS at 18h. G.M.T. 3rd 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)	16·8	+18	NNW	1	zo	42	92	40	5	5	3	-	2-3	4-6	4000	1	*
	Croydon	16·6	+14	-	0	bft	43	85	39	2	4	-	-	Tr	Tr	4000	1	*
	S. Farnborough	16·6	+20	-	0	b-bcft	41	92	39	3	5	-	-	2-3	2-3	3000	1	*
	Boscombe Down	16·2	+8	-	0	b-bc	43	92	40	6	-	6	-	0	2-3	-	0	*
	Thorney Island	16·3	+10	-	0	m	47	85	44	4	5	-	-	7-8	9	3300	1	*
	Lympne	16·7	+24	WNW	2	zo	42	85	39	6	-	6	-	0	Tr	-	1	3
	Manston	16·0	+26	W'N	3	b-bc	46	85	43	6	2	-	-	2-3	2-3	1500	1	*
2	Shoeburyness	16·5	+20	WNW	2	bc	44	92	43	6	5	-	-	4-6	4-6	4000	1	*
	Felixstowe	15·2	+24	W'N	3	zo	47	92	42	6	5	7	-	4-6	7-8	2000	1	2
	Gorleston	14·6	+30	NW	2	toto	47	85	44	6	6	-	-	10	10	1000	1	
	Mildenhall	15·5	+18	WNW	3	dodo	48	97	45	4	5	-	-	10	10	500	*	*
	Cranwell	16·2	+10	NNW	2	toto	45	97	43	5	5	-	-	10	10	2500	1	*
3	Birmingham	16·5	+12	NNE	1	c-bcf	43	85	39	2	5	-	-	7-8	7-8	2500	1	*
	Upper Heyford	15·9	+12	-	0	m	40	85	37	4	-	3	-	0	4-6	-	1	*
4	Ross-on-Wye	16·1	+10	-	0	m	44	85	40	4	5	-	-	9+	9+	3500	1	*
5	Hartland Point	15·7	+10	NW	2	b-bc	49	75	40	8	2	6	1	7	2-3	2000	1	2
	Bristol	16·5	+6	-	0	cft	42	92	39	3	5	-	-	9	9	5700	1	*
	Portland Bill	15·2	+4	E	2	c-bc	50	92	48	8	5	7	-	4-6	7-8	2500	1	4
	Plymouth	16·3	+8	-	0	zo	44	85	41	5	-	-	-	0	0	-	1	1
	The Lizard	15·6	+6	N	1	bc	45	75	36	8	8	-	-	4-6	4-6	2500	1	3
	Scilly (St. Mary's)	16·4	+10	NNE	2	bc	46	75	39	8	8	4	-	2-3	4-6	1500	1	2
	Guernsey																	
6	Pembroke	16·1	+6	NE	2	c-bc	44	92	42	8	8	2	-	4-6	7-8	4000	1	2
7	Holyhead (Valley)	16·6	+10	NE'N	1	b-bc	40	97	39	6	8	7	-	1	2-3	4000	1	2
	Chester (Sealand)	16·3	+10	W'S	1	Ft	43	85	39	1	-	-	-	10	10	<150	1	*
8	Manchester	16·5	+14	-	0	oF	41	97	41	2	-	-	-	10	10	<150	1	*
10	Spurn Head	15·7	+12	N'E	3	c	48	85	44	7	1	1	-	4-6	10	1500	1	3
	Catterick	16·6	+10	-	0	o/t	44	92	42	3	-	-	-	10	10	<150	1	*
	Tynemouth	16·7	+8	NNW	2	zo	45	85	40	5	5	-	-	9+	9+	2500	1	2
11	St. Abbs Head	15·2	0	WNW	1	zo	43	85	38	5	5	-	-	9+	9+	2500	0	2
	Leuchars	15·8	+6	-	0	zo	35	97	34	6	-	3	-	0	7-8	-	1	*
12	Renfrew (Abbots I.)	16·4	+6	-	0	oF	26	97	25	0	-	-	-	10	10	<150	3	*
	Eskdalemuir	16·2	+6	-	0	c	39	85	36	6	5	3	-	4-6	9+	4000	1	*
	Point of Ayre	16·2	+8	W	1	b	40	75	34	8	4	-	-	Tr	Tr	2500	1	2
13A	Tiree	16·1	+6	SW'W	1	b-bcjp	39	85	35	9	8	6	3	1	2-3	3000		
13B	Stornoway	15·3	+2	-	0	b	37	92	35	9	8	-	-	Tr	Tr	3000	1	
15	Dalwhinnie	16·0	+4	-	0	c	33	85	30	8	5	-	-	9+	9+	2500	0	*
	Aberdeen	15·7	+8	NNW	1	fs	35	92	32	7	5	-	1	9	9	450	1	1
	Wick	14·3	+10	WNW	3	c-bc	43	85	38	9	8	-	-	7-8	7-8	2800	1	*
16	Sumburgh	12·1	+4	-	0	c	46	92	44	8	5	7	-	2-3	9+	3000		2
17	Blacksod Point	18·6	+4	W	1	bc	42	92	40	8	8	-	-	4-6	4-6	4000	1	1
18	Malin Head	16·3	+6	NW	3	bc	45	75	37	8	9	-	-	4-6	4-6	2500	1	2
	Aldergrove	17·2	+8	-	0	b	39	85	36	9	8	4	-	1	1	3000	0	*
19	Birr Castle	18·1	+8	NNW	1	b	35	92	33	7	-	-	-	0	0	-	1	*
20	Valentia Obsy.	18·9	+6	E	2	b	40	85	36	9	1	-	3	Tr	1	2500	2	1
	Roches Point	18·2	+14	N	3	b-bc	43	75	35	8	5	-	5	Tr	2-3	2500	1	3

PAST 24 HOURS.

District	Stations	Weather 7h.–13h. 3rd (39)	Weather 13h.–18h. 3rd (40)	Weather 18h. 3rd to 1h. 4th (41)	Weather 1h.–7h. 4th (42)
1	London (Kew)	rorocz	cbcm w	bfFFw	oFcFe w
	Croydon	cmrrcm	cm bf	cfbf	bfdfxoF
	S. Farnborough	citomm bcz	bcz bbcf	bcfbFcbcmFx	oFxe
	Boscombe Down	bbmbz	bzm bc	bm bcm	bcmbbcFx
	Thorney Island	cfg bcm	mororocm	cbcbw	bfwcm
	Lympne	cromc	cbccm	bmwFF	bff bcm
	Manston	roro	cprocirom	cmbcbm	bfe
2	Shoeburyness	otrctrm	ctrbc	bcmF	FeFe
	Felixstowe	cttrorom	cttocicmcm	cm	cmbcmcm
	Gorleston	ottoto	ctotoz	cirzo	cirz
	Mildenhall	crrm	crrdcgrcmddm	ocrmcm	cmcm of
	Cranwell	ctotmcmcm	cmcrrm	crcromir	bcFcf
3	Birmingham	Fcf	cf	cfF	FF
	Upper Heyford	cm	cmbcmcbm	bcmoF	bFw
4	Ross-on-Wye	cmbzbc	czcm	cmbfF	FFe
5	Hartland Point	cbcpc	cprobc	bcbbc	bcbbc
	Bristol	bcfgcm	cz bczbcf	cfbF	bFxoFe
	Portland Bill	ott	c	bcc	c
	Plymouth	cmbcm	bcbm	bm	bbcmxcfg
	The Lizard	bccbc	bc	bc	bcc
	Scilly (St. Mary's)	bc	bc	bc	bcc
	Guernsey				
6	Pembroke	c	c	cbw	bcmw
7	Holyhead (Valley)	mcm	cmc	bmx	bmfxy
	Chester (Sealand)	Fcm	Fcm	FF	FFf
8	Manchester	FF	FF	FF	FF
10	Spurn Head	c	c	cm	bcm
	Catterick	coito fm	citof	obcbf	cfjtx
	Tynemouth	cm	cm	cm	bcff
11	St. Abbs Head	cm	cmm	cmbcmcm	cmbcb
	Leuchars	cxrcms	cbcmcm	cmb	bcbcz
12	Renfrew (Abbots I.)	oFex	oFex	oFex	oFex
	Eskdalemuir	crocito	cirocm	bcbm	bbcfx
	Point of Ayre	cbc	bcb	b	bprby
13A	Tiree	xbcpry	bcy vpr	bcproc	cbcc
13B	Stornoway	b	b	bzbbx	bbc
15	Dalwhinnie	bbc	bc	*	c,b
	Aberdeen	mbc	z	bffmx	bmmx
	Wick	cbc	bc	bc	bc
16	Sumburgh	cdid	cididc	cidc	ecid
17	Blacksod Point	b	pr	b	bc
18	Malin Head	pr	pr	pr	bc
	Aldergrove	fcbbcbxmmb	bbcb	bbx	bxm
19	Birr Castle	b	b	*	f
20	Valentia Obsy.	bc	b	b	bc
	Roches Point	bc	bc	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 4th November 1942.

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:

Light variable winds becoming Southeast light or moderate; mainly fair; local instability rains chiefly near coasts; fog night and morning; rather cold, night frost.

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 variable winds becoming South moderate; fair at first; rain later; becoming milder.

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

As 11 - 20.

GENERAL INFERENCE

A feeble ridge of high pressure over England and Wales is decreasing in intensity and moving South. A trough of low pressure is approaching Scotland and Ireland from the Atlantic. The weather will be fair at first apart from fairly general fog but rain will occur later in Ireland and Scotland.

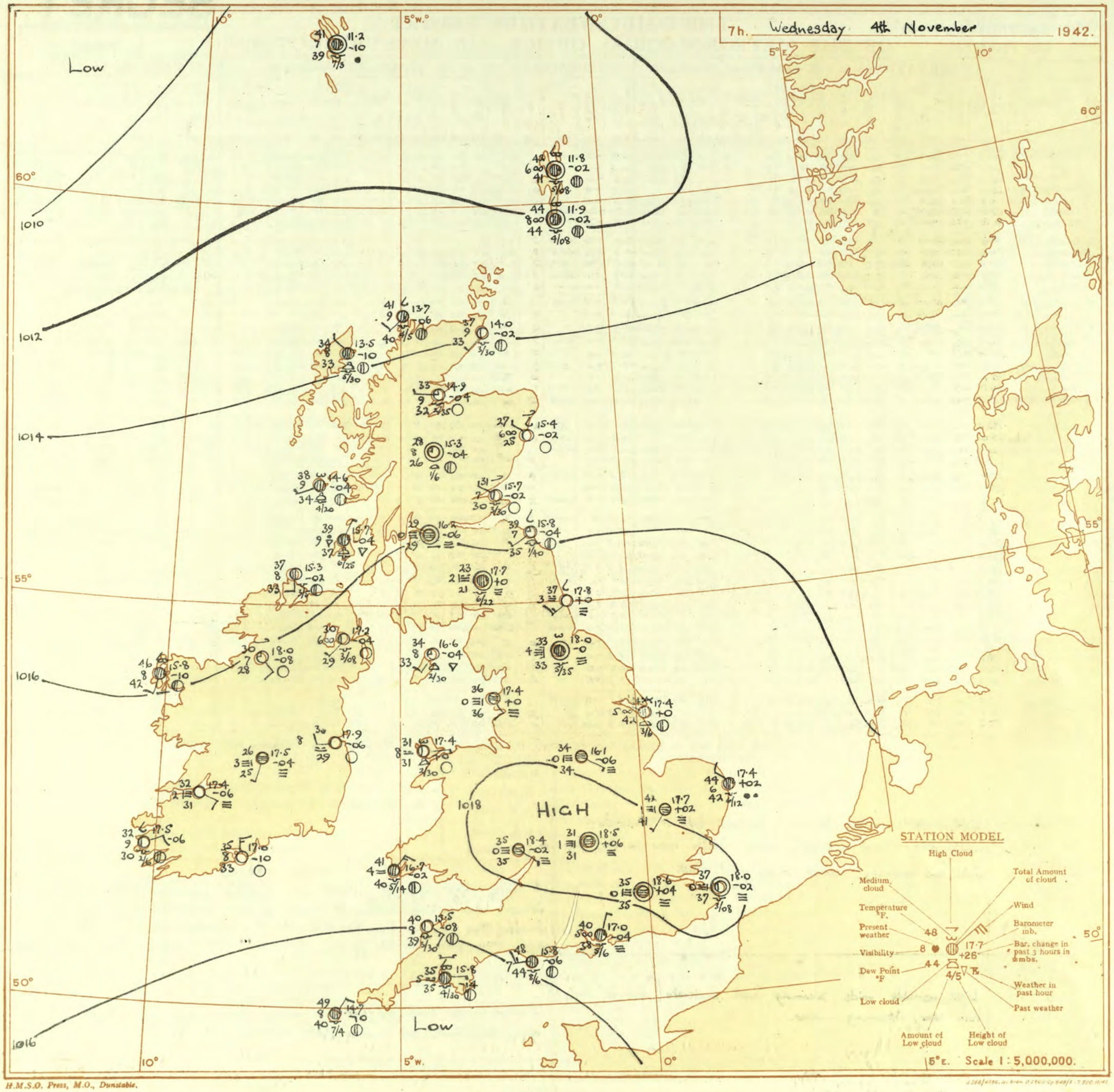
FURTHER OUTLOOK

Doubtful in the South and East but probably further local fog and possibly local rain. Occasional rain in the North and West.

Forecasts issued at 10·30

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

7h. Wednesday 4th November 1942.



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

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

Explanation of Frontal Lines shown on Charts

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

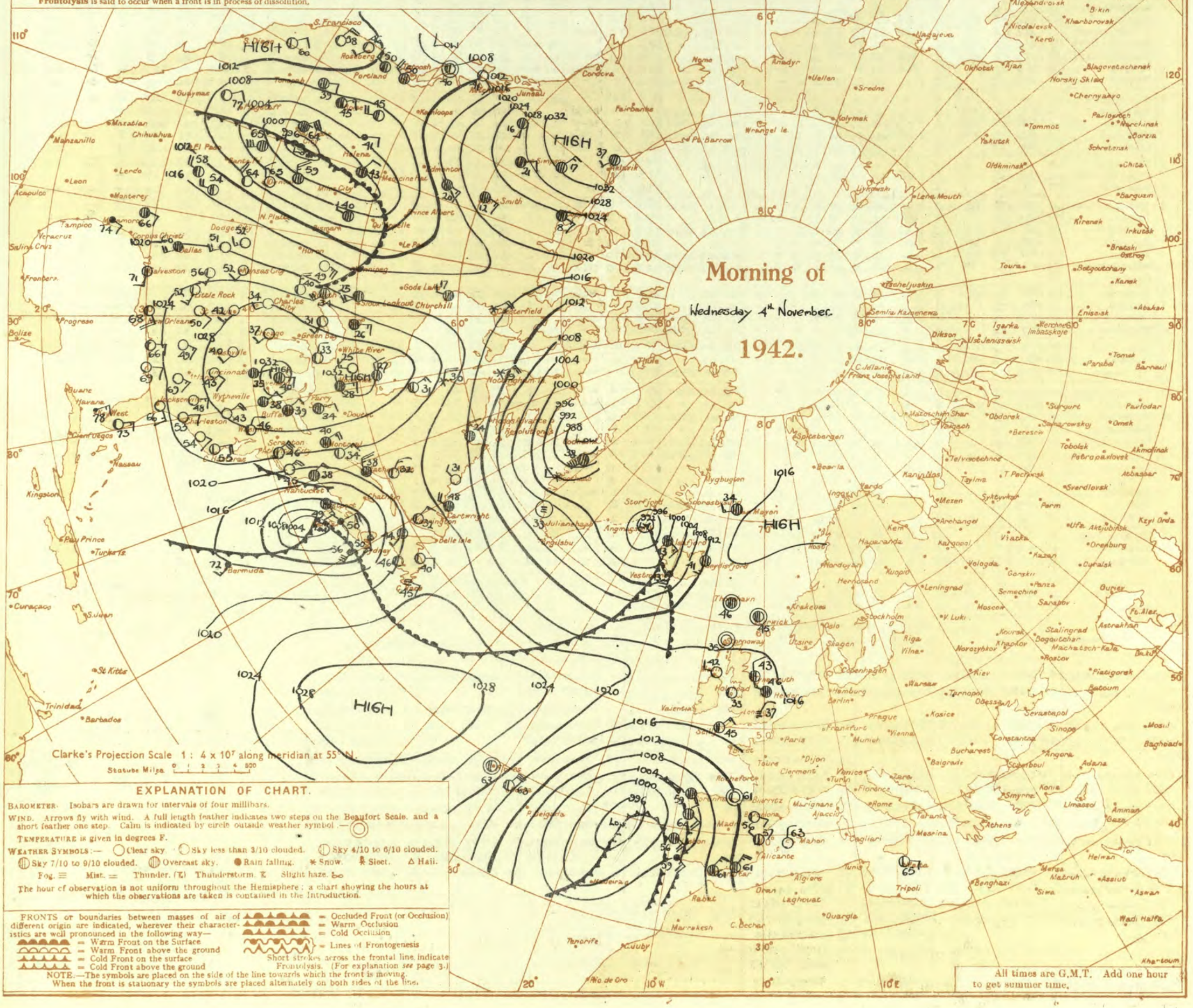
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

Page 4.

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

Wednesday 4th November 1942

No. 29567

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

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	18.4	+2	NNE	1	bf	37	97	37	3	-	-	-	0	0	-
	S. Farnborough	226	18.3	+2	-	0	F+	33	97	33	0	-	-	-	10	10	<150
	Boscombe Down	417	17.6	-2	E'S	1	m	38	97	37	4	-	-	1	0	2-3	-
	Thorney Island	10	17.5	+2	NNE	2	b·f	37	97	37	3	-	-	-	0	0	-
	Lympne	283	18.3	+2	-	0	bf-	40	97	40	2	-	-	-	0	0	-
	Manston	154	19.9	+18	-	0	m	38	92	38	4	5	-	9	Tr	Tr	1000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	17.3	+4	W'N	2	Zo	47	97	46	5	5	-	-	10	10	4000
	Gorleston	5	17.2	+8	WNW	6	o/r	45	92	43	6	6	-	-	10	10	800
	Mildenhall	15	17.8	+6	NNW	1	o/r	44	97	44	5	5	-	-	10	10	3800
	Cranwell	203	17.8	+2	-	0	cf+	43	97	42	3	5	2	-	2-3	10	500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	18.3	+6	N	1	bF+	31	97	31	1	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	16.9	+2	SE	2	b	44	85	39	8	4	-	-	1	1	2500
	Bristol	209	18.6	+2	-	0	bF+	32	97	32	0	0	0	0	0	0	-
	Portland Bill	32	16.8	+4	E	2	c-bc	48	85	44	8	5	-	-	7-8	7-8	1500
	Plymouth	82	17.7	0	ENE	1	m	35	92	34	4	-	-	-	0	0	-
	The Lizard	240	16.1	-4	NE'N	3	bc	43	85	38	8	8	-	-	4-6	4-6	2000
	Scilly (St. Mary's)	163	16.7	-4	NE	3	bc	45	75	38	8	8	3	-	4-6	4-6	1500
	Guernsey	175															
6	Pembroke	142	17.7	+4	E'N	3	b	41	97	41	8	-	-	-	0	0	-
7	Holyhead (Valley)	32	17.7	-2	-	0	Zo	33	97	33	6	-	4	-	0	Tr	-
	Chester (Sealand)	16	17.9	+2	SE	1	F+	30	97	29	0	-	-	-	10	10	<150
8	Manchester	235	18.2	+4	-	0	F	33	97	33	0	-	-	-	10	10	<150
10	Spurn Head	29	17.9	+6	WNW	3	Zo	46	85	42	6	5	2	-	4-6	10	1500
	Catterick	175	18.1	+2	NW	1	bf-	36	92	35	3	-	-	-	0	0	-
	Tynemouth	108	18.0	+2	NNW	2	Zo	43	92	41	5	5	-	-	9+	9+	2500
11	St. Abbs Head	280	16.0	+2	WSW	1	Zo	42	75	36	6	5	-	-	7-8	7-8	2500
	Leuchars	36	16.4	-4	WNW	2	b	32	97	31	8	-	-	-	0	0	-
12	Renfrew (Abbots I.)	19	17.2	-2	-	0	F	27	97	27	0	-	-	-	10	10	<150
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	17.3	+2	W	2	b-bc	35	92	34	8	4	-	-	2-3	2-3	3000
13A	Tiree	44	16.0	-4	-	0	c	41	92	39	9	9	-	-	9+	9+	2500
13B	Stornoway	15	15.4	-2	-	0	b	35	92	33	7	-	-	-	0	0	-
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	16.1	-2	-	0	b	30	92	27	8	-	8	-	0	0	-
	Wick	114	14.5	-4	-	0	c-bc	39	86	34	9	5	7	-	4-6	7-8	4500
16	Sumburgh	19	12.6	0	-	0	c	45	97	44	8	5	-	-	9	9	3000
17	Blacksod Point	18	18.1	-10	-	0	b	44	92	42	8	5	-	-	Tr	Tr	4000
18	Malin Head	84	16.3	-6	W	2	b-bc	42	85	38	8	9	-	-	2-3	2-3	2500
	Aldergrove	268	18.3	-2	S	1	b	29	97	29	6	-	-	-	0	0	-
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	19.1	-6	ENE	1	b	31	92	29	9	5	-	-	Tr	Tr	4000
	Roches Point	22	18.9	-4	N	3	b	37	92	35	8	5	-	-	Tr	Tr	2500

OBSERVATIONS at 7 hr. G.M.T November 4th — 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 3rd Hrs. (38)
London (Kew)	18.4	+2	-	0	F	38	97	38	1	-	-	-	10	10	<150	1	*	49	35	26	0.3	Tr	2.4
Croydon	18.6	+4	-	0	F+	35	97	35	0	-	-	-	10	10	<150	1	*	49	34	29	-	Tr	2.0
S. Farnborough	17.9	+2	NNE	1	F	33	97	33	0	-	-	-	10	10	<150	1	*	51	30	25	Tr	Tr	4.5
Boscombe Down	18.2	+2	-	0	c-bcF	28	97	28	1	-	-	6	0	7-8	-	1	*	50	26	25	-	Tr	5.2
Thorney Island	17.0	-4	NE'N	1	Zo	40	92	38	5	5	-	-	7-8	9	4000	1	*	51	36	29	0.1	Tr	*
Lympne	18.0	-2	NNE	1	bcf+	39	97	39	3	5	7	5	2-3	4-6	2200	1	2	50	36	27	2	Tr	3.4
Manston	17.6	-2	-	0	b-bcF	37	97	37	0	5	-	5	2-3	2-3	800	1	*	49	36	31	4	0.1	*
Shoeburyness	18.2	+4	-	0	F	40	97	40	1	-	-	-	10	10	<150	1	*	43	35	27	5	0.1	0.1
Felixstowe	17.5	+2	NW'W	1	Zo	43	92	41	6	5	7	-	7-8	9+	1200	1	1	48	42	35	10	-	0.0
Gorleston	17.4	+2	NW'N	2	c/r	44	92	42	6	5	-	-	9	9	1200	1	3	49	44	42	14	3	0.0
Mildenhall	17.7	+2	SW'W	1	F	42	97	41	1	-	-	-	10	10	<150	1	*	47	41	39	9	3	0.0
Cranwell	17.6	0	-	0	f-	40	97	40	3	-	7	-	0	9	-	1	*	46	39	33	3	1	0.0
Birmingham	18.2	+2	-	0	F	37	92	35	0	-	-	-	10	10	<150	1	*	46	33	24	-	Tr	0.0
Upper Heyford	18.5	+6	-	0	F+	31	97	31	1	-	-	-	10	10	<150	1	*	46	30	29	-	-	*
Ross-on-Wye	18.0	0	N	2	oF	35	97	34	1	5	-	-	10	10	<150	1	*	47	33	28	-	0.1	3.0
Hartland Point	15.5	-8	ESE	3	b-bc	40	92	39	8	4	-	-	2-3	2-3	3000	1	4	51	39	34	Tr	-	3.2
Bristol	18.4	-2	SE'E	1	F	35	97	35	0	-	-	-	10	10	<150	1	*	51	31	25	-	Tr	2.1
Portland Bill	15.8	-6	W	3	o	48	92	44	7	5	-	-	10	10	4000	1	4	50		*	3	-	*
Plymouth	15.8	-14	E	1	fs	35	97	35	5	5	7	7	4-6	10	3000	1	1	55	33	25	1	-	4.9
The Lizard	14.6	-10	NE	3	c	46	92	44	8	8	2	-	7-8	9+	1500	0	3	53	42	*	-	-	7.3
Scilly (St. Mary's)	14.7	-10	NE'E	2	c	49	75	40	8	5	-	-	9+	9+	1500	1	3		44	*		-	8.7
Guernsey																							
Pembroke	16.7	-2	NE'E	3	m	41	97	40	4	5	-	-	7-8	7-8	400	1	2	51	38		Tr	-	4.3
Holyhead (Valley)	17.4	0	E	1	fs	31	97	31	8	2	3	-	1	2-3	3000	1		47	31	25	-	-	*
Chester (Sealand)	17.8	+2	SSE	1	F	30	97	29	1	-	-	-	10	10	<150	3	*	45	29	21	-	0.1	0.0
Manchester	18.0	0	-	0	F	33	97	33	1	-	-	-	10	10	<150	1	*	42	32	31	-	-	*
Spurn Head	17.4	0	WNW	2	Zo	44	92	42	5	1	6	-	2-3	4-6	4000	0	3	49	42		2	0.4	0.1
Catterick	18.0	0	-	0	m/f	33	97	33	4	5	3	-	7-8	9	3500	1	*	45	31	24	0.2	Tr	0.0
Tynemouth	17.8	0	WSW	3	bcf	37	92	34	3	-	4	-	0	4-6	-	1	2	47	36	33	-	-	*
St. Abbs Head	15.8	-4	WSW	1	b	39	85	35	7	4	4	-	Tr	1	4000	0	2	43	36		-	-	
Leuchars	15.7	-2	WNW	1	b-bc	31	97	30	7	5	-	1	2-3	2-3	3000	3	*	43	29	23	-	-	0.5
Renfrew (Abbots I.)	16.2	-6	-	0	F	29	97	29	0	-	-	-	10	10	<150	3	*	31	24	23	-	-	0.0
Eskdalemuir	17.7	0	-	0	cf-	23	92	21	2	5	-	-	9	9	2200	3	*	42	22	18	Tr	-	0.5
Point of Ayre	16.6	-4	SW'W	2	b	34	97	33	8	2	-	-	1	1	3000	1	2	47	33	*	-	0.6	4.3
Tiree	14.6	-4	WSW	1	c-bc	38	85	34	9	8	3	-	4-6	7-8	2000	1	1		37	*	0.4	0.6	5.6
Stornoway	13.5	-10	NW	1	c-bc	34	97	33	8	8	-	-	7-8	7-8	3000	1		49	31	20	-	-	8.0
Dalwhinnie	15.3	-4	-	0	b	28	85	26	8	1	-	-	Tr	Tr	4000	3	*	45	27	16	-	-	5.7
Aberdeen †	15.4	-2	NW'W	1	Zq	27	92	25	6	-	4	1	0	1	-	3	1	46	26	21	-	-	5.7
Wick	14.0	-2	SW	1	b-bc	37	85	33	9	5	-	-	2-3	2-3	3000	0	*	43	35	31	-	[illegible]	*
Sumburgh	11.9	-2	-	0	Zo	44	97	44	8	5	7	-	4-6	10	800	1	2	48		39	0.6		0.0
Blacksod Point	15.8	-10	SW	2	c	46	85	42	8	-	7	-	9	9	<150	1	1	50	37	*	1	0.1	*
Malin Head	15.3	-2	S	2	bc	57	85	33	8	5	-	2	2-3	4-6	2500	1	2	47	36		1	0.5	3.4
Aldergrove	17.2	+4	SW	1	Zo	30	97	29	6	5	-	-	2-3	2-3	800	3	*	42	27	20	-	Tr	7.3
Birr Castle	17.5	-4	SSW	1	f+	26	97	25	3	-	-	-	10	10	<150	1	*	49	24	19	-	-	4.8
Valentia Obsy.	17.5	-6	E'N	2	b-bc	32	92	30	9	5	4	1	1	2-3	4000	3	2	50	29	25	Tr	Tr	8.2
Roches Point	17.0	-10	N	3	b	35	92	33	8	-	-	-	0	0	-	1	3	49	34	*	-	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 3rd November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 4th November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	83	02864	25386	5-	02766	23226	62	51775	24326	53	02855	22325
115	14	02944	20426	52	02944	20426	54	02944	20325	04	05690	27101
203												
206	14	01862	24312	5-	02966	00026	00	00890	24110	60	01962	24102
210	56	01962	22303	53	01951	21213	00	00990	20200	03	01990	20112
220										50	02756	00016
230	80	01962	00012	30	05963	00013	5-	02855	1415	9-	10857	00027
245	57	01961	2333	07	01990	25201	04	05690	22101	04	01890	25101
260	--	08409	00068	00	47090	00040	00	45090	24140	50	05663	00023
278	83	01951	29321	47	17664	1415	50	01652	00012	8-	02855	14265
279	77	05663	04124	53	05664	29125	5-	08448	3018	--	46109	07249
285				5-	03748	20228						
288	57	08454	02218	57	45355	25248	04	47290	18263	03	41490	18242
575	10	01862	00002	50	01851	00011	50	09743	16103	00	01790	14201
301	2-	02766	10247	07	08490	00028	03	45390	08144	--	48009	14249
321	57	22634	29268	07	47390	00058	5-	45366	20146	00	48009	00049
299							50	05654	26114	57	05654	24114
292				07	47390	00068	02	08490	00048	00	47190	00040
310	--	62428	16328	--	02528	16328				--	01633	24313
614	52	62467	30268	5-	62448	00068	52	47347	00048	--	47009	12149

III	13h. G.M.T. 3rd November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 4th November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	53	02864	32168	5-	01564	32224	00	05690	26100	00	04890	31100
334	--	05554	04126	--	04347	00028				--	04209	00028
340	5-	08463	02146	--	48009	28149	--	46109	14149	--	46109	10149
136	52	62745	02368	52	62644	03168	52	62515	22168	53	02776	26167
336	13	02753	08216	57	02754	04328				--	46009	04249
350	27	61744	30267	53	05666	00067	00	47180	18235	00	45190	00040
368	63	22554	08165	03	05690	00011	00	05690	24100	00	48509	00009
372	5-	41435	28343	5-	08457	01117	00	08490	02110	00	47190	08140
390				5-	05544	00068	00	47390	00040	--	48109	00049
382	8-	05655	28225	00	47390	00000	00	47090	00040	--	44009	00049
438	86	02644	62427	54	02645	24226	5-	05547	32327	5-	03648	02318
430				5-	41465	24148	50	05563	02103	57	05564	08127
409	37	01963	2624	20	01862	30112	04	01890	06100	57	01863	08214

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 4th Nov.
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 *	iroroCZo	docmow	bfFFw
Croydon	cmrrcmo	cmobf	cfbfdfcof
Greenwich	rocmo	cmom	bfwcffe
Camden Square	c	c	*
*Kensington	crbc	c	*
Hampstead	orbc	bc	of

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 1.2 Time 21-23h 3rd
Min. 0.1 Time 11-13h 3rd.

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs (Yesterday)	Humidity 15h % (Yesterday)	Humidity 9h % To-day
Kew	49	35	26	0.3	Tr	2.4	*	*
Croydon	49	34	29	-	Tr	2.0	*	*
Greenwich	49	35	28	0.3	Tr	0.8	76	99
Westminster	51	36	31	0.1			82	98
Regents Park								
Camden Square	50	35	29	Tr	-	*	*	98
Kensington	50	35	23	Tr	Tr		83	98
Hampstead	49	32	27	0.2	-		*	99

SECRET

BRITISH SECTION

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

Thursday 5th November 1942

No. 25568

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)	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)	16·3	-14	NE'N	2	F	38	97	37	1	-	-	-	10	10	<150
	Croydon	17·4	-10	-	0	F	40	97	40	3	-	-	-	10	10	<150
	S. Farnborough	16·3	-18	NE	1	oF	41	97	40	1	5	-	-	10	10	200
	Boscombe Down	16·3	-12	NE'E	3	z$_0$	42	92	39	5	5	-	-	10	10	2500
	Thorney Island	15·4	-14	NE	3	z$_0$	47	85	41	5	5	7	-	2-3	10	4000
	Lympne	16·2	-14	N'E	1	c/r	44	97	44	6	5	7	-	4-6	10	4200
	Manston	16·3	-14	NNE	1	z$_0$	47	85	44	6	5	2	-	9	9	2100
2	Shoeburyness	17·4	-8	NNE	1	c	44	92	42	7	5	7	5	4-6	9	2500
	Felixstowe	16·6	-8	SSE	1	c	46	85	42	7	5	-	2	9	9+	1600
	Gorleston	16·7	-10	-	0	z$_0$	49	85	45	6	5	-	9	7-8	9	1600
	Mildenhall	16·6	-10	-	0	c-bc	45	92	43	7	8	4	-	7-8	7-8	2000
	Cranwell	15·5	-10	W	1	c/f	43	97	43	4	5	-	-	9	9	7200
3	Birmingham	16·3	-10	SE	1	F	39	97	39	1	-	-	-	10	10	<150
	Upper Heyford	17·0	-14	S'E	1	F	37	97	37	1	-	-	-	10	10	<150
4	Ross-on-Wye	16·4	-12	NNE	2	oF-	36	97	36	1	5	-	-	10	10	<150
5	Hartland Point	13·6	-16	ENE	3	bc	45	97	44	7	1	3	2	Tr	4-6	2500
	Bristol	16·5	-18	SSE	1	F-	39	97	39	2	-	-	-	10	10	<150
	Portland Bill	14·1	-12	ENE	4	o	48	92	46	7	5	-	-	10	10	2500
	Plymouth	14·1	-14	SE	2	c/f	49	92	46	4	5	7	-	4-6	9+	4000
	The Lizard	12·4	-16	NE	3	c-bc/pr	51	85	47	8	8	6	-	7-8	7-8	2000
	Scilly (St. Mary's)	13·0	-18	NE'E	3	ir$_0$	49	97	41	8	5	2	-	7-8	10	1200
	Guernsey															
6	Pembroke	14·4	-8	SE'S	3	c	47	85	44	6	5	1	-	7-8	9	2000
7	Holyhead (Valley)	15·3	-8	E'S	2	bc	53	55	38	8	1	3	6	Tr	4-6	3000
	Chester (Sealand)	15·9	-16	ESE	2	F	35	92	33	1	-	-	-	10	10	<150
8	Manchester	16·5	-14	S'E	3	F	37	97	37	1	-	-	-	10	10	<150
10	Spurn Head	16·6	-8	S	1	bc	48	75	41	5	7	-	-	4-6	4-6	2800
	Catterick	16·2	-12	SSE	2	z$_0$	46	75	39	0	2	3	-	2-3	2-3	2800
	Tynemouth	16·7	-8	W	2	b-bc/f	45	65	35	6	-	4	-	0	2-3	-
11	St. Abbs Head	14·1	-12	SW	3	bc	44	75	37	7	5	4	-	2-3	4-6	4000
	Leuchars	13·5	-14	WSW	2	z$_0$	40	92	38	5	5	7	-	7-8	9+	3000
12	Renfrew (Abbots I.)	13·9	-16	-	0	bcf-	37	85	32	2	-	3	-	0	4-6	-
	Eskdalemuir	14·8	-10	S	2	c-bc	41	85	37	6	8	-	-	7-8	7-8	1800
	Point of Ayre	15·0	-4	S'W	2	bc	49	75	40	8	2	-	5	2-3	4-6	2500
13A	Tiree	11·6	-14	SSW	4	c/r	47	75	40	8	8	3	-	4-6	9+	2500
13B	Stornoway	10·2	-20	SSW	3	c	47	75	39	8	8	7	6	4-6	9	1700
15	Dalwhinnie	13·8	-10	SW	2	o	40	75	34	8	4	5	-	10	10	2500
	Aberdeen	13·1	-12	SSW	2	b	44	65	32	7	5	-	-	Tr	Tr	4000
	Wick	12·5	-14	SSW	1	bFs	48	65	38	9	2	-	-	1	1	4000
16	Sumburgh	11·0	-8	W	3	ir$_0$	47	92	45	9	5	7	-	9+	10	1500
17	Blacksod Point	12·5	-22	S	3	r$_0$r$_0$	49	92	47	7	6	-	-	10	10	1500
18	Malin Head	12·8	-18	S	3	c-bc	46	75	38	8	5	-	4	4-6	7-8	2500
	Aldergrove	14·7	-22	SW	2	bcjf	45	65	36	6	1	-	8	Tr	4-6	2500
19	*Birr Castle	15·0	-22	SE	1	c-bc	47	65	32	8	5	-	1	7-8	7-8	2500
20	Valentia Obsy.	14·5	-24	SSW	2	b-bc	49	65	38	9	1	5	3	Tr	2-3	4000
	Roches Point	14·5	-22	N	2	bc	47	75	39	8	-	-	5	0	4-6	-

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)	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)	14·2	-6	NE	2	oF	42	97	41	2	-	-	-	10	10	<150	1	*
Croydon	15·2	-6	-	0	F	42	97	41	1	-	-	-	10	10	<150	1	*
S. Farnborough	14·2	-4	ENE	1	F	39	97	39	1	-	-	-	10	10	<150	0	*
Boscombe Down	14·2	-8	ENE	3	m	41	92	39	4	5	-	-	10	10	3000	0	*
Thorney Island	13·6	-6	NE	2	z$_0$	43	92	41	5	5	7	-	4-6	4-6	4000	1	*
Lympne	14·1	-4	ENE	1	c/r	44	97	43	6	5	7	-	2-3	10	4500	1	3
Manston	14·1	-10	-	0	z$_0$	48	85	44	5	6	7	-	7-8	10	3500	1	*
Shoeburyness	15·6	-6	N'E	2	o	44	92	42	5	5	-	-	10	10	2500	1	*
Felixstowe	14·8	-2	NE	1	z$_0$	43	92	40	6	5	-	-	9+	9+	4000	1	
Gorleston	14·7	-12	NW	1	z$_0$	46	92	44	5	8	-	-	4-6	4-6	1500	1	2
Mildenhall	12·6	-6	NNW	2	bF+	39	92	37	3	4	-	-	Tr	Tr	4000	1	*
Cranwell	14·6	-4	-	0	cF+	42	92	39	2	-	7	-	0	9+	-	1	*
Birmingham	14·9	-6	ESE	1	oF-	36	97	35	0	-	-	-	10	10	<150	1	*
Upper Heyford	14·8	-10	ENE	1	F+	39	97	39	2	-	-	-	10	10	<150	1	*
Ross-on-Wye	14·3	-6	ENE	2	oF	36	97	36	1	5	-	-	10	10	<150	1	*
Hartland Point	11·5	-6	SE	3	c-bc	45	97	44	7	4	7	2	2-3	7-8	2000	1	2
Bristol	14·9	-4	-	0	ir	40	97	39	4	5	-	-	10	10	<150	1	*
Portland Bill	12·0	-4	ENE	3	o	49	92	47	7	5	-	-	10	10	2500	1	4
Plymouth	11·9	-6	ESE	2	m	46	97	45	4	5	7	2	2-3	9+	3500	1	2
The Lizard	10·2	-4	E	3	c	51	85	47	8	8	2	-	7-8	9+	1500	1	3
Scilly (St. Mary's)	10·6	-10	NE'E	2	c	50	92	48	7	8	7	-	7-8	10	1200	1	3
Guernsey																	
Pembroke	12·8	-10	NE'E	3	z$_0$	45	97	44	6	5	4	-	2-3	4-6	2500	1	2
Holyhead (Valley)	13·4	-6	-	0	b-bc	38	85	34	8	-	7	8	0	2-3	-	1	1
Chester (Sealand)	14·5	0	ESE	3	F	35	97	33	1	-	-	-	10	10	<150	1	*
Manchester	14·6	-4	S'E	5	F	38	97	38	0	-	-	-	10	10	<150	1	*
Spurn Head	14·7	-10	SSE	2	bc	47	75	40	6	7	-	-	4-6	4-6	2500	0	2
Catterick	14·9	-2	-	0	F+	33	97	33	0	-	-	-	10	10	<150	1	*
Tynemouth	15·5	-2	SSW	2	m	44	75	38	4	8	-	-	9+	9+	2500	1	2
St. Abbs Head	13·3	0	SE	2	b-bc	39	97	39	7	5	4	-	1	2-3	4000	0	2
Leuchars	12·4	-6	WSW	2	m	39	97	38	4	5	7	-	7-8	9	2200	1	*
Renfrew (Abbots I.)	12·2	-4	-	0	b-bcF+	37	92	36	3	8	-	-	2-3	2-3	2500	1	*
Eskdalemuir	13·5	-4	-	0	z$_0$	35	97	34	5	5	-	-	10	10	200	3	*
Point of Ayre	13·0	-6	SW'W	2	b	37	85	34	8	2	-	5	1	1	2500	0	1
Tiree	08·6	-14	SSW	5	ir	47	75	38	7	5	2	-	4-6	10	2000	1	4
Stornoway	06·7	-12	S	6	c/r	47	75	39	8	5	-	-	10	10	1200	1	
Dalwhinnie	11·0	-10	SSW	2	c	38	85	34	8	5	-	-	9	9	2500	0	*
Aberdeen	12·0	-4	SW	2	bF+	38	85	34	1	5	-	-	Tr	Tr	3500	1	1
Wick	10·3	-10	S'W	2	b-bc	42	75	36	9	5	-	9	2-3	2-3	3500	0	*
Sumburgh	10·3	-4	W'S	4	c	47	75	41	9	5	-	-	9+	9+	2500		
Blacksod Point	09·8	-10	SW'W	5	rr	47	92	45	7	6	2	-	4-6	10	1600	2	4
Malin Head	09·6	-10	S	4	r$_0$r$_0$	42	92	40	8	-	2	-	10	10	1600	1	2
Aldergrove	12·5	-6	S	1	b-bc	36	85	32	8	5	-	1	2-3	2-3	4500	1	*
*Birr Castle	12·3	-12	SE	2	c	39	85	35	7	5	-	-	9	9	2500	1	*
Valentia Obsy.	12·9	-6	S	2	c	43	85	39	9	-	7	-	0	9+	-	1	2
Roches Point	12·2	-8	N'W	1	bc	41	75	34	8	5	3	-	1	4-6	2500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 4th (39)	Weather 13h.—18h. 4th (40)	Weather 18h. 4th to 1h. 5th (41)	Weather 1h.—7h. 5th (42)
London (Kew)	oFeFw	oFir$_0$oF	oFw	oFir$_0$r$_0$
Croydon	oFeod	oFr$_0$oF	oF	Fr F
S. Farnborough	bcFe	oFedr$_0$oFe	oFidF	oFr$_0$r$_0$ F
Boscombe Down	cmcm$_0$	cir$_0$cm	cFcrFcF	oFecr$_0$r$_0$F
Thorney Island	cm$_0$	cm$_0$	cmir$_0$m$_0$	cm$_0$ir$_0$rr
Lympne	Fem$_0$ ir$_0$	cm$_0$ ir$_0$	cbwm$_0$F	cFom$_0$r$_0$r$_0$
Manston	bcFecm$_0$	cm$_0$	cbcm	cr$_0$m$_0$
Shoeburyness	Fecm$_0$	cm$_0$	cm$_0$	cir$_0$m$_0$
Felixstowe	bcm$_0$cm$_0$c	cbcm$_0$cm$_0$	cbccm$_0$	bm$_0$cm$_0$cm$_0$
Gorleston	cir$_0$z$_0$id$_0$	cbcz$_0$	bcbFFwiFe	cm$_0$ir
Mildenhall	Fem$_0$c	cm$_0$bcbF	bFbFcF	bbccFx
Cranwell	cFecF	bcm$_0$cF	cFoFF	oFF
Birmingham	FF	FFg	F	Fr$_0$
Upper Heyford	F		oF	oFcm$_0$m
Ross-on-Wye	FFe	FFe		oFFd
Hartland Point	bcc	bcc	c	cirm$_0$
Bristol	oFFe	Febcmcm	cmrroF	oFr$_0$r$_0$id$_0$
Portland Bill	o+r$_0$	co	opr	orr
Plymouth	Fgir$_0$F	cmjFbcm$_0$	cm	cr$_0$r$_0$m
The Lizard	cprc	c	bcc	cr$_0$rr
Scilly (St. Mary's)	cir$_0$	cir$_0$c	c	cp$_0$
Guernsey				
Pembroke	cm	cbcm$_0$	bcm$_0$w	cm
Holyhead (Valley)	Fgxb	bcb	bm$_0$wv	bcm$_0$x
Chester (Sealand)	FxFF	FF	FFe	FF
Manchester	FF	FF	FF	FF
Spurn Head	cm$_0$	bcm$_0$	cmF	F
Catterick	Fbmbcz$_0$	bcm$_0$bF	oFe	oFex
Tynemouth	bcFF	bcm	cbmcF	bcFF
St. Abbs Head	bbcz$_0$	bcebz$_0$b	bcbcb	bcm$_0$
Leuchars	bcxed+cm$_0$	cm$_0$bcm$_0$cm	cm$_0$bm$_0$w	bm$_0$x
Renfrew (Abbots I.)	oFex	cmbceF	bbcFw	bcFcm$_0$Fo
Eskdalemuir	cFbcmm$_0$	bcom$_0$	om$_0$m	omcFx
Point of Ayre	obc	cbeb	bbccw	cz$_0$
Tiree	br$_0$circ	cr$_0$cir	rr$_0$r$_0$rm$_0$	orrm$_0$
Stornoway	cbcc	cir$_0$c	cr$_0$r$_0$	cr$_0$r$_0$m$_0$c
Dalwhinnie	bo	occ	*	co
Aberdeen	bm$_0$xFFb	bFF	bFzx	bcczx
Wick	bc	bc	bcc	bcr$_0$c
Sumburgh	cr$_0$r$_0$,cir$_0$	cir$_0$id$_0$c	cprbc	bcbbc
Blacksod Point	pr	pr	r	c
Malin Head	bc	pr	r	r
Aldergrove	bxm$_0$cFbjFm$_0$	bcjFcbc	bcbbc	bccr$_0$r$_0$c
*Birr Castle	F	c	*	c
Valentia Obsy.	bc	bc	r	r
Roches Point	bc	bc	bc	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 5th November 1942.

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England; 9 N. Midlands; 10 N.E. England	Moderate North to Northeast wind fresh locally backing slowly and decreasing; dull; some rain; 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 South wind decreasing; cloudy; occasional rain; local fog; rather cold.
16 Orkneys and Shetlands	As 11-15
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	Variable winds freshening from South or Southeast later; rain at times; rather cold.

GENERAL INFERENCE

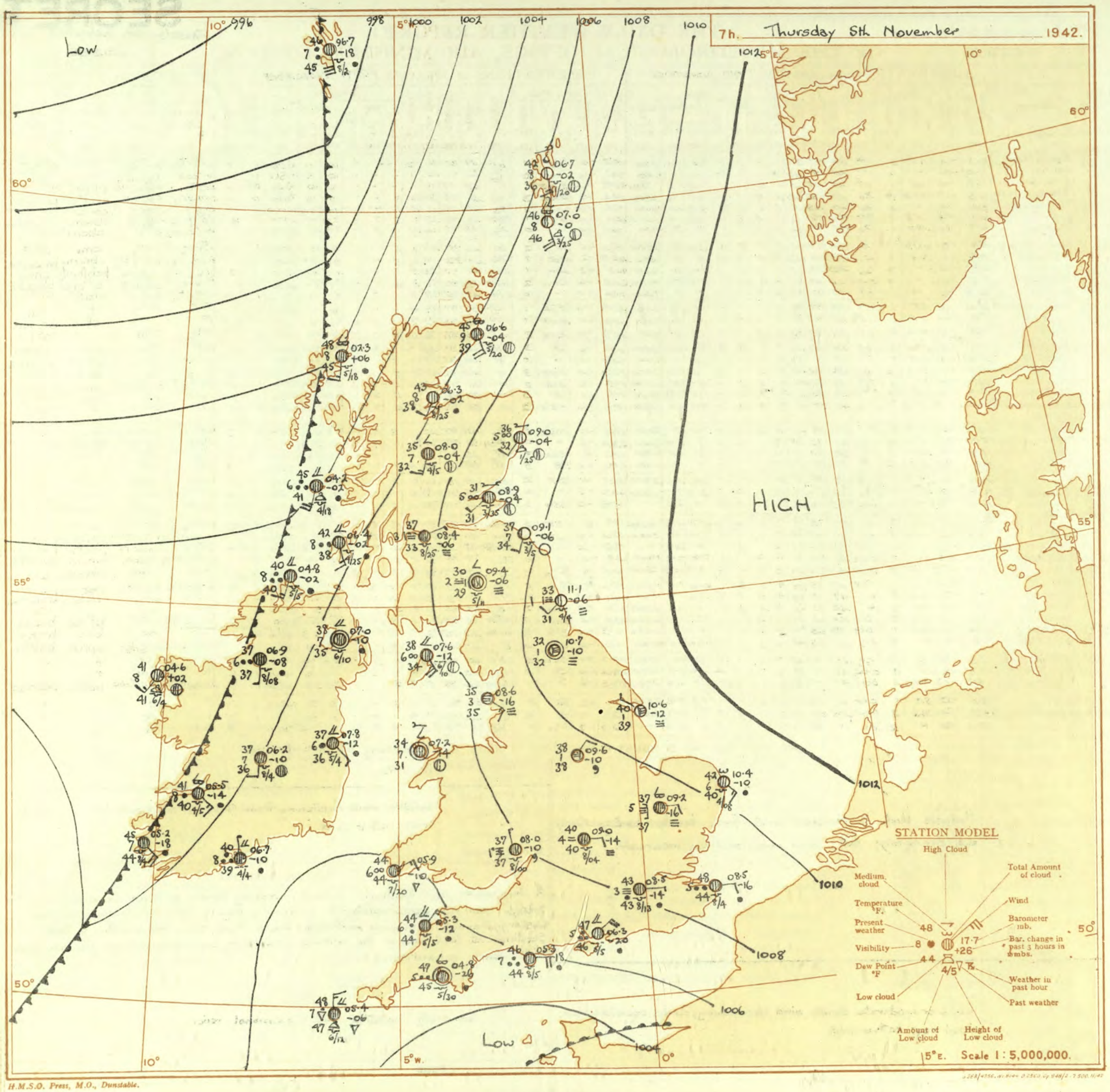
A depression over Northwest Iceland is moving slowly northeast and an associated trough over our western districts is moving slowly east. A depression in the Western Channel is moving northeast. Apart from some fair weather in East Scotland at first and in the extreme west later, conditions will be generally poor with fairly general rain.

FURTHER OUTLOOK

Generally unsettled with occasional rain.

Forecasts issued at 1030

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



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

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

Explanation of Frontal Lines shown on Charts

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

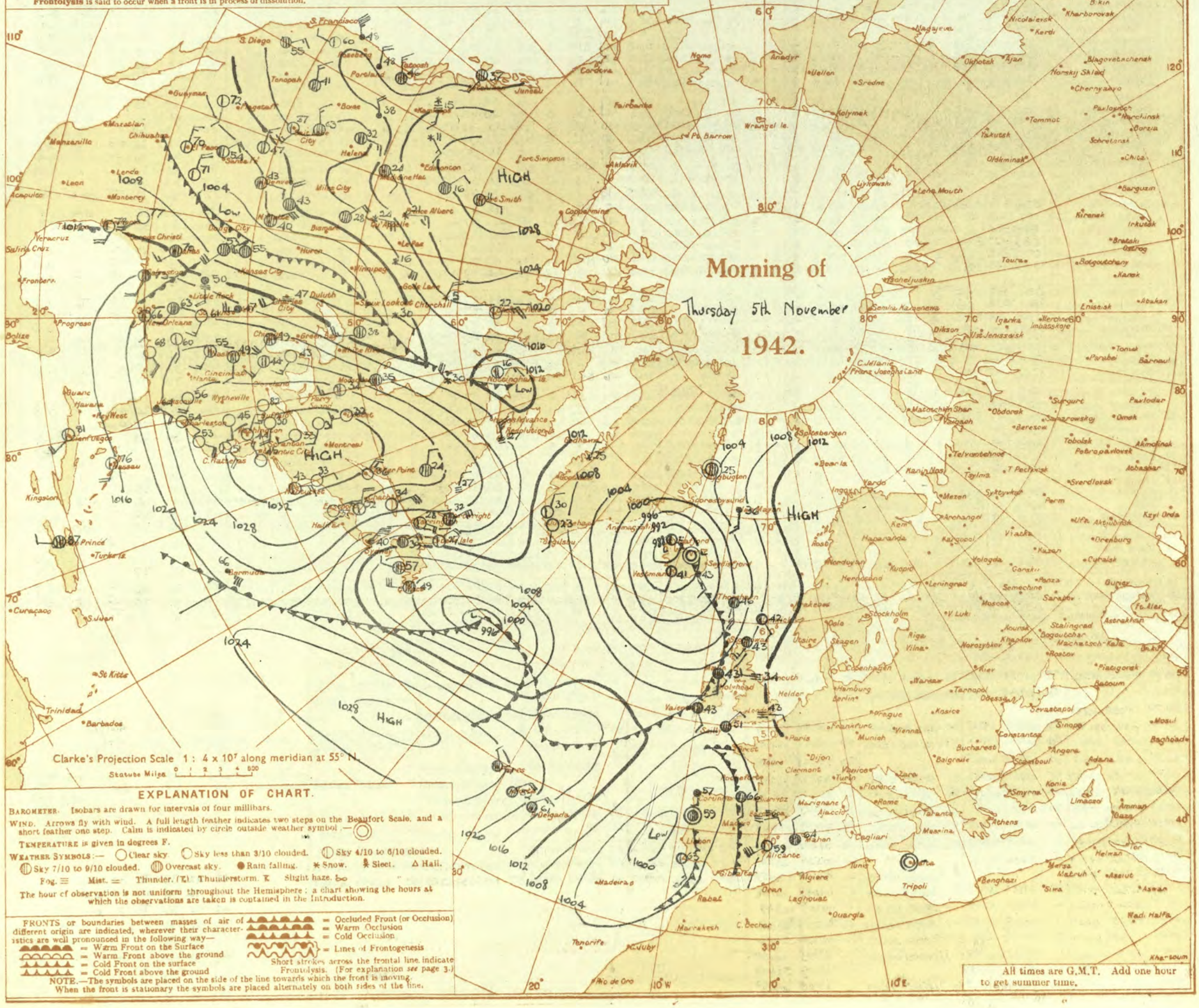
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

BRITISH SECTION

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

Thursday 5th November 1942

No. 29568

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	*	*	*	*	*	43	*	*	*	*	*	*	*	*	*
	Croydon ...	290	11·9	−18	E	1	f	43	97	43	2	–	–	–	10	10	<150
	S. Farnborough	226	10·3	−20	ENE	2	F–	42	97	42	1	–	–	–	10	10	<150
	Boscombe Down	417	11·0	−16	E'N	3	F–	41	97	41	1	–	–	–	10	10	<150
	Thorney Island	10	10·3	−18	ENE	2	o/f	47	97	46	6	5	–	–	10	10	3300
	Lympne ..	283	10·9	−20	ESE	2	cf–	43	97	43	3	5	–	–	9+	9+	1000
	Manston ...	154	12·9	−4	E	1	m	46	92	44	4	5	–	–	4-6	4-6	2200
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	13·0	−12	NNE	2	zo	45	85	42	5	5	–	–	10	10	4300
	Gorleston ...	5	13·0	−14	NW	1	if	37	92	35	3	5	–	–	4-6	4-6	800
	Mildenhall ...	15	12·2	−14	SE	2	oF–	34	97	34	1	5	–	–	10	10	2200
	Cranwell ...	203	12·2	−14	–	0	F	37	97	37	0	–	–	–	10	10	<150
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	12·4	−16	–	0	f	40	97	40	2	–	–	–	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	08·6	−16	ESE	2	c	43	97	43	6	4	7	–	2-3	9	2500
	Bristol ...	209	11·5	−18	E	1	F	40	97	38	1	5	–	–	10	10	<150
	Portland Bill ...	32	09·0	−24	E	4	pr	48	92	46	7	5	–	–	10	10	1500
	Plymouth ...	82	08·6	−22	ESE	2	m	46	97	46	4	5	1	–	7-8	10	5000
	The Lizard ...	240	07·7	−18	E	3	c	50	97	49	8	8	2	–	9	10	1000
	Scilly (St. Mary's)	163	07·9	−18	NE'E	2	c-bc	51	85	47	8	5	–	–	7-8	7-8	1500
	Guernsey ...	175															
6	Pembroke ...	142	09·6	−12	ENE	3	zo	40	97	39	6	5	–	–	2-3	2-3	2500
7	Holyhead (Valley)	32	10·1	−18	SE	1	zo	32	92	30	6	–	–	–	0	0	–
	Chester (Sealand)	16	12·0	−14	ESE	3	F–	36	97	35	1	–	–	–	10	10	<150
8	Manchester ...	235	12·5	−14	SE'S	2	F	36	97	36	1	–	–	–	10	10	<150
10	Spurn Head ...	29	12·3	−20	WNW	3	F+	45	85	40	1	–	–	–	10	10	<150
	Catterick ...	175	12·8	−14	–	0	F–	34	97	34	0	–	–	–	10	10	<150
	Tynemouth ...	108	12·9	−12	W	2	bf	34	97	34	2	–	–	–	0	0	–
11	St. Abbs Head	280	10·7	−16	SSW	3	b	37	97	36	7	5	–	–	1	1	2500
	Leuchars ...	36	10·2	−14	–	0	zo	31	97	31	6	–	–	–	0	0	–
12	Renfrew (Abbotsl.)	19	10·0	−12	ENE	1	bcf–	34	92	32	3	5	–	–	4-6	4-6	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	10·3	−14	S	4	zo	43	92	41	6	6	1	–	2-3	9	1000
13A	Tiree	44	05·0	−14	S	6	ro₁o	46	92	44	6	6	2	–	9	10	800
13B	Stornoway ...	15	03·1	−14	S	6	ro₁o	47	92	44	6	5	–	–	10	10	1000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	09.8	−10	S'W	2	b	36	92	34	7	–	–	–	0	0	–
	Wick ...	114	08·0	−6	SSW	3	c-bc	43	75	37	8	5	2	6	2-3	7-8	2500
16	Sumburgh ..	19	07·9	−12	S	4	b-bc	44	75	35	8	4	–	–	2-3	2-3	2500
17	Blacksod Point	18	05·7	−18	SW	4	rr	47	85	43	7	6	2	–	4-6	10	1500
18	Malin Head ...	84	06·1	−18	S'W	3	c	43	85	39	8	5	2	–	7-8	10	2500
	Aldergrove ...	268	08·5	−14	S'E	1	bc	36	85	33	7	5	–	–	4-6	4-6	3000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	08·7	−20	S'E	2	c	43	85	39	8	5	7	–	4-6	10	2500
	Roches Point	22	09·0	−18	N	3	c-bc	40	92	38	8	5	–	–	7-8	7-8	1500

OBSERVATIONS at 7 hr. G.M.T. 5th 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)	07·4	−16	NE	2	rf	44	97	43	2	–	–	–	10	10	<150	1	*
Croydon ...	08·5	−14	E	1	rf	43	97	43	3	5	–	–	10	10	1300	1	*
S. Farnborough	06·7	−20	ENE	2	rf	43	97	43	3	5	–	–	10	10	200	1	*
Boscombe Down	07·3	−14	ENE	3	rf	43	97	43	3	5	–	–	10	10	600	1	*
Thorney Island	06·3	−20	NE'E	4	rr	47	97	46	5	6	2	–	7-8	10	2500	1	*
Lympne ..	07·9	−16	ESE	2	ro₁o	47	97	46	6	6	2	–	10	10	2500	1	§ 4
Manston ...	08·5	−16	E	2	ro₁o	48	85	44	5	5	–	–	10	10	<500	1	*
Shoeburyness ...	09·3	−12	E'S	2	ir₀	48	92	46	5	6	2	–	10	10	3000	1	*
Felixstowe ...	10·2	−16	ESE	3	zo	50	85	44	6	5	7	–	2-3	10	2500	0	1
Gorleston ...	10·4	−10	SE	3	c-bc/f	42	92	42	6	5	3	–	4-6	7-8	800	1	
Mildenhall ...	09·2	−16	E	2	c/f	37	97	37	5	–	7	–	0	9+	–	1	*
Cranwell ...	09·6	−14	–	0	F	40	97	39	1	–	–	–	10	10	<150	1	*
Birmingham ...	08·5	−14	ENE	2	of	40	97	39	2	5	–	–	10	10	450	1	*
Upper Heyford	09·0	−14	E	2	m	40	97	40	4	5	–	–	10	10	400	1	*
Ross-on-Wye	08·0	−10	N	1	df	37	97	37	1	5	–	–	10	10	<150		*
Hartland Point	05·3	−12	NE	3	ir	44	97	44	6	5	2	–	7-8	10	2500	1	2
Bristol ...	07·7	−18	NW'N	1	df	41	97	40	1	–	–	–	10	10	<150	1	*
Portland Bill ...	05·3	−18	E	4	rr	46	92	44	7	5	–	–	10	10	2500	1	4
Plymouth ...	04·8	−26	–	0	ro₁o	47	97	45	5	5	7	–	7-8	10	3000	1	2
The Lizard ...	04·5	−10	NNE	4	rr	47	97	47	6	5	–	–	10	10	1000	1	3
Scilly (St. Mary's)	05·4	−6	N	3	pr	48	97	47	7	8	2	–	9	10	1200	0	2
Pembroke ...	05·9	−10	ENE	3	zo	44	97	44	6	5	–	–	9+	9+	2000	1	2
Holyhead (Valley)	07·2	−14	–	0	c-bc	34	85	31	7	–	4	5	0	7-8	–	1	1
Chester (Sealand)	08·9	−18	ESE	2	f	37	97	37	3	–	–	–	10	10	<150	1	*
Manchester ...	09·3	−16	NE	2	cf–	34	85	30	2	5	7	–	7-8	9	2500	1	*
Spurn Head ...	10·6	−12	NW'N	1	F+	40	92	39	1	–	–	–	10	10	<150	1	2
Catterick ...	10·7	−10	–	0	F+	32	97	30	1	–	–	–	10	10	<150	1	*
Tynemouth ...	11·1	−6	SW	2	bc F+	33	97	32	1	5	–	–	4-6	4-6	1500	1	2
St. Abbs Head	09·1	−6	SSW	2	b-bc	37	92	34	7	5	–	–	2-3	2-3	2500	0	3
Leuchars ...	08·9	−4	SW	1	zo	31	97	30	5	5	–	7	2-3	10	3500	3	*
Renfrew (Abbotsl.)	08·4	−6	ENE	1	of+	37	85	33	3	5	–	–	10	10	2500	1	*
Eskdalemuir ...	09·4	−6	–	0	c-bcf–	40	97	39	2	5	1	–	7-8	7-8	1100	3	*
Point of Ayre...	07·6	−12	S'E	5	zo	38	85	34	6	6	2	–	9	10	1000	0	4
Tiree	04·2	−2	S'W	5	rr	45	85	44	6	8	2	–	4-6	10	1800	1	5
Stornoway ...	02·3	+6	S	3	c	48	85	45	8	5	7	–	7-8	10	1800	1	
Dalwhinnie ...	08·0	−4	SSW	3	c	35	85	32	7	5	1	–	4-6	10	2500	0	*
Aberdeen † ...	09·0	−4	SW'S	2	zo	36	85	32	5	2	–	5	Tr	7-8	2500	1	2
Wick ...	06·6	−4	SSE	4	c	45	75	36	9	5	7	–	7-8	9	2000	0	*
Sumburgh ..	07·0	0	S'E	5	bc	46	65	36	8	2	7	6	2-3	4-6	2500	1	2
Blacksod Point	04·6	+2	SW	3	c	41	97	40	8	8	–	–	9	9	1500	2	2
Malin Head ...	04·8	−2	S'W	3	rr	40	97	39	8	5	2	–	7-8	10	2500	1	2
Aldergrove ...	07·0	−10	–	0	c/f	38	85	35	7	5	2	–	9	10	1000	1	*
Birr Castle ...	06·2	−10	S	2	c	37	92	35	7	5	–	–	10	10	1500	1	*
Valentia Obsy.	05·2	−18	SE'S	4	c/r	45	92	43	7	5	–	–	10	10	1500	1	3
Roches Point	06·7	−10	N	1	rr	40	92	38	8	6	2	–	4-6	9	1500	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 4th Hrs. (38)
London (Kew)	42	42	38	Tr	0·1	0·0
Croydon	42	42	41	0·1	0·3	0·0
S. Farnborough	41	39	31	Tr	0·2	0·9
Boscombe Down	44	38	38	0·1	2	0·0
Thorney Island	47	42	39	Tr	3	*
Lympne ..	45	40	37	0·1	1	0·0
Manston ...	48	43	37	–	Tr	
Shoeburyness ...	44	37	29	0·2	Tr	0·0
Felixstowe ...	49	41	36	–	0·2	3·6
Gorleston ...	50	35	33	1	2	0·7
Mildenhall ...	46	32	26	0·1	Tr	2·7
Cranwell ...	45	36	36	0·1	Tr	0·4
Birmingham ...	39	35	34	Tr	1	0·0
Upper Heyford	39	38	38	–	–	*
Ross-on-Wye	37	36	36	Tr	0·4	0·0
Hartland Point	49	42	40	–	0·4	2·7
Bristol ...	43	38	38	1	4	0·3
Portland Bill ...	50	44	*	0·2	5	*
Plymouth ...	52	43	37	Tr	1	1·0
The Lizard ...	52	46	*	Tr	6	0·2
Scilly (St. Mary's)	52	51	*	3	–	1·3
Pembroke ...	48	37	*	Tr	Tr	1·8
Holyhead (Valley)	54	31	23	–	–	*
Chester (Sealand)	36	34	34	–	–	0·0
Manchester ...	39	33	32	–	–	*
Spurn Head ...	49	38	*	–	–	1·4
Catterick ...	46	32	28	–	Tr	6·2
Tynemouth ...	46	32	31	–	–	*
St. Abbs Head	45	36	*	–	–	
Leuchars ...	43	30	20	0·2	–	0·5
Renfrew (Abbotsl.)	42	31	25	0·4	–	0·2
Eskdalemuir ...	41	29	23	–	–	3·9
Point of Ayre...	52	34	*	–	–	6·7
Tiree	48	45	*	2	10	1·0
Stornoway ...	49	45	*	Tr	1	1·6
Dalwhinnie ...	42	32	28	–	–	2·8
Aberdeen † ...	45	34	26	–	Tr	7·1
Wick ...	49	37	32	–	–	*
Sumburgh ..		43	38		0·2	0·0
Blacksod Point	50	40	*	6	9	*
Malin Head ...	(46)	40		0·3	2	3·2
Aldergrove ...	46	35	27	–	Tr	6·5
Birr Castle ...	49	32	26	–	–	4·7
Valentia Obsy.	50	40	37	Tr	2	6·7
Roches Point	50	43	*	Tr	2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 4th November ... 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	10	01962	15212	77	01753	14213
115				51	10844	12227
203	74	10953	16414			
206	50	01961	24211	53	02855	24327
210	54	01961	20101	50	01861	18102
220	57	81846	16317	62	64645	20468
230	37	10946	00087	97	02955	00086
945	84	01872	23112	54	05673	00013
260	83	02875	22226	50	01761	20111
278	70	01853	20214	40	17553	14225
279	5–	08477	30147	5–	08468	00028
285	10	01744	14314	5–	05636	06126
288	50	01762	16202			
575	57	04741	18127	57	61854	16268
301	--	44209	16249	--	44109	14249
321	--	46109	10149	--	46009	16149
299	00	05620	20110	5–	05564	22114
292	00	47190	00040	--	48009	00049
310	--	08434	10314	--	46109	10449
614	--	44309	08149	--	46009	00049

01h. G.M.T. 5th November ... 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	00	01864	14214	51	01664	14314
115	52	02844	12226			
203						
206	5–	02865	21315	5–	02858	17268
210	51	02865	13216	57	02874	14166
220				82	22745	17368
230	51	61855	18168	5–	22858	16168
945	00	05590	25100	57	05551	26107
260	00	45290	00040	5–	08355	25145
278	5–	02756	11216	52	61537	13268
279	00	05590	32100	00	08490	00014
285				50	05525	28115
288	--	46109	18249	--	44109	16159
575	5–	02858	16168	5–	62638	16168
301	--	48209	12349	--	46309	10349
321	--	43109	00059	5–	67228	30168
299	5–	05563	24113	5–	05654	24114
292	--	44009	00049	--	44009	00049
310				--	46109	32449
614	--	46009	00049	--	43109	04259

13h. G.M.T. 4th November ... 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333	00	04690	10105	00	05690	28114
334	--	04472	00013	--	04373	00004
340	--	46009	15149	--	48009	14249
136	7–	05654	32127	5–	05564	04124
336	--	46009	12249	--	46009	12249
350	--	46109	10149	--	48009	08149
368						
379	00	45190	12140	--	48190	02240
390	5–	43226	00047	5–	41448	00048
382	--	44209	00049	--	48109	07149
438	82	02553	04318	87	02544	01325
430	57	05565	06168	50	08474	04324
409	87	62866	07267	07	02790	08326

01h. G.M.T. 5th November ... 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333	00	08490	00000	07	02790	30118
334				--	04209	00028
340	--	46209	15259			
136	50	43161	00041	5–	05667	07247
336				--	46209	12249
350	--	44109	02149			
368	5–	08438	08428	5–	61538	08268
379	--	46109	04169			
390	00	08490	02120	5–	08448	02118
382	--	46309	05149	5–	61438	04228
438				52	62635	08468
430	5–	22568	04328	5–	62648	04368
409	57	05663	06315	52	62646	02168

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. † 0Ih. observations from Dyce.

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LONDON OBSERVATIONS

For the 24 hours ending morning of 5th Nov.
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 *	ofefw	of ir₀of	ofw ir₀r₀
Croydon ...	ofeod	of r₀of	of rf.
Greenwich ..	Fefe	fefem	ono rf
Camden Square	o	o	*
*Kensington ...	ofd	of	*
Hampstead ...	of	ofd	or

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.

Kew 24 hours ended 7h. Max. Time 1·4 10-12h. 4th; Min. Time 40·3 2-4h. 5th.

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 % Today
Kew	42	42	38	Tr	0·1	0·0	*	*
Croydon ..	42	42	41	0·1	0·3	0·0	*	*
Greenwich ..	42	41	36	Tr	2	0·0	97	97
Westminster ..	47	37	37	2			91	95
Regents Park ...		36	35	–	0·3		97	97
Camden Square	39	38	33	–	2	*	*	97
Kensington ...	44	37	34	Tr	2		94	97
Hampstead	40	38	35	Tr	2		*	97

SECRET

Page 1 BRITISH SECTION

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

Friday 6th November 1942

No. 29569

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)	Height of Base (feet) (15)
1	London (Kew)	02·0	-31	E'N	3	rr	48	97	47	4	6	2	-	9	10	1500
	Croydon	03·0	-32	ENE	2	rr	48	97	47	4	5	-	-	10	10	1000
	S. Farnborough	03·0	-22	ENE	3	rr	47	92	45	4	5	-	-	10	10	400
	Boscombe Down	02·8	-30	NE'N	3	roro	45	97	45	4	5	-	-	10	10	800
	Thorney Island	01·5	-32	ENE	3	iro	48	92	46	6	6	2	-	4-6	10	1500
	Lympne	02·0	-32	E	2	c/r	47	97	46	6	6	2	-	9+	10	500
	Manston	02·9	-30	E	4	rr	48	97	47	5	5	2	-	9	10	500
2	Shoeburyness	04·2	-24	E	4	rr	50	85	47	6	6	2	-	7-8	10	1500
	Felixstowe	03·9	-38	E'N	6	iro	50	85	45	7	5	2	-	4-6	10	2500
	Gorleston	05·0	-30	SE	5	iro	51	85	47	7	5	-	-	10	10	1500
	Mildenhall	02·7	-30	E	4	rr	48	92	46	6	-	2	-	10	10	2000
	Cranwell	06·1	-24	NE	3	zo	47	92	45	6	5	7	-	4-6	10	4000
3	Birmingham	05·7	-20	ENE	3	iro	44	92	42	4	6	-	-	10	10	450
	Upper Heyford	04·1	-26	NE	2	roro	44	97	43	5	5	-	-	10	10	600
4	Ross-on-Wye	04·2	-24	N'W	2	rf	43	97	42	3	-	2	-	10	10	300
5	Hartland Point	03·5	-18	NE	2	rr	47	97	47	6	8	2	-	2-3	10	1000
	Bristol	04·1	-20	E	1	rf	44	97	44	2	-	2	-	10	10	450
	Portland Bill	10·6	-14	NE	5	roro	47	92	45	7	5	-	-	10	10	2500
	Plymouth	02·6	-14	N	3	roro	47	92	45	6	5	7	-	4-6	10	3000
	The Lizard	03·3	-8	NW	3	c/pr	47	97	47	8	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	04·6	-6	NNW	4	pr	53	65	42	8	8	6	3	2-3	4-6	1200
	Guernsey															
6	Pembroke	04·6	-12	NE'N	3	zo	46	92	44	5	5	1	-	9+	10	200
7	Holyhead (Valley)	03·8	-6	-	0	fg	46	75	38	7	5	2	-	Tr	10	3000
	Chester (Sealand)	07·2	-10	SSE	1	m	42	97	42	4	5	-	-	10	10	800
8	Manchester	06·9	0	E	3	iro	45	85	42	5	5	7	-	7-8	10	2500
10	Spurn Head	06·9	-24	ESE	3	c	50	85	47	7	5	2	-	4-6	10	2000
	Catterick	08·2	-18	-	0	rf	37	97	37	3	-	-	-	10	10	<150
	Tynemouth	08·9	-12	SW	3	cF	39	97	39	1	5	-	-	9+	9+	2100
11	St. Abbs Head	07·8	-10	SE	2	zo	44	75	36	6	5	4	-	7-8	9	3300
	Leuchars	06·9	-14	NW	1	zo	40	92	38	5	-	7	2	0	7-8	-
12	Renfrew (Abbots I.)	07·1	-6	NE	1	m	41	86	36	4	5	-	-	10	10	2000
	Eskdalemuir	06·4	-14	-	0	c-bc	42	75	35	6	5	-	-	7-8	7-8	3500
	Point of Ayre	06·8	-10	SSE	4	zo	45	85	40	6	6	2	-	7-8	10	800
13A	Tiree	04·0	-6	S	5	iro	45	85	40	7	2	2	-	10	10	2000
13B	Stornoway	02·0	-18	S	5	c/r	47	85	43	7	5	2	-	4-6	10	1200
15	Dalwhinnie	06·4	-4	S	2	c	39	85	35	6	5	9	-	7-8	9+	2500
	Aberdeen	07·7	-10	-	0	m	43	85	38	4	-	7	-	0	10	-
	Wick	07·0	0	S	5	c	47	75	38	7	5	3	2	2-3	9	4000
16	Sumburgh	07·1	-4	S	4	c	48	75	40	8	5	7	6	4-6	9+	2500
17	Blacksod Point	05·9	+2	W	3	bc	50	75	42	8	1	6	-	2-3	4-6	4000
18	Malin Head	04·1	-10	S	3	c/r	43	85	39	8	5	2	-	4-6	10	2600
	Aldergrove	06·2	-2	W'S	1	roro	41	92	39	5	5	2	-	9	10	1500
19	Birr Castle	05·3	-6	S	1	o	45	97	44	7	5	-	-	10	10	2600
20	Valentia Obsy.	07·0	+6	N'W	5	c-bc	50	75	42	8	2	7	3	2-3	7-8	2500
	Roches Point	05·2	-10	N	2	bc	49	85	45	8	2	3	-	1	4-6	1500

OBSERVATIONS at 18h. 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)	Weather 7h.–13h. 5th (39)	Weather 13h.–18h. 5th (40)	Weather 18h. 5th to 1h. 6th (41)	Weather 1h.–7h. 6th (42)
London (Kew)	98·1	-16	ENE	2	iro	48	97	47	4	6	2	-	9	10	1500	1	*	rrrror	rro crom	crror	rrrorroc
Croydon	99·4	-14	E'N	1	rf	47	97	47	3	-	-	-	10	10	<150	1	*	rorocmoroio	cmrrcmiro	ofroofrr	ofrrofrorcm
S. Farnborough	97·9	-18	NE	2	rrf	47	97	47	3	5	-	-	10	10	300	1	*	ofrorm	omrcromod	forfromoro	ofrrocm
Boscombe Down	99·7	-14	N'W	3	rr	45	97	45	4	5	-	-	10	10	300	1	*	cro romo	crrm	crocirmo	cirombcmo
Thorney Island	98·1	-16	NE	2	roro	49	97	49	5	5	-	-	10	10	800	1	*	cmorr	cirodd ro o	owrorrromo	orорcmo
Lympne	98·2	-16	E	2	rf	51	97	51	3	5	-	-	10	10	900	1	3	cmoroio	cmiro	frfciro	ofrroro
Manston	99·2	-16	E	4	rr	50	97	50	5	6	2	-	9	10	400	1	*	cmorr	cmoroo	cmrorof	cfrrmmo
Shoeburyness	00·2	-20	E'S	3	rr	50	97	49	5	-	2	-	10	10	1500	1	*	crrmo	crrmo	crrmo	crrm
Felixstowe	00·1	-18	E'S	5	c/r	51	92	48	6	5	2	-	4-6	10	1500	1	2	croromoiro	citmo cm	crrmocmocrr	crrmocdd
Gorleston	01·6	-24	ESE	6	roro	50	85	47	6	6	-	-	10	10	800	1		ciro	oromo q	orriro	oiromo
Mildenhall	00·4	-20	NE'E	4	iro	46	97	44	6	6	2	-	10	10	600	1	*	cmoororor	orrirom	ormdodomo	ododomo
Cranwell	03·5	-10	NE'N	1	roro	45	97	44	4	6	2	-	7-8	10	1400	1	*	ofcfcmo	crrrom	crmo,cmo	cmocm
Birmingham	03·2	-6	NNE	3	rr	44	97	43	5	6	-	-	10	10	450	1	*	forom	orrm	ofr	obf
Upper Heyford	00·5	-10	N	3	rr	45	97	44	4	6	2	-	9+	10	500	1	*	mddrom	rorrrm	crrm	rrmbmo
Ross-on-Wye	02·3	-8	N'W	2	rf	44	97	43	2	-	2	-	10	10	300	1	*	fofrf	rfrf	rfrom	cbmo
Hartland Point	03·3	+6	N	3	c	48	85	45	7	5	2	-	7-8	9+	1500	1	3	moirrc	irc	becbe	becbc
Bristol	01·4	-4	WNW	2	rf	44	97	44	3	-	2	-	10	10	300	1	*	ofdoroiro	roroirm	ororomcmo	cmobmbmo
Portland Bill	00·6	+6	N	4	c/r	47	92	45	7	5	-	-	10	10	2500	1	5	or	prr	c	cbc
Plymouth	03·0	+10	NW'N	3	zo	48	92	46	6	5	2	-	7-8	10	2000	1	2	croromo	crorоiromo	becbcmo	cdodobc
The Lizard	03·9	+8	NNW	5	c-bc	48	85	43	8	8	6	-	7-8	7-8	1500	1	4	q+prc	prbcc	becbe	bc
Scilly (St. Mary's)	04·9	+6	NNW	4	c	49	75	42	8	8	-	-	9+	9+	1200	1	4	cpocbc	bcc	cbc	bcc
Guernsey																					
Pembroke	04·1	+2	N'E	2	c	47	92	46	7	8	-	-	9+	9+	1500	1	2	proiro		cpr	cbcc
Holyhead (Valley)	05·2	0	ESE	1	c/r	41	85	38	7	5	7	-	2-3	9+	4000	1	1	cfg	ororofg	cbcmow	cmow
Chester (Sealand)	05·0	-4	N	2	rf	43	97	43	3	5	-	-	10	10	800	1	*	Fmc	cmororof	crororff	cbm
Manchester	05·1	-2	N	2	rf	43	97	42	3	-	2	-	10	10	2000	1	*	cffcmo	iromf	iroff	fcm
Spurn Head	04·7	-2	E	5	r	50	85	45	6	9	2	-	4-6	10	1500	1	4	c	romo c	crr	odr
Catterick	06·6	-8	NW	2	rf	38	97	37	2	-	-	-	10	10	<150	1	*	ofcrf	oirof	ororocf	offbcf
Tynemouth	07·6	-2	NW	2	rf	40	97	40	2	-	2	-	10	10	1500	1	2	ocFF	c	orff	offcmo
St. Abbs Head	06·9	0	E	1	roro	41	92	39	6	5	-	-	10	10	1500	1	2	bcmobmocm	cmoro	croomobc	bcmoc
Leuchars	06·1	-2	-	0	m	37	97	37	4	-	7	8	0	7-8	-	1	*	moxfcmo	cmcmo	cmbcm	bcmbfx
Renfrew (Abbots I.)	06·6	+2	-	0	bcf	36	97	35	3	5	-	-	4-6	4-6	2000	1	*	cfrorocm	cmbcf	bcefxow	ofwfe
Eskdalemuir	06·2	0	-	0	o	38	92	35	6	5	-	-	10	10	2800	1	*	cfx bcmo	cproomo	omo	omoF
Point of Ayre	05·1	0	SE	3	zo	46	85	43	6	6	-	-	9+	9+	800	0	3	czo	czzo	cbzow	bczoc
Tiree	04·6	+4	-	0	bc	42	85	37	7	8	3	-	4-6	4-6	2500	1		crorоiro	crrbc	bbcprobc	bciro
Stornoway	04·1	+2	WSW	3	roro	43	97	42	7	6	2	-	7-8	10	1000	1	*	rorоirc	crororom	cbcb	ciro
Dalwhinnie	05·5	0	SSW	2	o	36	85	33	6	5	-	-	10	10	2500	0	*	oc	co	*	oco
Aberdeen	06·9	0	SSE	1	m	44	85	41	4	5	2	-	7-8	10	2000	1	2	czobccz	cirоz	ciroz	ciroz
Wick	06·3	-2	SSE	3	zo	45	75	38	6	5	2	-	4-6	10	2500	0	*	c	cmo	bcmocbc	bbcc
Sumburgh	07·5	+2	S	4	c/r	48	85	44	7	5	7	-	4-6	10	1800	1	3	c	bciroc	cmorriro	ciroc
Blacksod Point	05·9	+2	SW	2	b-bc	45	85	41	8	8	-	-	2-3	2-3	4000	1	2	r	bc	c	r
Malin Head	05·0	+10	-	0	2R	42	92	40	8	5	2	-	7-8	10	1500	2	2	r	r	r	r
Aldergrove	06·0	+2	S	1	c-bc	39	92	36	5	5	7	-	7-8	7-8	2000	1	*	irocro	crororoc	cbccmo	cmofairo
Birr Castle	06·0	+24	NW	2	b-bc	37	92	35	7	5	-	1	2-3	2-3	2500	1	*	r	bc		r
Valentia Obsy.	08·3	+12	NNW	1	b	45	75	38	9	2	-	-	1	1	2500	1	2	pr	bc	bc	pr
Roches Point	06·4	+16	N	3	b	46	85	42	8	2	-	-	1	1	2500	1	3	ro	bc	b	r

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

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Moderate northwest winds, backing southerly and freshening later. Fair at first, but rain spreading from West later; rather cold, becoming milder.
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	Southerly winds freshening, gale locally on coasts later, finally veering southwest to west and moderating. Rain spreading from West, followed by bright intervals and local showers. Rather cold, becoming milder.
12 S.W. Scotland & Isle of Man; 13A W. Scotland ↓; 13B N.W. Scotland ↓; 14 Mid Scotland; 15 N.E. Scotland ↓	Fresh to strong southerly winds, gale in exposed places, veering southwest to west later and moderating. Dull and rainy at first; showers and bright intervals later: mainly rather cold.
16 Orkneys and Shetlands ↓; 17 N. W. Ireland ↓; 18 N. E. Ireland ↓; 19 S. E. Ireland; 20 S. W. Ireland ↓	As 12 - 15.

GENERAL INFERENCE

A deep depression is centred near Iceland and an associated trough off our western coasts is moving east. There will be strong southerly winds or gales over much of the country, but winds will veer southwest or west later and moderate. A belt of rain will move east, followed by bright intervals and showers.

FURTHER OUTLOOK

Mainly fair apart from showers in the North and West.

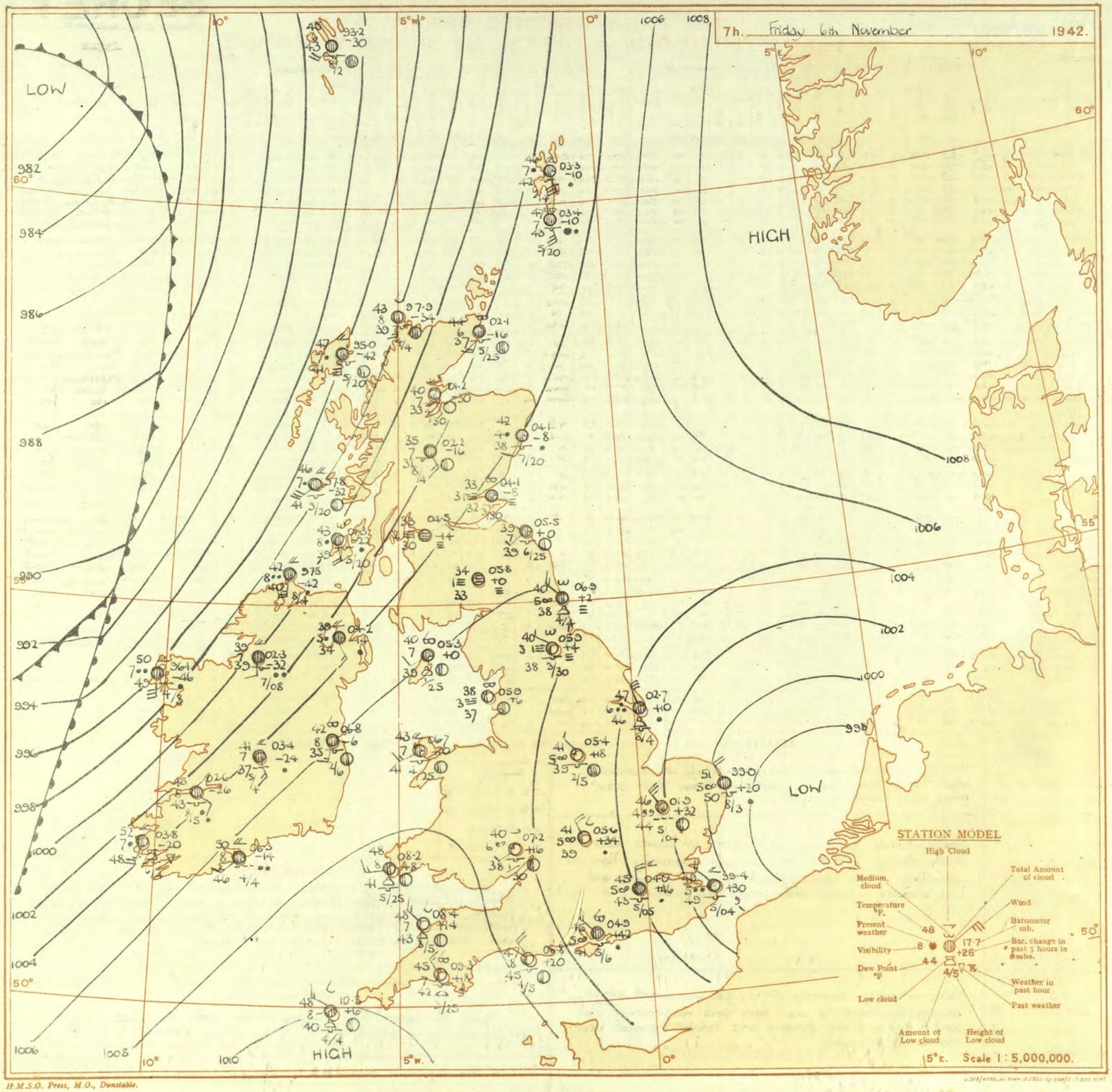
↓ Gale warning in districts 13B, 16, 17, 18, issued 2325 G.M.T. 5.11.42.

↓ " " " " 13A, 15, part of 20, issued 0830 G.M.T. 6.11.42.

Forecasts issued at 1030

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

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



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

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

Explanation of Frontal Lines shown on Charts

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

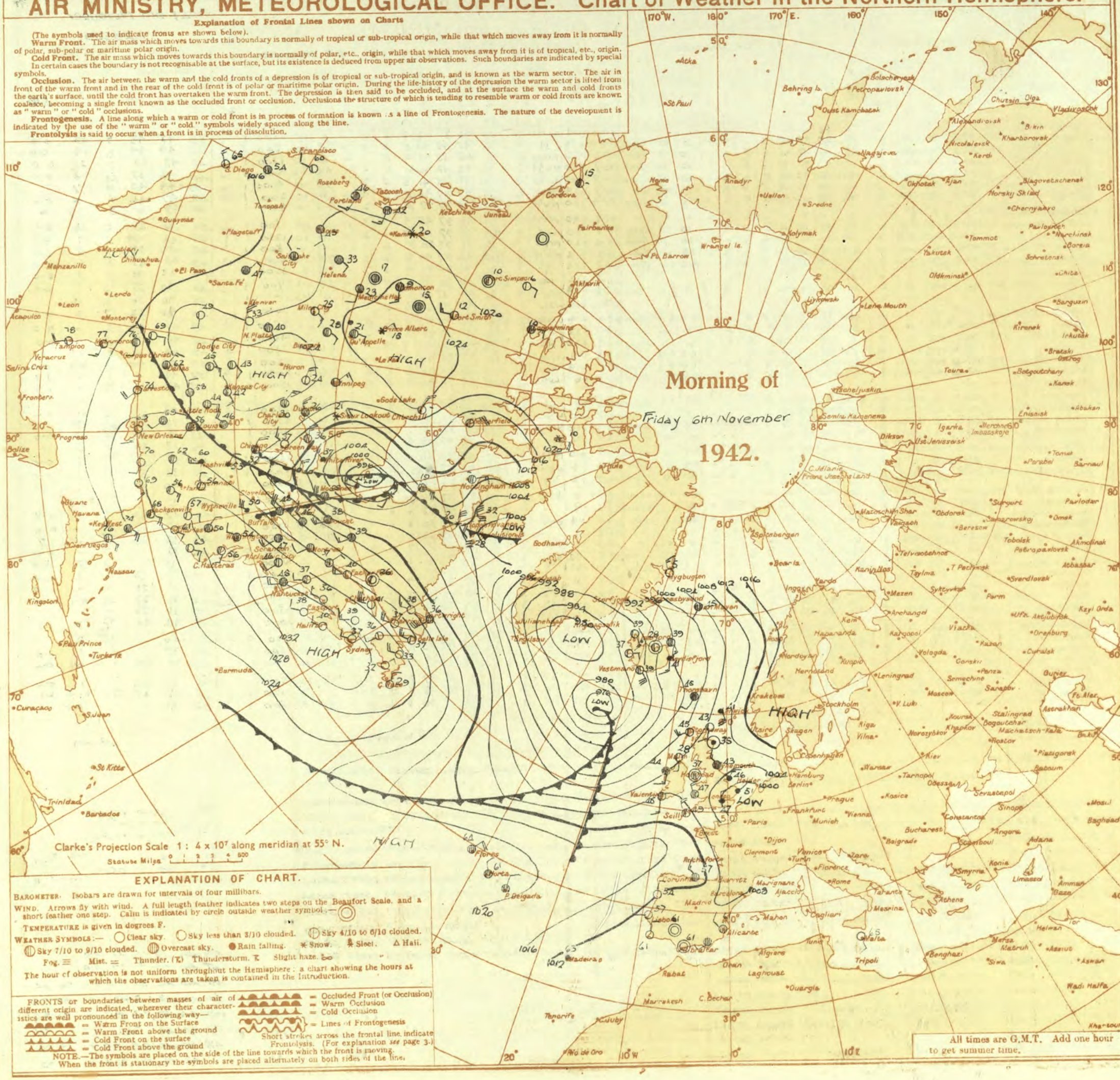
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

BRITISH SECTION

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

Friday 6th November 1942

No 29569.

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	97·5	-2	N	1	f	47	97	47	3	.	-	-	10	10	450
	S. Farnborough	226	98·1	+10	NNW	3	RR	45	97	45	4	5	-	.	10	10	400
	Boscombe Down	417	01·2	+14	NNW	5	ir₀	43	97	42	6	5	-	.	10	10	1200
	Thorney Island	10	98·6	+6	WNW	5	r₀r₀	46	92	44	5	-	2	-	10	10	1300
	Lympne	283	95·8	-8	-	0	ir₀	52	97	52	5	6	2	-	9	10	100
	Manston	154	95·7	-8	NE	1	ir₀	52	97	52	3	5	2	.	10	10	500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	96·3	-12	N'E	1	rr	52	92	52	5	-	2	-	10	10	1200
	Gorleston	5	97·0	-20	NE'E	2	ir₀	51	92	50	6	6	-	.	10	10	800
	Mildenhall	15	97·3	-6	NNE	4	d₀d₀	49	97	48	5	6	2	-	7-8	10	300
	Cranwell	203	01·8	-8	N'W	3	e/r	44	97	43	5	5	7	-	4-6	10	1800
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	00·3	+4	N	5	rr	43	97	42	4	-	2	.	10	10	900
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	05·1	+12	N	3	bc	48	85	43	7	2	-	.	4-6	4-6	2500
	Bristol	209	04·1	+12	N	3	Z₀	44	92	41	5	5	2	.	9	10	2100
	Portland Bill	32	02·5	+12	N	4	e	45	92	43	7	5	-	-	10	10	2500
	Plymouth	82	05·6	+14	NW	4	Z₀	47	92	46	6	8	-	1	2-3	4-6	2500
	The Lizard	240	07·0	+12	N.W	5	bc	47	75	40	8	8	-	.	4-6	4-6	1500
	Scilly (St. Mary's)	163	08·0	+16	NNW	4	bc	49	75	40	8	8	-	.	4-6	4-6	1200
	Guernsey	175															
6	Pembroke	142	05·1	+2	NNW	4	e-bc	47	85	43	7	8	-	-	7-8	7-8	1500
7	Holyhead (Valley)	32	05·6	0	-	0	Z₀	37	97	36	6	5	-	.	9	9	5100
	Chester (Sealand)	16	04·8	-2	WNW	3	m/f	44	97	43	4	5	-	.	10	10	2400
8	Manchester	235	04·7	-2	NW	3	m/f	41	97	40	4	-	-	.	0	0	*
10	Spurn Head	29	02·3	-14	NE'E	5	rr	46	92	44	7	9	2	.	7-8	10	1500
	Catterick	175	05·2	-10	N	1	cf+	42	97	41	2	5	2	-	4-6	9+	1500
	Tynemouth	108	06·8	-6	NW	3	cf	43	97	42	3	-	2	.	10	10	1500
11	St. Abbs Head	280	05·6	-10	SW	2	Z₀	40	97	40	6	5	-	-	4-6	4-6	2500
	Leuchars	36	05·8	-6	-	0	m	34	97	34	4	5	7	-	Tr	2-3	4500
12	Renfrew (Abbots I.)	19	06·2	-4	-	0	cf+	33	97	32	2	5	-	.	10	10	1800
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	05·4	+2	ESE	2	Z₀	44	85	41	6	.	.	.	0	0	-
13A	Tiree	44	03·1	-8	SSW	2	bc/pr	45	85	39	8	2	-	.	4-6	4-6	2500
13B	Stornoway	15	02·0	-10	SW	5	b-bcjp	45	85	41	8	5	-	.	2-3	2-3	3000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	06·0	-10	-	0	ir₀	35	97	35	6	5	7	-	4-6	10	1700
	Wick	114	05·0	-10	S	2	bc	43	75	36	7	5	-	.	2-3	2-3	3000
16	Sumburgh	19	05·8	-14	SSE	5	c/r	46	85	43	7	5	-	-	4-6	10	1500
17	Blacksod Point	18	03·6	-22	S	3	c	47	92	45	8	5	-	.	10	10	2500
18	Malin Head	84	04·5	-12	S	1	b-bc	38	92	36	8	5	-	-	2-3	2-3	2500
	Aldergrove	268	06·5	-2	S	2	Z₀	38	97	37	6	5	-	-	10	10	400
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	07·6	-8	S'E	3	c-bc	40	92	38	8	2	-	-	7-8	7-8	2500
	Roches Point	22	08·9	+2	N	2	bc	41	92	39	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)
London (Kew)	04·2	+54	NW'N	3	Z₀	46	85	42	5	5	2	-	9	10	2500
Croydon	04·0	+46	N	4	Z₀	45	92	43	5	5	2	-	7-8	10	500
S. Farnborough	05·2	+50	NNW	3	Z₀	45	85	41	5	5	-	-	10	10	1200
Boscombe Down	06·7	+30	NW'N	3	Z₀	42	92	40	6	5	-	:	4-6	4-6	1600
Thorney Island	04·9	+42	NW'W	4	Z₀	45	85	41	5	5	7	.	7-8	10	4000
Lympne	99·9	+34	NW	6	r₀r₀	47	97	46	5	6	2	-	9+	10	200
Manston	99·4	+30	NW'N	4	r₀r₀	49	97	49	5	5	2	.	7-8	10	400
Shoeburyness	01·8	+40	NNW	3	rr	46	97	45	4	-	2	-	10	10	1500
Felixstowe	99·8	+30	W'S	4	dd	49	97	47	5	-	2	-	10	10	1300
Gorleston	99·0	+20	NNW	4	Z₀	51	97	50	5	5	-	-	10	10	800
Mildenhall	01·9	+32	NW'N	5	d₀d₀	46	92	44	6	6	2	.	7-8	10	400
Cranwell	04·3	+20	NW	4	m	43	92	41	4	5	7	-	2-3	9	3000
Birmingham	06·3	+12	NW	3	b-bcf	40	92	38	3	5	-	.	2-3	2-3	800
Upper Heyford	05·6	+34	NNW	4	Z₀	41	97	39	5	-	4	-	0	2-3	*
Ross-on-Wye	07·2	+16	WSW	1	Z₀	40	92	38	6	5	-	1	Tr	Tr	3000
Hartland Point	08·4	+14	WNW	3	b-bc	48	85	43	7	2	4	-	2-3	2-3	2500
Bristol	08·3	+22	E'S	2	Z₀	41	92	38	6	5	-	-	1	1	4000
Portland Bill	06·8	+20	NW	4	be	47	92	45	8	5	-	.	4-6	4-6	2500
Plymouth	09·3	+18	NW	3	bc	45	85	42	7	7	7	-	2-3	4-6	2500
The Lizard	10·1	+14	NW	4	bc	48	75	41	8	8	6	.	4-6	4-6	2000
Scilly (St. Mary's)	10·3	+6	WNW	3	c-bc	48	75	40	8	8	4	2	4-6	7-8	1500
Guernsey															
Pembroke	08·2	+8	W	3	c-bc	48	75	41	8	8	4	-	7-8	7-8	2500
Holyhead (Valley)	06·7	+10	WSW	3	c	43	92	41	7	5	2	-	4-6	9	2500
Chester (Sealand)	06·2	+10	NW'W	1	bcf+	39	97	38	2	5	-	-	4-6	4-6	2500
Manchester	06·4	+12	W	1	m	39	97	38	4	.	-	-	0	0	*
Spurn Head	02·7	+10	NNW	6	rr	47	92	46	6	8	-	.	10	10	1500
Catterick	05·9	+4	WNW	1	bcf	40	85	38	3	5	4	.	2-3	4-6	3000
Tynemouth	06·9	+2	NW	3	Z₀	40	92	38	5	2	3	.	4-6	7-8	1500
St. Abbs Head	05·5	0	SSW	1	c	39	97	39	7	5	-	-	9	9	2500
Leuchars	04·1	-8	-	0	cf-	33	97	32	3	5	7	.	2-3	9+	3000
Renfrew (Abbots I.)	04·5	-14	ENE	2	f+	33	92	30	2	.	-	.	10	10	450
Eskdalemuir	05·8	0	-	0	F	34	97	33	1	.	-	.	10	10	<150
Point of Ayre	05·3	0	SW	2	e	40	97	39	7	2	7	-	Tr	9+	2500
Tiree	97·8	-32	SSW	6	ir₀	46	85	41	7	5	2	.	7-8	10	2000
Stornoway	95·0	-42	S	7	ir₀	47	75	41	7	5	2	-	7-8	10	2000
Dalwhinnie	02·2	-16	SE	3	o	35	85	31	7	5	-	.	10	10	1500
Aberdeen †	04·1	-8	S'W	2	ir₀	42	92	38	4	5	-	-	9+	9+	2000
Wick	02·1	-16	S'W	3	c	44	75	37	6	5	7	.	7-8	10	2500
Sumburgh	03·4	-10	SSE	5	c/r	47	85	43	7	5	7	-	7-8	10	2000
Blacksod Point	96·1	-46	S	6	r₀r₀	50	99	49	7	6	2	.	4-6	10	800
Malin Head	97·5	-42	S	5	r₀r₀	42	92	40	8	-	2	.	10	10	1500
Aldergrove	04·2	-14	S'E	3	ir₀	39	85	34	5	.	2	.	0	10	-
Birr Castle	03·4	-24	S'E	3	c	41	85	37	7	6	2	.	7-8	10	1500
Valentia Obsy.	03·8	-20	SSW	5	ir₀	52	85	48	7	9	2	.	9	10	1500
Roches Point	06·3	-14	SW	3	c/r	50	85	46	8	6	2	.	4-6	9+	1500

PAST 24 HOURS.

Stations	State of Ground 0–9 (31)	Sea 0–9 (32)	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Temperature Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 5th Hrs. (38)
London (Kew)	1	*	48	45	43	7	22	0·0
Croydon	1	*	47	44	44	8	14	0·0
S. Farnborough	1	*	48	43	43	7	22	0·0
Boscombe Down	1	*	46	42	37	14	5	0·0
Thorney Island	1	*	49	44	42	9	7	*
Lympne	1	§3	52	47	46	1	11	0·0
Manston	1	*	50	49	*	8	13	*
Shoeburyness	1	*	50	45	33	6	13	0·0
Felixstowe	1	1	53	48	44	2	7	0·0
Gorleston	1	3	52	50	48	1	8	0·0
Mildenhall	:	*	49	45	45	5	6	0·0
Cranwell	1	*	48	42	41	3	9	0·0
Birmingham	1	*	45	40	35	6	11	0·0
Upper Heyford	1	*	45	40	36	9	16	*
Ross-on-Wye	1	*	44	40	32	9	2	0·0
Hartland Point	1	4	48	47	44	5	-	0·0
Bristol	1	*	45	41	32	13	1	0·0
Portland Bill	1	5	49	44	*	11	1	*
Plymouth	1	2	49	45	40	4	0·3	0·0
The Lizard	1	4	52	44	*	1	-	1·3
Scilly (St. Mary's)	1	3	53	47	*	Tr	.	3·9
Guernsey								
Pembroke	1	3	48	44	*	0·5	0·5	0·0
Holyhead (Valley)	1	2	47	35	29	0·2	Tr	*
Chester (Sealand)	1	*	43	38	32	Tr	2	0·0
Manchester	1	*	46	38	30	1	3	*
Spurn Head	!		50	45		Tr	7	0·0
Catterick	1	*	38	38	31	1	3	0·0
Tynemouth	1	3	42	40	37	1	6	*
St. Abbs Head	1	2	44	39		Tr	0·3	
Leuchars	3	*	40	29	26	Tr	-	0·8
Renfrew (Abbots I.)	1	*	41	27	23	0·1	-	0·0
Eskdalemuir	1	*	43	33	29	Tr	.	1·7
Point of Ayre	0	2	46	37	*	-	.	0·0
Tiree	1	4	46	37	*	8	Tr	0·0
Stornoway	1		48	39	35	8	1	0·0
Dalwhinnie	0	*	40	31	21	-	-	0·0
Aberdeen †	1	2	44	36	33	0·1	0·1	0·0
Wick	0	*	47	39	33	-	.	
Sumburgh	1	3	48	43	41	Tr	11	1·6
Blacksod Point	0	5	50	40	*	1	9	
Malin Head	2	3	43	37		5	1	0·0
Aldergrove	1	*	44	33	27	1	0·1	0·0
Birr Castle	1	*	46	27	22	1	1	0·2
Valentia Obsy.	1	4	52	37	32	Tr	0·4	6·1
Roches Point	1	3	50	41	*	1	0·5	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 5th November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 6th November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	57	02763	15465	07	05590	14226	50	01653	14323	51	02755	46427
115				52	81845	20288	54	02844	16385	54	02844	16325
203												
206	57	02865	00068	5-	05658	00028	50	01653	00013	53	02764	14115
210	57	02765	16227	37	05663	10128	00	00790	00020	57	05663	13316
220	52	64746	14168							62	63445	20620
230	52	62545	10168				5-	02648	00068	5-	02648	24128
245	5-	05577	00028	57	08464	00027	57	05557	23128	5-	05568	22128
260	00	47190	00045	--	46209	00049	00	08490	28100	--	48009	00499
278	52	05546	10368	5-	05458	14228	5-	05557	14217	57	05542	12227
279	5-	08467	06227	5-	61458	07168	--	08490	32100	--	44209	07249
285	5-	61628	04268	02	64628	30368						
288	07	41490	00048	02	67190	00068	5-	45268	24168	57	43364	26258
578	62	62741	08168	23	04842	00062	--	48609	00049	52	22737	16268
301	57	08457	12248	--	67309	04469	5-	08458	02168	07	47390	00024
321	5-	45337	01248	62	67225	02168	62	43334	32368	53	08453	28344
299	5-	03758	28228	5-	02756	08328	8-	62745	04465	8-	61748	28468
292	5-	08468	00068	5-	57848	29168	5-	47358	28268	50	08453	28343
310	--	08428	32428							--	01624	26314
614	50	08447	06648	52	67345	02268	5-	05638	02368	50	05552	28122

III	13h. G.M.T. 5th November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 6th November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	52	62665	26168	52	62655	28168	5-	05664	28164	51	05664	20118
334												
340	02	61438	04168	62	67334	01268	5-	41443	30268	04	08490	24214
136	52	62654	08368	02	06468	02245	02	54428	02428	62	53576	31458
336	--	57209	12259							53	05654	32315
350	5-	62428	04368	62	54435	04458	62	64425	34468	5-	08426	27368
368	62	62426	06268	02	62538	30268				04	05690	28103
379	--	67209	04369	--	67309	02469	62	62536	61548	50	05553	63564
390	62	62537	04268	62	62426	08168	02	67318	32168	62	41527	30568
382	52	62536	02368	62	64436	01268	6-	62428	63568	07	05590	29328
438	52	62626	10368				5-	03538	24428	02	51528	31553
430				5-	62428	06268	5-	61648	28368	5-	05548	28458
409	52	61845	31367	52	05644	31327	8-	02767	30427	55	10852	26314

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 6th Nov.
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 *	rrr₀r₀+	++r₀cr₀m	crr₀rr₀c
Croydon	f₀r₀rcmc	cmrrcmic	ofr₀rcm
Greenwich	++m	++r₀m	++crfcm
Camden Square	or	or	*
*Kensington	or	o	*
Hampstead	o+	o+	o+bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. Time 0·6 19h 5th. Min. Time <0·1 0-2h 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	48	45	43	7	22	0·0	*	*
Croydon	47	44	44	8	14	0·0	*	*
Greenwich	49	45	42	8·1	17·8	0·0	96	84
Westminster	50	44	43	24·3		*	98	94
Regents Park	49	44	43	7·2	19·7	*	93	84
Camden Square	49	44	42	24·1		*	*	87
Kensington	48	45	40	5·8	19·5	*	91	88
Hampstead		42	36	5·9	22·4	*	*	93

Page 1 **BRITISH SECTION** Saturday 7th November

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

SECRET

Saturday 7th November 1942

No. 29510

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)	08·8	+20	W'N	3	zo	50	75	41	6	1	-	-	4·6	4·6	4000
	Croydon	08·8	+20	W'N	4	zo	51	75	41	6	1	-	-	2·3	2·3	1800
	S. Farnborough	09·0	+16	NW	3	b-bc	51	75	42	7	1	4	2	1	2·3	3000
	Boscombe Down	09·9	+10	W'N	4	Gbc	51	65	41	8	1	3	2	1	7·8	4000
	Thorney Island	09·8	+18	W'N	3	zo	52	65	42	6	1	-	1	Tr	Tr	4000
	Lympne	06·6	+26	NW	5	zo	49	75	44	6	5	3	-	2·3	7·8	1500
	Manston	05·6	+20	NNW	4	zo	48	85	44	6	5	-	-	9+	9+	1000
2	Shoeburyness	07·3	+20	NNW	4	bc	51	75	43	6	5	-	-	4·6	4·6	2500
	Felixstowe	06·1	+30	WNW	4	zo	48	85	45	6	5	-	-	10	10	1200
	Gorleston	04·4	+30	NW'N	4	o	50	92	46	6	5	-	-	10	10	1000
	Mildenhall	06·8	+26	NW'W	4	zo	51	75	43	6	1	-	1	4·6	4·6	1500
	Cranwell	06·5	+10	W'N	3	zo	51	75	42	6	-	-	-	0	0	-
3	Birmingham	08·0	+6	WSW	3	c-bc	48	65	37	7	1	5	6	Tr	7·8	1500
	Upper Heyford	08·0	+10	W'N	3	bc	49	75	40	7	1	-	-	Tr	4·6	2500
4	Ross-on-Wye	08·7	0	WSW	3	c	50	65	39	8	-	5	6	0	9	-
5	Hartland Point	08·0	-14	WSW	4	c	52	85	49	8	8	6	-	4·6	9	2000
	Bristol	10·0	+2	W	2	Gbc	50	65	41	7	1	7	7	Tr	7·8	2500
	Portland Bill	10·6	+16	W	3	Gbc	52	85	48	8	2	4	-	4·6	7·8	4000
	Plymouth	11·3	0	WSW	4	c	53	85	47	8	5	7	-	7·8	9+	2000
	The Lizard	11·1	-4	W	5	Gbc	54	85	48	8	8	6	-	7·8	7·8	2000
	Scilly (St. Mary's)	10·1	-8	SW'W	5	b-bc	56	75	48	8	8	4	9	1	2·3	1800
	Guernsey															
6	Pembroke	07·1	-10	SW	6	cq	54	85	49	8	8	7	-	7·8	10	2500
7	Holyhead (Valley)	04·2	-26	S'W	6	iro	52	85	47	8	5	7	-	7·8	10	2000
	Chester (Sealand)	06·4	-8	SSW	2	c	51	75	43	8	5	7	1	7·8	9	5000
8	Manchester	06·9	-2	S	3	zo	47	85	43	6	-	4	6	0	9	-
10	Spurn Head	05·6	+18	NW'W	4	zo	50	75	42	6	5	1	-	4·6	4·6	2500
	Catterick	05·4	-4	SSW	1	zo	49	65	39	6	-	7	-	0	10	-
	Tynemouth	05·1	-10	SW	3	zo	49	85	45	5	5	-	-	7·8	7·8	2200
11	St. Abbs Head	01·8	-28	SSW	3	c	41	97	39	6	5	1	-	7·8	10	3000
	Leuchars	00·3	-30	SSE	2	c/f	41	97	40	6	-	7	-	0	10	-
12	Renfrew (Abbots I.)	00·0	-34	S'E	3	ido	45	92	42	5	5	2	-	4·6	10	800
	Eskdalemuir	02·3	-24	S	4	o	41	85	39	6	5	-	-	10	10	900
	Point of Ayre	01·6	-28	SSW	5	c	50	75	43	7	6	7	-	2·3	10	800
13A	Tiree	90·1	-38	S'E	8	iro	49	97	48	6	5	-	-	10	10	900
13B	Stornoway	86·1	-46	S	8	roro	47	97	47	6	6	2	-	9	10	500
15	Dalwhinnie	95·0	-34	SE	5	o	40	75	35	7	5	-	-	10	10	1500
	Aberdeen	00·4	-20	S'W	4	zo	45	85	40	6	5	7	-	1	10	2000
	Wick	94·9	-46	S'E	7	iro	46	75	38	7	6	7	-	2·3	10	800
16	Sumburgh	97·4	-34	SE'S	7	c	49	85	45	7	5	2	-	7·8	10	1000
17	Blacksod Point	89·8	-46	S	7	DR	54	97	53	6	6	2	-	4·6	10	800
18	Malin Head	91·0	-34	S'E	5	c	45	92	43	8	6	2	-	7·8	10	1500
	Aldergrove	97·6	-42	S'E	4	o	48	85	44	7	5	-	-	10	10	2500
19	*Birr Castle	98·8	-30	S	4	c	53	85	49	7	6	2	-	4·6	10	1500
20	Valentia Obsy.	98·4	-40	SSW	6	dr	55	97	54	6	5	-	-	10	10	800
	Roches Point	02·4	-30	SW	5	c	54	85	50	8	5	-	-	9	9	1500

OBSERVATIONS at 18h. G.M.T. 6th 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)	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)
1	London (Kew)	09·5	+8	SW'S	2	m	47	75	41	4	5	-	-	2·3	2·3	2500	1	*
	Croydon	10·1	+6	SSW	3	zo	46	75	40	3	-	4	6	0	7·8	-	1	*
	S. Farnborough	09·7	+6	SW'S	3	c-bc	46	75	40	7	5	3	-	4·6	7·8	3000	1	*
	Boscombe Down	09·8	0	S'W	3	c	45	85	42	7	5	-	8	4·6	9+	3000	0	*
	Thorney Island	10·4	+6	SW	3	bc	48	85	44	7	5	7	-	4·6	4·6	4600	1	*
	Lympne	10·3	+18	W	2	zo	44	85	40	6	-	-	1	0	1	-	1	3
	Manston	09·4	+14	W	2	zo	42	85	40	5	-	4	-	0	1	-	1	*
2	Shoeburyness	09·4	+12	W	3	m	46	92	44	4	-	3	-	0	4·6	-	1	*
	Felixstowe	08·5	+16	WSW	2	zo	47	85	42	6	-	7	2	0	2·3	-	1	
	Gorleston	06·8	+6	SW'W	1	zo	46	85	42	6	5	4	-	2·3	4·6	2500	1	2
	Mildenhall	07·7	+10	SW	3	zo	45	85	41	5	-	4	2	0	4·6	-	1	*
	Cranwell	06·2	0	SSW	4	zo	44	85	41	6	5	7	7	4·6	10	3900	1	*
3	Birmingham	05·7	-8	SSW	3	o	48	92	46	6	6	-	-	10	10	800	1	*
	Upper Heyford	07·5	-2	SW'S	3	zo	47	85	42	6	5	7	6	4·6	7·8	3000	1	*
4	Ross-on-Wye	06·5	-10	WSW	4	o	50	85	44	7	5	-	-	10	10	2000	1	*
5	Hartland Point	05·5	-14	WSW	5	c	53	85	50	7	5	2	-	7·8	10	2900	1	5
	Bristol	09·2	-8	SW	3	c	50	92	48	7	5	2	-	9	10	1500	1	*
	Portland Bill	09·5	-6	W	4	c	55	85	51	8	5	-	-	10	10	4000	1	4
	Plymouth	10·0	-4	WSW	5	c	54	85	50	7	5	7	-	7·8	10	2500	1	4
	The Lizard	09·6	-6	SW	6	c	54	85	50	8	8	2	-	9	10	1500	0	5
	Scilly (St. Mary's)	07·1	-20	SW'S	5	c	55	85	49	7	5	7	-	1	10	1500	1	4
	Guernsey																	
6	Pembroke	02·9	-18	SW	7	roro	54	92	52	7	8	-	-	10	10	2500	1	5
7	Holyhead (Valley)	99·3	-18	S'W	7	ido	53	92	51	6	5	2	-	9	10	1000	1	4
	Chester (Sealand)	02·4	-18	SE	3	o	51	85	47	7	5	-	-	10	10	2500	1	*
8	Manchester	04·5	-10	SSE	5	ir	49	85	44	6	5	7	-	9	10	2500	1	*
10	Spurn Head	04·8	-6	SSW	4	zo	47	85	43	6	5	1	-	2·3	4·6	2500	0	3
	Catterick	02·3	-18	SSW	2	m	46	85	42	4	5	7	-	4·6	10	1800	1	*
	Tynemouth	00·8	-20	S	5	zo	48	75	41	5	5	-	-	1	9+	2500	1	3
11	St. Abbs Head	94·9	-30	S	4	o	47	85	43	7	5	-	-	10	10	2500	0	3
	Leuchars	93·3	-42	S	5	rr	46	97	45	6	5	3	-	7·8	10	2000	2	*
12	Renfrew (Abbots I.)	91·0	-52	S	5	roro	52	92	50	5	6	2	-	4·6	10	1000	1	*
	Eskdalemuir	95·4	-44	S'W	5	rr	47	97	46	6	-	2	-	10	10	700	1	*
	Point of Ayre	94·9	-20	SW	7	roro	53	92	51	7	6	2	-	7·8	10	800	1	4
13A	Tiree	86·4	-2	W	5	rr	48	97	48	6	6	2	-	7·8	10	800	2	6
13B	Stornoway	84·6	-20	W	3	rr	45	97	45	6	6	2	-	9+	10	600	2	4
15	Dalwhinnie	88·0	-48	SE	4	ir	45	85	43	2	5	2	-	7·8	10	1500	1	*
	Aberdeen	94·6	-38	S	5	zo	46	92	44	6	6	2	-	9	10	1100	1	3
	Wick	89·0	-34	S'E	8	c	47	75	40	6	6	2	-	7·8	10	1700	1	*
16	Sumburgh	92·1	-32	SE'S	7	roro	48	85	45	6	5	2	-	9+	10	900	1	5
17	Blacksod Point	94·1	+46	W	4	c/r	47	97	46	8	6	3	-	4·6	9+	1500	2	4
18	Malin Head	88·2	+10	W	5	RR	49	97	48	6	-	2	-	10	10	800	2	4
	Aldergrove	90·7	-26	S	6	roro	53	92	50	7	6	2	-	9+	10	700	1	*
19	*Birr Castle	96·2	+4	SSW	5	ir	52	92	50	7	6	2	-	7·8	10	800	1	*
20	Valentia Obsy.	99·8	-36	W	5	c/r	51	92	49	7	8	7	-	9	9+	1500	1	5
	Roches Point	99·7	-8	WSW	5	rr	54	97	53	7	6	2	-	4·6	10	800	1	5

PAST 24 HOURS.

Stations	Weather 7h.—13h. 6th (39)	13h.—18h. 6th (40)	18h. 6th to 1h. 7th (41)	1h.—7h. 7th (42)
London (Kew)	bbczo	czobz	bczmow	rorirоro
Croydon	cmobcmo	bczo	bcmocmo	cidorоrom
S. Farnborough	cbmob	bbccbc	bccmoro	cromorfodr
Boscombe Down	bmo	c	cmocrcmo	crorom
Thorney Island	cbcbmo	bmobc	ccro	rrcroro
Lympne	crorom	cbcbzo	bbccmo	rorodod
Manston	cro	cbcbmo	bccmo	iro
Shoeburyness	rrmbcmo	rmorcm	bbmo	crorоro
Felixstowe	cddmocmo	cmobcmo	bcbbccmo	crorm,ccirm
Gorleston	czo	bcmo	bcczo	oiromo
Mildenhall	omododobcmo	bcmocmo	bcqcciroc	crorowo
Cranwell	cmbmo	bmcmo	cirоmocmo	ciromocmo
Birmingham	fbbc	co	oro	oiro
Upper Heyford	bbcmo	bcczo	cirid,ror	crorоiro
Ross-on-Wye	bzobcc	c	crocid	rocbbcc
Hartland Point	bcc	c	cirrc	cirbc
Bristol	bcmoc	c	cmoiroriro	cirodod
Portland Bill	c	c	oir	orr
Plymouth	bccmoc	cbcc	crorodod	cromocmo
The Lizard	bcc	bcc	orr	rrobc
Scilly (St. Mary's)	cbc	bcc	cir	cbc
Guernsey				
Pembroke	cq	cqroro	cqirbc	bcc
Holyhead (Valley)	ciro	ciroc	crrb	bbc
Chester (Sealand)	cmoc	c	crorоmo	c.bcmo
Manchester	ffbm	czoiro	cirоmo	bcmo
Spurn Head	zc	bcmo	cirq	c
Catterick	czo	czocmo	cirоmobcm	bcmzbco
Tynemouth	bcffcmo	cmo	cpmo	bccm
St. Abbs Head	cfmo	cmo	cmorbc	bcbbc
Leuchars	ofcf	cidomorr	cmorrbbcb	bbc
Renfrew (Abbots I.)	cmoido	cmororo	bcmopro	bcmobc
Eskdalemuir	offmo	cdoror	errmo	cbo
Point of Ayre	c	ciroroc	rcb	bbcc
Tiree	roroirc	oodrrrmo	orrbbc	bzjpbc
Stornoway	roromo	crrmo	b,eprb	b,c
Dalwhinnie	opr	oir	*	orr
Aberdeen	cirozc	cirozc	czoirc	czoirobc
Wick	cmociro	cirocmo	cromocbc	bbc
Sumburgh	c	crcroromo	crr	crrprob
Blacksod Point	r	r	pr	pr
Malin Head	pr	r	r	pr
Aldergrove	crоromocirbc	croro	rorrrmob	bbc
*Birr Castle	r	r	*	pr
Valentia Obsy.	r	r	pr	pr
Roches Point	c	r	r	bc

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

Districts	Forecast
1 S.E. England; 2 E. England	Moderate Southerly winds veering Westerly; dull and rainy for a few hours, then fair apart from a few scattered showers; long bright periods; 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 ↓; 13B N.W. Scotland ↓; 14 Mid Scotland; 15 N.E. Scotland ↓	Westerly winds, moderate or fresh in the South, strong and squally in the North and Northwest, reaching gale force at times; winds moderating later; bright periods and scattered showers, more frequent and intense in the North and Northwest where they may be accompanied by thunder locally; rather cold.
16 Orkneys and Shetlands ↓; 17 N.W. Ireland ↓; 18 N.E. Ireland ↓; 19 S.E. Ireland; 20 S.W. Ireland	As 3–15.

GENERAL INFERENCE

A deep depression centred near Iceland is almost stationary and will begin to fill up. An associated trough lying across Eastern England is moving Eastwards. There will be general rain for a short time at first in East and Southeast England, otherwise weather will be of a general showery type, with showers rather frequent and intense in the North and Northwest, where they may be accompanied by thunder, but very scattered in the Southeast; it will be generally rather cold.

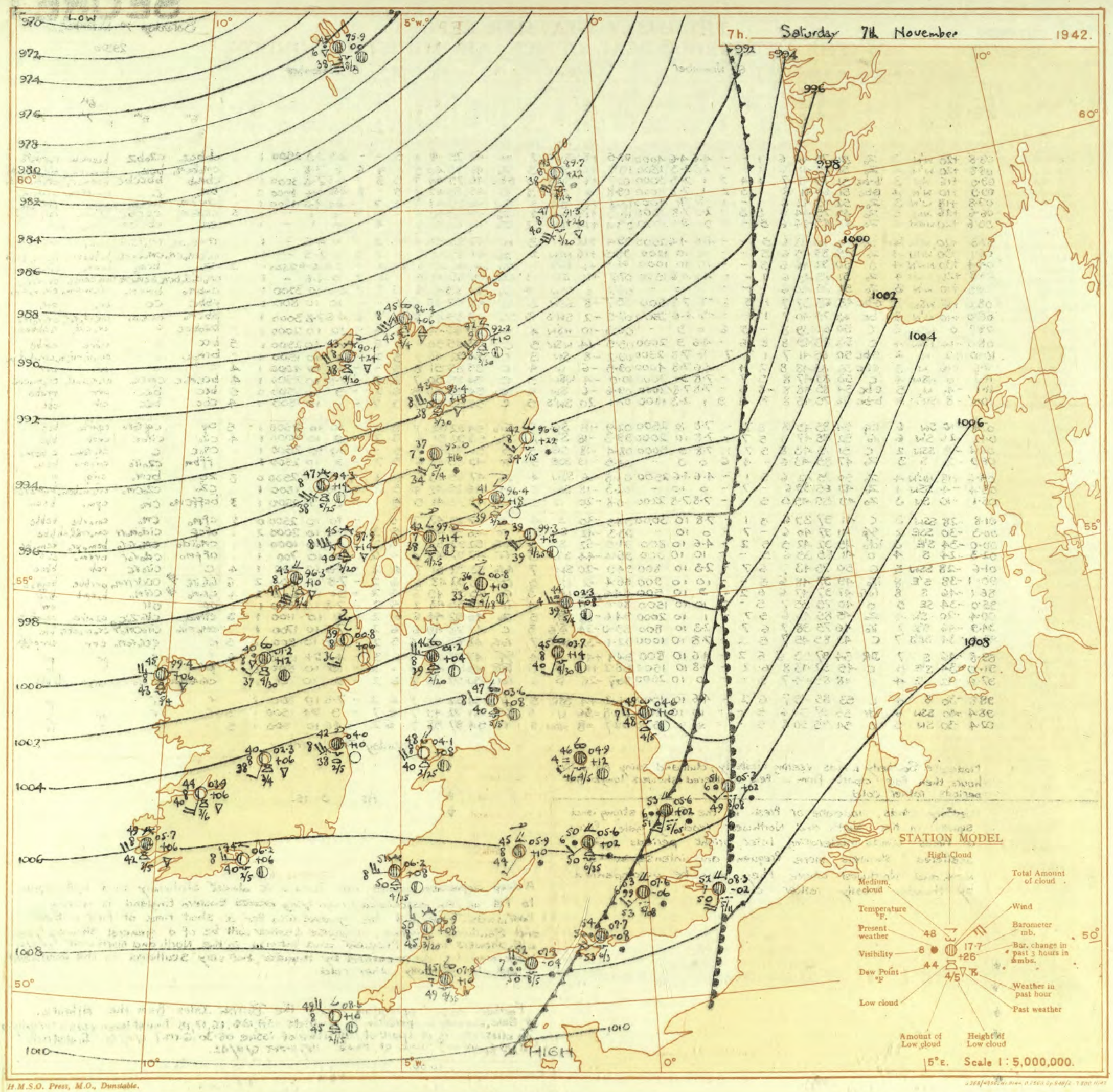
FURTHER OUTLOOK

Further rain spreading across the British Isles from the Atlantic.

↓ Gale Warning in operation in districts 13A, 13B, 16, 17, 18 Time of issue 23·25 G.M.T. 5/11/42. In districts 12, 15 (part of) 18 Time of issue 08·30 G.M.T. 6/11/42. In districts 11, 15 (part of) Time of issue 1115 G.M.T. 6/11/42.

Forecasts issued at 10·30.

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



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

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

Explanation of Frontal Lines shown on Charts

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

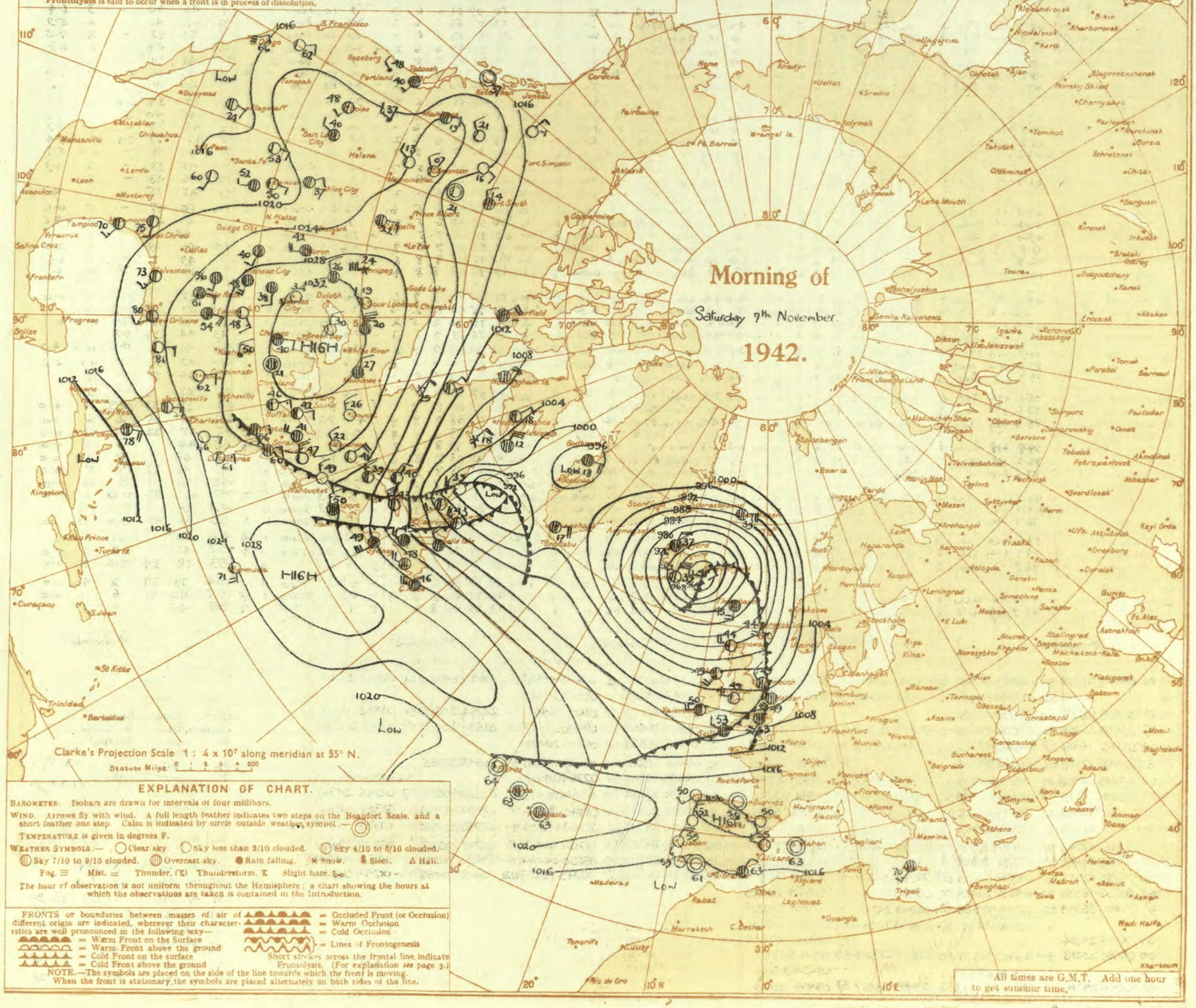
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

BRITISH SECTION

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

Saturday 7th November 1942

No. 29570

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)	°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	*	*	*	*	*	52	*	*	*	*	*	*	*	*	*
	Croydon ...	290	09·3	-6	S'W	4	2	53	85	47	6	5	-	-	4-6	10	3000
	S. Farnborough	226	07·7	-10	SW	4	r₀r₀	53	85	49	6	5	-	-	10	10	1500
	Boscombe Down	417	08·1	-6	S'W	4	ir₀	51	97	51	6	5	-	-	10	10	800
	Thorney Island	10	09·5	-6	WSW	4	r₀r₀	54	85	50	6	5	-	-	10	10	4800
	Lympne ...	283	09·8	-10	WSW	3	c	52	85	47	7	5	2	-	1	10	2500
	Manston ...	154	09·1	-10	SW	3	2₀	51	85	47	6	-	7	-	0	10	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	07·7	-10	SSW	5	2₀	46	85	42	6	5	-	-	10	10	4300
	Gorleston ...	5	06·3	-10	SSW	3	2₀	48	85	44	6	5	-	-	10	10	800
	Mildenhall ...	15	05·9	-14	SSW	4	c	51	85	45	7	5	-	-	10	10	6500
	Cranwell ...	203	03·5	-6	SW	5	2₀	51	85	47	6	-	7	-	0	7-8	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	05·8	-6	SSW	3	r₀r₀	51	97	49	6	5	-	-	2-3	10	600
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	04·2	-2	WSW	6	ir	53	97	53	6	5	2	-	7-8	10	800
	Bristol ...	209	06·6	-6	SW'W	3	ir₀	52	92	51	6	5	-	-	10	10	800
	Portland Bill ...	32	09·0	-2	SSW	5	ir	51	92	49	7	5	-	-	10	10	2500
	Plymouth ...	82	07·7	-8	SW'W	6	r₀r₀	54	97	54	6	5	-	-	10	10	1000
	The Lizard ...	240	06·8	-8	SW'W	7	rr	54	97	54	6	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	06·9	+4	W	3	c/r	53	97	53	7	5	2	-	9	10	800
	Guernsey ...	175															
6	Pembroke ...	142	04·5	+12	W'N	4	bcq	53	85	48	8	2	-	-	4-6	4-6	2500
7	Holyhead (Valley)	32	[illegible]	[illegible]	W'S	4	b-bc	49	75	41	8	2	6	-	Tr	2-3	2500
	Chester (Sealand)	16	02·4	+10	WNW	1	c-bc	53	85	48	7	5	-	-	7-8	7-8	2500
8	Manchester ...	235	02·2	+6	S'W	3	bc/r	50	85	43	6	5	-	-	4-6	4-6	2500
10	Spurn Head ...	29	01·9	-16	SSW	6	c-bcq	49	85	45	7	8	3	-	7-8	7-8	1500
	Catterick ...	175	99·9	+16	NW	3	b-bc/r	50	75	43	6	5	-	-	2-3	2-3	2000
	Tynemouth ...	108	98·7	+18	NW	3	bc/pr	49	85	45	7	2	-	-	4-6	4-6	2500
11	St. Abbs Head	280	95·1	+34	SW	4	b-bc	46	92	44	7	5	-	-	2-3	2-3	4000
	Leuchars ...	36	93·6	+38	W	3	b	44	97	43	8	5	-	-	1	1	1500
12	Renfrew (Abbotsl.)	19	95·8	+24	W	3	bc/pr	44	85	39	8	8	-	-	4-6	4-6	1600
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	99·8	+28	W'N	5	b-bc	47	85	42	8	8	-	-	2-3	2-3	3000
13A	Tiree ...	44	92·2	+14	WSW	5	b-bc	47	75	38	8	2	-	-	2-3	2-3	2500
13B	Stornoway ...	15	87·6	+10	W	5	b-bc	44	75	37	8	3	-	-	2-3	2-3	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	92·5	+54	WSW	4	b-bc	46	75	40	8	5	4	-	2-3	2-3	4000
	Wick ...	114	88·7	+26	SW	4	bc	42	85	39	8	5	-	-	4-6	4-6	3000
16	Sumburgh ..	19	86·1	-14	WSW	6	rr	46	97	45	6	5	2	-	9	10	800
17	Blacksod Point	18	98·3	+10	W	6	bc	47	85	43	8	9	-	-	4-6	4-6	1500
18	Malin Head ...	84	94·7	+14	SSW	5	bc	45	75	39	8	6	-	-	4-6	4-6	1500
	Aldergrove ...	268	98·9	+22	SW	2	b	41	85	38	8	-	-	-	0	0	-
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	04·7	+6	WSW	4	c/pr	50	65	39	8	3	-	-	9	9	2500
	Roches Point	22	04·9	+14	W'S	3	c-bc	46	92	44	8	5	-	-	7-8	7-8	1500

OBSERVATIONS at 7 hr. 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. °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)	06·2	-6	SSW	2	ir₀	52	97	51	6	6	2	-	9	10	1500	1	*
Croydon ...	07·6	-6	SW	3	d₀d₀	53	97	53	6	6	2	-	7-8	10	800	1	*
S. Farnborough	06·0	-6	SW'S	3	rr	53	97	53	5	5	-	-	10	10	1400	1	*
Boscombe Down	06·9	0	W	2	ir₀	50	97	49	6	6	2	-	7-8	10	600	1	*
Thorney Island	07·7	-8	SW	4	r₀r₀	54	97	53	5	5	-	-	9	10	800	2	*
Lympne ...	08·9	-6	S'W	4	d₀d₀	51	97	51	4	5	-	-	10	10	100	1	§4
Manston ...	08·3	-2	S'W	4	c	52	92	50	7	6	2	-	7-8	10	1100	1	*
Shoeburyness ...	08·0	-4	SW	3	r₀r₀	53	92	51	6	6	2	1	7-8	10	1500	1	*
Felixstowe ...	07·1	-2	S'W	4	ir₀	52	92	51	5	6	-	-	10	10	800	1	3
Gorleston ...	05·3	+2	SW'S	3	ir₀	51	92	49	6	6	-	-	10	10	800	1	3
Mildenhall ...	05·6	+2	SSW	3	r₀r₀	53	97	51	6	6	2	-	7-8	10	500	1	*
Cranwell ...	05·1	+10	W	2	2₀	50	85	47	6	5	7	-	7-8	9+	1200	1	*
Birmingham ...	05·8	+8	SW	2	c	45	92	43	6	5	7	-	7-8	9	2500	1	*
Upper Heyford	05·6	+2	WSW	2	ir₀	50	97	50	6	8	2	-	9	10	3500	1	*
Ross-on-Wye	05·9	+10	SW'S	1	c-bc	45	92	44	8	-	2	2	0	7-8	-	1	*
Hartland Point	06·9	+8	NW	3	bc	50	85	45	8	5	6	-	2-3	4-6	2000	1	5
Bristol ...	07·4	+10	SW	1	2₀	50	97	49	6	5	7	-	9	10	2500	1	*
Portland Bill ...	07·2	-4	WNW	4	rr	52	92	50	7	5	-	-	10	10	2500	1	5
Plymouth ...	07·9	+10	WNW	4	c-bc	51	92	49	7	5	7	-	4-6	7-8	3500	1	3
The Lizard ...	08·4	+14	NW	4	bc	51	75	45	8	8	6	-	4-6	4-6	2000	1	4
Scilly (St. Mary's)	08·6	+10	WNW	4	b-bc	49	85	45	8	8	4	-	1	2-3	1500	1	4
Guernsey ...																	
Pembroke ...	06·2	+8	W	5	c-bcq	51	65	40	8	8	6	-	4-6	7-8	2500	1	4
Holyhead (Valley)	04·1	+8	WSW	4	b-bc	48	75	40	8	2	4	3	1	2-3	2500	1	3
Chester (Sealand)	04·5	+10	WSW	1	c	46	75	40	6	5	2	5	4-6	9+	2500	1	*
Manchester ...	04·7	+14	SSE	2	c-bc	45	85	39	7	5	3	-	7-8	7-8	4000	1	*
Spurn Head ...	04·6	+10	W	3	c-bc	49	92	48	7	7	3	-	4-6	7-8	2500	1	3
Catterick ...	03·7	+14	SSW	2	c	45	85	40	8	5	7	-	4-6	9	3000	1	*
Tynemouth ...	02·3	+8	W	3	m	44	85	39	4	5	-	-	7-8	7-8	1500	1	3
St. Abbs Head	99·3	+16	SW	4	bc	39	97	39	7	5	-	-	4-6	4-6	3500	0	5
Leuchars ...	96·4	+18	WSW	2	c	41	97	39	8	7	1	3	2-3	9	2000	1	*
Renfrew (Abbotsl.)	99·0	+14	SW	1	c-bc	42	85	38	7	8	4	2	4-6	7-8	2500	1	*
Eskdalemuir ...	00·8	+10	SSW	5	c-bc	36	92	33	6	5	4	1	4-6	7-8	1800	1	*
Point of Ayre ...	01·2	+4	W'N	5	c	46	75	39	8	8	7	-	1	9	2000	1	4
Tiree ...	94·3	+14	SW	5	c-bc	47	75	38	8	3	6	-	7-8	7-8	2500	1	5
Stornoway ...	90·1	+24	WSW	4	c-bc	43	85	38	8	3	6	3	4-6	7-8	2000	1	
Dalwhinnie ...	95·0	+16	SSW	4	ir	37	92	34	7	5	-	-	7-8	7-8	1500	1	*
Aberdeen † ...	96·6	+22	SW'S	3	bbc	42	75	34	8	5	5	-	Tr	2-3	1500	1	2
Wick ...	92·2	+10	SW	4	rbc	42	85	38	9	8	1	-	2-3	2-3	3000	0	*
Sumburgh ..	91·3	+26	SSW	6	b-bc	47	75	40	8	5	-	-	2-3	2-3	2000	1	5
Blacksod Point	99·4	+6	W	5	c-bc/pr	45	92	43	8	9	-	-	7-8	7-8	1500	1	4
Malin Head ...	96·3	+10	S'W	5	c/pr	43	92	41	8	2	2	-	4-6	9	1500	2	4
Aldergrove ...	00·8	+6	SSW	3	b-bc	39	85	36	8	-	4	3	0	2-3	-	1	*
Birr Castle ...	02·3	+6	SSW	2	b-bc	40	92	38	8	3	-	-	2-3	2-3	1500	1	*
Valentia Obsy.	05·7	+6	SW'W	4	c/pr	49	75	42	8	3	6	-	2-3	9	2500	1	5
Roches Point	06·2	+6	W	3	b-bc	44	85	40	8	5	-	5	1	2-3	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 6th Hrs. (38)
London (Kew)	51	46	40	-	3	6·4
Croydon ...	52	46	41	-	2	5·9
S. Farnborough	53	53	42	-	3	7·5
Boscombe Down	52	44	44	-	8	6·8
Thorney Island	54	48	40	0·1	3	*
Lympne ...	50	43	36	0·1	1	1·9
Manston ...	51	40	39	2	0·1	*
Shoeburyness ...	51	49	34	0·6	1	3·1
Felixstowe ...	51	45	40	3	*	1·2
Gorleston ...	52	43	38	-	1	1·3
Mildenhall ...	51	43	38	0·1	2	4·4
Cranwell ...	51	44	41	-	0·4	5·7
Birmingham ...	50	45	38	-	2	2·9
Upper Heyford	49	46	43	-	2	*
Ross-on-Wye	51	45	35	-	1	4·1
Hartland Point	54	50	47	-	5	0·6
Bristol ...	53	49	47	-	4	4·5
Portland Bill ...	55	49	*	-	6	*
Plymouth ...	55	51	49	-	8	2·5
The Lizard ...	56	49	*	-	6	4·6
Scilly (St. Mary's)	57	49	*	Tr	0·3	4·5
Guernsey ...						
Pembroke ...	55	48	*	-	5	0·0
Holyhead (Valley)	54	47	42	0·8	4	*
Chester (Sealand)	52	45	36	Tr	0·4	0·7
Manchester ...	49	44	34	0·2	1	*
Spurn Head ...	50	46	*	0·6	0·4	4·7
Catterick ...	49	42	34	-	0·1	2·9
Tynemouth ...	49	44	37	-	1	*
St. Abbs Head	47	38	*	-	2	*
Leuchars ...	48	39	33	0·5	4	0·0
Renfrew (Abbotsl.)	52	41	34	2	6	0·0
Eskdalemuir ...	47	35	32	2	13	0·0
Point of Ayre ...	53	44	*	3	2	0·0
Tiree ...	52	44	*	7	2	0·0
Stornoway ...	51	41	38	8	5	0·0
Dalwhinnie ...	45	36	31	3	16	0·0
Aberdeen † ...	47	41	34	0·3	2	0·0
Wick ...	47	39		0·3	0·3	*
Sumburgh ..	50	45	41	0·6	13	0·0
Blacksod Point	56	42	*	21	8	*
Malin Head ...	53	43		6	3	0·0
Aldergrove ...	53	38	34	0·6	3	0·0
Birr Castle ...	56	39	33	2	4	0·0
Valentia Obsy.	56	45	41	6	1	0·0
Roches Point	55	44	*	4	1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 6th November				18h. G.M.T.				01h. G.M.T. 7th November				07h. G.M.T.			
IIIC_LC_M	wwVhN_h	DDFWN	C_LC_M	wwVhN_h	DDFWN	C_LC_M	wwVhN_h	DDFWN	C_LC_M	wwVhN_h	DDFWN	C_LC_M	wwVhN_h	DDFWN	C_LC_M
109 02	64668	46728	52	02645	46768	8-	01764	18464	30	01862	49512				
115			52	62735	16668	52	02836	20368	87	27844	87686				
203 63	03838	16728	6-	66728	16868										
206 57	02855	20468	52	02856	48628	50	01853	20363	80	25863	55583				
210 52	62763	16467	57	02755	47228	00	00890	20360	50	00861	20401				
220 62	64436	17868	62	66436	24368				80	25785	21285				
230 62	64645	14368	62	64845	16468	30	27853	49483	9-	11755	16385				
245 07	05620	18228	52	05647	15558	50	01851	21361	54	01861	22304				
260 57	05665	16348	62	65645	17668	5-	61665	51365	54	01753	18314				
278 5-	51748	16358	5-	05648	49568	50	01751	22411	57	02841	20417				
279 57	05665	17247	02	62646	53768	00	00890	2360	70	01864	22415				
285 51	05624	24417	5-	02628	20558				17	01852	20114				
288 00	02790	17248	57	05654	14428	57	22762	19423	57	02861	17317				
575 62	52736	16558	62	64636	20468	00	00890	24400	37	81864	20225				
301 07	05690	16348	52	22554	49568	54	02763	24313	87	02855	24225				
321			01	05590	18224	57	05653	20564	57	05654	00025				
299 30	01744	28314							07	01790	22214				
292 00	05690	23218	5-2	05565	16328	50	22664	22364	53	05665	17117				
310			--	01734	24414				--	01634	08314				
614 07	05590	24211				52	05655	53467	57	08454	22126				

13h. G.M.T. 6th November				18h. G.M.T.				01h. G.M.T. 7th November				07h. G.M.T.			
IIIC_LC_M	wwVhN_h	DDFWN	C_LC_M	wwVhN_h	DDFWN	C_LC_M	wwVhN_h	DDFWN	C_LC_M	wwVhN_h	DDFWN	C_LC_M	wwVhN_h	DDFWN	C_LC_M
333 52	02744	16358	52	64645	49568	50	01853	24363	14	02861	24217				
334 --	03647	28228	--	03547	20528										
340 07	02790	24215	57	02655	1646	5-	22754	20365	50	02863	16116				
136 50	05645	26455	03	08490	22327	02	62690	20468	5-	61647	22368				
336 57	02755	24328	57	05646	20428										
350 10	05661	24321	52	05657	08328	5-	61648	51568							
368 57	02855	22318	57	02754	24417				54	02754	00015				
379 04	05690	22324	5-	05648	18428	5-	62528	55558	57	02746	24367				
390 10	05553	28423	00	08490	20214	5-	08458	18348	5-	52328	10368				
382 08	01790	24302	57	02863	19324	5-	62758	20468	5-	62628	23168				
498 50	05643	24313	54	01753	26413	8-	02748	22528	--	67009	22569				
430 10	01752	23322	04	05690	00014	5-	63638	20328	5-	54438	54568				
409 24	01854	21624	57	02745	19527	02	62618	20468	53	01754	26324				

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 7th 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 * ...	dbbc2₀	c2₀b2	bcom₀fof₀	
Croydon ...	c₀bbcm₀	bc2₀	bcm₀c₀f₀fm₀	
Greenwich ...	bc	bc	bccrdof	Kew 24 hours ended 7h.
Camden Square	b	bc	*	Max. 0·3 Time 7th 6th
*Kensington ...	bc	bc	*	
Hampstead ...	bc	bcor	or	Min. 0·1 Time 0-5h 7th

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	46	40	-	3	6·4	*	*
Croydon	52	46	41	-	2	5·9	*	*
Greenwich	51	47	36	-	5	5·7	63	94
Westminster	54	46	40	6			77	97
Regents Park	*	44	42	-	6		65	93
Camden Square	48	48	40	-	7	*	*	94
Kensington	53	45	34	-	6		69	96
Hampstead	51	45	38	-	8		*	97

Page 1 BRITISH SECTION

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

SECRET

Sunday 8th November 1942

No. 29571

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)	07·4	+2	W'N	3	zo	53	75	45	6	8	3	3	2-3	7-8	4000
	Croydon	08·0	-2	WSW	2	zo	53	75	47	6	8	-	-	2-3	7-8	3000
	S. Farnborough	07·9	+4	WNW	3	b-bc	53	75	45	8	8	7	4	2-3	2-3	2500
	Boscombe Down	09·7	+16	W	4	c-bc	52	65	41	8	2	6	1	4-6	7-8	2500
	Thorney Island	08·4	-2	W'S	4	bc	55	75	47	8	2	6	1	4-6	4-6	2500
	Lympne	07·8	-6	NW	2	c/+	50	97	49	7	6	2	-	10	10	4000
	Manston	07·4	-6	SW	3	roro	51	92	50	4	5	-	-	10	10	500
2	Shoeburyness	08·1	+2	W	2	ir	53	85	50	5	-	2	-	10	10	1500
	Felixstowe	06·1	-2	W	3	iro	51	85	48	7	8	-	-	9+	9+	2500
	Gorleston	05·6	-6	W'N	2	iro	52	92	50	6	6	-	-	10	10	800
	Mildenhall	06·3	+2	W'N	3	c-bc	53	85	49	6	8	7	-	4-6	7-8	1800
	Cranwell	06·1	0	W	3	c-bc	51	75	43	7	2	3	-	Tr	7-8	2500
3	Birmingham	07·0	+2	WSW	4	bc	51	55	36	8	8	-	-	4-6	4-6	2500
	Upper Heyford	07·0	+2	WNW	4	bc	52	65	39	8	2	-	-	4-6	4-6	2000
4	Ross-on-Wye	07·5	0	W'S	3	b-bc	51	65	39	8	2	3	-	1	2-3	3500
5	Hartland Point	08·8	+6	WNW	3	c-bc/pr	52	75	45	8	2	4	3	2-3	7-8	2500
	Bristol	09·3	+4	W'S	4	bc	53	65	42	7	2	6	-	2-3	4-6	2300
	Portland Bill	09·6	+20	W	4	c	54	95	50	8	2	4	1	7-8	9	4000
	Plymouth	10·6	+6	W	4	c	54	75	45	8	2	-	2	4-6	9	3000
	The Lizard	11·0	+10	W'N	5	c-bc	54	65	43	8	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	11·3	+6	W'N	5	c	53	65	42	8	8	6	-	7-8	9+	1500
	Guernsey															
6	Pembroke	07·5	+4	W'S	5	pr	50	75	41	8	8	4	-	4-6	7-8	2500
7	Holyhead (Valley)	05·4	-2	SW'S	5	bc	51	65	41	8	3	6	3	4-8	4-6	2500
	Chester (Sealand)	03·7	+2	W	3	b-bc	52	65	39	8	2	-	-	2-3	2-3	2500
8	Manchester	06·0	-2	SW'S	4	bc	52	63	39	8	2	4	1	4-6	4-6	2500
10	Spurn Head	03·4	+4	W	2	Gbc	51	75	43	7	2	3	1	2-3	7-8	2600
	Catterick	04·5	+2	S	2	c/pr	46	75	40	7	8	3	-	4-6	9	2000
	Tynemouth	09·2	-4	SSW	2	zo	48	75	41	5	5	3	1	4-6	7-8	2500
11	St. Abbs Head	00·2	0	SW	4	oc	47	75	38	7	5	4	-	2-3	4-6	3500
	Leuchars	99·3	0	SSW	5	b-bc	48	85	43	7	2	4	-	2-3	2-3	2000
12	Renfrew (Abbots I.)	00·4	+4	SW'S	3	c-bc	49	75	40	7	8	-	-	7-8	7-8	2500
	Eskdalemuir	00·9	-4	SW'W	4	c-bc	45	76	35	8	8	-	-	7-8	7-8	1800
	Point of Ayre	02·7	+4	W	5	b	51	65	41	8	2	-	9	1	1	2000
13A	Tiree	96·4	+6	WSW	5	pr	48	75	40	8	3	6	3	4-6	7-8	2500
13B	Stornoway	93·7	+14	SSW	3	bc	45	85	41	8	3	6	-	4-6	4-6	1500
15	Dalwhinnie	98·0	+2	SSW	3	c-bc	40	85	35	7	8	9	-	4-6	7-8	1500
	Aberdeen	99·0	+2	SSW	3	b	47	75	38	8	5	4	9	Tr	1	3500
	Wick	96·2	+12	SSW	3	c	48	65	39	9	8	8	6	4-6	9	3000
16	Sumburgh	94·4	+10	SSW	6	c-bc	49	75	42	8	1	4	3	4-6	7-8	2000
17	Blacksod Point	02·6	+16	WSW	5	bc	49	85	45	8	8	-	-	4-6	4-6	2500
18	Malin Head	98·8	+10	W'S	5	pr	46	85	42	8	9	2	-	7-8	9	2500
	Aldergrove	01·6	-2	SW	5	b-bc	48	75	38	8	3	7	3	1	2-3	2500
19	Birr Castle	05·2	+6	SSW	2	b-bc	48	75	44	8	5	-	-	2-3	2-3	2500
20	Valentia Obsy.	08·6	+12	W'S	5	bc/pr	49	85	45	8	3	-	-	4-6	4-6	2500
	Roches Point	08·3	+6	W'N	3	bc	51	65	39	8	3	3	-	4-6	4-6	1300

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. °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)	10·7	+22	WSW	2	bc	48	75	42	4	-	-	2	0	4-6	-	1	*
Croydon	11·2	+26	SSW	3	zo	48	85	42	5	-	4	2	0	4-6	-	1	*
S. Farnborough	10·8	+18	W	3	c-bc	47	75	41	7	5	5	2	Tr	7-8	2000	1	*
Boscombe Down	11·5	+18	SW'W	2	bc	43	92	41	7	4	7	1	Tr	4-6	2000	0	*
Thorney Island	11·2	+18	W'N	3	bc	48	85	44	7	5	4	6	2-3	4-6	4000	1	*
Lympne	11·0	+22	SW	2	zo	47	97	46	6	-	-	2	0	4-6	-	1	§
Manston	09·7	+18	W	2	zo	47	97	46	6	-	3	1	0	4-6	-	1	*
Shoeburyness	10·2	+20	WSW	2	m	47	97	46	4	5	-	-	4-6	4-6	4000	1	*
Felixstowe	08·9	+16	WSW	3	zo	49	75	41	6	-	7	1	0	4-6	-	1	2
Gorleston	07·0	+14	W	2	zo	49	85	46	5	2	7	1	2-3	4-6	2500	1	3
Mildenhall	08·7	+20	WSW	3	bc	44	85	41	8	4	-	8	Tr	4-6	3000	1	*
Cranwell	07·6	+12	WSW	3	b	44	85	39	7	-	-	-	0	0	-	1	*
Birmingham	09·3	+14	SW	3	b	44	85	39	7	5	-	-	Tr	Tr	2500	1	*
Upper Heyford	09·2	+14	WSW	2	b-bc	44	85	39	7	-	4	1	0	2-3	-	1	*
Ross-on-Wye	09·9	+16	SW	2	pr	46	85	40	8	3	-	3	2-3	4-6	3000	1	*
Hartland Point	11·0	+18	WNW	4	c-bc/pr	51	75	45	8	2	6	-	4-6	7-8	2500	1	4
Bristol	11·5	+10	WSW	3	pro	47	85	48	6	3	6	3	7-8	9	1500	1	*
Portland Bill	11·5	+16	W	4	c	52	85	48	8	5	-	-	10	10	4000	1	4
Plymouth	12·5	+14	WSW	4	b-bc	50	85	45	6	4	-	1	2-3	2-3	4000	1	3
The Lizard	12·5	+8	W'N	6	c-bc	51	75	43	8	8	6	-	7-8	7-8	1500	1	4
Scilly (St. Mary's)	13·2	+14	W'N	5	c-bc	51	75	43	8	8	2	-	4-6	7-8	1200	1	4
Guernsey																	
Pembroke	10·0	+16	W'N	5	c-bcq	50	65	39	8	2	6	8	4-6	7-8	2500	1	4
Holyhead (Valley)	07·6	+13	W	5	b-bc	48	65	39	8	2	6	-	1	2-3	3000	1	4
Chester (Sealand)	07·4	+18	WSW	2	b-bc	45	75	38	7	7	-	-	2-3	2-3	2500	0	*
Manchester	07·6	+14	S'W	3	b	43	85	37	7	4	-	-	1	1	2500	1	*
Spurn Head	06·8	+12	WSW	3	zo	47	75	39	6	4	-	-	2-3	2-3	2500	0	3
Catterick	05·6	+10	SSW	2	zo	42	85	39	6	3	-	-	4-6	4-6	3000	1	*
Tynemouth	04·7	+12	WSW	2	zo	44	85	38	5	2	-	-	4-6	4-6	2500	1	3
St. Abbs Head	02·2	+16	SW	3	b-bc	42	85	37	7	5	-	-	2-3	2-3	2500	0	3
Leuchars	01·5	+18	SW	2	abc/pr	43	97	43	6	8	3	-	4-6	7-8	2500	1	*
Renfrew (Abbots I.)	02·6	+10	SW	2	bc	43	85	38	6	3	-	-	4-6	4-6	3000	1	*
Eskdalemuir	03·4	+16	SSE	2	c-bc	39	85	36	8	5	7	-	7-8	7-8	1800	1	*
Point of Ayre	04·9	+16	WNW	6	b-bc	48	65	39	8	8	-	-	2-3	2-3	2000	0	4
Tiree	00·7	+30	W'S	4	b-bcjp	45	85	39	8	3	6	3	2-3	2-3	2000	1	4
Stornoway	97·2	+26	WSW	3	bcjp	41	92	39	8	3	6	2	2-3	4-6	1500	1	
Dalwhinnie	00·0	+16	SSW	3	bc	37	85	34	7	5	-	-	4-6	4-6	2500	1	1
Aberdeen	00·0	+10	SW	2	b	43	85	37	6	5	4	8	Tr	1	5000	1	2
Wick	97·9	+10	SSW	3	bc	42	85	38	9	8	4	-	4-6	4-6	2500	0	*
Sumburgh	96·9	+10	SW	5	b	48	75	42	9	1	-	-	1	1	2500	1	5
Blacksod Point	07·3	+34	W	5	bc	48	85	44	9	9	-	-	4-6	4-6	2500	1	4
Malin Head	02·3	+30	W'N	4	bc	47	75	39	8	9	-	-	4-6	4-6	2500	2	4
Aldergrove	04·7	+22	WSW	3	bc/pr	43	88	39	7	5	-	-	4-6	4-6	1600	1	*
Birr Castle	08·5	+24	W	2	bc	45	85	41	8	3	-	-	4-6	4-6	800	1	*
Valentia Obsy.	12·4	+30	WNW	4	pr	50	75	42	8	3	-	-	4-6	4-6	2500	1	4
Roches Point	11·3	+26	W'N	3	b	47	75	39	8	3	-	-	1	1	1500	1	4

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)	Rrorproc	y-bczw	bbcbw	bmowx
Croydon	cdodcid	cmobcm	bcmdbmo	bmo
S. Farnborough	crmororrcbc	bccbcc	cdbcbw	bwx
Boscombe Down	cbc	bccprobc	bcprobmo	bx
Thorney Island	rordroc	bccbc	b	bmobw
Lympne	odormro	cprobcmo	bmow	bmowmox
Manston	cdodormo	crorom cmo	bcbmo	bmow
Shoeburyness	RRcrrm	rrmobcm	bcmb	cmo
Felixstowe	iroroiro	cirocmbcm	bcbmo,w	bmow
Gorleston	oiroir	bczo	bzow	b
Mildenhall	cmororcmo iro	cmobc	bcbbmo	bbcmow
Cranwell	bcrc	c,b	bbmo	bmo
Birmingham	cbc	bc	b	b
Upper Heyford	irocmobc	bcb	bbmo	bmox
Ross-on-Wye	cbcbbc	bc	b	b
Hartland Point	bccpr	cprb	cbcpr	bc
Bristol	cprobcmo	bccPR	b	bbx
Portland Bill	c	c	bcbc	bc
Plymouth	cbbcc	cjprbc	bprmob	bmo
The Lizard	bcc	cprc	cbcpr	cprbc
Scilly (St. Mary's)	bccpc	cp	cbcpo	bc
Guernsey				
Pembroke	cqpr	pRcc	bc	bcq
Holyhead (Valley)	cbbc	cprobc	bcb	b
Chester (Sealand)	cmobc	bc	bcb pro	bprocmo
Manchester	cmo	bcb	bprbc	bcpr
Spurn Head	cmo	bcmo	b	bcmo
Catterick	bccbc	cbcbmo	bmo	bmdbw
Tynemouth	cbccm	cbcmo	bcbmo	bmbc
St. Abbs Head	cproc	bbcb	bc	bc
Leuchars	ccjpbc	bccprmo	cmobmo	bx
Renfrew (Abbots I.)	bc	bcpr	bcprob	cpro
Eskdalemuir	cbc	probc	bcpro	bcpro
Point of Ayre	cbcb	bbccb	b	bbc
Tiree	bcprpro	bcprojp	d,cprPR	b,cprpro
Stornoway	cPRcpr	bcjp	bc	bcpro
Dalwhinnie	cpr	cprbc	*	bcprc
Aberdeen	bcb	bczbzo	bzox	bx
Wick	bccx	bc	bcbbc	bcprbc
Sumburgh	bc	bcb	bbc	bcprbc
Blacksod Point	bc	bc	bc	c
Malin Head	pr	pr	pr	pr
Aldergrove	b	bbcpR	cbcb	bbcc
Birr Castle	pr	pr	*	pr
Valentia Obsy.	pr	pr	pr	bc
Roches Point	pr	bc	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 8th November 1942

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Light to moderate West wind, backing; fair or fine; good visibility by day, rather general fog latter part of night; mild by day but slight 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	Light or moderate West wind backing Southerly; fair apart from some fog patches around dawn; mild by day but slight frost locally at night.
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	West to Southwest winds, freshening, perhaps strong to gale on Northwest seaboard later; fair at first apart from a few scattered showers; rain spreading from West later; mild becoming colder
16 Orkneys and Shetlands; 17 N. W. Ireland; 18 N. E. Ireland	As 12-15.
19 S. E. Ireland	As 5-11.
20 S. W. Ireland	As 12-18.

GENERAL INFERENCE

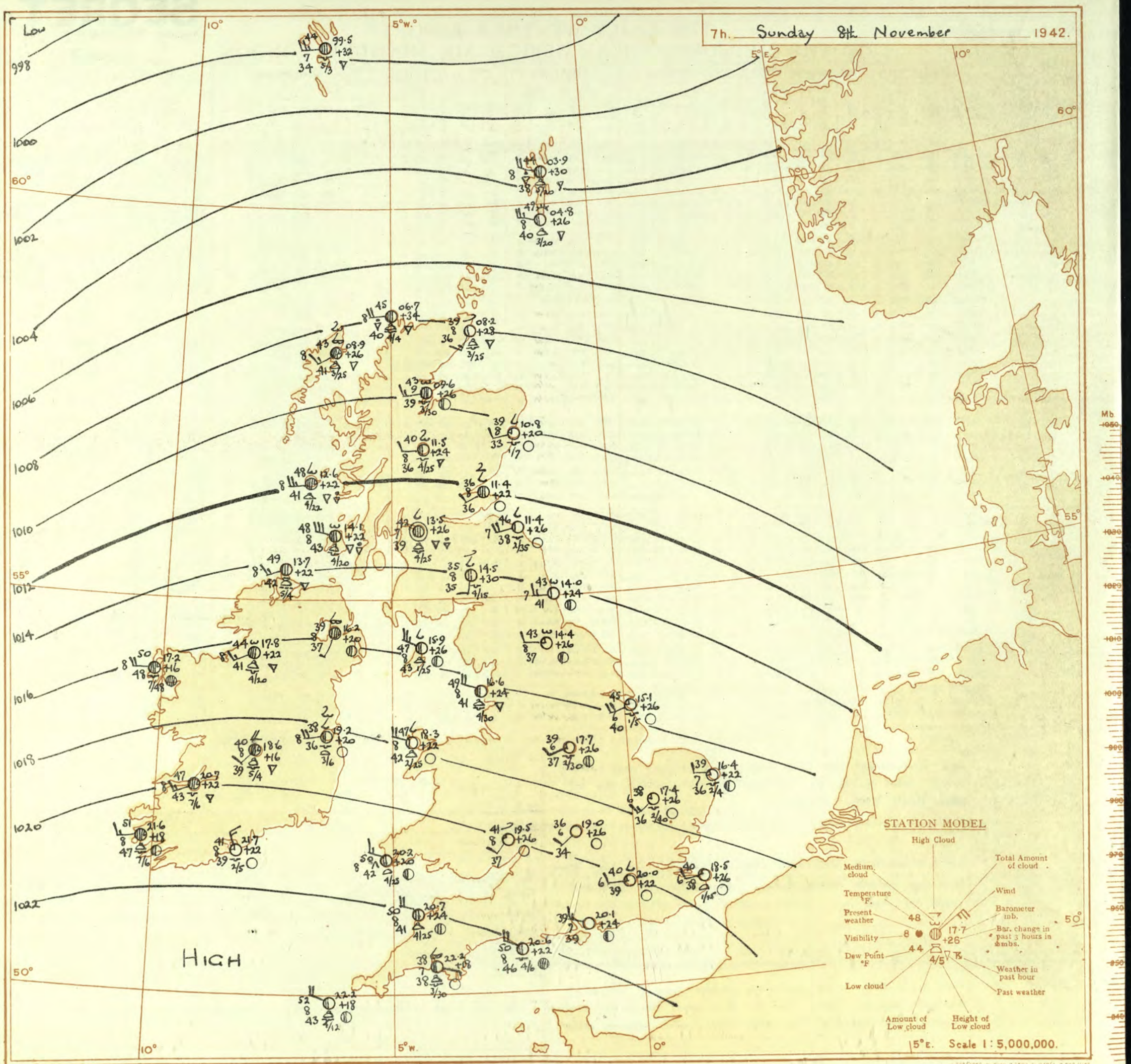
An anticyclone centred Southwest of the British Isles is moving east-northeast and a trough of low pressure is approaching our Northwest Seaboard from the Atlantic. Weather will be mainly fair or fine at first but rain will spread into Scotland and Ireland later and rather general fog will develop over much of England tonight.

FURTHER OUTLOOK

Rain at times in the North and West. Mainly fair elsewhere

Forecasts issued at 10·30

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



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

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

Explanation of Frontal Lines shown on Charts

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

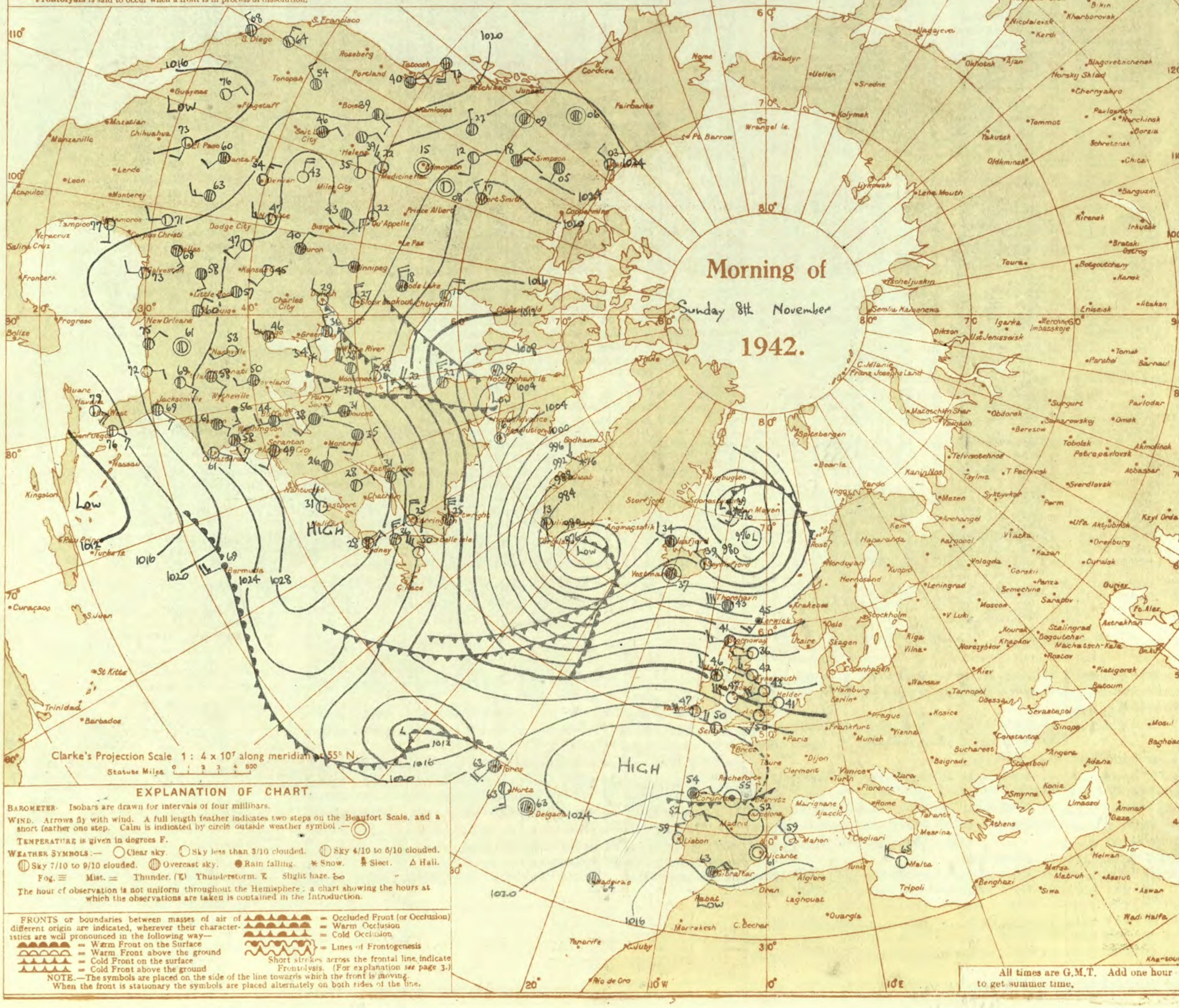
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

BRITISH SECTION

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

SUNDAY 8th November 1942

No. 29571

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)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud 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	15.5	+18	SW	3	b	43	92	41	5	-	-	-	0	0	-
	S. Farnborough	226	15.0	+18	WSW	2	b	41	92	39	8	-	-	-	0	0	-
	Boscombe Down	417	16.0	+22	W	2	zo	41	92	39	6	-	-	-	0	0	-
	Thorney Island	10	15.3	+18	NW	2	zo	42	92	40	6	-	-	-	0	0	-
	Lympne	283	14.8	+30	W	1	zo	39	97	38	6	-	-	-	0	0	-
	Manston	154	13.6	+22	W	1	zo	42	92	39	6	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	13.2	+18	WSW	3	zo	43	92	41	6	-	-	-	0	0	-
	Gorleston	5	11.4	+14	W'N	2	zo	41	85	37	6	-	-	-	0	0	-
	Mildenhall	15	12.8	+14	SW'W	3	zo	39	92	38	6	-	-	-	0	0	-
	Cranwell	203	12.2	+24	W'S	3	zo	40	92	38	6	-	4	-	0	Tr	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	14.1	+24	SW	1	zo	37	97	36	6	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	16.2	+26	NW	4	b-bc	50	75	41	8	2	-	-	2-3	2-3	2500
	Bristol	209	15.9	+22	W	2	b	41	92	38	7	-	-	-	0	0	-
	Portland Bill	32	16.2	+22	W	4	bc	50	85	46	8	5	-	-	4-6	4-6	4000
	Plymouth	82	17.6	+20	WSW	2	b-bc	45	92	42	7	8	-	-	2-3	2-3	2500
	The Lizard	240	17.9	+20	NW	5	bc/pr	50	75	43	8	8	-	-	4-6	4-6	2000
	Scilly (St. Mary's)	163	18.4	+20	NW	4	b-bc	50	85	45	8	8	-	-	2-3	2-3	1500
	Guernsey	175															
6	Pembroke	142	15.8	+20	NW	4	b-bcq	58	75	50	8	2	-	-	2-3	2-3	2500
7	Holyhead (Valley)	32	13.4	+26	W'N	5	b	47	75	40	8	-	-	-	0	0	-
	Chester (Sealand)	16	12.6	+24	W	3	b	46	75	39	6	5	-	-	1	1	3500
8	Manchester	235	11.8	+14	SW	3	bc/pr	41	92	39	7	2	-	-	4-6	4-6	2500
10	Spurn Head	29	10.4	+14	W'S	4	b	43	85	37	7	-	-	-	0	0	-
	Catterick	175	10.0	+20	WSW	2	zo	41	85	37	6	5	-	-	Tr	Tr	3000
	Tynemouth	108	08.5	+18	NW	3	zo	42	92	40	5	-	-	-	0	0	-
11	St. Abbs Head	280	06.0	+14	WSW	3	b	40	92	38	7	5	-	-	Tr	Tr	4000
	Leuchars	36	06.0	+26	-	0	b	36	97	36	8	-	4	-	0	Tr	-
12	Renfrew (Abbots I.)	19	08.0	+26	W	1	b	40	92	38	7	5	-	-	1	1	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	10.4	+28	NW'W	6	b	47	85	43	8	4	-	-	Tr	Tr	3000
13A	Tiree	44	07.4	+28	W'N	4	b/pr	45	85	40	8	3	-	3	Tr	1	1500
13B	Stornoway	15	03.9	+30	W	3	b	41	92	39	8	2	6	3	Tr	Tr	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	05.1	+30	W	1	b	36	85	33	9	-	-	-	0	0	-
	Wick	114	02.5	+26	SSW	3	b-bc	39	85	35	9	8	-	-	2-3	2-3	2500
16	Sumburgh	19	99.9	+14	SW	6	bc	47	85	44	8	2	4	-	2-3	4-6	2000
17	Blacksod Point	18	13.8	+26	WNW	2	b	47	85	43	8	5	-	-	1	1	4000
18	Malin Head	84	09.1	+26	WNW	3	bc	46	75	38	8	9	-	-	4-6	4-6	1500
	Aldergrove	268	11.4	+30	SW	2	b	39	97	38	7	5	-	-	1	1	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	18.2	+22	W'S	4	b	47	85	43	8	2	-	-	1	1	2500
	Roches Point	22	17.8	+26	W	3	b	45	85	41	8	5	-	-	Tr	Tr	2500

OBSERVATIONS at 7 hr. 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)	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)	19.9	+28	-	0	zo	37	97	36	6	-	-	-	0	0	-	1	*
Croydon	20.0	+22	W	2	zo	40	92	39	6	-	4	-	0	Tr	-	1	*
S. Farnborough	20.2	+28	W	2	b	38	92	35	8	-	-	-	0	0	-	1	*
Boscombe Down	20.7	+28	W	2	b	37	97	37	7	5	-	-	Tr	Tr	3500	1	*
Thorney Island	20.1	+24	WNW	3	b	39	97	39	7	-	-	-	0	0	-	1	*
Lympne	19.2	+24	WNW	1	zo	35	97	35	5	-	-	-	0	0	-	1	§
Manston	18.5	+26	W	2	zo	40	92	38	6	1	-	-	Tr	Tr	1500	1	*
Shoeburyness	18.4	+10	W	3	zo	40	92	38	6	-	-	-	0	0	-	1	*
Felixstowe	17.4	+20	W'S	2	zo	40	92	38	6	-	+	-	0	0	-	1	2
Gorleston	16.4	+22	W'N	2	b	39	92	36	7	5	-	-	1	1	1500	1	2
Mildenhall	17.4	+26	SW'W	3	zo	38	92	36	6	5	-	-	1	1	4000	1	*
Cranwell	16.5	-24	W'S	4	zo	40	92	37	6	-	4	-	0	Tr	-	0	*
Birmingham	18.6	+26	WSW	3	b	40	85	36	7	-	-	1	0	Tr	-	1	*
Upper Heyford	19.0	+26	SW'W	2	zo	36	97	34	6	-	-	-	0	0	-	1	*
Ross-on-Wye	19.5	+26	SW	2	b	41	85	37	8	-	-	1	0	Tr	-	1	*
Hartland Point	20.7	+24	NW	4	bc	50	75	41	8	2	-	-	4-6	4-6	2500	1	4
Bristol	21.1	+32	E	1	b	39	97	37	7	-	4	-	0	Tr	-	1	*
Portland Bill	20.6	+22	NW	4	bc	50	85	46	8	5	-	-	4-6	4-6	4000	1	4
Plymouth	22.2	+18	ESE	1	zo	38	97	38	7	8	7	-	2-3	4-6	3000	1	1
The Lizard	21.8	+14	NW	4	bc	47	85	43	8	8	-	-	4-6	4-6	2000	1	3
Scilly (St. Mary's)	22.2	+18	NW	4	bc	52	75	43	8	8	-	-	4-6	4-6	1200	1	4
Guernsey																	
Pembroke	20.2	+20	NW	3	bcq	50	75	42	8	1	-	-	4-6	4-6	2500	1	3
Holyhead (Valley)	18.3	+22	WNW	4	b-bc	47	85	42	8	2	4	-	1	2-3	2500	1	3
Chester (Sealand)	17.6	+28	W	3	b-bc	47	75	40	8	8	-	-	1	2-3	3000	1	*
Manchester	17.0	+26	SW	3	pr	43	92	41	6	2	-	-	7-8	7-8	1500	1	*
Spurn Head	15.1	+26	W'S	4	b	45	85	40	6	5	-	-	Tr	Tr	2500	0	3
Catterick	14.4	+26	W'N	2	b	43	85	37	8	-	3	-	0	Tr	-	1	*
Tynemouth	14.0	+24	W	3	b-bc	43	92	41	7	-	3	-	0	2-3	-	1	3
St. Abbs Head	11.4	+26	W	4	b-bc	46	75	38	7	5	4	-	1	2-3	3500	0	3
Leuchars	11.4	+22	WSW	2	c-bc	36	97	36	8	-	4	6	0	7-8	-	1	*
Renfrew (Abbots I.)	13.5	+26	-	0	c-bc/pr	42	92	39	7	8	4	-	4-6	7-8	2500	1	*
Eskdalemuir	14.5	+30	S'W	2	bc/pr	35	97	35	8	5	4	1	4-6	4-6	1500	1	*
Point of Ayre	15.9	+26	NW'W	5	bc	47	92	43	8	2	4	-	Tr	4-6	2500	0	4
Tiree	12.6	+22	W'S	5	c/pr	48	75	41	8	2	5	-	4-6	9+	2200	1	4
Stornoway	08.9	+26	SW	3	c	43	92	41	8	2	7	9	2-3	9	2500	1	*
Dalwhinnie	11.5	+24	W	2	bc	40	85	36	8	5	-	-	4-6	4-6	2500	1	*
Aberdeen †	10.8	+20	WSW	2	b	39	75	33	8	5	4	-	Tr	Tr	5700	1	2
Wick	08.2	+28	SSW	3	b-bc	39	85	36	8	8	-	1	2-3	2-3	2500	1	*
Sumburgh	04.8	+26	WN	5	bc	47	75	40	8	2	6	-	2-3	4-6	2000	1	4
Blacksod Point	17.2	+16	W	4	c	50	92	48	8	5	-	-	9+	9+	2500	1	3
Malin Head	13.7	+22	W'S	3	c-bc	49	75	42	8	9	-	-	7-8	7-8	1500	2	3
Aldergrove	16.2	+20	SSW	1	c	39	92	37	8	-	7	-	0	9	-	1	*
Birr Castle	18.6	+16	SW	2	c	40	97	39	8	8	2	-	7-8	9	1500	1	*
Valentia Obsy.	21.6	+18	W	3	c	51	85	47	8	8	-	-	9+	9+	4000	1	4
Roches Point	21.7	+22	N'W	3	b	41	92	39	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 7th Hrs. (38)
London (Kew)	54	37	24	5	Tr	2.4
Croydon	54	40	37	4	-	1.3
S. Farnborough	54	37	27	5	Tr	2.1
Boscombe Down	53	35	30	1	0.2	2.3
Thorney Island	56	35	29	5	Tr	*
Lympne	53	35	30	7	Tr	0.0
Manston	53	39	36	5	0.1	*
Shoeburyness	54	39	33	5	0.5	0.1
Felixstowe	53	39	35	5	-	0.6
Gorleston	52	39	35	5	0.2	1.0
Mildenhall	55	37	32	3	Tr	1.5
Cranwell	53	*	35	-	-	4.3
Birmingham	51	39	29	-	-	6.2
Upper Heyford	53	35	30	0.2	-	*
Ross-on-Wye	58	40	30	Tr	-	5.4
Hartland Point	53	49	44	1	1	
Bristol	54	39	30	1	2	5.2
Portland Bill	56	49	*	2	-	*
Plymouth	55	37	29	Tr	0.5	6.1
The Lizard	55	45	*	0.3	Tr	4.9
Scilly (St. Mary's)	54	48	*	0.2	Tr	4.4
Guernsey						
Pembroke	53	48		1	-	3.8
Holyhead (Valley)	52	46	41	Tr	-	*
Chester (Sealand)	54	42	31	Tr	0.1	3.7
Manchester	52	41	33	0.1	1	*
Spurn Head	52	43		-	-	3.8
Catterick	49	33	25	0.1	Tr	2.9
Tynemouth	51	41	36	-	-	*
St. Abbs Head	48	38		-	-	
Leuchars	49	34	25	Tr	Tr	5.5
Renfrew (Abbots I.)	50	36	30	1	2	3.9
Eskdalemuir	46	34	30	0.3	1	4.9
Point of Ayre	51	46	*	-	-	5.2
Tiree	51	43		0.2	2	4.5
Stornoway	48	39	34		0.6	3.5
Dalwhinnie	42	36	34	4	1	1.2
Aberdeen †	48	36	28	-	-	3.4
Wick	49	38		-	0.5	
Sumburgh	49	45	39	-	0.6	4.6
Blacksod Point	51	45	*	(1)	(13)	
Malin Head	49	44		1	2	2.8
Aldergrove	48	37	33	1	-	5.4
Birr Castle	50	37	31	2	0.2	4.1
Valentia Obsy.	51	47	41	1	Tr	4.9
Roches Point	52	40	*	Tr	-	*

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
109	36	01854	18514	36	01752	17413	3-	25754	21384	3-	26863	21483
115	87	08844	22586	87	25844	24486	87	25844	24486	84	81844	24485
203	80	01844	16684									
206	96	81956	23487	26	01961	23283	50	01953	28513	53	02963	24315
210				86	01952	20213	50	01961	20301	54	01961	20303
220	80	25855	25485	80	01654	24484						
230	9-	25856	18386	9-	81956	20386	3-	25853	16183	26	02854	18385
245	20	01752	18313	44	01651	22203	50	01861	24211	44	01961	23204
260	2-	81865	20415	8-	81763	20850	50	01764	20214	04	25690	20385
278	24	02846	22427	54	01862	24483	24	25853	23483	87	01841	22414
279	36	10764	22414				50	01861	23481	83	02864	21325
285	23	25744	24484	23	81744	24584						
288	87	81756	20427	40	01753	17373	50	05654	17314	54	01862	19302
575	36	01852	22382	3-	25842	24282	80	01854	22384	83	02854	22385
301	24	01855	24385	3-	02855	24485	40	01863	26513	80	01864	26484
321	13	5653	2326	50	05663	23213	07	05690	20303	04	05590	25201
299	56	05655	20215	60	05643	20213	00	05690	20200	40	02763	24203
292	23	05553	20187	40	01853	22114	50	05663	20183	50	01861	00001
310												
614	26	05664	26244	09	05590	20110	50	05662	24212	50	05662	22212

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	24	01863	22414	23	02763	22214	20	01853	23413	20	01863	25204
334	~	02643	22814	--	02644	28316						
340	20	01862	24214	54	01862	23212	40	01890	17103	20	01851	14101
136	28	056-2	23215	00	05690	24113	00	05590	20300	50	05661	22211
336	23	01753	24445	20	25754	24485						
350	24	08754	26325	04	01790	20223	00	05690	20200	04	05690	20201
368	83	25854	24285	80	01854	24384	50	00852	28282	20	00751	28101
379	20	01854	55324	54	01751	20312	00	05690	00000	00	00790	22300
390	7	05645	22265	00	47390	18223	00	41490	16200	00	08900	20300
382	86	01864	25414	04	01790	22211	00	00790	00000	04	01890	24101
438	52	22755	22468	54	02744	22315	00	00790	22200	14	01752	24213
430	27	05655	22825	54	0561	30187	00	05590	24110	00	00790	26200
409	36	02853	23426				20	01854	26414	20	01854	28314

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

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

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 8th 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 *	Rcrprc	ycbczw	bbcbmwx
Croydon	cdcdciD	cm bcm	bcm bm
Greenwich	crc	cbc	buf
Camden Square	or	bcb	*
*Kensington	bcor	orbc	*
Hampstead	orbc	bc	bm

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 0.3 Time 17h 7th
Min. <0.1 Time 2-52 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	54	37	24	5	Tr	2.4	*	*
Croydon	54	40	37	4	-	1.3	*	*
Greenwich	55	38	29	2	-	1.6	68	83
Westminster	54	37	31				54	99
Regents Park								
Camden Square	55	38	31	1.	-	*	*	93
Kensington	54	38	25	1	-		79	93
Hampstead	54	36	31	1	-		*	90

Page 1 BRITISH SECTION

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

SECRET

Monday 9th November 1942

No. 29572

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)	23.4	+14	W'N	2	z_0	51	65	39	6	1	4	1	2-3	4-6	2500
	Croydon	23.2	+12	WNW	2	z_0	52	65	40	6	1	4	-	2-3	4-6	2200
	S. Farnborough	23.4	+8	WNW	3	c-bc	52	65	40	8	1	-	2	4-6	7-8	3000
	Boscombe Down	23.7	+6	W	3	bc	52	65	42	8	1	-	1	4-6	4-6	3000
	Thorney Island	23.7	+10	NW'W	2	b-bc	53	75	44	8	1	-	1	1	2-3	2500
	Lympne	23.3	+22	WNW	2	z_0	50	75	42	6	1	-	1	Tr	Tr	3500
	Manston	22.6	+18	WNW	3	z_0	50	75	43	5	-	-	-	0	0	-
2	Shoeburyness	22.3	+14	WNW	3	b	53	65	43	5	-	-	4	0	Tr	-
	Felixstowe	21.6	+14	W	3	b	52	65	42	7	1	4	-	Tr	Tr	4000
	Gorleston	20.5	+14	NW'W	3	z_0	51	75	42	6	2	3	-	1	1	1500
	Mildenhall	21.7	+14	W	3	b-bc	52	75	43	7	1	4	-	2-3	2-3	2500
	Cranwell	20.9	+18	W'N	4	z_0	50	75	42	6	1	3	-	2-3	4-6	2500
3	Birmingham	22.5	+10	W	3	bc	51	65	36	7	7	-	9	4-6	4-6	2500
	Upper Heyford	22.7	+14	WNW	3	b-bc	51	66	39	8	1	4	1	1	2-3	2500
4	Ross-on-Wye	22.9	+12	W	3	bc	53	65	41	8	7	4	9	4-6	4-6	3500
5	Hartland Point	24.7	+14	WNW	3	c-bc	53	75	45	8	2	-	5	4-6	7-8	2500
	Bristol	24.5	+12	W'N	3	c-bc	54	75	45	7	2	3	-	7-8	7-8	2500
	Portland Bill	24.8	+10	W	3	bc	54	85	52	8	2	-	-	4-6	4-6	4000
	Plymouth	25.3	+8	WNW	3	c-bc	55	75	47	7	8	-	4	4-6	7-8	2500
	The Lizard	25.4	+10	WNW	3	bc	56	65	46	8	2	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	25.9	+12	W'N	2	pr_0	57	65	46	8	8	7	6	2-3	7-8	1500
	Guernsey															
6	Pembroke	24.6	+14	WNW	4	bc	54	75	46	8	1	4	-	2-3	4-6	2500
7	Holyhead (Valley)	22.7	+24	W	4	bc	54	65	44	8	2	4	2	2-3	4-6	3000
	Chester (Sealand)	21.7	+16	WNW	3	bc	52	65	41	8	8	-	4	2-3	4-6	3500
8	Manchester	21.7	+18	W'S	4	z_0	49	75	43	6	2	6	-	7-8	9	2500
10	Spurn Head	19.7	+18	W'N	4	z_0	50	75	41	6	-	4	-	4-6	4-6	5700
	Catterick	19.8	+16	W	3	b-bc	53	65	39	8	1	9	-	1	2-3	2500
	Tynemouth	18.7	+14	W	3	bc	50	75	41	6	-	4	1	0	4-6	-
11	St. Abbs Head	15.7	+14	W	4	bc	49	75	40	7	5	4	-	2-3	4-6	4000
	Leuchars	16.0	+14	SW	3	c	49	85	45	7	5	5	1	Tr	9	2500
12	Renfrew (Abbots I.)	17.5	+14	WSW	4	bc	53	75	45	8	8	7	2	4-6	4-6	3000
	Eskdalemuir	18.1	+12	WSW	3	c-bc	46	75	40	8	5	7	1	4-6	7-8	2200
	Point of Ayre	20.2	+14	WNW	4	bc	51	85	47	8	2	4	-	1	4-6	2500
13A	Tiree	15.8	+12	WSW	4	c	51	85	47	8	8	3	-	7-8	9+	2500
13B	Stornoway	11.7	+8	SW	4	c/+	49	92	46	8	5	3	-	4-6	9+	1200
15	Dalwhinnie		+14	W	3	c	43	85	39	8	5	7	-	9	10	1500
	Aberdeen	15.8	+12	WSW	2	b-bc	50	65	38	7	-	4	9	0	2-3	-
	Wick	12.6	+18	W'S	3	c-bc	50	85	45	9	5	7	9	1	7-8	4000
16	Sumburgh	09.7	+18	W'S	5	pr	49	75	44	8	2	4	-	4-6	7-8	2000
17	Blacksod Point	20.6	+14	SW	3	c	53	92		8	5	-	-	10	10	2500
18	Malin Head	17.7	+14	W'S	4	c	51	85		8	9	-	-	9	9	1500
	Aldergrove	20.4	+14	SW	3	c-bc	49	86	43	8	1	7	-	Tr	7-8	2000
19	*Birr Castle	22.7	+14	SW	2	c	51	85		8	5	1	-	7-8	10	2500
20	Valentia Obsy.	24.5	+10	SW'W	3	c-bc	55	65		8	2	3	3	4-6	7-8	2500
	Roches Point	24.5	+6	SSW	2	c	51	85		8	5	-	-	9	9	2500

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)	26.0	+6	SSW	1	bm	44	85	39	4	-	-	-	0	0	-	1	•
Croydon	26.1	+14	SW'S	1	bf+	43	85	40	3	-	4	-	0	1	-	1	•
S. Farnborough	25.9	+10	W'N	2	b-bc	44	85	40	7	5	7	-	2-3	2-3	2500	1	•
Boscombe Down	26.5	+20	W	1	b	45	85	42	7	5	-	-	1	1	4000	0	•
Thorney Island	26.0	+14	WNW	1	z_0	46	85	42	5	5	•	-	Tr	Tr	2500	1	•
Lympne	26.1	+18	W	1	b	44	85	38	5	-	-	-	0	0	-	1	§
Manston	25.6	+22	W	1	b	43	92	41	8	-	-	6	0	Tr	-	1	•
Shoeburyness	25.6	+20	WNW	2	b-bc	43	85	40	4	2	4	4	2-3	2-3	4000	1	•
Felixstowe	24.8	+18	WSW	2	z_0	46	85	41	5	-	4	-	0	1	-	0	2
Gorleston	22.9	+6	W	2	z_0	45	85	42	6	-	4	-	0	2-3	-	0	2
Mildenhall	24.8	+18	SW'W	3	z_0	45	85	41	6	5	4	-	2-3	2-3	1500	1	•
Cranwell	24.0	+16	WSW	2	z_0	43	85	40	6	-	4	-	0	1	-	1	•
Birmingham	25.4	+20	WSW	2	z_0	45	85	41	5	-	4	-	0	2-3	-	1	•
Upper Heyford	25.4	+18	W'S	1	b	44	85	40	7	4	4	1	Tr	1	4000	1	•
Ross-on-Wye	25.3	+14	WSW	1	b	46	85	40	8	5	-	1	1	1	3000	1	•
Hartland Point	26.2	+12	WNW	3	c-bc	51	75	45	8	2	6	-	4-6	7-8	2500	1	4
Bristol	26.6	+12	SW	1	z_0	45	85	42	6	4	-	-	1	1	4000	1	•
Portland Bill	26.2	+12	N	3	bc	50	85	46	8	5	-	-	4-6	4-6	4000	1	4
Plymouth	26.8	+10	W'N	2	z_0	50	85	44	4	4	-	-	2-3	2-3	3300	1	2
The Lizard	26.8	+4	NNW	3	c-bc	50	85	46	8	8	6	-	7-8	7-8	1500	0	3
Scilly (St. Mary's)	27.0	+8	NNW	2	bc	50	85	47	8	8	4	4	4-6	4-6	1500	1	2
Guernsey																	
Pembroke	25.6	+8	WNW	3	c	52	76	43	8	8	-	-	9+	9+	2400	0	3
Holyhead (Valley)	23.8	+6	SW'W	4	c	51	75	44	8	5	3	-	7-8	9	3500	1	3
Chester (Sealand)	24.0	+14	SSE	1	b-bc	44	65	39	7	4	-	1	2-3	2-3	3500	0	•
Manchester	24.2	+16	SW'W	2	z_0	43	97	40	6	4	-	-	1	1	1000	1	•
Spurn Head	23.1	+14	WSW	3	bc	48	75	41	5	-	4	-	4-6	4-6	5700	0	2
Catterick	22.8	+18	WSW	1	bc	47	75	41	7	5	3	-	2-3	4-6	3000	1	•
Tynemouth	21.3	+12	W	3	z_0	46	85	44	5	-	3	-	0	2-3	2500	1	2
St. Abbs Head	18.4	+10	WSW	3	c-bc	47	92	45	7	7	-	-	7-8	7-8	4000	0	3
Leuchars	17.9	+10	WSW	3	z_0	45	97	45	6	5	7	-	Tr	4-6	3000	1	•
Renfrew (Abbots I.)	19.7	+14	SW'S	2	c	49	85	45	7	4	4	2	4-6	9	1600	1	•
Eskdalemuir	20.9	+14	S'W	3	c	45	85	42	8	5	1	-	9	10	1500	1	•
Point of Ayre	22.1	+12	WSW	3	c	46	92	45	8	5	3	-	4-6	9	4000	0	3
Tiree	18.2	+16	SW	4	c	51	75	45	8	5	-	-	9+	9+	4000	1	3
Stornoway	13.5	+14	SW	4	c	50	85	47	7	5	7	-	9	9+	1300	1	3
Dalwhinnie	16.2	+8	W	3	c-bc	44	85	42	8	5	7	-	4-6	7-8	2500	1	•
Aberdeen	17.4	+10	WSW	1	cjf	45	85	39	5	-	7	3	0	9+	-	1	1
Wick	13.9	+6	SSW	4	c	47	85	42	8	5	7	-	4-6	10	3000	1	•
Sumburgh	11.7	+22	W	5	pr	49	92	47	7	9	3	-	7-8	10	1500	1	4
Blacksod Point	21.2	+6	SW'S	4	c	52	97	51	8	5	5	-	7-8	9+	1500	1	3
Malin Head	18.9	+6	SW	3	c	50	75	45	8	5	-	-	9+	9+	2500	2	3
Aldergrove	22.0	+14	SSW	2	c	47	85	45	8	5	7	-	7-8	9	4500	1	•
*Birr Castle	23.3	+6	SW	2	c-bc	47	65	43	8	5	-	-	7-8	7-8	2500	1	•
Valentia Obsy.	25.1	+4	S	3	c	51	85	47	8	5	-	-	9+	9+	4000	1	3
Roches Point	25.4	+8	SW'W	2	c	51	85	47	8	5	-	-	9	9	2500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 8th (39)	Weather 13h.—18h. 8th (40)	Weather 18h. 8th to 1h. 9th (41)	Weather 1h.—7h. 9th (42)
London (Kew)	bm_0bcz_0	bcbfw	bffwx	foF
Croydon	bm_0	bmbf	bfbm	bmw
S. Farnborough	bcbcb	bc	$bcbm_0fx$	bfx
Boscombe Down	bbcjp	bcjpcb	$bcbm_0bc$	bcbbcF
Thorney Island	bm_0wbc	bcbbcb	$bbmbm_0$	bm_0x
Lympne	bm_0b	bz_0m_0w	bm bmw	bmbjfx
Manston	bm_0	bm_0	bmm_0wm	bm_0wFx
Shoeburyness	bz_0	bcm_0	bcm_0bc	bcx
Felixstowe	bm_0b	$bbcbbm_0$	bm_0bmw	bmw
Gorleston	bz_0bcz_0	bcz_0	bz_0m_0w	bmwbcz
Mildenhall	bm_0b	$bbcm_0bm_0$	bm_0	bm_0
Cranwell	$bbcm_0$	bcm_0bm_0	bm_0cm_0	bm_0w
Birmingham	bbc	cbcbz	bbc	bc
Upper Heyford	bm_0bcb	bbcb	bbm_0x	bm_0xf
Ross-on-Wye	bbc	bcbv	bbcebs	$bwcm_0$
Hartland Point	$bccd_0rbc$	cbcc	cir_0c	cid_0
Bristol	bbc	bz_0bcm_0	$cbcm_0w$	cm_0cm_0bmw
Portland Bill	bcbc	cbc	bcbc	bcbc
Plymouth	$bbcm_0$	bcm	$bcfbm_0$	bbcxfg
The Lizard	bc	cbcc	bcw	bcw
Scilly (St. Mary's)	bc	cbc	bcbw	bbcw
Guernsey				
Pembroke	bc	c	$bcepr_0$	cbc
Holyhead (Valley)	bbc	cjpc	bc	bc
Chester (Sealand)	bbcc	bc	bm_0	bm_0c
Manchester	$bcpr_0m_0$	cz_0bcz_0	bm_0	$bbcm_0w$
Spurn Head	bcm_0	bcm	bm_0	bcz_0
Catterick	bbc	bcyebcy	cbcbbc	bm_0fm_0w
Tynemouth	bc	bcm_0	$bcbm_0$	bbcm
St. Abbs Head	cbccy	bm_0c	bcm_0bm_0	bcbbc
Leuchars	bcc	c	bcc	cbc
Renfrew (Abbots I.)	cbc	pr_0c	cm_0c	cm_0c
Eskdalemuir	$bcpr_0c$	cpr_0	bcc	cm_0
Point of Ayre	bcbbc	bcc	cbcc	cbcc
Tiree	cpr_0bcc	c	c	cir_0r_0
Stornoway	cir_0c	c	cid_0c	$r_0r_0++m_0$
Dalwhinnie	cpr_0c	pr_0c	*	cpr_0c
Aberdeen	bccbc	$bccz_0$	$cbccm_0$	ccr_0r_0
Wick	bc	c	c	c
Sumburgh	$bcpr_0$	cpr_0	c	cir_0
Blacksod Point	c	c	c	c
Malin Head	pr	c	c	r
Aldergrove	c	cbcc	cbcb	bbcc
*Birr Castle	c	c	•	bc
Valentia Obsy.	pr	c	bc	c
Roches Point	c	c	b	bc

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

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands	Light Southwest wind; fine today, fog in places tonight, very mild during day, moderate night temperature with ground frost
4 W. Midlands, 5 S.W. England, 6 South Wales, 7 North Wales	Freshening Southwest wind, bright periods at first, cloud increasing later with slight local rain; mild.
8 N.W. England, 9 N. Midlands, 10 N.E. England, 11 S.E. Scotland, 12 S.W. Scotland & Isle of Man	Freshening Southwest wind, becoming strong at exposed places, cloud increasing with some rain later; mild.
13A W. Scotland, 13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland	Strong to gale Southwest winds, cloudy, occasional rain today, more general rain tonight; rather cold during day, very mild tonight.
16 Orkneys and Shetlands	As 13-15
17 N. W. Ireland, 18 N. E. Ireland	Strong to gale Southwest wind, veering West later, cloudy today rain later; rather cold during day; moderate night temperature
19 S. E. Ireland	As 8-12
20 S. W. Ireland	As 4-7.

GENERAL INFERENCE

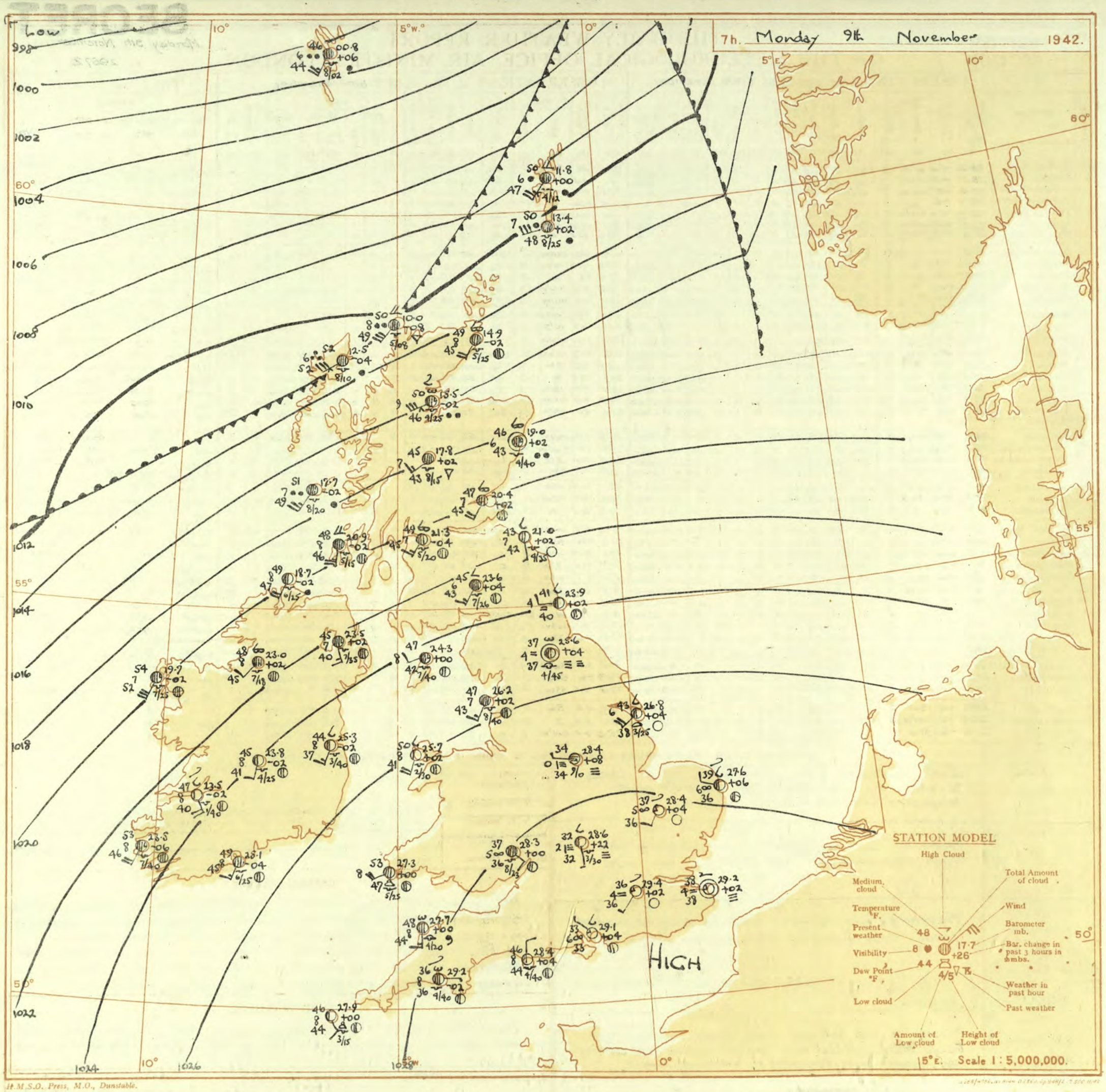
An anticyclone to Southeast of the British Isles is receding. A deep depression north of Iceland is moving northeast. Another depression in mid-Atlantic will move northeast and deepen. Weather will be fine today in the Southeast, but there will be rain at times in the northwest half of the Country. South to Southwest gales will develop later today on the north and northwest coasts.

FURTHER OUTLOOK

Mainly fair in the Southeast; rain at times in the Northwest. Gale warning in districts 13A, 13B, 15, 16, 17 issued 0705 G.M.T. 9.XI.42

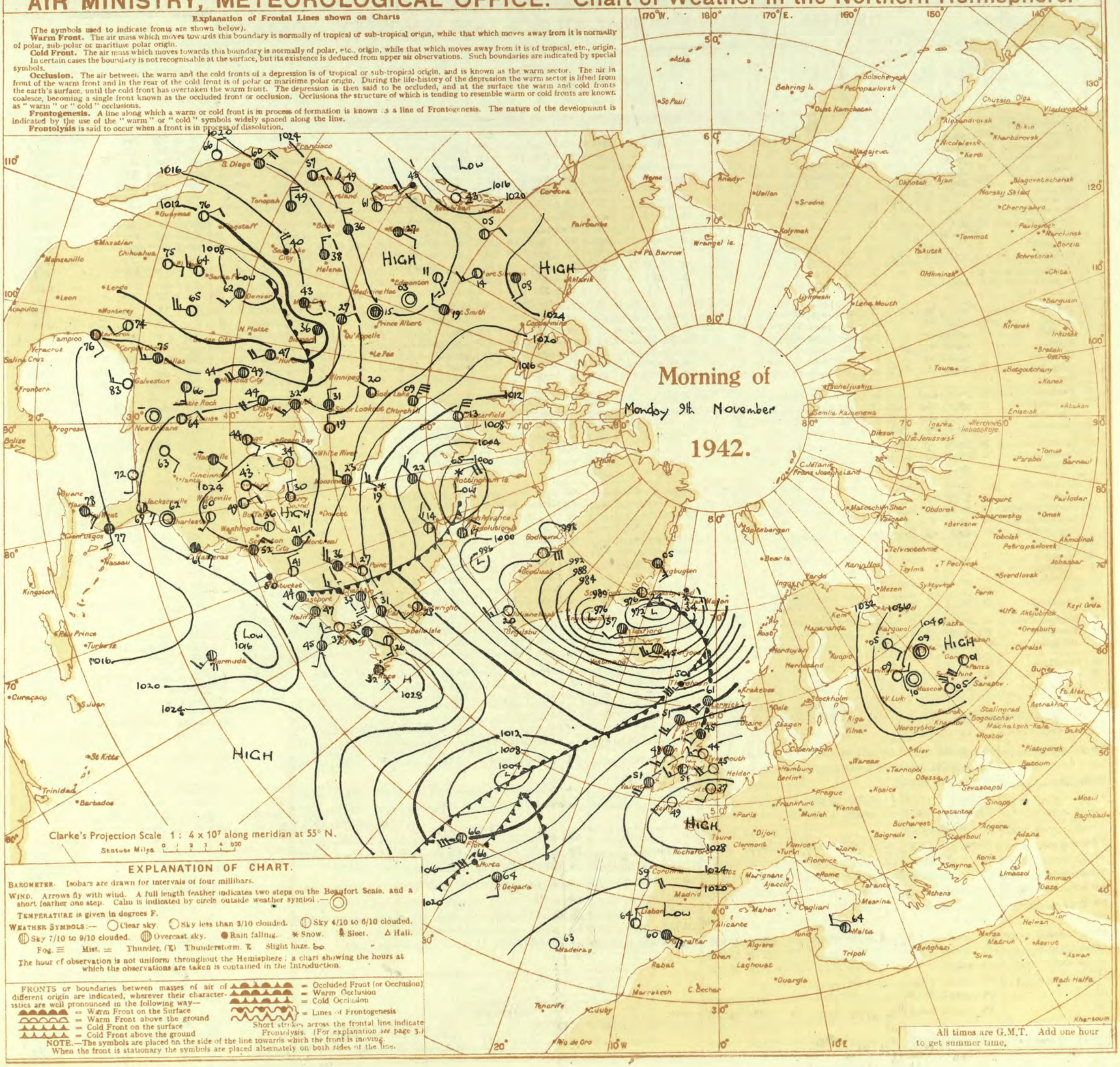
Forecasts issued at 10.30

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



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

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



Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

BRITISH SECTION

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

Monday 9th November 1942

No. 22572

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)	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	*	*	*	*	*	36	*	*	*	*	*	*	*	*	*
	Croydon ...	290	28·5	+10	SSW	1	m	37	97	37	4	-	-	-	0	0	-
	S. Farnborough	226	29·0	+10	NW	1	bf+	32	92	30	2	-	-	-	0	0	-
	Boscombe Down	417	28·9	+10	-	0	2o	40	97	39	6	5	-	-	4-6	4-6	3500
	Thorney Island	10	28·5	+10	NW	1	2o	36	92	35	6	-	-	-	0	0	-
	Lympne ..	283	28·5	+8	NNW	1	m	38	97	37	4	-	-	-	0	0	-
	Manston ...	154	29·0	+18	W	1	2o	40	97	39	5	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	27·8	+14	WNW	2	m	43	92	41	4	-	-	-	0	0	-
	Gorleston ...	5	26·7	+12	W'N	2	2o	41	85	36	5	-	-	-	0	0	-
	Mildenhall ...	15	27·6	+10	SW	3	2o	39	92	37	5	-	-	-	0	0	-
	Cranwell ...	203	27·2	+14	WSW	3	2o	43	92	40	6	-	3	-	0	7-8	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	28·1	+12	-	0	2o	38	97	37	6	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	27·7	+8	SSW	3	c	49	85	46	8	5	2	-	7-8	10	800
	Bristol ...	209	29·3	+12	-	0	2o	40	97	39	6	5	-	-	2-3	2-3	4000
	Portland Bill ...	32	28·4	+12	W	2	b-bc	48	92	46	8	5	-	-	2-3	2-3	4000
	Plymouth ...	82	29·7	+12	E	1	2o	37	97	37	5	5	-	-	2-3	2-3	4000
	The Lizard ...	240	28·7	+6	-	0	b-bc	47	92	43	8	8	-	-	2-3	2-3	1500
	Scilly (St. Mary's)	163	28·0	+2	SW'S	2	b	49	85	45	8	-	-	-	0	0	-
	Guernsey ...	175															
6	Pembroke ...	142	27·7	+4	-	0	c	49	85	45	8	5	-	-	9+	9+	2500
7	Holyhead (Valley)	32	25·7	+4	W'S	3	bc	51	65	40	8	5	-	-	4-6	4-6	3500
	Chester (Sealand)	16	26·5	+10	SE'E	1	2o	37	97	36	6	5	-	-	1	1	3500
8	Manchester ...	235	26·6	+6	SSE	3	2o	39	97	38	6	-	-	-	0	0	-
10	Spurn Head ...	29	26·3	+12	NSW	4	2o	45	85	42	5	-	-	-	0	0	-
	Catterick ...	175	28·2	+6	SW'S	2	2o	43	85	40	6	-	-	-	0	0	-
	Tynemouth ...	108	24·0	+6	W	3	2o	44	97	42	5	-	-	-	0	0	-
11	St. Abbs Head	280	20·5	0	SSW	3	bc	46	85	43	7	5	-	-	4-6	4-6	4000
	Leuchars ...	36	20·2	+6	W	3	c	48	97	46	7	5	2	-	4-6	10	2800
12	Renfrew (Abbots I.)	19	21·7	+4	SW	2	c	49	85	45	7	5	2	-	4-6	10	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	22·0	+2	SW	2	c	44	92	42	8	5	*	*	9+	9+	3800
13A	Tiree	44	18·7	0	SW	4	c	51	92	50	7	5	2	-	7-8	10	2000
13B	Stornoway ...	15	14·1	0	SW	5	c	51	92	49	7	5	-	-	10	10	1200
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	18·9	+6	SW	2	c	45	92	43	9	-	7	-	0	10	-
	Wick ...	114	15·4	+2	SSW	4	c	49	85	43	8	5	2	-	4-6	10	2500
16	Sumburgh ..	19	13·1	+6	SW	6	c	50	92	48	8	5	-	-	10	10	2500
17	Blacksod Point	18	20·8	+2	S	5	c	53	92	51	7	6	-	-	10	10	1500
18	Malin Head ...	84	19·9	+2	S'W	3	c-bc	48	85	44	8	5	-	-	7-8	7-8	2500
	Aldergrove ...	268	23·6	+2	S	2	b	45	92	43	8	-	-	-	0	0	-
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	24·9	-2	S'W	4	c	51	85	47	8	5	-	-	9+	9+	4000
	Roches Point	22	26·3	0	W	1	b	45	97	44	8	-	-	-	0	0	-

OBSERVATIONS at 7 hr. G.M.T. 9th 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)	29·9	+8	-	0	cf+	33	97	33	1	-	-	-	10	10	<150	1	*
Croydon ...	29·4	+2	SW	1	m	36	97	36	4	-	-	1	0	1	-	1	*
S. Farnborough	30·2	+10	-	0	bf-	29	92	28	3	-	4	-	0	0	-	1	*
Boscombe Down	29·5	+6	-	0	bf-	32	97	32	2	-	3	-	0	4-6	-	0	*
Thorney Island	29·1	+4	NW'N	1	2o	33	97	33	6	-	4	-	0	Tr	-	0	*
Lympne ..	29·6	+6	W'N	1	bjf	37	97	37	6	2	-	-	Tr	Tr	2500	1	§
Manston ...	29·2	+2	-	0	m	38	97	38	4	5	-	5	0	1	2500	1	*
Shoeburyness ...	28·5	+2	W	2	m	43	97	42	4	-	-	5	0	2-3	-	1	*
Felixstowe ...	28·9	+10	W'S	2	fs	40	92	35	4	-	-	1	0	Tr	-	1	2
Gorleston ...	27·6	+6	W'N	2	2o	39	92	36	6	-	4	1	0	4-6	-	0	2
Mildenhall ...	28·4	+4	SSW	2	2o	37	97	36	5	-	-	1	0	Tr	-	1	*
Cranwell ...	27·8	+6	WSW	3	2o	40	92	39	5	-	4	-	0	1	-	1	*
Birmingham ...	28·4	+4	SW	3	2o	42	92	40	6	5	-	6	1	4-6	4000	1	*
Upper Heyford	28·6	+22	S	1	b-bc+	32	97	32	2	5	2	-	2-3	2-3	3000	1	*
Ross-on-Wye	28·3	0	SE'S	2	2o	37	97	36	5	5	-	-	10	10	2500	1	*
Hartland Point	27·7	0	S	3	c	48	85	44	8	4	3	-	4-6	9	2000	1	3
Bristol ...	29·3	+4	-	0	fg	44	97	43	5	5	-	-	9+	9+	4000	1	*
Portland Bill ...	28·4	+4	N	2	bc	46	92	44	8	5	-	-	4-6	4-6	4000	1	4
Plymouth ...	29·2	-2	E	1	fs	36	97	44	8	5	3	1	4-6	7-8	4000	1	1
The Lizard ...	28·1	-2	SSE	2	bc	47	92	45	8	8	6	-	4-6	4-6	2000	1	3
Scilly (St. Mary's)	27·9	0	S'E	2	b-bc	46	97	44	8	8	-	-	2-3	2-3	1500	1	2
Guernsey ...																	
Pembroke ...	27·3	0	SW'W	4	c-bc	53	85	47	8	8	-	-	7-8	7-8	2500	1	3
Holyhead (Valley)	25·7	+2	SW'S	4	b-bc	50	75	41	8	5	4	-	1	2-3	3000	1	3
Chester (Sealand)	26·3	0	SW	1	2o	45	92	43	6	5	3	-	2-3	9	3000	0	*
Manchester ...	26·5	0	SSE	3	2o	42	92	40	6	5	7	-	4-6	9+	2500	1	*
Spurn Head ...	26·8	+4	SW'W	4	bc	48	85	38	6	1	4	-	2-3	4-6	2500	0	3
Catterick ...	25·6	+4	-	0	c-bcf	37	97	37	4	4	3	-	4-6	7-8	4500	1	*
Tynemouth ...	23·9	+2	W	2	m	41	92	40	4	-	4	-	0	4-6	-	1	2
St. Abbs Head	21·0	+2	S	1	bc	43	92	42	7	5	4	-	4-6	4-6	3500	1	2
Leuchars ...	20·4	+2	SSW	4	c-bc	47	92	46	7	-	7	-	0	7-8	-	1	*
Renfrew (Abbots I.)	21·3	-4	SW'S	3	c	49	85	46	7	5	7	-	7-8	9	2000	1	*
Eskdalemuir ...	23·6	+4	SSW	3	c	45	92	43	6	5	1	-	9+	10	2600	1	*
Point of Ayre...	24·3	0	SW'W	2	c	47	85	42	8	5	-	-	9+	9+	4000	0	2
Tiree	17·7	-2	SSW	5	r₀r₀	51	92	49	7	5	-	-	10	10	2000	1	4
Stornoway ...	12·3	-4	SW	6	r+r	52	97	52	6	5	-	-	10	10	1000	1	
Dalwhinnie ...	17·8	+2	NSW	3	o	45	92	43	7	5	-	-	10	10	1500	1	*
Aberdeen † ...	19·0	+2	-	0	c/+	46	92	43	6	8	7	-	4-6	9+	4000	1	1
Wick ...	14·9	-2	SSW	4	c	49	92	46	8	5	7	-	7-8	10	2500	1	*
Sumburgh ..	13·4	+2	WSW	6	ir₀	50	92	48	7	5	-	-	10	10	2500	1	4
Blacksod Point	19·7	-2	SSW	6	c	54	92	52	7	5	-	-	9+	9+	2500	1	5
Malin Head ...	18·7	-2	S'W	4	c	49	92	47	8	5	-	-	9	9	2500	2	3
Aldergrove ...	23·5	+2	S'E	3	c	45	85	40	7	5	-	-	9+	9+	3500	1	*
Birr Castle ...	23·8	-2	SSW	2	bc	45	85	41	8	5	-	-	4-6	4-6	2500	1	*
Valentia Obsy.	23·5	-6	S'W	4	c	53	75	45	8	5	-	-	9+	9+	4000	1	4
Roches Point	25·1	-4	SSW	3	c	49	85	44	8	5	-	-	9	9	2500	1	3

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Temperature Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 8th. Hrs. (38)
London (Kew)	52	33	24	-	Tr	7·2
Croydon ...	53	35	31	-	Tr	7·9
S. Farnborough	54	28	21	Tr	-	6·7
Boscombe Down	52	30	27	-	0·1	7·0
Thorney Island	55	31	26	Tr	-	*
Lympne ..	51	34	24	-	-	7·8
Manston ...	51	38	31	-	Tr	*
Shoeburyness ...	53	37	26	-	-	7·4
Felixstowe ...	52	39	32	-	-	7·6
Gorleston ...	51	38	34	-	-	7·5
Mildenhall ...	53	37	28	-	Tr	6·7
Cranwell ...	51	39	35	-	-	5·7
Birmingham ...	52	41	36	-	-	7·4
Upper Heyford	51	31	27	-	-	*
Ross-on-Wye	54	33	28	-	-	7·0
Hartland Point	54	47	46	Tr	Tr	5·9
Bristol ...	54	39	29	-	-	7·1
Portland Bill ...	54	44	*	-	-	*
Plymouth ...	56	35	29	-	-	6·1
The Lizard ...	56	45	*	-	-	7·3
Scilly (St. Mary's)	57	45	*	-	-	8·4
Guernsey ...						
Pembroke ...	54	49	*	-	Tr	5·6
Holyhead (Valley)	54	49	42	-	-	*
Chester (Sealand)	54	37	25	-	-	6·6
Manchester ...	51	39	32	0·4	-	*
Spurn Head ...	50	42	*	-	-	7·0
Catterick ...	53	37	29	-	-	5·6
Tynemouth ...	50	40		-	-	*
St. Abbs Head	50	42	*	-	-	*
Leuchars ...	50	45	41	Tr	-	3·6
Renfrew (Abbots I.)	53	48	44	1	Tr	1·6
Eskdalemuir ...	48	40	34	0·3	-	1·6
Point of Ayre...	52	42	*	-	-	2·7
Tiree	53	51	*	Tr	0·4	1·9
Stornoway ...	51	49	47	Tr	2	0·0
Dalwhinnie ...	46	43	36	0·2	Tr	0·0
Aberdeen † ...	50	44	41	-	Tr	3·8
Wick ...	51	46	34	Tr	-	*
Sumburgh ..	50	47	46	1	2	4·3
Blacksod Point	54	51	*	0·1	-	*
Malin Head ...	52	51	46	1	Tr	0·1
Aldergrove ...	49	42	36	-	-	1·6
Birr Castle ...	52	41	36	-	-	0·5
Valentia Obsy.	55	47	42	Tr	-	2·7
Roches Point	53	46	*	-	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 8th November. 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	3-	82856	54684	62	25747	17388
115				52	81844	24587
203	8-	02847	24517	5-	02848	20528
206	53	02963	24427	53	02865	24227
210	57	02862	21316	53	02864	20327
220	83	02743	25317	51	08443	24317
230	96	01856	18487	96	25856	17386
245	53	01951	22215	55	01651	17124
260	53	01774	24364	57	25763	20288
278	73	02864	22526	54	02867	23327
279	27	02863	22325	46	05661	19325
285						
288	13	02864	22316			
575	7-	02867	22287	53	01854	22325
301	26	01751	25315	24	02863	24214
321	53	05663	26404	04	05550	24314
299				04	01790	24203
292				44	01662	20113
310						
614	24	05654	24414	44	05561	24212

01h. G.M.T. 9th November. 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	52	21765	49457			
115	52	62835	53688			
203	6-	03838	20628			
206	53	22954	55667			
210	52	02855	52428			
220	62	62436	20568			
230	52	02857	17258			
245	57	05652	20327			
260	57	02765	20327			
278	52	02867	16228			
279	50	05661	21427			
285						
288	04	01890	16414			
575	57	02847	20228			
301	5-	02768	18328			
321	00	05590	24200			
299	50	05652	24202			
292	03	05690	16214			
310	--	01626	20226			
614	03	05590	25200	--	48009	25214

13h. G.M.T. 8th November. 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333	24	01853	26214	53	02753	22116
334						
340	26	02965	28216	04	02890	24112
136	09	05690	22303	00	05590	22210
336						
350	1-	01863	25314	04	01790	19211
368	73	01754	24314	54	01753	00004
379	20	01854	22304	04	01790	20311
390				04	05590	20111
382	86	01861	24214	04	01890	28111
438	10	05642	24203	50	05652	24212
430	10	01862	22302	40	05551	00011
409	20	01853	26314	24	01·54	26214

01h. G.M.T. 9th November. 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333	5-	05664	00017	5-	02757	18227
334						
340	03	05590	16103	54	09663	16244
136	03	05590	21213	00	08490	20104
336				57	02754	28328
350	00	05690	18200	04	05690	18212
368	62	62664	00028	57	02748	00067
379	50	05643	20203	53	02755	
390	00	45390	20140	--	49009	00049
382	00	04590	00000	03	43190	00045
438	00	05690	24200	54	05652	20103
430	00	05690	00000	00	04690	00000
409	50	01753	00013	54	01861	14211

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	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew *	bmobc2o	bcbfw	bffwfof	
Croydon ...	bmo	bmbf	bfbmw	
Greenwich ...	bfm	bmom	bmxf	Kew 24 hours ended 7h. Max. Time 1·0 19th, 8th. Min. Time 0·1 10–14th, 8th.
Camden Square	o	bc	*	
Kensington ...	bc	bc	*	
Hampstead ...	bem	bc	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 13h % Yesterday	Humidity 9h % To-day
Kew	52	33	24	-	Tr	7·2	*	*
Croydon ...	53	35	31	-	Tr	7·9	*	*
Greenwich ..	51	33	23	-	Tr	6·9	61	93
Westminster .	54	38	30	—			72	86
Regents Park ...		35	31	-	-		61	91
Camden Square	53	37	29	-	-	*	*	98
Kensington ...	54	36	25	Tr	Tr		77	95
Hampstead	52	36	30	-	-		*	99

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BRITISH SECTION

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

SECRET

Tuesday 10th November 1942

No. 29573

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)	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)	29·3	-10	SW'W	1	m/f	48	85	44	4	-	-	6	0	4-6	-
	Croydon	28·9	-12	-	0	bc'f	49	85	43	3	4	-	9	4-6	4-6	3000
	S. Farnborough	29·1	-14	-	0	z_0	52	75	42	6	1	4	8	2-3	9	3000
	Boscombe Down	29·1	-10	S'E	1	c-bc	52	75	44	7	1	-	6	1	7-8	3000
	Thorney Island	29·1	-10	-	0	z_0	53	75	43	6	1	-	2	1	2-3	2500
	Lympne	29·8	-2	W	1	b-bc	54	65	41	8	1	4	1	Tr	2-3	4500
	Manston	29·5	-2	SW	1	z_0	53	65	43	6	1	5	-	Tr	2-3	2500
2	Shoeburyness	31·5	-8	WSW	2	bc	55	65	43	6	-	3	1	0	4-6	-
	Felixstowe	29·2	-4	SW	2	z_0	55	65	43	6	-	7	1	0	2-3	-
	Gorleston	28·4	-2	SW'W	2	b-bc	52	65	41	7	-	4	9	0	2-3	-
	Mildenhall	28·7	-4	SW'W	2	z_0	51	75	43	6	-	3	1	0	4-6	-
	Cranwell	27·7	-4	SW'W	3	z_0	51	75	42	6	-	3	2	0	9+	-
3	Birmingham	27·6	-4	SW	2	m	47	85	43	4	5	-	-	10	10	1500
	Upper Heyford	28·9	-2	-	0	m	44	92	41	4	5	-	-	10	10	4500
4	Ross-on-Wye	27·8	-8	WSW	1	z_0	49	85	46	5	5	-	-	10	10	3000
5	Hartland Point	27·1	-8	W	2	c	52	85	47	8	8	4	-	9	9+	2000
	Bristol	28·5	-14	SW	3	ebc	54	65	41	7	7	-	2	4-6	7-8	2500
	Portland Bill	28·4	-12	E	3	o	53	92	51	8	5	-	-	10	10	2500
	Plymouth	28·1	-12	SE	2	bc	56	65	45	8	8	-	1	2-3	4-6	2500
	The Lizard	27·3	-8	S	4	bc	54	75	46	8	2	6	-	4-6	4-6	2000
	Scilly (St. Mary's)	26·9	-8	SSE	3	c	57	75	48	8	8	3	2	2-3	10	1500
	Guernsey															
6	Pembroke	26·8	-4	SW'S	4	ebcq	53	75	47	8	8	6	-	4-6	7-8	2500
7	Holyhead (Valley)	25·7	-2	SW	4	o	53	75	46	8	5	-	-	10	10	3000
	Chester (Sealand)	22·4	-6	WSW	2	c	54	65	44	8	5	7	-	9+	9+	3500
8	Manchester	26·6	-8	S	4	z_0	51	75	43	6	5	-	-	9+	9+	4200
10	Spurn Head	27·2	-2	SW'W	3	z_0	52	65	41	6	7	3	1	4-6	4-6	4000
	Catterick	25·3	-4	WSW	2	c	52	75	43	7	5	7	8	4-6	9+	2500
	Tynemouth	24·9	-6	SW	3	ebc	53	85	49	6	5	-	-	7-8	7-8	3100
11	St. Abbs Head	21·2	+2	SSW	3	c	51	75	43	7	5	4	-	9	9+	3500
	Leuchars	20·8	-2	SW	2	z_0	51	92	49	6	-	7	-	0	10	-
12	Renfrew (Abbots I.)	20·3	-14	SW'S	4	c	52	75	43	8	5	3	2	4-6	9	2500
	Eskdalemuir	22·9	-4	SW'S	5	c	49	75	42	8	5	7	-	7-8	9+	1500
	Point of Ayre	24·3	-4	WSW	4	c	54	75	45	8	4	7	8	Tr	9+	3000
13A	Tiree	17·6	-2	SSW	6	c/d	53	85	47	8	5	3	-	9	9+	1800
13B	Stornoway	12·6	+2	SW	5	r_0r_0	52	97	52	6	5	-	-	10	10	800
15	Dalwhinnie	18·2	-2	SW	3	id_0	47	92	45	7	5	4	8	4-6	9+	1500
	Aberdeen	18·9	-4	SW'S	3	c	50	85	45	6	5	7	-	1	10	4000
	Wick	14·8	-6	SW	4	ebc	51	85	47	9	8	7	4	7-8	7-8	2000
16	Sumburgh	12·7	-2	SW'S	6	ir_0	51	92	49	7	5	2	-	7-8	10	1200
17	Blacksod Point	18·6	-8	S'W	6	c/pr	54	92	52	8	6	-	-	9+	9+	1500
18	Malin Head	18·6	-2	SSW	4	c	51	85	47	8	5	-	-	9+	9+	1500
	Aldergrove	22·2	-14	SSW	3	c	51	75	41	8	5	9	2	Tr	9	2500
19	*Birr Castle	23·3	-6	SSW	3	c	52	75	44	8	5	1	-	7-8	10	2500
20	Valentia Obsy.	22·4	-6	S'W	5	c	54	65	43	9	7	-	-	10	10	4000
	Roches Point	24·5	-8	S'W	3	c	52	85	48	8	5	-	-	9+	9+	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Force 0–12 (19)	Weather (20)	°F. Temp. (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)
London (Kew)	29·1	+6	SSE	1	cf+	42	92	40	3	-	-	6	0	9	-	1	*
Croydon	28·9	+2	SSE	1	bf+	44	85	41	3	-	4	-	0	0	-	1	*
S. Farnborough	28·8	+4	S	1	cf+	45	85	40	2	-	7	8	0	9	-	1	*
Boscombe Down	28·2	0	SE'S	1	z_0	47	85	44	6	5	-	-	9+	9+	3700	0	*
Thorney Island	28·5	-2	E	1	z_0	46	92	44	6	5	-	-	7-8	7-8	4100	1	*
Lympne	29·4	-2	-	0	z_0	42	97	41	6	-	4	1	0	2-3	-	1	§!
Manston	29·3	-4	E'S	1	fg	42	92	39	4	5	5	-	Tr	4-6	2500	1	*
Shoeburyness	28·8	0	SW	1	c-bc	44	92	42	6	-	7	-	0	7-8	-	0	*
Felixstowe	28·7	+2	WSW	1	z_0	45	92	42	6	-	7	-	0	4-6	-	1	1
Gorleston	27·8	-4	SW'W	2	z_0	46	85	42	5	-	-	-	0	0	-	0	2
Mildenhall	28·2	+2	S'W	2	z_0	49	75	42	5	5	-	-	10	10	3500	1	*
Cranwell	27·3	+2	SSW	3	z_0	47	85	42	6	5	7	-	7-8	9+	3300	0	*
Birmingham	27·2	0	S	3	m	47	92	45	4	5	-	-	10	10	1500	1	*
Upper Heyford	28·2	+6	-	0	m	47	85	43	4	5	-	-	10	10	3200	1	*
Ross-on-Wye	27·1	-4	-	0	o	40	75	32	7	5	-	-	10	10	3000	1	*
Hartland Point	26·4	0	S	2	bc	49	85	46	8	1	4	-	2-3	4-6	2500	1	3
Bristol	27·7	-2	S	3	z_0	50	85	46	6	5	-	-	10	10	4100	1	*
Portland Bill	27·1	+2	ESE	3	ebc	53	92	51	8	5	-	-	7-8	7-8	4000	1	1
Plymouth	27·4	-2	S'E	1	z_0	50	85	44	7	7	-	1	2-3	2-3	2500	1	1
The Lizard	26·1	-6	SSE	3	ebc	51	85	46	8	8	5	-	4-6	7-8	2000	1	4
Scilly (St. Mary's)	25·5	-4	SSE	3	c	52	85	48	8	8	-	-	9+	9+	1500	1	3
Guernsey																	
Pembroke	25·8	-2	SW'W	4	ebc	52	75	43	8	8	4	-	7-8	7-8	2500	1	3
Holyhead (Valley)	24·4	-2	S'W	5	c	51	85	46	8	5	7	-	9	9+	3000	0	4
Chester (Sealand)	25·7	+2	S	1	o	50	85	45	6	5	-	-	10	10	3600	0	*
Manchester	26·0	0	S'E	3	z_0	48	85	44	6	5	3	-	7-8	10	3100	1	*
Spurn Head	27·7	0	SSW	3	z_0	48	85	43	6	4	-	-	2-3	2-3	4000	0	2
Catterick	25·2	0	SSE	1	z_0	48	85	43	6	5	9	-	1	9+	4500	1	*
Tynemouth	24·7	+2	WSW	2	m	49	75	45	4	5	-	-	9+	9+	2500	1	2
St. Abbs Head	21·3	0	-	0	bc	47	55	35	7	5	4	-	4-6	4-6	4000	0	3
Leuchars	20·2	0	WSW	2	z_0	48	92	46	6	5	7	-	Tr	9+	2500	1	*
Renfrew (Abbots I.)	20·8	-4	SSW	3	c	50	75	43	7	5	2	-	9	10	2000	1	*
Eskdalemuir	22·5	+2	S'E	2	ebc	45	85	40	8	5	-	-	7-8	7-8	1500	1	*
Point of Ayre	23·2	-4	SW'W	3	c	50	85	45	8	8	1	-	4-6	10	2000	0	2
Tiree	16·9	-4	S'W	6	ir_0	51	85	47	7	5	2	-	9	10	2000	1	5
Stornoway	12·6	+2	SW	5	dd	51	97	50	5	5	-	-	10	10	800	1	
Dalwhinnie	17·9	0	SW	3	ebc	45	85	39	8	5	-	-	7-8	7-8	2500	1	*
Aberdeen	18·1	-6	SSW	3	z_0	50	85	43	6	-	7	-	0	9+	-	1	2
Wick	15·1	+2	SSW	4	c	50	85	46	9	5	4	-	2-3	9	2000	1	*
Sumburgh	13·3	+2	SSW	6	c	52	92	50	8	5	2	-	9	10	1500	1	4
Blacksod Point	16·8	-6	S	6	c/r	53	97	52	7	6	-	-	9+	9+	1500	1	5
Malin Head	16·8	-10	S'E	6	c	50	85	46	8	5	2	-	10	10	2500	2	4
Aldergrove	21·3	-2	SW	3	o	49	75	41	8	5	-	-	10	10	4300	1	*
*Birr Castle	21·3	-4	S	3	c	50	75	42	8	5	2	-	7-8	10	2500	1	*
Valentia Obsy.	20·7	-6	S	3	c/pr	50	85	46	8	8	-	-	9+	9+	4000	1	3
Roches Point	22·9	-6	SSW	3	c/r	50	92	48	8	6	2	-	4-6	9	1500	1	4

PAST 24 HOURS.

Stations	Weather 7h.—13h. 9th (39)	13h.—18h. 9th (40)	18h. 9th to 1h. 10th (41)	1h.—7h. 10th (42)
London (Kew)	feccm	cffw	cFfw	bcFFw
Croydon	bmbcf	cz_0cf	bfbmw	bmwcmbcm
S. Farnborough	$bfxbzycm_0$	$cbccz_0mf$	cfbm	bmcbcm
Boscombe Down	bcfbcmb	cbccm	$mcir_0o$	$cm_0ir_0m_0$
Thorney Island	bm_0xbcm_0	bcm_0w	bcm_0w	bcm_0w
Lympne	$bbcz_0$	$bcbm_0w$	$bcbm_0w$	bm_0wx
Manston	bm_0bcz_0	$bz_0\ bcm_0$	$bcmwbm_0$	$bm_0bfybfy$
Shoeburyness	bm_0bcz_0	bcz_0	cm_0bf	bff
Felixstowe	$bcmcmbcm_0$	bcm_0	cm_0bm_0w	bmw bfyx
Gorleston	$bcbz_0$	bcbm	cz_0	$cbcm_0$
Mildenhall	$bm_0xbmbcm_0$	cz_0	cz_0	cz_0bccm_0w
Cranwell	bbc,cm_0	cm_0	cm_0	cm_0
Birmingham	bccm	cm	c	c
Upper Heyford	bxfcm	cmm_0cm	cm_0	cm_0
Ross-on-Wye	cmfcm	cz_0cc	cc	comf
Hartland Point	c	cbc	bcbbc	bc
Bristol	cm_0cz_0bc	$cbccm_0$	bcm_0cm_0	cm_0
Portland Bill	co	c	c	c
Plymouth	bc	bc	$bbcm_0w$	$bm_0\ bcmw$
The Lizard	bc	bcc	bccbc	bc
Scilly (St. Mary's)	c	c	b	bc
Guernsey				
Pembroke	cpr_0	c	c	c
Holyhead (Valley)	c	cir_0c	bcc	cir_0c
Chester (Sealand)	cm_0	cz_0m_0	cm_0	bm_0
Manchester	cm_0	cz_0m_0	ccm_0	cm_0c
Spurn Head	bcz_0	bcm_0	om_0	om_0
Catterick	bcm_0cc	cm_0	cmbcm	$bcmcm_0$
Tynemouth	bcffcm	cm	cmbcc	c
St. Abbs Head	$bccz_0c$	cbc	bcbcc	c
Leuchars	$bccm_0$	cm_0	cm_0c	c
Renfrew (Abbots I.)	c	c	c	cid_0
Eskdalemuir	cm_0c	c	cr_0c	cr_0m_0
Point of Ayre	c	c	cbc	$bcid_0$
Tiree	or_0oid_0c	$ccir_0$	cr_0cir_0c	cm_0crr
Stornoway	$cr_0r_0m_0$	$cm_0r_0r_0cd$	$r_0r_0rm_0$	$r_0r_0Rm_0$
Dalwhinnie	oid_0c	cpr_0	*	cid_0c
Aberdeen	cir_0cz_0	cz_0	cz_0	cz_0
Wick	c	cv	c	c
Sumburgh	cir_0	cr_0r_0c	cbcc	$cbcr_0r_0$
Blacksod Point	pr	r	r	r
Malin Head	c	c	c	r
Aldergrove	c	c	c	c
*Birr Castle	c	c		c
Valentia Obsy.	c	pr	pr	r
Roches Point	c	r	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 10th November 1942

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands	Light south wind becoming variable; fair today, extensive fog tonight; mild today; moderate night temperature, but local ground frost.
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, 11 S.E. Scotland	Light southwest wind becoming variable; cloudy today, rain tonight; mild today, moderate night temperature.
12 S.W. Scotland & Isle of Man	Light southwest-south wind veering northwest; cloudy, rain at times; rather cold today, moderate night temperature.
13A W. Scotland, 13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland	Light or moderate northwest to west wind; cloudy, with rain at first, bright intervals later; rather cold today, moderate night temperature.
16 Orkneys and Shetlands, 17 N. W. Ireland, 18 N. E. Ireland	As 13-15.
19 S. E. Ireland	As 12.
20 S. W. Ireland	As 13-18.

GENERAL INFERENCE

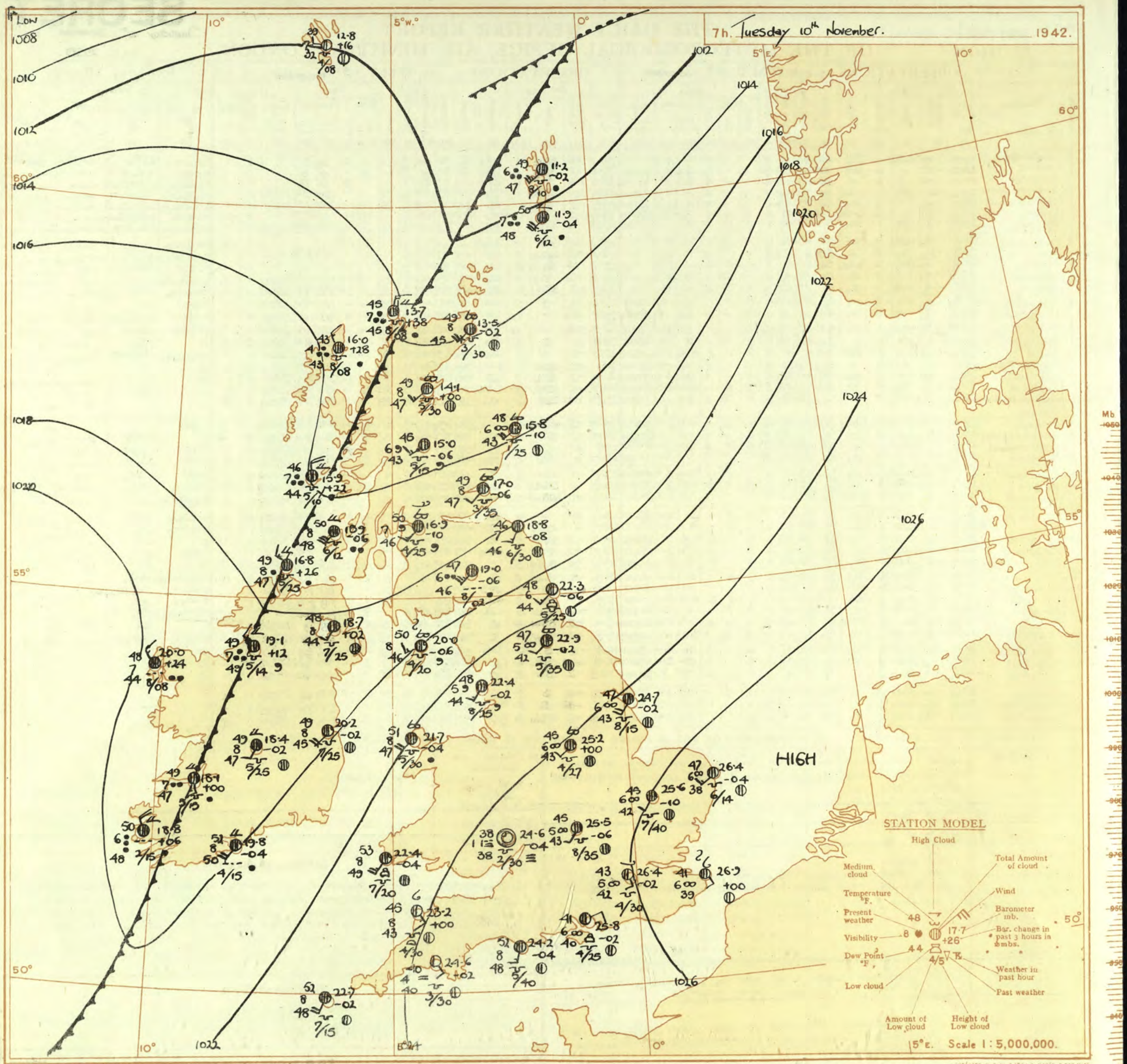
A depression near Shetland is moving northeast and an associated cold front over Scotland and Ireland will later become almost stationary over Wales and north England. A ridge of high pressure is building up to northwest of the British Isles. There will be rain today in Scotland and Ireland, spreading later to Wales and north England. It will be fair today in east and south England but fog will develop extensively there tonight.

FURTHER OUTLOOK

Fair quiet weather over most of the country, with fog and slight frost at night. Occasional rain in extreme North.

Forecasts issued at 10.30

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



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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

BRITISH SECTION

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

Tuesday 10th November 1942

No. 29573

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	*	*	*	*	*	35	*	*	*	*	*	*	*	*	*
	Croydon ...	290	27.4	-10	S	2	m	40	97	40	4	5	-	-	1	1	3000
	S. Farnborough	226	27.1	-10	SSE	2	Z_0	42	92	40	6	-	-	-	0	0	-
	Boscombe Down	417	26.7	-6	SE'S	2	Z_0	46	97	45	6	5	-	-	10	10	3500
	Thorney Island	10	26.8	+10	E	1	Z_0	45	92	44	6	5	-	-	7-8	7-8	3000
	Lympne ..	283	26.2	-6	-	0	Z_0	41	97	41	6	5	-	-	Tr	Tr	4000
	Manston ...	154	27.8	-10	SE	1	Z_0	42	92	41	6	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	27.9	-6	-	0	Z_0	42	97	42	5	-	-	-	0	0	-
	Gorleston ...	5	27.4	-4	W'N	1	Z_0	46	75	39	6	5	-	-	9+	9+	1500
	Mildenhall ...	15	26.9	-10	S'E	2	Z_0	47	75	39	6	5	-	-	9+	10	4700
	Cranwell ...	203	26.2	-6	S	2	Z_0	45	92	43	5	5	-	-	9+	9+	3200
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	26.5	-10	-	0	Z_0	45	92	42	6	5	-	-	10	10	2600
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	24.4	-10	SE	3	b-bc	45	92	43	8	-	4	-	0	2-3	-
	Bristol ...	209	26.7	-6	-	0	Z_0	50	85	46	5	5	-	-	9+	9+	3500
	Portland Bill ...	32	26.2	-10	E	2	c-bc	51	92	49	8	5	-	-	7-8	7-8	4000
	Plymouth ...	82	25.9	-8	SE	2	Z_0	41	97	41	6	5	-	-	1	1	2500
	The Lizard ...	240	24.7	-6	S'E	3	b-bc	51	75	45	8	8	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	23.9	-8	SSE	4	c	52	85	48	8	5	-	-	10	10	1000
	Guernsey ...	175															
6	Pembroke ...	142	23.6	-10	SW'S	5	c	53	85	48	8	8	-	-	10	10	2500
7	Holyhead (Valley)	32	23.1	-6	S'W	4	$i r_0$	50	92	47	7	5	-	-	10	10	1700
	Chester (Sealand)	16	24.3	-8	S	2	Z_0	48	85	44	6	5	-	-	10	10	3600
8	Manchester ...	235	24.8	-4	SSE	3	Z_0	46	85	41	6	5	-	-	10	10	2300
10	Spurn Head ...	29	26.1	0	SSW	3	Z_0	47	85	44	6	5	-	-	10	10	1500
	Catterick ...	175	23.8	-10	SE'S	2	m	47	85	43	4	5	1	-	4-6	4-6	3900
	Tynemouth ...	108	23.7	-4	S	3	Z_0	48	85	44	6	8	-	-	9+	9+	2500
11	St. Abbs Head	280	20.4	-6	S	1	c	47	92	46	7	5	-	-	10	10	2500
	Leuchars ...	36	18.5	-6	-	0	c	48	92	45	7	5	7	8	4-6	9+	4000
12	Renfrew (Abbots I.)	19	19.1	-4	SW	3	c	51	75	44	7	5	2	-	7-8	10	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	24.5	-8	SW'W	3	bc	50	85	46	8	5	*	*	4-6	4-6	3000
13A	Tiree	44	14.4	-14	S'W	5	c/t	51	92	47	6	5	-	-	10	10	1000
13B	Stornoway ...	15	11.3	-4	SW	6	tt	52	97	52	5	5	-	-	10	10	400
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	17.5	0	S	4	c-bc	46	92	43	9	5	-	-	7-8	7-8	4000
	Wick ...	114	14.4	-2	SSW	4	c	49	85	44	8	5	7	-	4-6	10	2000
16	Sumburgh ..	19	13.5	-2	SW	5	c	50	92	48	8	5	-	-	9	9	2500
17	Blacksod Point	18	15.6	-2	SW	6	tt	52	97	51	7	6	7	-	4-6	10	800
18	Malin Head ...	84	14.9	-8	S'W	5	c	49	92	47	8	5	-	-	7-8	10	2500
	Aldergrove ...	268	18.6	-8	S	3	c	48	85	44	8	5	-	-	10	10	3400
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	19.2	-6	S'W	5	$i r_0$	52	92	50	6	5	2	-	9	10	1500
	Roches Point	22	21.3	-8	SSW	4	bc	51	85	47	8	6	-	-	4-6	4-6	1500

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)	26.3	-2	-	0	cf-	42	97	41	3	5	-	-	10	10	2500	1	*
Croydon ...	26.4	-2	SSE	1	Z_0	43	97	42	5	5	-	1	4-6	4-6	3000	1	*
S. Farnborough	25.9	-2	SE	1	Z_0	44	92	42	5	5	3	-	2-3	4-6	3000	1	*
Boscombe Down	25.5	-2	E'S	2	$i r_0$	45	97	45	6	5	-	-	9+	9+	3500	0	*
Thorney Island	23.8	-2	ENE	2	Z_0	41	97	40	6	8	-	-	4-6	4-6	2500	1	*
Lympne ..	27.2	-2	ESE	1	Z_0	40	97	39	6	1	-	2	Tr	2-3	3000	1	1
Manston ...	26.9	0	SE	1	Z_0	41	92	39	6	-	4	6	0	7-8	-	1	*
Shoeburyness ...	26.7	-2	-	0	b-bcf	33	92	32	2	-	4	-	0	2-3	-	1	*
Felixstowe ...	26.9	-2	-	0	b-bcf	34	97	34	2	5	-	-	2-3	2-3	3500	1	1
Gorleston ...	26.4	-4	SW	3	Z_0	47	75	38	6	5	-	-	9	9	1400	0	2
Mildenhall ...	25.6	-10	S'E	2	Z_0	45	92	42	6	5	-	-	9+	9+	4000	1	*
Cranwell ...	25.0	-4	S'W	3	Z_0	46	92	44	6	3	7	-	4-6	10	4000	0	*
Birmingham ...	25.0	-4	S	2	Z_0	45	92	43	6	5	-	-	9+	9+	2500	1	*
Upper Heyford	25.5	-6	S'W	1	Z_0	45	92	43	5	5	-	-	10	10	3500	1	*
Ross-on-Wye	24.6	-4	-	0	bFr	38	97	38	1	5	-	-	1	1	3000	1	*
Hartland Point	23.2	0	SE	3	bc	45	92	43	8	7	4	-	4-6	4-6	3000	1	3
Bristol ...	23.2	-6	S	1	Z_0	46	97	45	6	5	-	-	9+	9+	4000	1	*
Portland Bill ...	24.2	-4	S	3	c-bc	52	85	48	8	5	-	-	7-8	7-8	4000	1	3
Plymouth ...	24.6	-2	SE	1	m	40	97	40	4	5	-	-	2-3	2-3	3000	1	1
The Lizard ...	23.3	-4	SSE	3	bc	50	85	46	8	8	6	-	4-6	4-6	2500	0	3
Scilly (St. Mary's)	22.7	-2	S	4	c	52	85	48	8	5	-	-	9+	9+	1500	1	3
Guernsey ...																	
Pembroke ...	22.4	-4	SSW	5	c	53	85	49	8	8	-	-	9+	9+	2000	1	3
Holyhead (Valley)	21.7	-4	SSW	4	c	51	85	47	8	5	7	-	7-8	10	3000	1	3
Chester (Sealand)	23.0	-2	S'W	2	Z_0	47	85	43	6	5	-	-	9+	9+	3500	0	*
Manchester ...	23.4	-2	SSE	3	Z_0	45	92	43	6	5	3	-	9+	10	4000	0	*
Spurn Head ...	24.7	-2	S'W	4	Z_0	47	85	43	6	5	-	-	10	10	1500	0	2
Catterick ...	22.9	-2	S	2	Z_0	47	85	42	5	5	7	-	7-8	9+	3500	1	*
Tynemouth ...	22.3	-6	SSW	3	c-bc	48	85	44	6	8	-	-	7-8	7-8	2500	1	3
St. Abbs Head	18.8	-8	S	3	c	46	97	46	7	5	-	-	9	9	3000	0	2
Leuchars ...	17.0	-6	SSW	2	c	49	97	47	8	5	7	8	2-3	9+	3500	1	*
Renfrew (Abbots I.)	16.9	-10	S'W	3	$i d_0$	50	85	46	7	5	7	2	4-6	10	2500	1	*
Eskdalemuir ...	19.0	-6	SSW	5	$t_0 r_0$	47	97	46	6	6	-	-	10	10	200	1	*
Point of Ayre...	20.0	-6	WSW	3	c	50	85	46	8	5	7	6	4-6	9+	2000	0	
Tiree	15.9	+22	N'W	4	tt	46	92	44	7	5	2	-	7-8	10	1000	1	4
Stornoway ...	16.0	+28	NW	3	tt	43	97	43	4	5	-	-	10	10	800	1	
Dalwhinnie ...	15.0	-6	SW	3	$i d_0$	45	92	43	6	5	-	-	7-8	7-8	1500	1	*
Aberdeen † ...	15.8	-10	SSW	4	Z_0	48	75	43	6	5	7	-	Tr	9+	2500	1	2
Wick ...	13.5	-2	SSW	5	c	49	85	45	8	5	7	-	2-3	10	3000	0	*
Sumburgh ..	11.9	-4	SSW	6	tt	50	92	48	7	5	1	-	9	10	1200	1	5
Blacksod Point	20.0	+24	NW'N	3	c/t	48	85	44	7	6	-	-	10	10	800	2	3
Malin Head ...	16.8	+26	N'N	3	$i r_0$	49	92	47	8	5	2	-	7-8	10	2500	2	4
Aldergrove ...	18.7	+2	S'W	3	c	48	85	44	8	5	-	-	9+	9+	2500	1	*
Birr Castle ...	18.4	-2	S	2	c	49	92	47	8	5	2	-	7-8	10	2500	1	*
Valentia Obsy.	18.8	+6	NW'N	4	$i R$	50	92	48	6	6	2	-	1	10	1500	1	4
Roches Point	19.8	-4	SSW	4	c	52	92	50	8	6	2	-	4-6	9+	1500	1	4

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 9th Hrs. (38)
London (Kew)	50	35	27	-	Tr	3.7
Croydon ...	51	39	35	-	-	3.3
S. Farnborough	55	39	32	-	-	4.7
Boscombe Down	53	44	43	-	0.1	6.1
Thorney Island	57	41	32	Tr	-	*
Lympne ..	54	38	28	-	Tr	7.2
Manston ...	54	39	32	-	Tr	6.8
Shoeburyness ...	57	31	25	-	-	4.1
Felixstowe ...	56	33	26	-	-	5.4
Gorleston ...	54	43	36	-	-	7.2
Mildenhall ...	54	41	39	-	Tr	4.5
Cranwell ...	52	44	43	-	-	4.3
Birmingham ...	48	45	38	-	-	0.6
Upper Heyford	48	45	42	-	-	*
Ross-on-Wye	51	38	31	-	-	0.0
Hartland Point	53	44	41	-	-	3.1
Bristol ...	56	46	40	-	Tr	4.2
Portland Bill ...	53	47	*	-	-	*
Plymouth ...	57	40	32	-	-	5.5
The Lizard ...	56	48	*	-	-	8.0
Scilly (St. Mary's)	57	52	*	-	-	5.1
Pembroke ...	55	49	*	Tr	-	0.6
Holyhead (Valley)	55	48	47	Tr	2	*
Chester (Sealand)	55	46	43	-	-	0.3
Manchester ...	51	44	40	-	-	*
Spurn Head ...	53	46	*	-	-	5.0
Catterick ...	53	46	42	-	-	2.7
Tynemouth ...	53	47	42	-	-	*
St. Abbs Head	51	44	*	-	-	0.9
Leuchars ...	51	45	39	-	-	0.0
Renfrew (Abbots I.)	53	49	46	-	Tr	0.7
Eskdalemuir ...	50	44	41	-	1	0.1
Point of Ayre...	55	49	*	-	Tr	
Tiree	53	46	*	0.2	4	0.0
Stornoway ...	53	43	42	1	15	0.0
Dalwhinnie ...	49	44	40	Tr	0.1	0.6
Aberdeen † ...	51	46	43	2	-	0.0
Wick ...	51	48	45	-	-	*
Sumburgh ..	52	49		0.2	Tr	
Blacksod Point	55	53	*	0.6	17	*
Malin Head ...	53	52		-	0.3	0.0
Aldergrove ...	51	47	45	-	-	1.2
Birr Castle ...	53	50	48	-	-	0.3
Valentia Obsy.	54	50	48	Tr	10	0.1
Roches Point	53	52	*	0.3	2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 9th November 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	57	03755	13328	57	02764	17227
115	52	64635	53668			
203				6-	03838	20668
206	57	02854	53627	57	02963	53525
210	57	02963	17327	09	02990	16327
220				5-	61738	16528
230	52	02757	18458	5-	02856	18326
245	57	05541	20328	57	05651	19327
260	07	02890	53425	57	02864	20426
278	57	02864	15226	5-	02867	16327
279	57	02774	19427	57	02765	19427
285	24	01743	24614			
288	55	02757	17317	57	04553	15224
578	57	02846	22327	57	02845	00068
301	53	05667	18327	5-	05667	28387
321	54	05665	20327	57	17564	10328
299	54	08454	20215	50	05553	20313
292	53	17363	17115	00	47390	00045
310	--	01626	24316	--	08428	24428
614	5-	43247	00047	07	08490	20148

01h. G.M.T. 10th November 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109				5-	62768	16368
115	52	02844	53567	52	64738	32368
203						
206	52	02866	55528	57	02865	20327
210	07	02990	18228	54	02655	18528
220				52	03745	28328
230	5-	21858	18358	5-	62648	17368
245	57	05663	18328	57	05655	19327
260	57	01863	20425	54	02865	20326
278	5-	02867	18457	57	02867	19357
279	50	01763	20513	5-	02866	51428
285						
288	52	05664	15317	53	05663	15417
578	5-	02848	18328	52	64745	26358
301	5-	02768	16428	5-	51558	16358
321	5-	05568	25247	57	08465	18227
299	00	08490	22200	5-	05668	22228
292	5-	05568	14228	5-	08468	15128
310						
614	07	08490	18148	57	05674	18127

13h. G.M.T. 9th November 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333	5-	02844	18467	5-	21744	17258
334	--	03647	24228			
340	5-	05667	18227	5-	05668	16328
136	04	05690	20214	50	05654	20224
336	57	05644	28428	57	02756	16328
350	5-	02777	18227	57	05667	16128
368	7-	05677	15127	51	05668	16128
379	5-	02767	20227	5-	05668	14228
390	07	43390	16144	03	43390	00027
382	56	02864	20246	5-	02577	00027
438	84	05653	20113	74	01663	00014
430	13	02763	00015	03	05690	32123
409	80	02965	17325	40	01962	15303

01h. G.M.T. 10th November 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333	5-	21767	16457	52	21745	17358
334						
340	5-	08468	16228	5-	05558	15328
136	5-	05668	20228	5-	05568	17128
336				57	02754	20328
350	5-	05668	16128	5-	05568	14328
368	50	00762	00002	--	48100	00009
379	5-	02768	26248	5-	21658	12258
390	00	45390	20240	5-	45355	20245
382	5-	05563	00028	53	05667	00028
438	10	01653	14113	00	01763	14313
430	5-	05656	32126	50	05666	32116
409	54	01853	10324	54	01863	14314

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	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew *	fecem	cffw	cffw	
Croydon ...	bmbef	czocf	bfbmwbcm	
Greenwich ...	bf	fbccmbm	bmcbmf	Kew 24 hours ended 7h. Max. Time 0.9 22-23h 9h
Camden Square	c	c	*	
Kensington ...	ocbcz	bcf	*	
Hampstead ...	ofbc	bc	bcm	Min. Time 0.1 18-21h 9h

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	50	36	27	-	Tr	3.7	*	*
Croydon	51	39	35	-	-	3.3	*	*
Greenwich ..	53	38	27	-	Tr	4.2	73	94
Westminster ..	52	38	32	-			83	93
Regents Park ...		38	30	-	-		69	96
Camden Square	49	37	29	-	-	*	*	97
Kensington	51	38	26	-	Tr		84	93
Hampstead	51	41	31	-	-		*	91

SECRET

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

Wednesday 11th November 1942

No. 29574

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)	Med. (11)	High (12)	Amount Low 0–10 (13)	Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	25·1	-10	SSW	2	zo	50	75	43	6	1	-	-	2-3	2-3	2500
	Croydon	25·5	-10	SSE	2	b-bc	55	65	43	7	1	-	-	2-3	2-3	3000
	S. Farnborough	24·9	-12	SSE	2	zo	53	65	43	6	1	-	-	4-6	4-6	3000
	Boscombe Down	24·6	-10	SSE	2	c-bc	52	75	43	7	2	-	-	7-8	7-8	2600
	Thorney Island	24·7	-10	SSE	3	b-bc	54	65	41	8	2	-	-	2-3	2-3	2500
	Lympne	25·7	-16	SE	1	b	52	65	41	8	1	-	-	Tr	Tr	3500
	Manston	25·9	-10	SE	2	b	53	75	43	8	1	-	-	Tr	Tr	3500
2	Shoeburyness	26·0	-4	S	1	b-bc	54	75	44	8	1	-	-	2-3	2-3	4000
	Felixstowe	26·0	-8	SW'S	2	zo	54	65	44	6	1	-	-	Tr	Tr	4000
	Gorleston	25·4	-8	S	2	b	51	75	45	7	-	-	-	0	0	-
	Mildenhall	25·3	-8	S'W	2	b-bc	55	65	44	7	1	4	1	1	2-3	3500
	Cranwell	24·0	-10	S	4	zo	51	85	48	6	5	-	-	9+	9+	5000
3	Birmingham	23·5	-8	SSW	3	c	52	85	48	8	8	7	-	7-8	9	4000
	Upper Heyford	24·8	-10	SW	2	zo	50	75	44	6	5	-	-	9	9	4000
4	Ross-on-Wye	23·8	-10	SW'S	1	zo	51	85	46	6	7	4	9	7-8	7-8	3500
5	Hartland Point	23·3	-2	WNW	3	c	51	85	47	8	2	7	-	2-3	9	2500
	Bristol	24·7	-6	-	0	zo	51	85	46	6	5	-	-	10	10	5800
	Portland Bill	23·4	-12	SE	3	bc	53	85	49	8	2	-	-	4-6	4-6	4000
	Plymouth	24·0	-6	SE'E	3	bc	55	85	52	7	8	7	-	4-6	4-6	3000
	The Lizard	23·5	6	SSW	3	bc	55	65	45	8	8	6	-	4-6	4-6	2000
	Scilly (St. Mary's)	23·6	0	SSE	2	c	53	75	47	8	5	7	-	4-6	10	1500
	Guernsey															
6	Pembroke	23·1	+10	SSW	4	c	53	85	49	8	8	2	-	9	10	1700
7	Holyhead (Valley)	21·5	+2	SSW	4	roro	52	97	51	5	8	7	-	7-8	10	1000
	Chester (Sealand)	22·5	-4	SSW	1	c	53	75	45	7	7	4	-	9+	9+	3500
8	Manchester	23·4	-2	S'E	3	iro	50	85	45	6	5	-	-	10	10	4200
10	Spurn Head	24·7	-6	S'W	3	zo	50	85	46	5	7	-	-	10	10	1500
	Catterick	22·5	-6	S'W	2	zo	51	75	44	5	5	2	-	7-8	9+	1800
	Tynemouth	22·1	-6	SSW	3	zo	49	85	45	5	5	-	-	9	9	2700
11	St. Abbs Head	17·9	+8	SW	3	c	51	92	48	7	5	4	-	7-8	9+	3000
	Leuchars	18·1	+4	W'S	2	c/d	50	97	49	7	5	-	-	10	10	1500
12	Renfrew (Abbots I.)	19·2	+14	W	3	iro	51	85	45	8	5	1	-	4-6	9+	1000
	Eskdalemuir	19·5	0	SW	4	c	49	92	47	6	6	-	-	10	10	300
	Point of Ayre	20·7	+4	WNW	4	iro	51	97	50	8	6	2	-	9+	10	1000
13A	Tiree	22·6	+28	NNW	4	c-bc	48	65	38	9	2	3	-	4-6	7-8	2000
13B	Stornoway	22·1	+30	NNW	2	b-bcjp	47	75	40	9	2	7	8	2-3	2-3	2500
15	Dalwhinnie	20·0	+30	N	2	ir	43	92	42	7	5	2	-	9	10	1500
	Aberdeen	18·6	+18	NW	4	iro	50	92	47	6	5	7	-	4-6	10	2500
	Wick	19·5	+34	NW	3	roro	44	85	39	7	5	2	-	10	10	2000
16	Sumburgh	16·8	+30	NW'N	4	roro	45	92	43	8	5	2	-	4-6	10	1500
17	Blacksod Point	25·7	+26	N	3	bc	50	85	46	8	2	-	-	4-6	4-6	2500
18	Malin Head	22·6	+24	N	5	bc	49	65	38	8	9	-	-	4-6	4-6	2500
	Aldergrove	22·4	+18	NNW	3	c/r	48	85	45	8	8	7	-	9	9+	1000
19	Birr Castle	22·5	+24	SW	1	c	49	85	45	7	6	-	-	7-8	10	800
20	Valentia Obsy.	24·3	+26	NNE	5	c/pr	49	85	45	8	8	-	-	9	9	2500
	Roches Point	21·3	+6	W'N	4	dr	51	97	50	5	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)	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)	25·7	+10	SSE	1	bf+	43	92	41	3	-	-	-	0	0	-	1	*
Croydon	25·8	+4	SE	1	m	43	92	41	4	-	-	-	0	0	-	1	*
S. Farnborough	25·6	+8	SE	1	b-bof	43	85	38	2	-	7	-	0	2-3	-	1	*
Boscombe Down	25·0	+10	-	0	zo	44	85	40	6	5	-	-	2-3	2-3	5700	0	*
Thorney Island	25·1	+6	NE	1	fg	44	85	39	6	-	7	-	0	1	-	1	*
Lympne	25·8	+2	-	0	zo	39	92	37	6	-	-	-	0	0	-	1	3
Manston	25·4	+2	ESE	1	zo	40	92	37	6	-	-	-	0	0	-	1	§
Shoeburyness	25·6	+4	ESE	2	b	46	85	42	7	-	-	-	0	0	-	1	*
Felixstowe	25·9	+2	SE'E	1	zo	45	92	43	6	-	-	-	0	0	-	1	1
Gorleston	25·7	+8	WSW	2	zo	45	92	43	5	-	7	-	0	2-3	-	0	2
Mildenhall	25·6	+6	SE'S	2	zo	43	92	41	6	5	3	-	1	2-3	4000	1	*
Cranwell	24·8	+10	S'W	2	zo	47	92	45	6	5	-	-	10	10	5000	0	*
Birmingham	24·5	+6	S	2	zo	48	92	46	6	5	-	-	10	10	1500	1	*
Upper Heyford	24·9	+4	-	0	zo	47	85	43	6	5	-	-	9+	9+	3400	1	*
Ross-on-Wye	24·5	+6	-	0	zo	47	92	44	5	5	1	-	9+	10	3000	1	*
Hartland Point	23·6	+4	SE	2	c	50	92	47	8	1	7	-	Tr	9+	3000	1	
Bristol	25·1	+6	SW	1	c-bcft	47	85	44	3	5	7	6	4-6	7-8	4000	1	*
Portland Bill	24·0	+10	E	2	c-bc	51	85	47	8	5	-	-	7-8	7-8	4000	1	3
Plymouth	24·6	+8	-	0	zo	50	92	47	6	5	-	-	9+	9+	5500	1	1
The Lizard	23·9	+4	ESE	3	c-bc	49	85	45	8	8	6	-	7-8	7-8	2000		3
Scilly (St. Mary's)	23·1	+2	SE'S	2	c	52	75	46	8	8	7	-	4-6	9+	1200	1	3
Guernsey																	
Pembroke	23·6	+2	W'S	2	c	53	92	51	8	8	-	-	9+	9+	2500	1	3
Holyhead (Valley)	24·3	+22	N'E	4	c/r	49	85	46	7	5	-	-	10	10	1500	1	3
Chester (Sealand)	23·6	+10	S'E	1	c	49	85	45	6	5	2	-	7-8	10	3000	1	*
Manchester	23·9	+6	SE'S	3	zo	49	85	44	6	5	-	-	9	10	3000	1	*
Spurn Head	24·8	+4	SSW	3	zo	49	85	45	5	5	-	-	10	10	1500	0	2
Catterick	23·7	+10	SSW	2	m	49	85	45	4	5	7	-	7-8	9+	2000	1	*
Tynemouth	22·3	+6	SW	2	m	51	85	48	4	5	-	-	9+	9+	2500	1	2
St. Abbs Head	20·8	+10	N	4	rr	45	97	45	7	5	-	-	10	10	1500	1	3
Leuchars	23·8	+44	NE	1	c	44	92	42	8	5	-	-	10	10	3000	1	*
Renfrew (Abbots I.)	23·8	+24	NW	3	c	47	85	41	8	5	7	-	7-8	9	2500	1	*
Eskdalemuir	22·4	+16	SE	1	c	45	85	39	8	5	7	-	4-6	9+	1500	1	*
Point of Ayre	24·2	+22	ESE	5	c	49	75	42	8	5	7	-	4-6	9	4000	1	4
Tiree	26·0	+18	NW'N	2	bc	43	75	33	9	2	-	-	4-6	4-6	3900	1	2
Stornoway	24·7	-2	-	0	b-bc	38	92	36	9	2	6	-	1	2-3	2500	1	
Dalwhinnie	25·2	+26	NE	2	id	38	92	35	7	5	-	-	10	10	1500	1	
Aberdeen	20·3	+28	NNW	3	c/r	43	92	41	7	5	2	-	4-6	9+	2000	1	2
Wick	22·9	+10	-	0	bc	38	85	33	9	8	7	-	2-3	4-6	2000	1	*
Sumburgh	21·7	+26	NW'W	3	c-bc	46	65	36	9	2	7	-	2-3	7-8	2000	1	4
Blacksod Point	28·1	+18	N	1	b-bc	44	85	40	8	2	4	-	2-3	2-3	4000	1	2
Malin Head	25·5	+14	N	3	b-bc	47	75	40	8	4	-	-	2-3	2-3	2500	1	3
Aldergrove	25·9	+22	-	0	b	40	85	36	8	5	-	-	Tr	Tr	4000	1	*
Birr Castle	26·0	+22	N	2	bc	45	85	41	8	5	-	-	4-6	4-6	2500	1	*
Valentia Obsy.	27·3	+26	NNE	2	c-bc	49	65	34	8	8	-	-	7-8	7-8	2500	0	
Roches Point	24·8	+28	N	4	bc	49	85	45	8	5	3	-	2-3	4-6	1500	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)	Fbemow	bzomfw	f-Fwx	ofxFe
Croydon	bzob	bcmobmbm	bmbf	bfwx
S. Farnborough	bcmobfbczo	bczof	bcfbmbcmofx	bfxoge
Boscombe Down	bcc	bmobcmo	bcmo	bfmx
Thorney Island	bcmowbc	bcbfgmo	bfgmow	bmofgx
Lympne	bcmob	bbmo	bmow	bcmoxcm
Manston	bmob	bcmo	bmow	bmocmo
Shoeburyness	bmo	bc	c	bcm
Felixstowe	bcfgbmbmo	bmobbmo	bfw	bfwcfwcmcm
Gorleston	czobzo	bcbmow	bmow	bcmow
Mildenhall	cbcmob	bbcbmo	bmocm	cmofbf
Cranwell	cmo	cmo	ccirocmo	cmocf
Birmingham	cbcc	c	c	bcm
Upper Heyford	cmo	czocmo	cmobmcm	cmobmf
Ross-on-Wye	bffbcz	czo	cmbm	bfwFe
Hartland Point	bcc	c	cbcc	cbcc
Bristol	cfgcmo	cmocmcf	cfbf	bfwpfe
Portland Bill	bc	bcc	cbc	bcbc
Plymouth	bcmo	bccmo	bmow	bmof
The Lizard	bc	bcc	cbcw	bcw
Scilly (St. Mary's)	c	c	cbcc	cbcwc
Guernsey				
Pembroke	c	cddo	cirbc	cirmo
Holyhead (Valley)	cirorr	roroiRmo	cbc	bxfg
Chester (Sealand)	moc	cmoiro	cbcbmo	bbcmm
Manchester	cmoiro	cirom o	crododo	bbccmo
Spurn Head	omo	om	omroro	ororid
Catterick	cmo id czo	cmocm		rorom cmo
Tynemouth	cm	cm	oir	bc
St. Abbs Head	c	circrr	cttirbc	cbc
Leuchars	cid c	ccrrc	cbcb	bfge
Renfrew (Abbots I.)	croiro	c	bc	bmobcm
Eskdalemuir	cpror o	roro c	cidoc	c
Point of Ayre	cror o	rorac	cbbcc	bcc
Tiree	cbc	bc	bbcpr	bbcproc
Stornoway	crrmobcjp	bcjpbc	bcx	bc
Dalwhinnie	ciro	oirid		obbc
Aberdeen	czoirorr	crrroro	cbcb	bbcm
Wick	crorc	cprrocbcr	bcb	bcb
Sumburgh	crrroro	crorprobc	ccbpr	bcb
Blacksod Point	bc	bc	b	bc
Malin Head	pr	pr	bc	bc
Aldergrove	crrmoc	cbcb	bx	bx
Birr Castle	r	bc		f
Valentia Obsy.	pr	bc	bc	bc
Roches Point	r	r	bc	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 11th November.

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands; 5 S.W. England; 6 South Wales	Light variable wind; fair or fine today, extensive fog tonight; rather cold today, slight frost tonight.
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 variable wind becoming light Southwest; fair at first, cloud increasing with slight rain later; mild today, moderate night temperature.
13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland; 16 Orkneys and Shetlands	Wind South to Southwest increasing to strong, gale at exposed places veering West later; cloudy, rain spreading Eastwards; showers and bright intervals tomorrow; rather cold.
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	As 7-12.

GENERAL INFERENCE

A ridge of high pressure covers England and Wales; a very intense depression just Southwest of Iceland will move Northeast and an associated trough of low pressure will move East across Scotland. Weather will be fair in South England and the Midlands, though there will be extensive fog in East and South England tonight, rain will spread across Scotland and occasional rain will occur later in North England. South to Southwest gales will occur on the coasts of Northwest and North Scotland.

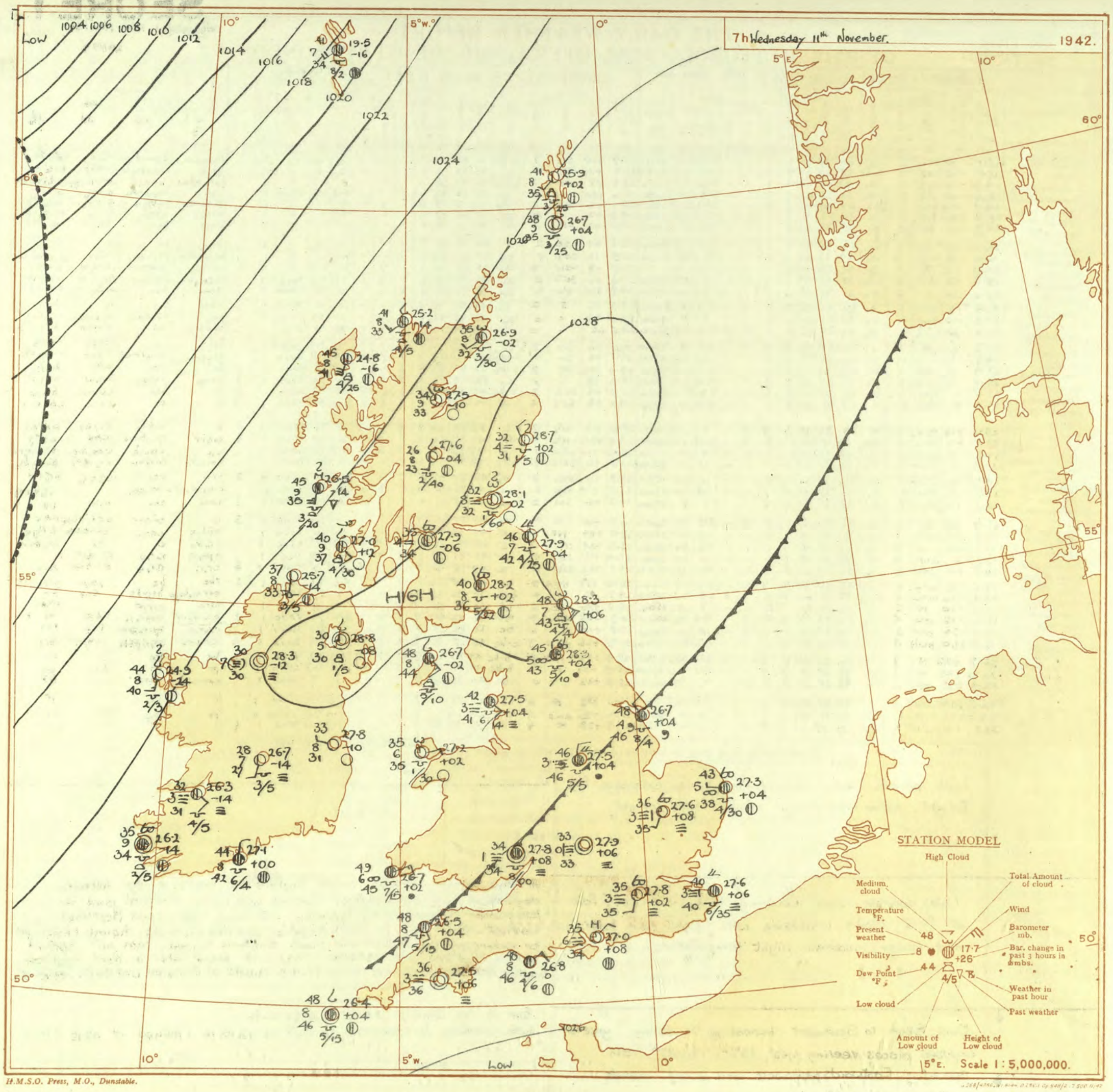
FURTHER OUTLOOK

Fair in the South; unsettled in the North.
Gale warning in operation in districts 13, 15, 16 issued at 0945 G.M.T.

Forecasts issued at 10·30

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

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



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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

Page 4.

BRITISH SECTION

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

Wednesday 11th November 1942

No. 2057A

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	*	*	*	*	*	37	*	*	*	*	*	*	*	*	*
	Croydon	290	27·5	+6	–	0	bf+	36	97	35	3	–	–	–	0	0	–
	S. Farnborough	226	27·6	+6	NW'N	1	bm/f	34	92	32	4	–	–	–	0	0	–
	Boscombe Down	417	27·0	+6	N	1	z0	41	97	40	6	–	1	–	0	4-6	–
	Thorney Island	10	26·3	+6	NNE	1	z0	40	85	37	6	5	–	–	4-6	9	1500
	Lympne	283	27·2	+2	–	0	z0	40	97	39	6	–	3	–	0	2-3	–
	Manston	154	27·0	+2	–	0	z0	39	97	38	6	–	–	–	0	0	–
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	27·2	+6	NW	2	bf	40	97	40	2	–	–	–	0	0	–
	Gorleston	5	26·7	+4	WNW	2	fs	42	85	38	6	–	–	–	0	0	–
	Mildenhall	15	27·2	+8	SE	2	m	38	97	37	4	–	7	–	0	9+	–
	Cranwell	203	26·6	+10	WSW	3	c/f	45	92	43	6	5	–	–	9	9	4000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	27·3	+6	S	1	z0	41	92	39	5	–	7	–	0	7-8	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	26·1	+6	SSW	2	c-bc	50	92	48	8	5	–	–	7-8	7-8	2500
	Bristol	209	27·4	+8	WSW	1	bf-	39	97	39	3	–	–	–	0	0	–
	Portland Bill	32	26·1	+10	E	2	bc	48	92	46	8	5	–	–	4-6	4-6	4000
	Plymouth	82	27·0	+10	SE	1	z0	41	97	41	5	–	–	–	0	9	–
	The Lizard	240	26·3	+6	N	3	bc	47	85	44	8	8	–	–	4-6	4-6	2000
	Scilly (St. Mary's)	163	26·2	+6	–	0	c	51	85	46	8	5	–	–	9+	9+	1500
	Guernsey	175															
6	Pembroke	142	26·3	+4	SE	1	c-bc/d	51	97	51	8	8	–	–	7-8	7-8	1500
7	Holyhead (Valley)	32	27·1	+4	N'E	1	b	42	92	40	8	–	–	–	0	0	–
	Chester (Sealand)	16	26·5	+6	NW	1	z0	44	92	42	6	5	–	–	Tr	Tr	3000
8	Manchester	235	26·6	+14	W'N	3	z0	45	97	44	6	5	–	–	4-6	4-6	2500
10	Spurn Head	29	26·6	+14	SW	3	f0f0	47	92	46	5	–	2	–	10	10	2500
	Catterick	175	27·3	+28	N	3	ff	46	97	45	3	5	2	–	4-6	10	600
	Tynemouth	108	27·3	+16	NW	4	c/f	48	92	46	7	6	–	–	10	10	1300
11	St. Abbs Head	280	27·5	+18	N	4	c-bc	46	85	42	7	5	–	–	7-8	7-8	2500
	Leuchars	36	29·2	+14	–	0	b-bc	36	92	34	8	–	4	8	0	2-3	–
12	Renfrew (Abbots I.)	19	28·4	+10	WSW	1	bc	37	92	34	7	5	–	–	4-6	4-6	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	26·9	+8	E'N	4	bc	47	85	43	8	5	5	5	4-6	4-6	3000
13A	Tiree	44	28·1	+2	–	0	b-bc	40	85	36	8	8	–	–	2-3	2-3	3000
13B	Stornoway	15	27·6	+4	–	0	z0	37	97	37	6	5	–	–	Tr	Tr	3000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	28·4	+16	WNW	3	b	36	85	33	8	–	–	–	0	0	–
	Wick	114	27·1	+6	–	0	b	34	85	31	9	–	–	–	0	0	–
16	Sumburgh	19	25·8	+14	WSW	4	bc	46	65	36	9	2	–	–	4-6	4-6	2000
17	Blacksod Point	18	28·5	-6	–	0	b	42	97	41	8	1	–	–	Tr	Tr	4000
18	Malin Head	84	28·0	+6	SSW	1	b-bc	39	85	35	8	4	–	–	2-3	2-3	2500
	Aldergrove	268	28·9	+2	–	0	b	29	92	29	8	–	–	–	0	0	–
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	18·3	-6	E	2	b	39	92	37	9	5	–	–	Tr	Tr	2500
	Roches Point	22	28·1	+6	N	3	bc	44	92	42	8	5	–	–	4-6	4-6	1500

OBSERVATIONS at 7 hr. 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)	28·1	+6	–	0	oF	37	97	37	0	–	–	–	10	10	<50	1	*
Croydon	27·8	+2	S'E	2	bf	35	97	35	3	–	7	–	0	1	–	1	*
S. Farnborough	28·2	+6	–	0	oF	30	97	30	0	–	–	–	6	10	<50	1	*
Boscombe Down	27·7	+2	N	1	fg	37	97	36	6	–	7	–	0	4-6	–	0	*
Thorney Island	27·0	+8	NNE	1	fg	35	97	35	6	–	8	–	0	Tr	–	0	*
Lympne	27·6	+2	N	1	m	41	97	41	4	5	3	–	9	9+	3500	1	§1
Manston	27·6	+6	–	0	cf-	40	97	40	3	5	2	–	9	10	3500	1	*
Shoeburyness	27·4	+2	S	2	b-bcf+	37	92	35	3	–	3	–	0	2-3	–	1	*
Felixstowe	27·6	+4	NW'N	1	z0	40	92	38	5	–	7	–	0	4-6	–	1	1
Gorleston	27·3	+4	W	1	z0	43	85	38	5	5	7	–	4-6	7-8	3000	0	2
Mildenhall	27·6	+8	S	1	bf-	36	97	35	3	–	7	–	0	1	–	1	*
Cranwell	27·3	+6	WNW	2	cf+	45	97	45	3	5	–	–	10	10	4000	1	*
Birmingham	27·7	+2	NNW	2	m	44	85	40	4	5	–	–	7-8	7-8	4000	1	*
Upper Heyford	27·9	+6	–	0	bF+	33	97	33	0	–	–	–	0	0	–	1	*
Ross-on-Wye	27·8	+8	–	0	oF	34	97	34	1	5	–	–	10	10	<150	1	*
Hartland Point	26·5	+4	SE	2	c-bc	48	97	47	8	5	–	–	7-8	7-8	1500	7	3
Bristol	28·3	+6	–	0	F+	33	97	33	1	–	–	–	10	10	<150	1	*
Portland Bill	26·5	0	NE	3	bc	48	92	46	8	5	–	–	4-6	4-6	4000	1	3
Plymouth	27·5	+6	–	0	bf	36	97	36	3	–	–	–	0	0	–	1	1
The Lizard	26·6	0	NW	3	b-bc	46	85	34	8	4	–	–	2-3	2-3	2500	1	3
Scilly (St. Mary's)	26·4	+4	–	0	c	48	92	46	8	5	4	–	7-8	9+	1500	1	2
Guernsey																	
Pembroke	26·7	+2	E'N	3	z0	49	85	45	6	5	–	–	9+	9+	1500	1	3
Holyhead (Valley)	27·2	+2	ENE	1	b	35	97	35	6	5	3	–	Tr	Tr	3000	1	1
Chester (Sealand)	27·4	+2	ESE	1	bc	38	92	36	4	5	3	–	4-6	4-6	3500	1	*
Manchester	27·5	+2	SW'S	1	m	42	97	41	4	5	–	–	10	10	1500	1	*
Spurn Head	26·7	+4	NW'W	2	id0	48	92	46	4	5	–	–	10	10	1500	1	1
Catterick	28·3	+4	NNW	1	z0	45	97	43	5	5	7	–	7-8	9+	1000	1	*
Tynemouth	28·3	+6	E	5	bc	48	85	43	7	8	3	–	4-6	4-6	1500	1	3
St. Abbs Head	27·9	+4	NE	2	bc	46	85	42	7	5	2	–	4-6	4-6	2500	0	3
Leuchars	28·1	-2	–	0	fg	32	97	32	8	5	3	6	Tr	2-3	6000	1	*
Renfrew (Abbots I.)	27·9	-6	–	0	m	35	97	34	4	–	7	–	0	4-6	–	1	*
Eskdalemuir	28·2	+2	NW	1	c	40	85	36	6	5	7	–	7-8	9	2200	1	*
Point of Ayre	26·7	-2	SE'E	3	c	48	85	44	8	8	4	–	7-8	9+	1000	0	4
Tiree	25·5	-14	S'E	5	c-bc	45	65	35	9	7	8	6	2-3	7-8	2000	1	
Stornoway	24·8	-16	S	6	bc	45	85	41	8	2	–	–	4-6	4-6	2500	1	
Dalwhinnie	27·6	-4	S	2	b-bc	26	85	23	8	5	4	–	1	2-3	4000	3	*
Aberdeen †	28·7	+2	NW	2	m	32	92	31	4	5	–	6	Tr	4-6	2500	3	2
Wick	26·9	-2	SW	1	bc	35	85	32	8	5	3	–	2-3	4-6	3000	1	*
Sumburgh	26·7	+4	–	0	b-bc	38	92	35	9	5	–	1	2-3	2-3	2500	1	2
Blacksod Point	24·4	-24	S'E	3	b-bc	44	85	40	8	5	4	6	1	2-3	800	1	3
Malin Head	25·7	-14	S	2	b-bc	37	85	33	8	4	–	–	2-3	2-3	2500	1	3
Aldergrove	28·8	-8	–	0	b	30	97	30	5	2	4	–	Tr	Tr	2500	3	*
Birr Castle	26·7	-14	S	2	b-bc	28	97	27	7	5	–	–	2-3	2-3	2500	1	*
Valentia Obsy.	26·2	-14	–	0	c	35	97	34	9	7	7	–	1	9	2500	1	2
Roches Point	27·1	0	N	1	c	44	92	42	8	5	–	–	9	9	1500	1	4

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 10th Hrs. (38)
London (Kew)	51	35	25	–	Tr	5·7
Croydon	57	33	28	–	–	6·9
S. Farnborough	54	30	24	–	–	6·3
Boscombe Down	53	35	28	Tr	Tr	4·1
Thorney Island	55	35	29	–	–	*
Lympne	52	37	26	–	Tr	8·1
Manston	(53)	37	29	–	Tr	*
Shoeburyness	54	34	25	–	–	7·0
Felixstowe	55	35	26	–	Tr	6·4
Gorleston	54	40	35	–	–	6·5
Mildenhall	55	35	31	–	–	3·0
Cranwell	51	44	41	–	0·3	0·0
Birmingham	52	43	33	–	–	1·4
Upper Heyford	52	33	29	–	–	*
Ross-on-Wye	53	33	29	–	0·1	1·5
Hartland Point	52	48	44	–	–	0·3
Bristol	52	32	30	–	Tr	0·0
Portland Bill	53	45	*	–	–	*
Plymouth	58	35	28	–	–	4·5
The Lizard	56	44	*	–	–	5·7
Scilly (St. Mary's)	53	46	*	Tr	–	0·0
Guernsey						
Pembroke	54	47	*	Tr	8	0·0
Holyhead (Valley)	53	33	26	14	–	*
Chester (Sealand)	54	36	28	Tr	–	0·0
Manchester	50	40	31	0·1	0·5	*
Spurn Head	50	46	*	–	1	0·1
Catterick	51	44	41	Tr	1	*
Tynemouth	52	47	42	–	4	*
St. Abbs Head	52	44	*	2	1	*
Leuchars	51	31	22	3	0·1	0·0
Renfrew (Abbots I.)	52	32	25	0·4	–	0·1
Eskdalemuir	49	38	34	1	Tr	0·0
Point of Ayre	54	46	*	2	–	0·1
Tiree	49	38	*	0·2	0·5	2·6
Stornoway	48	34	24	0·3	–	1·5
Dalwhinnie	46	21	13	4	–	0·0
Aberdeen †	50	32	26	6	–	0·0
Wick	50	33	26	2	–	*
Sumburgh	51	37	35	3	Tr	0·0
Blacksod Point	50	38	*	0·1	–	*
Malin Head	54	35		0·1	–	0·9
Aldergrove	49	28	20	2	–	0·6
Birr Castle	49	27	25	4	–	0·0
Valentia Obsy.	50	34	29	0·4	Tr	0·0
Roches Point	53	43	*	6	–	*

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	52	02866	27368	5-	01753	25184	20	01753	25413	20	01651	00013
115	52	02835	28468	14	02844	24325	57	02844	24385	74	02854	20325
203	87	02845	28426							50	01954	16314
206	62	22856	30168	50	01863	30123	00	00990	00000	03	01990	28103
210	62	62644	29468	07	01990	28264	00	00990	24100	00	02990	15205
220	20	61954	31314							51	02734	21228
230	27	02954	30466	10	01961	28411	50	01961	00001	57	01962	00003
245	52	62645	23268	5-	22668	23948	50	01961	28101	53	02961	23105
260	53	02844	18328	5-	62548	01158	50	05662	22112	53	05563	06114
278	62	52738	29458	54	01941	63552	50	01964	28214	5-	17665	16125
279	5-	51645	18458	57	45244	26256	5-	05658	02328	53	02865	05225
285				5-	51528	24458				23	05635	08426
288	57	05555	17328	52	08456	16328	52	54424	31368	83	05665	01356
575	57	02844	32268	50	01853	32213	00	00790	00010	00	09790	00040
301	53	22654	18467	52	62548	20268	00	00790	00060	5-	45346	10146
321	5-	08468	20228				5-	52468	20168	32	47247	29328
299	5-	08557	22227	8-	05558	20388	5-	62448	22268	8-	51745	32325
292	52	08466	17128	52	08466	17128	5-	05638	28268	52	05657	00028
310	--	02628	20428	--	08428	20428				--	46109	32443
614	53	05553	18227	57	08466	18167	52	45345	00048	52	57355	32168

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
333	57	22755	16458	5-	64528	20168	50	01762	02162	53	01863	00003
334	--	03537	20128									
340	7-	05668	17228	57	05555	16227	5-	08446	28126	5-	47365	30245
136	5-	05677	18227	53	05666	00027	51	05573	18228	07	08490	20167
336	13	02754	20328	57	02754	20328				--	46309	16249
350	13	05664	18325	50	47353	15143	08	45390	16144	00	47290	20140
368	5-	05666	12347	57	02664	00027	00	05690	00010	00	45390	00040
379	8-	02758	16228	5-	05667	14127	50	05651	00011	00	05690	24100
390	10	05551	16201	00	47390	00000	00	45390	02632	00	43290	00040
382	13	01763	16125	53	05663	12125	51	08463	00025	--	46009	00009
438	00	00790	12100	50	01753	06213	50	01653	04213	50	01653	02213
430	50	02764	12225	03	05590	04113	50	05663	32213	03	05690	32101
409	74	02875	18327	57	02754	15127	57	01661	00002	00	04790	00000

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 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 *	Fbcmow	bz0mfw	ofexfe	
Croydon	bz0b	bcm0bm0	bfwx	
Greenwich	bfm0	bbm	bmffefx	Kew 24 hours ended 7h.
Camden Square	c	c		Max. 1·4 Time 8h 10th
*Kensington	bc	bc	*	
Hampstead	bcm	bcm	ofbc	Min. 0·1 Time 7–13h 10th

Stations	Temperature Day Max °F	Temperature Night Min °F	Temperature Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	51	35	25	–	Tr	5·7	*	*
Croydon	57	33	28	–	–	6·9	*	*
Greenwich	54	31	30	–	Tr	7·6	72	98
Westminster	54	39	31	–	–		67	98
Regents Park	54	33	29	–	–		63	100
Camden Square	52	35	28	–	–	*	*	98
Kensington	54	34	25	–	Tr		92	98
Hampstead	52	38	27	–	–		*	87

SECRET

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BRITISH SECTION

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

Thursday 12th November 1942

No. 29375

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)	27·0	-14	-	0	F	40	97	39	0	-	-	-	10	10	<150
	Croydon	27·4	-10	-	0	F-	39	97	39	1	-	-	-	10	10	<150
	S. Farnborough	27·5	-10	-	0	bf-	39	97	39	2	-	-	-	0	0	-
	Boscombe Down	26·8	-10	E'N	1	z0	49	75	42	6	-	-	-	0	0	-
	Thorney Island	26·3	-14	E'N	2	z0	52	75	44	6	1	-	-	Tr	Tr	4000
	Lympne	26·5	-18	N	1	z0	48	85	44	5	1	-	-	Tr	Tr	900
	Manston	26·6	-22	E'S	2	z0	49	85	43	6	5	-	1	4-6	9	1800
2	Shoeburyness	26·6	-12	NNE	2	b	51	75	45	5	-	-	1	0	Tr	-
	Felixstowe	28·2	-4	E'N	1	z0	51	75	45	5	-	7	1	0	Tr	-
	Gorleston	26·7	-8	-	0	z0	51	75	43	5	5	-	-	9	9	1500
	Mildenhall	26·7	-12	-	0	z0	55	65	43	5	-	3	1	0	2-3	-
	Cranwell	26·8	-12	-	0	m/f	49	92	46	4	5	-	-	10	10	<150
3	Birmingham	26·9	-6	-	0	z0	48	85	44	5	5	-	-	9+	9+	2500
	Upper Heyford	27·0	-10	-	0	F	43	97	42	1	-	-	-	10	10	<150
4	Ross-on-Wye	26·5	-14	NW	2	m/f	46	92	44	4	5	-	-	1	1	3000
5	Hartland Point	25·5	-12	SE	3	bc	53	75	45	7	2	4	5	1	4-6	2500
	Bristol	27·2	-14	NE	1	bf-	47	97	45	3	-	-	-	0	0	-
	Portland Bill	25·4	-18	NE	3	bc	50	85	46	8	2	-	-	4-6	4-6	4000
	Plymouth	26·3	-12	E'S	1	b	52	65	41	7	-	-	1	0	1	-
	The Lizard	25·4	-12	ESE	3	bc	57	75	49	8	2	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	25·6	-12	SE'E	2	bc	58	75	49	8	8	6	-	4-6	4-6	1500
	Guernsey															
6	Pembroke	25·4	-2	SW'W	3	c-bc	53	92	51	8	8	2	-	7-8	7-8	2000
7	Holyhead (Valley)	25·1	-22	S	2	c	51	85	46	7	5	7	-	1	9+	1500
	Chester (Sealand)	25·6	-20	SSE	2	c-bc	51	75	45	6	5	3	-	4-6	7-8	4000
8	Manchester	26·8	-14	-	0	m/f	50	85	46	4	5	3	-	4-6	7-8	3000
10	Spurn Head	27·2	-10	NE'N	2	c	50	85	46	7	5	7	-	4-6	9	3700
	Catterick	27·5	-10	SSW	1	c	47	75	41	8	5	-	-	10	10	2200
	Tynemouth	27·3	-8	SE	3	bc	49	85	45	8	2	-	-	4-6	4-6	2400
11	St. Abbs Head	25·7	-12	SE	3	bc	48	85	44	7	1	4	-	2-3	4-6	3000
	Leuchars	25·2	-24	SE	2	z0	49	75	43	6	2	6	1	4-6	7-8	2500
12	Renfrew (Abbots I.)	24·3	-30	SSE	1	c	45	85	43	6	5	7	-	7-8	9+	2000
	Eskdalemuir	25·3	-20	S'E	3	c-bc	45	85	40	8	8	-	-	7-8	7-8	2200
	Point of Ayre	24·7	-16	S'W	4	bc	52	75	43	8	2	-	6	1	4-6	2000
13A	Tiree	20·7	-32	S	5	c	47	75	40	8	8	7	-	4-6	9+	2500
13B	Stornoway	19·0	-30	S	7	c	46	92	43	8	5	2	-	4-6	10	2000
15	Dalwhinnie	23·3	-26	S	3	c	40	85	35	8	5	7	-	4-6	9+	1500
	Aberdeen	25·3	-22	S'E	3	z0	47	65	36	6	5	3	-	2-3	9+	2500
	Wick	23·3	-26	ENE	5•	c	45	65	35	9	8	3	-	1	9+	3000
16	Sumburgh	24·1	-18	S	4	c	47	65	35	9	2	-	8	4-6	9+	2500
17	Blacksod Point	19·4	-34	SSW	5	c	50	85	46	8	6	-	-	9+	9+	2500
18	Malin Head	20·7	-34	S'E	4	c	45	75	37	8	4	7	-	7-8	9+	2500
	Aldergrove	23·8	-30	S'W	3	c	48	65	36	7	-	7	8	0	9	-
19	Birr Castle	22·6	-30	SSE	2	c-bc	48	75	41	8	5	3	-	4-6	7-8	2500
20	Valentia Obsy.	22·5	-26	SSW	4	c	49	75	42	9	5	-	-	10	10	4000
	Roches Point	23·0	-22	S	2	c	53	92	51	8	5	-	-	9	9	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)	25·5	-6	-	0	F	37	97	36	0	-	-	-	10	10	<150	1	*
Croydon	26·3	-2	-	0	bF	31	97	31	1	-	-	-	0	0	-	1	*
S. Farnborough	25·6	-6	-	0	F	34	92	32	0	-	-	-	10	10	<150	1	*
Boscombe Down	25·1	-4	E'N	3	z0	42	92	39	6	-	-	-	0	0	-	0	*
Thorney Island	25·0	-4	ENE	1	z0	44	92	42	6	-	-	8	0	2-3	-	1	*
Lympne	25·9	-2	NE	1	z0	42	97	41	5	-	-	-	0	0	-	1	*
Manston	25·7	-4	ESE	2	z0	45	92	43	5	5	-	-	4-6	4-6	2000	1	*
Shoeburyness	25·8	-2	ESE	2	c	48	92	46	5	5	-	-	9+	9+	2500	1	*
Felixstowe	26·0	-2	SSE	2	z0	48	85	45	5	-	7	-	0	4-6	-	0	,
Gorleston	25·8	-2	-	0	z0	48	85	44	5	-	-	-	0	0	-	0	,
Mildenhall	25·4	-4	E	2	bf	43	92	41	3	-	-	-	0	0	-	1	*
Cranwell	25·3	-2	-	0	F+	45	97	45	0	-	-	-	10	10	<150	1	*
Birmingham	25·2	-6	SSE	2	F+	44	97	44	1	-	-	-	10	10	<150	1	*
Upper Heyford	25·2	-10	E	1	F	38	97	38	0	-	-	-	10	10	<150	1	*
Ross-on-Wye	24·5	-10	-	0	bbcf+	43	92	41	2	-	-	2	0	2-3	-	1	*
Hartland Point	26·5	-8	SE	3	b-bc	47	85	43	7	4	-	4	2-3	2-3	2500	1	3
Bristol	25·4	-6	-	0	bf+	40	97	39	3	-	-	-	0	0	-	1	*
Portland Bill	23·8	-14	NE	3	bc	49	85	45	7	5	-	-	4-6	4-6	4000	1	4
Plymouth	24·5	-8	ENE	1	m	45	92	42	4	-	-	1	0	1	-	1	1
The Lizard	23·8	-14	E'S	2	bc	48	85	44	8	8	-	-	4-6	4-6	2000	1	3
Scilly (St. Mary's)	23·9	-6	S	2	bc	48	85	45	8	8	4	2	4-6	4-6	1500	1	2
Guernsey																	
Pembroke	23·3	-10	S'W	4	c-bc	52	92	50	8	8	4	-	4-6	7-8	2500	1	3
Holyhead (Valley)	22·3	-10	S	5	z0	51	85	45	6	5	7	-	7-8	10	2700	1	3
Chester (Sealand)	23·5	+6	SE'S	2	z0	45	85	41	5	-	-	8	0	7-8	-	1	*
Manchester	24·1	-10	SE	3	m	46	92	44	4	-	3	6	0	4-6	-	1	*
Spurn Head	25·3	-6	E'N	3	o	49	85	46	7	5	-	-	10	10	1500	0	2
Catterick	24·5	-16	S'W	1	m	46	92	43	4	5	-	-	7-8	10	1200	1	*
Tynemouth	24·8	-8	SW	2	z0	45	85	42	5	2	-	-	4-6	4-6	2500	1	3
St. Abbs Head	21·9	-12	SSE	4	b-bc	49	85	43	6	5	-	-	2-3	2-3	2500	0	3
Leuchars	21·0	-22	S'E	3	z0	45	97	44	6	5	1	-	7-8	9+	2500	1	*
Renfrew (Abbots I.)	20·3	-20	SE	1	m	45	85	39	4	5	7	-	7-8	9	2500	1	*
Eskdalemuir	22·0	-14	SW'S	2	bc	42	92	40	6	5	-	-	9	9	1200	1	*
Point of Ayre	21·4	-10	S'W	4	r0	50	92	47	7	8	7	•	9	10	1500	0	3
Tiree	15·8	-22	S	6	c	48	75	41	8	5	7	-	7-8	10	2000	1	5
Stornoway	13·2	-26	S	7	c	48	85	44	7	7	2	-	9	10	2000	1	
Dalwhinnie	18·5	-12	S	3	o	41	85	36	7	5	2	-	7-8	10	2500	0	*
Aberdeen	21·1	-20	S'E	4	c	48	85	42	6	5	7	-	7-8	10	2000	1	3
Wick	18·1	-16	S	6	c	46	85	40	8	5	2	-	7-8	10	2500	1	*
Sumburgh	20·7	-20	S	6	c	47	65	36	8	5	2	-	4-6	10	2500	1	3
Blacksod Point	13·8	-30	S	7	c	50	92	46	8	6	-	-	10	10	1500	1	5
Malin Head	15·4	-32	S'E	4	c	46	85	42	8	4	7	-	4-6	10	2500	1	3
Aldergrove	19·4	-12	SSE	4	c	47	85	42	8	5	2	-	7-8	10	2500	1	*
Birr Castle	18·5	-14	S	2	c-bc	47	75	40	8	5	-	-	7-8	7-8	2500	1	*
Valentia Obsy.	18·8	-18	S'W	4	c	50	75	42	8	5	7	-	4-6	10	2500	1	3
Roches Point	20·5	-14	SW	2	c	50	85	46	8	5	7	•	4-6	9	1500	1	4

PAST 24 HOURS.

Stations	Weather 7h.—13h. 11th (39)	Weather 13h.—18h. 11th (40)	Weather 18h. 11th to 1h. 12th (41)	Weather 1h.–7h. 12th (42)
London (Kew)	oFeF	oFeFe	oFe	oFm
Croydon	oF	oFbF	bFoFf	oFeomof
S. Farnborough	oFebf	bfoFe	oFexoFe	oFe
Boscombe Down	bcfoxbm0	bz0bm0	bm0bm	bFeo
Thorney Island	bxfoum0	bbcm0w	bcb,cm0w	cbcem0w
Lympne	bcfbm0	bm0w	bm0wcm0	cm0
Manston	cfbcm	bcem0	bcm0wom	bcm0m0m
Shoeburyness	bfcmbcm0	bcm0	bcbm0	bm
Felixstowe	bm0bfbm0	bm0bcm0	bcm0wcm0	cm0bo0cm
Gorleston	cm0	cm0bm0	cmbcm	bcbc
Mildenhall	cfcmbcm0	bcm0bf	bFbmbF	bF0F
Cranwell	oFom	cmFF	oFebf	
Birmingham	ccz	bczf	pFe	Fe
Upper Heyford	bFF	FoFe	oFe	oFe
Ross-on-Wye	Fecf	bmbcm	bFF	FFe
Hartland Point	cbc	bc	bc	bccirr
Bristol	bFbf	bfbm,cm	cFbFe	bF0Fef
Portland Bill	cbc	cbc	bcc	bc
Plymouth	bmbm0	bcbm0	bm0bccm	cr0r0m0m
The Lizard	bc	bc	cbccw	cprc
Scilly (St. Mary's)	cbc	bcebc	bcc	
Guernsey				
Pembroke	cdd0	prc	bccq	crrq
Holyhead (Valley)	bxfoc	cm0	cr0r0	cr0r0m0
Chester (Sealand)	bcFfb	bccm0	bccm0	crrm0
Manchester	cff	cbcm	cirm0	cirm0
Spurn Head	c	o	Fcm	cF
Catterick	cm0bcc	ccm0	cm0crcir	oFF0F
Tynemouth	bc	bcm0	bccm0	bcmoir0
St. Abbs Head	cbc	cbcb	cm0f	cm0rc
Leuchars	gfxcm	cm0c	cr0r0c	crrcm0c
Renfrew (Abbots I.)	cmcm0	cz0cm	cir0m0	bcm0
Eskdalemuir	cbcc	cz0cm0	cir0c	cr0ir0
Point of Ayre	cbc	bcc	cir0rr	rrirc
Tiree	c	c	cr0r0rr	rrpr0bc
Stornoway	bcc	c	cr0r0	cr0r0c
Dalwhinnie	bcc	co	*	oirbc
Aberdeen	cxfcz0	cz0m0	cm0cr	cirRR0
Wick	bcc	c	c	cr0r0
Sumburgh	bcc	cpr0c	cir0c	cr0
Blacksod Point	c	c	pr	bc
Malin Head	c	c	r	pr
Aldergrove	bxFxm0c	c	cigcr0r0cm	obob
Birr Castle	c	c	*	bc
Valentia Obsy.	c	c	r	pr
Roches Point	c	r	r	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 12th November 1942

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Light Southeast wind veering north; mainly cloudy; local rain later; local fog; rather cold.
4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England; 9 N. Midlands; 10 N.E. England	Light or moderate North wind backing West; occasional rain at first; fair later; local fog at night; rather cold; frost locally at night.
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 North west to West wind backing South and freshening tomorrow; bright intervals; local showers; rather cold; frost locally at night.
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

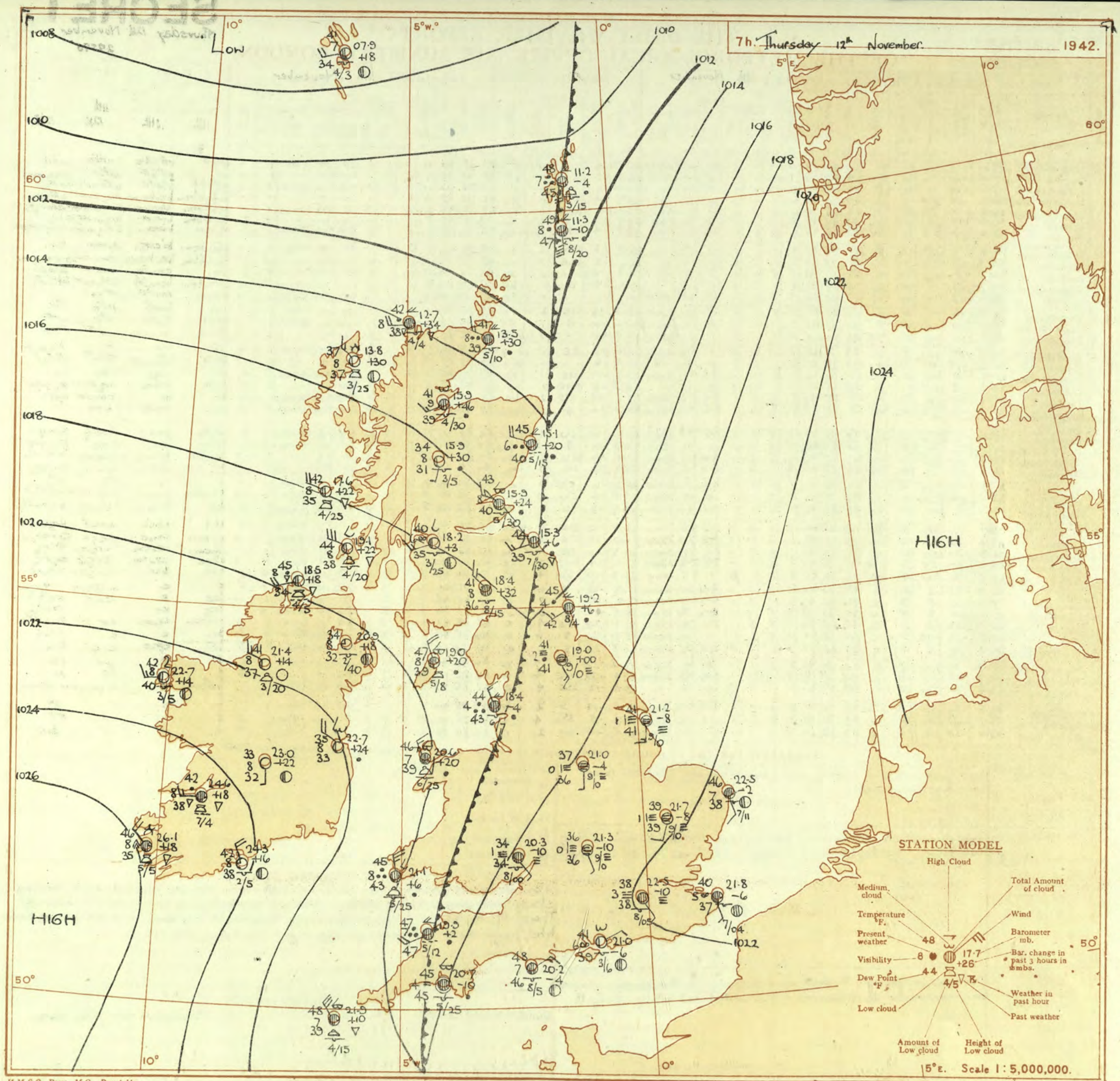
A trough of low pressure over Western and Northern districts of England is moving slowly East and a ridge of high pressure is developing over northern districts. There will be bright intervals and local showers in the North and West. In the East and South there will be much cloud with local rain and fog.

FURTHER OUTLOOK

Quiet cloudy weather in the South with local fog. Occasional rain in the North.

Forecasts issued at 1030

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



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

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

Explanation of Frontal Lines shown on Charts

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

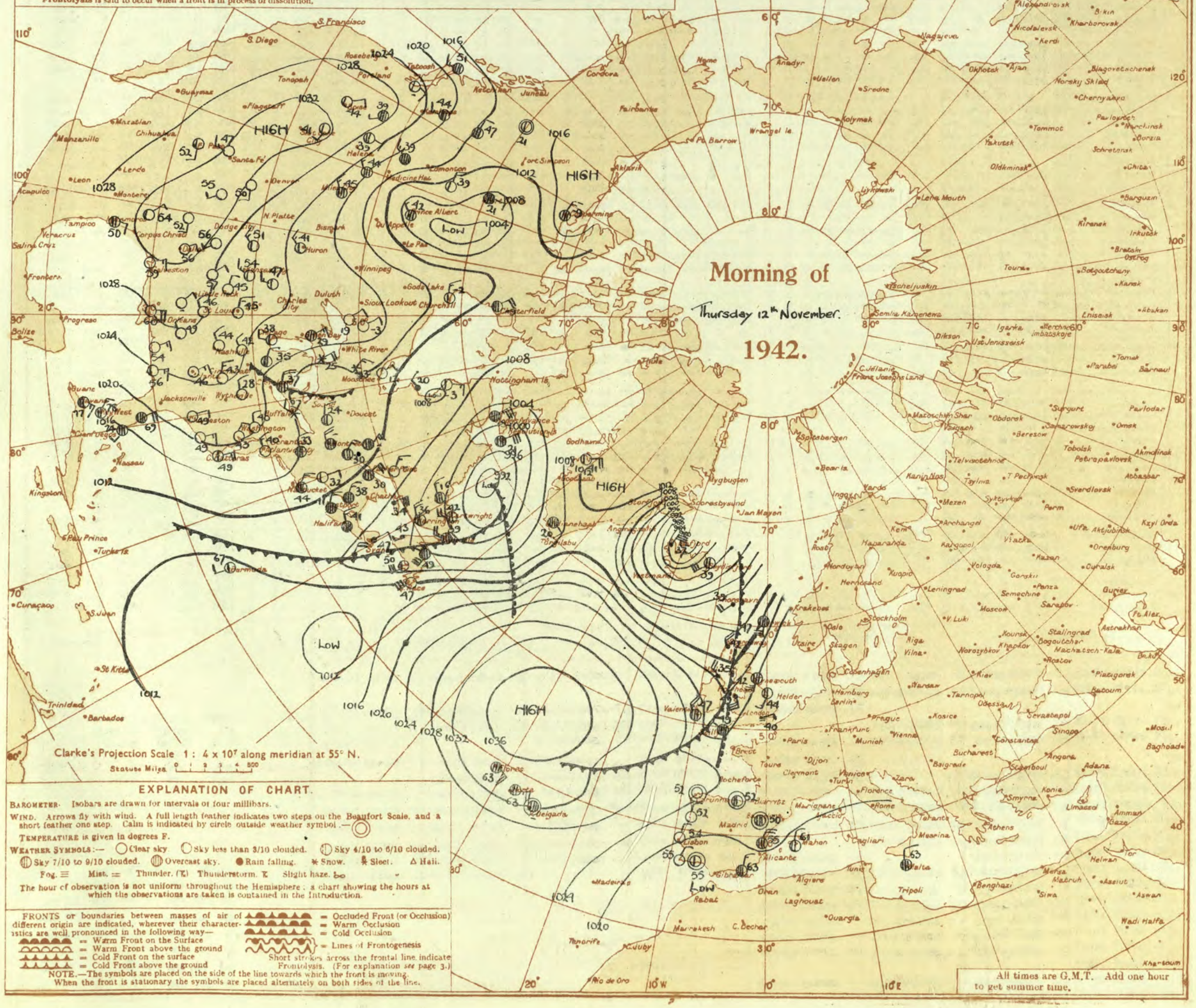
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



BRITISH SECTION

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

Thursday 12th November 1942

No. 29575

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)	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	*	*	*	*	*	39	*	*	*	*	*	*	*	*	*
	Croydon ...	290	24·4	−6	E	1	of	40	97	40	3	5	-	-	10	10	500
	S. Farnborough	226	23·8	−10	–	0	F	35	97	35	0	-	-	-	10	10	<150
	Boscombe Down	417	23·5	−6	E'N	3	m	37	97	37	4	-	-	-	0	0	-
	Thorney Island	10	22·8	−10	NNE	2	2_0	38	92	37	6	5	-	-	7-8	7-8	4800
	Lympne ..	283	23·5	−16	ESE	2	2_0	41	92	39	6	5	-	-	10	10	1000
	Manston ...	154	23·4	−14	SE	1	2_0	43	85	39	5	5	-	-	7-8	7-8	800
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	23·9	−10	SE	2	2_0	47	85	41	5	5	-	-	9	9	2400
	Gorleston ...	5	23·7	−16	S'E	3	2_0	43	85	44	5	5	-	-	4-6	4-6	1500
	Mildenhall ...	15	23·4	−12	S	1	bF-	34	97	34	0	–	-	-	0	0	-
	Cranwell ...	203	23·1	−10	S'E	1	bF-	38	97	38	2	-	-	-	0	0	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	23·4	−12	SE'S	1	oF	38	97	38	0	–	-	-	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	21·0	−16	SE	3	b-bc	44	85	38	7	4	-	-	2-3	2-3	2500
	Bristol ...	209	23·4	−12	–	0	bF	33	97	33	1	–	-	-	0	0	-
	Portland Bill ...	32	21·7	−18	NE	3	o	50	85	46	7	5	-	-	10	10	2500
	Plymouth ...	82	23·2	−8	E	1	m	41	97	41	4	–	7	-	0	7-8	-
	The Lizard ...	240	21·9	−10	S'E	1	c-bc	48	92	46	8	8	-	-	7-8	7-8	2000
	Scilly (St. Mary's)	163	21·7	−8	W'N	2	c	49	85	46	7	8	3	-	4-6	9+	1200
	Guernsey ...	175															
6	Pembroke ...	142	20·8	−10	SSW	5	c	52	85	48	8	8	2	-	7-8	10	2500
7	Holyhead (Valley)	32	18·3	−14	S'E	6	r_0r_0	49	92	46	6	-	2	-	10	10	3700
	Chester (Sealand)	16	21·0	−10	SE	3	bc	43	92	41	5	5	-	-	4-6	4-6	4000
8	Manchester ...	235	21·7	−6	SSE	4	2_0	43	97	42	6	5	-	-	10	10	1500
10	Spurn Head ...	29	23·4	−12	SSW	3	m	44	97	43	4	5	-	-	4-6	4-6	2500
	Catterick ...	175	21·3	−14	S	2	f	45	97	44	2	-	-	-	10	10	<150
	Tynemouth ...	108	20·8	−18	S	5	2_0	42	92	40	5	5	-	-	9+	9+	2500
11	St. Abbs Head	280	17·0	−22	S	3	ir_0	45	92	43	6	5	-	-	10	10	2500
	Leuchars ...	36	15·2	−30	S	4	c/r	46	97	46	6	5	7	-	9	10	2800
12	Renfrew (Abbotsl.)	19	14·0	−24	SW	4	2_0	51	85	46	5	5	2	-	7-8	10	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	16·7	−18	SW	4	r+	50	97	48	7	6	2	-	9-	10	1000
13A	Tiree	44	12·6	−4	W'N	5	r+	42	92	40	6	5	-	-	10	10	800
13B	Stornoway ...	15	09·5	−4	NW	4	r_0r_0	42	97	42	7	5	-	-	10	10	1200
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	15·5	−24	S'E	5	r_0r_0	47	92	45	6	5	2	-	9	10	3000
	Wick ...	114	11·9	−34	S	7	c	47	85	42	8	5	2	-	4-6	10	2000
16	Sumburgh ..	19	14·0	−34	S	6	c	47	85	44	8	5	2	-	7-8	10	2000
17	Blacksod Point	18	20·0	+22	NW	5	bc/pr	45	78	37	8	9	-	-	4-6	4-6	1500
18	Malin Head ...	84	14·7	+30	NW'W	5	r_0r_0	46	85	41	7	6	2	-	7-8	10	1500
	Aldergrove ...	268	16·9	+6	W	4	c/r	44	85	41	7	5	-	-	10	10	1800
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	23·8	+22	NW'N	5	b	47	65	32	8	2	-	-	1	1	2500
	Roches Point	22	20·9	+10	NNW	5	bc	47	85	43	8	5	-	-	4-6	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 12th 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)	21·7	−6	S'E	1	m	39	97	39	4	5	-	-	10	10	1500	1	*
	Croydon ...	22·5	−10	SE	1	of	38	97	38	3	5	-	-	10	10	500	1	*
	S. Farnborough	21·5	−10	–	0	F	38	97	38	1	-	-	-	10	10	<150	1	*
	Boscombe Down	21·6	−6	E	2	of+	34	97	34	1	–	-	-	10	10	<150	0	*
	Thorney Island	21·0	−6	ENE	2	2_0	41	92	39	6	5	3	-	2-3	2-3	4000	1	*
	Lympne ..	21·7	−8	–	0	2_0	39	92	37	6	5	-	-	7-8	10	1800	1	1
	Manston ...	21·8	−6	S'E	1	2_0	40	92	37	5	5	-	-	9+	9+	400	1	*
2	Shoeburyness...	22·0	−12	–	0	b-bcf+	35	97	34	2	–	3	-	0	2-3	-	1	*
	Felixstowe ...	22·0	−6	N'W	1	m	40	92	38	4	5	3	-	7-8	7-8	2400	1	1
	Gorleston ...	22·5	−2	SSE	2	c	46	75	38	7	5	-	-	9+	9+	1100	0	3
	Mildenhall ...	21·7	−8	SSW	2	F+	39	97	39	1	–	-	-	10	10	<150	1	*
	Cranwell ...	21·0	−6	S'E	3	F-	37	97	37	1	–	-	-	10	10	<150	1	*
3	Birmingham ...	21·0	−8	SSE	2	oF	36	97	36	1	–	-	-	10	10	<150	1	*
	Upper Heyford	21·3	−10	S'E	1	oF+	36	97	36	0	–	-	-	10	10	<150	1	*
4	Ross-on-Wye	20·3	−10	SE'S	1	oF	34	97	34	1	5	-	-	10	10	<150	1	*
5	Hartland Point	19·9	+2	SW	4	r+	47	97	47	7	6	2	-	7-8	10	1200	1	4
	Bristol ...	21·3	−16	WSW	1	cf-	35	97	35	3	5	-	-	9+	9+	5700	1	*
	Portland Bill ...	20·2	−4	NE	3	c	48	92	46	7	5	-	-	10	10	2500	1	3
	Plymouth ...	20·7	−10	–	0	m/r	45	97	45	4	5	7	-	7-8	10	2500	1	1
	The Lizard ...	19·8	−10	N	6	c/pr	47	97	47	7	8	2	-	7-8	9+	1300	1	4
	Scilly (St. Mary's)	21·9	+10	NW'N	6	c	48	75	39	7	8	7	-	4-6	9	1500	1	4
	Guernsey ...																	
6	Pembroke ...	21·1	+6	N	5	r+	45	92	43	8	8	4	-	7-8	10	2500	1	4
7	Holyhead (Valley)	20·6	+20	NNW	3	c/r	46	75	39	7	8	7	-	9	10	2500	1	3
	Chester (Sealand)	19·3	+2	SSE	1	r+	42	97	41	5	5	2	-	7-8	10	1500	1	*
8	Manchester ...	19·4	−2	SSE	3	r+	41	92	40	4	5	2	-	7-8	10	1600	1	*
10	Spurn Head ...	21·2	−8	S'W	3	F+	41	97	41	1	–	-	-	10	10	<150	1	2
	Catterick ...	19·4	0	SSE	3	rf	41	97	41	2	–	-	-	10	10	<150	1	*
	Tynemouth ...	19·2	+6	SW	3	ir_0	45	92	42	4	–	2	-	10	10	1500	1	3
11	St. Abbs Head	15·3	+6	WSW	3	c/pr	44	85	39	7	5	-	-	9+	10	3000	0	3
	Leuchars ...	15·9	+24	WNW	3	c	45	85	40	8	5	7	-	7-8	9	3000	1	*
12	Renfrew (Abbotsl.)	18·2	+34	WSW	3	2_0	40	85	35	6	5	4	-	2-3	4-6	2500	1	*
	Eskdalemuir ...	18·4	+32	NW	3	o	41	85	36	8	5	-	-	10	10	1500	1	*
	Point of Ayre...	19·0	+20	NNW	4	c	47	75	39	8	5	7	-	7-8	9+	800	1	4
13A	Tiree	17·6	+22	W'N	4	bc/pr	42	75	35	8	3	-	-	4-6	4-6	2500	1	4
13B	Stornoway ...	13·8	+30	NW	3	b-bc	37	97	37	8	3	6	-	2-3	2-3	2500	1	
15	Dalwhinnie ...	15·9	+30	SSW	1	b-bc	34	85	31	8	5	-	-	2-3	2-3	2500	1	*
	Aberdeen † ...	15·1	+20	WNW	4	r_0r_0	45	85	40	6	6	2	-	7-8	10	1500	1	3
	Wick ...	13·5	+30	WNW	3	r_0r_0	41	92	39	8	5	2	-	7-8	10	1000	1	*
16	Sumburgh ..	11·3	−10	S	7	ir_0	49	92	47	8	5	2	-	10	10	2000	4	1
17	Blacksod Point	22·7	+14	W	3	bc	42	92	40	8	5	-	6	2-3	4-6	2500	1	4
18	Malin Head ...	18·5	+18	WS	4	pr	45	65	34	8	9	-	-	4-6	4-6	2500	1	4
	Aldergrove ...	20·9	+8	–	0	b	34	92	32	8	5	-	-	1	1	4000	1	*
19	Birr Castle ...	23·0	+22	S	1	b	32	97	31	8	-	-	-	0	0	-	1	*
20	Valentia Obsy.	26·1	+18	SSW	4	pr	46	65	35	8	8	6	-	7-8	9	2500	1	5
	Roches Point	24·3	+16	NNW	4	b	42	85	38	8	5	-	-	1	1	2500	1	4

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)	Rainfall. Night 18h–7h mm. (37)	Sunshine 11th Hrs. (38)
1	London (Kew)	40	36	36	Tr	Tr	0·0
	Croydon ...	41	31	29	-	-	0·0
	S. Farnborough	44	30	26	-	-	2·1
	Boscombe Down	50	32	31	Tr	Tr	7·1
	Thorney Island	53	36	30	-	Tr	*
	Lympne ..	49	39	30	-	Tr	4·6
	Manston ...	49	40	35	-	-	
2	Shoeburyness...	51	34	25	-	-	5·0
	Felixstowe ...	54	38	30	-	-	4·4
	Gorleston ...	51	43	43	-	-	1·7
	Mildenhall ...	55	32	28	-	Tr	3·4
	Cranwell ...	49	35	28	Tr	0·1	0·0
3	Birmingham ...	50	33	33	-	0·2	0·1
	Upper Heyford	43	35	35	-	-	*
4	Ross-on-Wye	50	32	30	0·1	0·1	2·0
5	Hartland Point	55	41	40	-	5	7·6
	Bristol ...	51	33	25	-	Tr	3·7
	Portland Bill ...	50	47	*	-	-	*
	Plymouth ...	53	38	30	-	0·5	7·2
	The Lizard ...	57	46	*	-	1	6·8
	Scilly (St. Mary's)	58	47	*	-	0·2	5·7
	Guernsey ...						
6	Pembroke ...	55	42	*	Tr	1	0·5
7	Holyhead (Valley)	57	45	42	-	7	*
	Chester (Sealand)	53	42	39	Tr	3	2·2
8	Manchester ...	50	41	39	-	1	*
10	Spurn Head ...	51	40	*	Tr	-	
	Catterick ...	51	41	40	-	-	0·8
	Tynemouth ...	50	42	40	-	Tr	*
11	St. Abbs Head	49	41	*	-	0·2	
	Leuchars ...	49	43	37	-	1	4·8
12	Renfrew (Abbotsl.)	49	39	34	-	0·2	0·5
	Eskdalemuir ...	47	40	38	-	7	1·5
	Point of Ayre...	53	46	*	-	5	5·2
13A	Tiree	48	40	*	-	10	0·0
13B	Stornoway ...	48	36	37	-	6	
15	Dalwhinnie ...	41	34	29	-	8	0·0
	Aberdeen † ...	48	45	42	-	4	2·0
	Wick ...	47	41	40	-	2	*
16	Sumburgh ..	47	46	44	0·1	Tr	1·2
17	Blacksod Point	50	40	*	-	9	
18	Malin Head ...	46	42		-	2	0·7
	Aldergrove ...	48	34	26	-	1	4·5
19	Birr Castle ...	52	32	25	-	0·1	1·5
20	Valentia Obsy.	50	43	39	Tr	1	0·0
	Roches Point	54	46	*	0·1	1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 11th November: C_LC_M	wwVhN$_h$	DDFWN	18h. G.M.T.: C_LC_M	wwVhN$_h$	DDFWN	01h. G.M.T. 12th November: C_LC_M	wwVhN$_h$	DDFWN	07h. G.M.T.: C_LC_M	wwVhN$_h$	DDFWN
100	10 02854	48528	62 02745	48528	5- 02645	47625	62 22755	25568				
115	52 02845	16428	52 02845	12428	52 64735	12468	52 81844	24487				
203							80 01844	24564				
206	57 02763	20128	62 02855	14468	07 02856	14328						
210	55 02961	13328	52 02853	14328	52 02864	14428	07 22890	21367				
220							30 01754	24514				
230	52 02664	12128	51 02755	00028			9- 02855	26385				
243	75 02764	14327	5- 02767	15227	5- 61658	15468	52 02754	23267				
260	5- 02755	12226	5- 05668	16228	5- 05655	21655	55 01754	20314				
278	13 02852	16227	8- 02758	13218	02 61748	20458	83 02853	26468				
279	7- 02755	00025	53 05565	00028	5- 62668	50568						
285	23 02855	14327	5- 05527	10227			6- 63638	26468				
288	8- 02867	21227	5- 02865	15227	5- 08468	14328	57 05565	17328				
575	5- 02757	20127	5- 02848	18228	57 22744	28468	20 01853	26303				
301	03 08490	15245	57 08463	14325	52 61555	15467	52 64436	30368				
321	5- 05669	08127	5- 05558	11128	-- 44309	20349	-- 48209	16249				
399	5- 01755	32215	50 01763	00013	5- 05558	20328	5- 43358	20348				
292	5- 02867	16127	5- 05558	12128	5- 05528	14328	02 47390	14228				
810	-- 46109	08349										
614	48209	00049	52 03454	18146	-- 48109	00049	-- 48009	16149				

III	13h. G.M.T. 11th November: C_LC_M	wwVhN$_h$	DDFWN	18h. G.M.T.: C_LC_M	wwVhN$_h$	DDFWN	01h. G.M.T. 12th November: C_LC_M	wwVhN$_h$	DDFWN	07h. G.M.T.: C_LC_M	wwVhN$_h$	DDFWN
333	5- 02845	06227	57 02755	18328	02 61690	49468	62 61754	30368				
334												
340	5- 08477	10127	57 47363	16245	-- 46009	15449	5- 67328	14368				
136	5- 08464	20127	50 08464	12124	50 47264	16144	-- 44209	19249				
336	70 01754	14314	53 05655	14316			-- 67349	20369				
350	00 05590	18011	-- 46009	25439	-- 46009	13149	-- 46109	14249				
360	4 47390	08243	00 45390	08140	-- 46109	00049						
370	00 47290	06143	07 41490	12141	00 43190	12240	-- 48009	14149				
390	00 05590	00041	00 47290	00040	3- 44009	20149	00 45090	00040				
382	-- 44109	22149	-- 48009	22149	-- 46009	00049	-- 44109	15149				
438	84 02644	02215	80 05544	04324	50 05535	02215	54 01533	32214				
431	10 05561	06201	00 05590	32110	50 05666	08216	50 05666	06226				
409	54 01771	13241			5- 02665	12205	52 64534	29368				

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 12th 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 1·5 12-20h 11m Min. Time 0·1 1-7h 11m
Kew * ...	oFef	oFeFe	o*eofm	
Croydon ...	oF	oFbF	bFofmof	
Greenwich ...	FeFe	Fefbf	bffecf	
Camden Square	o	o	*	
*Kensington ...	ofe	ofe	*	
Hampstead ...	bem	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 % Today
Kew ...	40	36	36	Tr	Tr	0·0	*	*
Croydon ...	41	31	29	-	-	0·0	*	*
Greenwich ...	44	35	28	-	Tr	0·3	95	94
Westminster ...	42	36	33	-			99	100
Regents Park ...	41	34	31	-	-		100	100
Camden Square	41	36	29	-	-	*	*	98
Kensington ...	40	38	32	Tr	Tr		99	95
Hampstead ...	49	37	34	-	-		*	97

Page 1 **BRITISH SECTION**

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

SECRET

Friday 13th November 1942

No. 29576

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)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	20.6	-10	–	0	cf	41	92	39	3	5	3	–	9	9+	2500
	Croydon	21.4	-8	N'W	1	c-bof	44	85	40	3	–	5	·	0	7-8	–
	S. Farnborough	20.6	-10	–	0	m	42	92	40	4	5	7	–	4-6	9+	600
	Boscombe Down	20.6	-6	E'N	1	rf	40	97	40	3	5	–	–	10	10	220
	Thorney Island	19.8	-8	E'N	3	zo	50	85	45	6	5	3	–	2-3	9+	4000
	Lympne	20.7	-6	ESE	2	zo	45	75	38	6	1	–	–	2-3	2-3	2000
	Manston	20.7	-8	SSE	1	zo	46	75	38	5	5	–	–	7-8	7-8	2100
2	Shoeburyness	21.1	-10	NNW	1	b	44	85	40	5	–	–	–	0	0	–
	Felixstowe	21.4	-2	ENE	1	zo	47	75	38	6	5	3	–	4-6	7-8	4000
	Gorleston	22.3	0	SE	3	c	46	75	39	7	5	2	–	7-8	10	1500
	Mildenhall	21.1	-6	S	1	of-	38	97	38	2	5	–	–	10	10	220
	Cranwell	21.0	-2	SE	1	f-	39	97	39	3	–	–	–	10	10	<150
3	Birmingham	20.7	0	NNW	3	roro	42	97	42	4	6	–	–	10	10	800
	Upper Heyford	20.8	-6	NW'W	1	df	38	97	38	2	–	–	–	10	10	450
4	Ross-on-Wye	21.1	+4	NNE	1	rf	41	97	41	3	–	2	–	10	10	300
5	Hartland Point	22.1	0	N	5	c-bc	48	75	40	8	8	4	–	4-6	7-8	1500
	Bristol	21.7	+4	NNW	2	rf	40	97	40	3	6	2	–	10	10	450
	Portland Bill	19.0	-6	N	3	eq	48	92	46	7	5	–	–	10	10	2500
	Plymouth	22.0	+4	N'E	5	pr	47	85	41	8	8	7	–	4-6	7-8	3000
	The Lizard	22.3	+6	N	6	bc	50	65	41	8	2	6	–	4-6	4-6	2500
	Scilly (St. Mary's)	24.8	+8	NNW	5	c-bc	50	65	37	8	8	–	–	7-8	7-8	1500
	Guernsey															
6	Pembroke	24.2	+10	N'W	4	bcq	48	65	38	8	2	4	–	4-6	4-6	2500
7	Holyhead (Valley)	23.3	+10	NW'N	4	bc	48	65	37	8	2	6	–	4-6	4-6	3000
	Chester (Sealand)	21.8	+8	N'E	2	zo	47	85	43	6	5	2	–	2-3	10	2000
8	Manchester	21.9	+10	NNW	3	roro	44	92	42	4	5	2	–	7-8	10	1200
10	Spurn Head	21.6	+2	S	3	zo	41	97	40	5	5	–	–	10	10	1500
	Catterick	22.4	+10	NW	1	iro	44	85	40	7	5	2	–	4-6	10	500
	Tynemouth	22.5	+14	NW	3	c/r	45	75	38	6	5	1	–	7-8	10	1600
11	St. Abbs Head	21.1	+22	NW	4	bc	45	75	38	7	5	4	–	4-6	4-6	3000
	Leuchars	22.5	+22	WNW	3	bc	46	75	39	8	–	4	9	0	4-6	–
12	Renfrew (Abbots I.)	23.3	+22	W'N	1	b-bc	46	75	37	9	2	–	–	2-3	2-3	3500
	Eskdalemuir	22.5	+22	NNW	3	bc	45	65	32	8	7	7	6	Tr	4-6	3500
	Point of Ayre	23.5	+16	N'E	4	b-bc	47	75	39	8	3	–	3	2-3	2-3	2000
13A	Tiree	24.3	+28	NW'N	4	b-bcjp	45	55	32	9	3	–	3	2-3	2-3	3200
13B	Stornoway	22.1	+30	WSW	4	c-bc	46	75	39	8	3	3	3	1	7-8	2000
15	Dalwhinnie	22.8	+22	SW	2	b	41	75	33	8	1	–	–	1	1	4000
	Aberdeen	22.1	+26	NW'N	3	b-bc	45	65	34	8	5	4	1	Tr	2-3	2200
	Wick	21.1	+32	WNW	3	bc	45	65	36	9	8	–	5	2-3	4-6	2000
16	Sumburgh	18.6	+42	W'S	4	c	47	75	38	9	2	7	2	2-3	9+	2000
17	Blacksod Point	27.7	+22	NNW	4	bc	46	85	42	8	8	–	–	4-6	4-6	2500
18	Malin Head	24.3	+22	N'W	4	bc	46	55	32	8	9	–	–	4-6	4-6	2500
	Aldergrove	24.9	+14	NW	2	c-bc	45	75	35	8	8	–	3	7-8	7-8	2000
19	*Birr Castle	26.1	+10	NW	2	c-bc	46	65	35	8	4	–	–	7-8	7-8	2500
20	Valentia Obsy.	29.0	+10	NNW	5	c-bc/plr	49	75	42	8	3	–	–	7-8	7-8	2500
	Roches Point	26.1	+2	NNW	5	bc	46	75	39	8	3	4	–	2-3	4-6	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)	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. 12th (39)	Weather 13h.–18h. 12th (40)	Weather 18h. 12th to 1h. 13th (41)	Weather 1h.–7h. 13th (42)
London (Kew)	21.9	+12	NE'N	2	cf	43	92	40	3	5	–	–	10	10	4000	1	*	ofecff	cffeo	cmmo	cmom
Croydon	22.0	+10	NE	1	F	43	92	41	1	–	–	–	10	10	<150	1	*	befef	efoF	ofcf	cf-bcmcf
S. Farnborough	21.8	+10	N'W	1	m	41	97	40	4	5	–	–	10	10	300	1	*	cFefmcm	omirofom	cmidocmo	cbmocf
Boscombe Down	22.3	+10	N'W	3	iro	41	92	39	5	5	–	–	10	10	900	1	*	oFeofir	ciromo	cfoformcm	cmo
Thorney Island	20.5	+12	NNE	3	m	43	92	41	4	5	–	–	10	10	4800	1	·	bemowbc	cmoom	cmcmo	cmobcm
Lympne	21.7	+10	NE	2	zo	41	85	36	6	5	–	–	10	10	2500	1	§2	cbemobzo	bzoczomo	cbwomo	ocmo
Manston	21.5	+10	ESE	1	zo	42	85	37	5	5	–	–	9+	9+	2500	1	*	cmobzo	bczocmo	cmo	cmo
Shoeburyness	21.5	+10	N	2	bF+	37	97	36	1	–	–	–	0	0	–	1	*	bfFbm	bmobF	bfbcm	cmo
Felixstowe	21.7	+10	N'E	2	zo	44	75	38	5	5	–	–	10	10	2700	0	0	cmo	cmoczo	czocmo	cmocmcmo
Gorleston	22.3	+6	E'N	2	c	45	75	38	6	5	–	–	10	10	1500	0	2	c	c	czo	c
Mildenhall	22.4	+12	NNE	2	f	40	97	39	3	–	–	–	10	10	<150	1	*	oF	ofcfof	ofcmbmo	bmocmcf
Cranwell	22.5	+12	N	2	dF	41	97	41	1	–	–	–	10	10	<150	1	*	oFeofe	ofdodo	bfbmcm	cfofocmo
Birmingham	23.8	+16	NNE	3	rf	40	97	40	3	6	–	–	10	10	800	1	*	Foror	ororf	foifom	ofom
Upper Heyford	22.5	+20	NNW	3	id	40	97	40	4	5	–	–	10	10	700	1	*	Feo	fidorom	cmocm	cmo
Ross-on-Wye	23.4	+20	N	2	ido	41	92	39	6	5	–	–	10	10	1000	1	*	ofrfrf	rfdro	docc	c
Hartland Point	23.8	+10	N	5	c-bc	47	75	40	8	2	4	–	7-8	7-8	2000	1	5	crr	cbcc	cbcc	cbc
Bristol	24.1	+10	N	2	cf+	42	92	39	3	6	2	–	4-6	10	450	1	*	ofcfrr	ofrrcmror	cmidocm	cfofcm
Portland Bill	21.4	+18	N	3	rr	42	92	40	7	5	–	–	10	10	2500	1	3	orr	orr	o	oc
Plymouth	23.7	+14	N	4	c-bc	44	85	39	7	5	6	–	4-6	7-8	2500	1	3	cmfroro	cprobc	cprobcc	cbcbmo
The Lizard	24.1	+8	NNW	5	bc/pr	43	85	38	8	8	6	–	4-6	4-6	2000	1	4	cprbc	cprbc	bc	ccbc
Scilly (St. Mary's)	26.3	+8	N'W	5	bcjp	45	75	39	8	8	6	–	4-6	4-6	1500	1	4	cbcpoc	cpobc	bcbpqbc	bcpoc
Guernsey																					
Pembroke	26.8	+16	NE'N	4	bc	45	65	35	8	2	–	–	4-6	4-6	2500	1	3	cbcq	cbcq	bcq	bbc
Holyhead (Valley)	26.7	+24	NNE	4	b-bc	44	75	35	8	2	–	–	2-3	2-3	2500	1	3	cirobc	bc	bcb	bw
Chester (Sealand)	25.4	+24	N'W	2	c	44	75	37	6	5	3	–	4-6	9+	2500	1	*	rororc	cmo	bcbmo	bcmobzo
Manchester	24.8	+22	NW	3	zo	42	85	37	5	5	7	–	2-3	9	2500	1	*	rrffm	rorommo	cmbmo	bccmo
Spurn Head	23.6	+12	N	2	zo	44	92	42	5	5	–	–	10	10	1500	0	2	om	om	cmo	bczo
Catterick	26.0	+28	NNW	2	c	43	85	37	7	5	7	–	4-6	9+	2500	1	*	orfc romoc	ciroc	cmoczo	czocmo
Tynemouth	25.4	+14	NNW	4	c-bc	45	75	38	6	8	–	–	7-8	7-8	2500	1	3	oirm	cpoc	cmo	cbc
St. Abbs Head	25.7	+16	NNW	4	bc	45	75	38	7	1	4	–	2-3	4-6	3000	0	3	cbc	bccbc	bcbmo	bmob
Leuchars	26.9	+30	NW	2	b	41	85	36	8	–	4	1	0	Tr	–	1	*	cbcvbc	bcb	b	bbx
Renfrew (Abbots I.)	28.1	+30	W	1	b	36	85	33	9	–	4	·	0	Tr	–	1	*	bcb	b	bmo	bcmx
Eskdalemuir	27.4	+26	N	1	b	36	85	30	8	–	7	–	0	1	·	1	*	cbc	bcyb	bx	bx
Point of Ayre	27.3	+34	NNE	5	b	46	65	36	8	4	–	–	Tr	Tr	2500	1	4	cprob	b	b	b
Tiree	28.7	+28	W'N	3	b-bcjp	43	85	39	8	3	5	1	1	2-3	2500	1	3	phrbcy	bjppro	bbcprob	bbc
Stornoway	25.9	+20	WSW	2	bc	41	97	41	8	8	6	2	4-6	4-6	1800	1		beproc	cproc	bcb	bcc
Dalwhinnie	27.8	+26	–	0	b	28	85	23	8	4	–	·	Tr	Tr	4000	0	*	beb	b	*	b,o
Aberdeen	27.2	+22	NW	2	b-bcf+	37	85	32	2	–	3	–	0	2-3	–	1	2	crorozob	bc	bfbzo	bbcx
Wick	25.3	+20	SW	2	b-bc	37	85	32	9	5	–	·	2-3	2-3	2000	0	*	cbc	bc	bcbcirobc	croroc
Sumburgh	23.2	+26	W'S	5	b-bc	46	65	37	9	2	–	–	2-3	2-3	2500	1	3	crorom-c	bcbbc	bcpro	bcprocproc
Blacksod Point	31.6	+22	NW'W	3	bc	46	85	42	8	8	·	–	4-6	4-6	2500	1	3	bc	bc	pr	bc
Malin Head	28.6	+26	NNW	2	b-bc	46	65	36	8	4	·	–	2-3	2-3	2500	1	3	pr	bc	pr	bc
Aldergrove	29.7	+20	NNW	1	b	40	75	32	8	4	·	–	1	1	2500	1	*	bxbc	cbcjpb	bbx	bbcbx
*Birr Castle	30.1	+22	NW	2	b	40	85	36	8	–	–	–	0	0	–	1	*	c	bc		b
Valentia Obsy.	32.3	+28	N'E	4	bc	46	65	36	8	2	·	–	4-6	4-6	2500	1	4	pr	pr	pr	pr
Roches Point	30.2	+36	N	5	bc	45	75	38	8	3	–	5	2-3	4-6	1500	1	4	bc	bc	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 13th November 1942

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Light to moderate North to Northeast wind. Mainly dull; fog, thick locally at first, but gradually clearing in afternoon; chance of some light showers or drizzle to-morrow: cold.
4 W. Midlands; 5 S.W. England	Light northerly to variable wind. Mainly fair; some local morning fog: rather cold with frost locally at night.
6 South Wales	Moderate to fresh Northeast wind; fair; bright periods, especially today: rather cold.
7 North Wales; 8 N.W. England; 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland	Light variable breeze; fair; local morning fog tending to persist in industrial areas. Rather cold, with frost at night and morning.
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland	Light to moderate westerly winds; mainly fair but some drizzle at first, chiefly near the coast: becoming somewhat milder.
15 N.E. Scotland; 16 Orkneys and Shetlands	Moderate to fresh westerly wind; cloudy, some slight occasional rain or showers: becoming rather mild.
17 N. W. Ireland; 18 N. E. Ireland	Light westerly winds; mainly fair; becoming somewhat milder.
19 S. E. Ireland; 20 S. W. Ireland	As 7-11

GENERAL INFERENCE

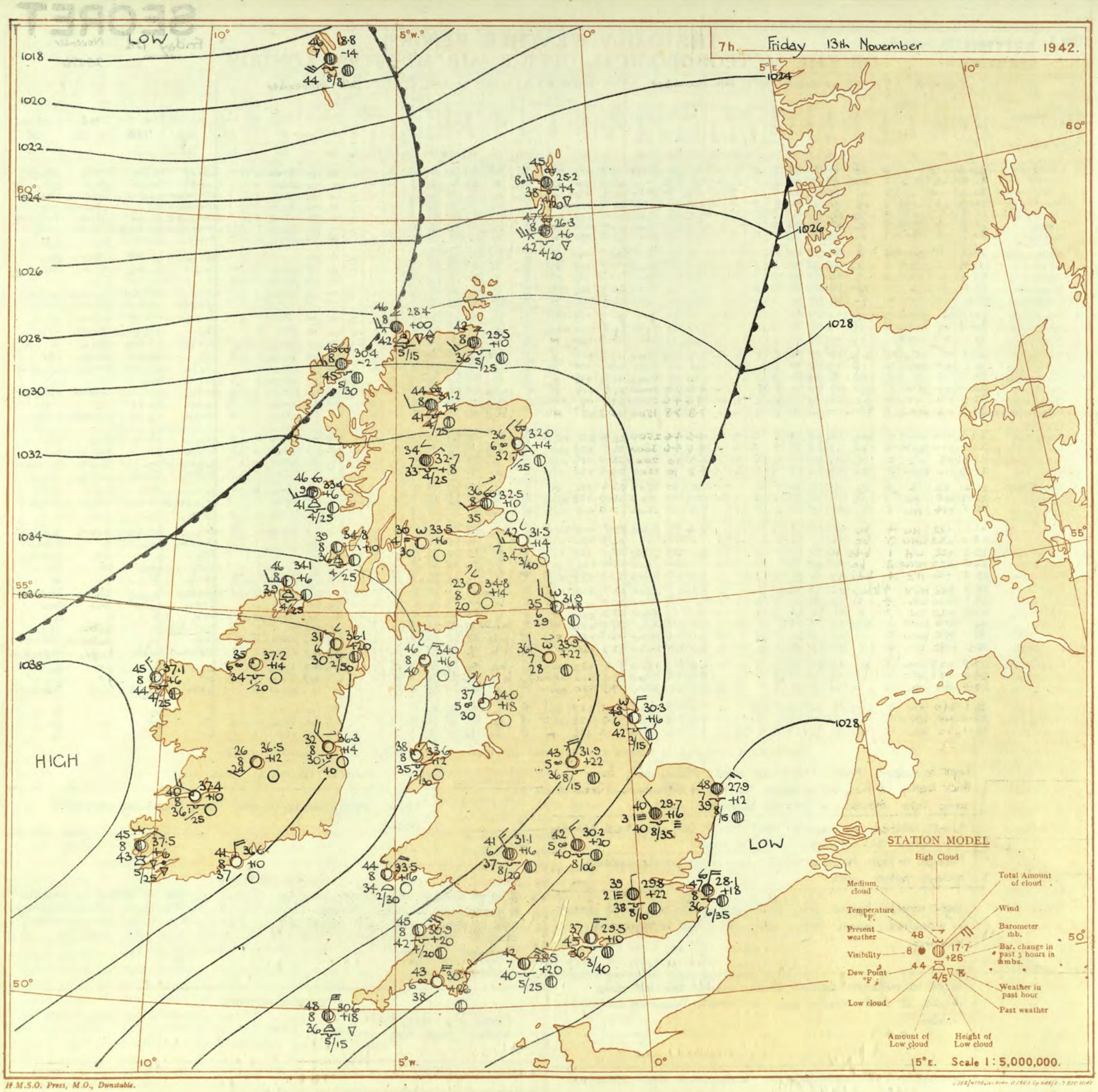
A rather intense anticyclone from the Azores to west of Ireland is expected to persist with a ridge across Central Britain to the North Sea. Weather will be mainly fair and rather cold in many districts but with considerable cloud in Southeast England. There will be more cloud also near the Northwest seaboard with some drizzle, especially at first.

FURTHER OUTLOOK

Mainly dry quiet weather continuing. Rather cold in most areas with some local fog probable.

Forecasts issued at 1030

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



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

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

Explanation of Frontal Lines shown on Charts

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

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

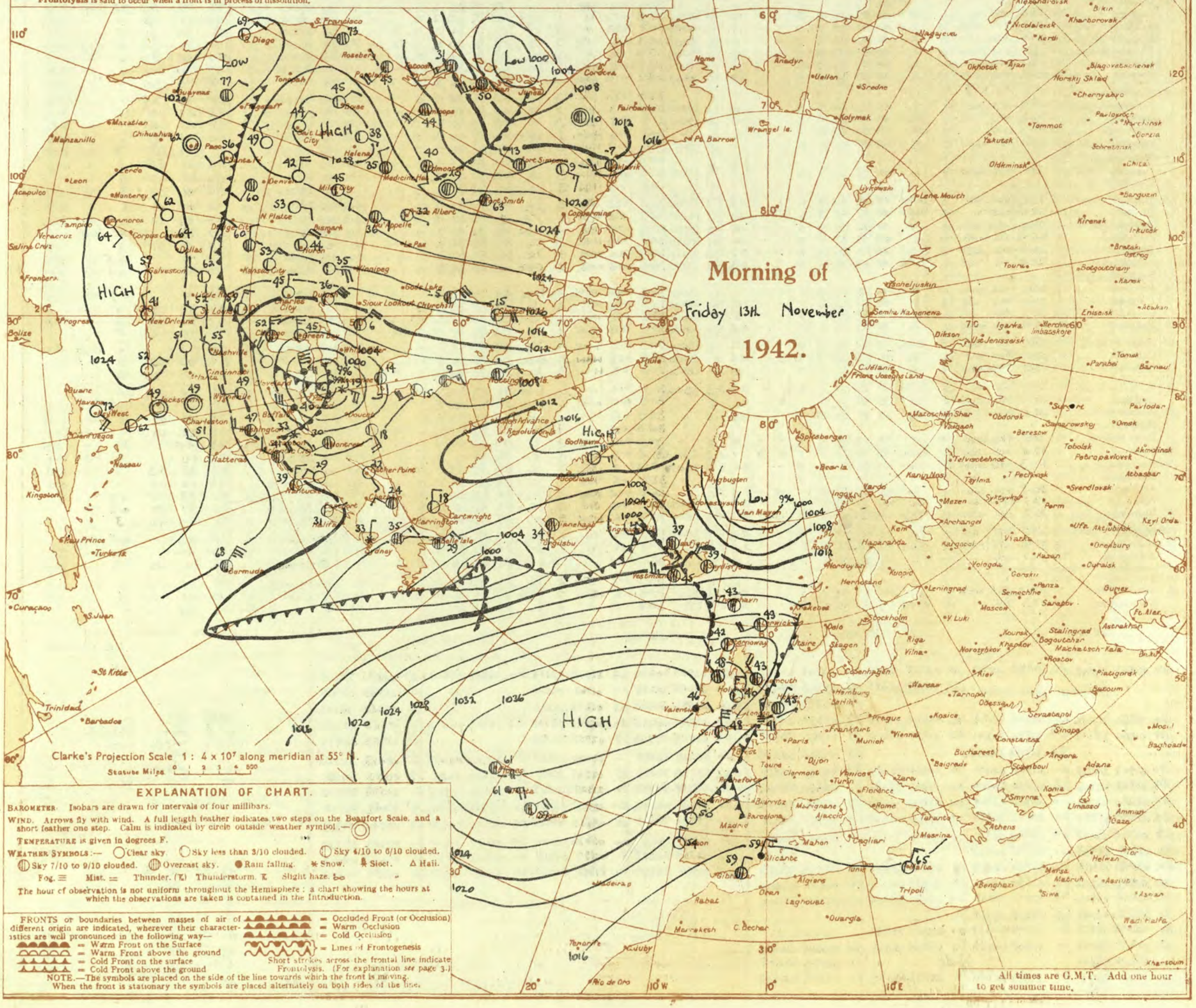
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

Page 4.

BRITISH SECTION

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

Friday 13th November 1942

No. 29526

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)	°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	*	*	*	*	*	42	*	*	*	*	*	*	*	*	*
	Croydon	290	25·8	+14	N	1	of-	41	92	39	3	5	–	–	10	10	1500
	S. Farnborough	226	25·7	+10	NE'N	3	zo	41	92	39	5	5	–	–	10	10	2000
	Boscombe Down	417	26·6	+20	N	3	zo	41	92	39	6	5	–	–	10	10	2000
	Thorney Island	10	25·1	+14	NNE	3	zo	42	85	38	6	5	–	–	10	10	3600
	Lympne	283	25·2	+14	–	0	zo	38	97	38	5	5	–	–	10	10	1800
	Manston	154	25·2	+16	E'N	3	zo	44	85	39	6	5	–	–	7·8	10	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	25·9	+18	NE	2	zo	45	65	34	5	5	–	–	10	10	3100
	Gorleston	5	25·9	+12	NE	1	zo	45	75	36	6	5	–	–	10	10	1500
	Mildenhall	15	26·6	+16	N	2	zo	38	92	37	6	–	–	–	0	0	–
	Cranwell	203	27·7	+18	NW'N	3	df	42	97	42	3	5	–	–	10	10	1600
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	27·1	+20	NNW	4	m	40	97	39	4	5	–	–	10	10	3500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	27·2	+14	NE	5	c-bc	46	75	40	8	6	1	–	4·6	7·8	2500
	Bristol	209	28·0	+20	N	3	of+	41	97	41	3	5	–	–	10	10	1500
	Portland Bill	32	25·4	+30	N	4	o	41	92	39	7	5	–	–	10	10	2500
	Plymouth	82	26·4	+14	NNE	5	c	45	75	37	7	5	–	–	9+	9+	4000
	The Lizard	240	26·6	+12	N'E	5	b-bc	43	75	36	8	8	–	–	2-3	2-3	2000
	Scilly (St. Mary's)	163	27·7	+6	N	6	b-bc	48	65	36	8	8	–	–	2-3	2-3	1200
	Guernsey	175															
6	Pembroke	142	30·2	+16	NNE	4	b	44	75	35	8	1	–	–	1	1	3000
7	Holyhead (Valley)	32	31·1	+14	N'E	3	b	40	85	35	8	1	–	–	Tr	Tr	2500
	Chester (Sealand)	16	30·2	+16	N	1	b	39	85	34	6	5	–	–	Tr	Tr	3000
8	Manchester	235	29·8	+14	WNW	2	zo	39	85	35	6	5	–	–	4·6	4·6	4000
10	Spurn Head	29	27·1	+12	NW	3	dodo	45	92	43	5	5	–	–	10	10	1500
	Catterick	175	30·2	+14	NW	3	zo	41	75	35	6	5	3	–	4·6	9	2500
	Tynemouth	108	29·9	+14	NNW	4	zo	43	75	37	6	5	–	–	9+	9+	2500
11	St. Abbs Head	280	29·7	+4	W	3	b-bc	41	85	38	7	4	–	–	2-3	2-3	2500
	Leuchars	36	31·1	+16	WSW	1	b	33	97	32	8	–	4	–	0	Tr	–
12	Renfrew (Abbots I.)	19	32·2	+14	–	0	zo	29	97	29	5	–	–	–	0	0	–
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	31·5	+14	NNE	4	b	46	65	34	8	–	–	–	0	0	–
13A	Tiree	44	32·4	+16	NW	3	b-bc	45	75	37	8	1	6	3	1	2-3	2500
13B	Stornoway	15	30·3	+10	WSW	3	bc	42	92	41	8	8	–	–	4·6	4·6	3000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	30·7	+14	W'N	1	b	35	85	32	8	–	4	–	0	Tr	–
	Wick	114	29·7	+26	SW	1	bc	40	92	38	8	8	–	–	4·6	4·6	2500
16	Sumburgh	19	25·7	+14	WSW	5	bs/pr	46	85	41	8	2	6	–	2-3	4·6	2500
17	Blacksod Point	18	35·9	+12	N'W	1	bc	46	85	42	8	8	–	–	4·6	4·6	2500
18	Malin Head	84	32·6	+16	NW'N	3	c-bc	48	75	41	8	8	2	–	4·6	7·8	2500
	Aldergrove	268	34·1	+16	–	0	b	32	92	30	8	–	–	–	0	0	–
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	36·0	+12	NE'E	2	pr	46	85	42	8	3	–	–	9+	9+	1200
	Roches Point	22	34·3	+16	N	4	b-bc	44	85	40	8	5	–	–	2-3	2-3	2500

OBSERVATIONS at 7 hr. G.M.T. 13th 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 12th Hrs. (38)
London (Kew)	30·0	+22	NNE	1	m	39	97	38	4	5	–	–	9+	9+	1500	1	*	43	38	30	Tr	–	0·0
Croydon	29·8	+22	N	1	of+	39	97	38	2	5	–	–	10	10	1000	1	*	45	39	35	–	–	1·3
S. Farnborough	30·2	+22	N	2	cf	37	97	36	3	5	7	–	1	9+	4000	1	*	43	37	31	Tr	–	0·0
Boscombe Down	30·3	+22	N'E	2	zo	41	92	39	6	5	2	–	7·8	10	1000	1	*	41	39	34	5	0·2	0·0
Thorney Island	29·5	+10	N	3	m	37	97	36	4	5	–	–	2-3	2-3	4000	1	*	50	36	32	–	–	*
Lympne	28·1	+18	NW	2	zo	43	85	35	6	5	–	–	10	10	2500	1	§	47	36	29	–	–	4·0
Manston	28·1	+18	NNE	4	c	47	65	36	8	5	7	–	9	9+	3500	1	*	47	39	35	–	–	2·9
Shoeburyness	28·5	+20	N'W	3	c	43	85	38	5	5	–	–	9+	9+	4000	1	*	45	37	34	–	–	5·1
Felixstowe	28·8	+18	NW'N	2	zo	44	75	37	5	5	–	–	10	10	3500	0	1	48	42	41	–	–	2·1
Gorleston	27·9	+12	NE	3	o	48	75	39	7	5	–	–	10	10	1500	0	2	47	44	41	–	–	0·0
Mildenhall	29·7	+16	NW'N	2	of+	40	97	40	3	5	–	–	10	10	3500	1	*	40	34	27	–	–	0·0
Cranwell	31·0	+10	NW'N	3	zo	40	97	40	5	5	–	–	10	10	700	1	*	41	39	37	Tr	0·6	0·0
Birmingham	32·0	+20	NNW	3	m	38	85	34	4	5	–	–	10	10	450	1	*	42	37	35	6	1	0·0
Upper Heyford	30·2	+20	NNW	3	zo	42	92	40	5	5	–	–	10	10	600	0	*	40	39	39	4	1	*
Ross-on-Wye	31·1	+16	N'W	3	o	41	85	37	6	5	–	–	10	10	2000	1	*	42	41	39	8	Tr	0·0
Hartland Point	30·9	+20	NE	5	bc	45	85	42	8	5	–	–	4·6	4·6	2000	1	6	48	44	41	3	–	2·5
Bristol	31·7	+20	NNE	2	c/f	41	92	39	4	5	7	–	2-3	10	1500	1	*	43	38	31	11	0·1	0·0
Portland Bill	28·5	+20	NE	4	c-bc	42	92	40	7	5	–	–	7·8	7·8	2500	1	4	49	39	*	6	0·2	*
Plymouth	30·7	+26	NNE	5	zo	43	85	38	6	–	–	–	0	0	–	1	4	49	42	37	3	–	1·9
The Lizard	29·8	+20	NNE	5	bc	43	85	38	8	8	6	–	4·6	4·6	2000	0	4	50	41	*	0·5	Tr	5·5
Scilly (St. Mary's)	30·6	+18	NNE	6	c-bc	48	65	36	8	8	–	–	7·8	7·8	1500	1	5	51	43	*	0·1	Tr	6·1
Guernsey																							
Pembroke	33·5	+16	NE'N	4	b-bc	44	75	34	8	1	4	–	1	2-3	3000	1	3	48	41	*	0·3	Tr	5·5
Holyhead (Valley)	33·6	+12	N'E	2	b	38	85	35	8	5	–	–	1	1	3000	1	3	49	36	31	1	–	*
Chester (Sealand)	33·5	+20	NW	1	c	37	85	33	6	5	3	–	4·6	9	3000	1	*	47	36	39	3	–	0·0
Manchester	33·1	+18	W'N	2	m	35	85	31	4	5	3	–	Tr	1	4000	1	*	44	35	26	5	–	*
Spurn Head	30·3	+16	NNE	4	bc	48	85	42	6	5	3	–	2-3	4·6	1500	1	3	44	43	*	–	0·3	0·0
Catterick	33·9	+22	WNW	2	b-bc	36	75	28	7	–	3	1	0	2-3	–	1	*	44	35	28	5	–	0·0
Tynemouth	31·9	+8	WNW	3	bc	35	75	29	6	–	3	–	0	4·6	–	1	3	46	35	29	2	–	*
St. Abbs Head	31·5	+14	W	3	b-bc	42	75	34	7	5	4	–	2-3	2-3	4000	0	2	45	30	*	–	–	*
Leuchars	32·5	+10	WSW	2	c-bc	36	97	35	8	–	7	2	0	7·8	–	1	*	47	33	24	–	–	6·2
Renfrew (Abbots I.)	33·5	+6	–	0	m	30	97	30	4	–	3	–	0	2-3	–	3	*	48	27	22	–	–	6·0
Eskdalemuir	34·8	+14	–	0	b	23	97	20	8	–	4	1	0	Tr	–	3	*	45	22	14	–	–	5·7
Point of Ayre	34·0	+16	N'E	3	b	46	85	40	8	–	–	6	0	1	–	0	3	48	44	*	Tr	–	3·6
Tiree	33·4	+6	W'S	3	c	46	85	41	9	8	7	–	4·6	9+	2500	1		47	40	*	1	Tr	4·1
Stornoway	30·4	-2	W	3	c	45	97	45	8	5	7	–	7·8	10	3000	1		47	37	33	Tr	Tr	4·5
Dalwhinnie	32·7	+8	NE	1	c	34	92	33	7	5	1	–	4·6	10	2500	3	*	42	26	18	–	–	5·5
Aberdeen †	32·0	+14	NW	2	zo	36	85	32	6	5	7	–	Tr	2-3	2500	1	2	45	33	27	0·2	–	3·7
Wick	29·5	+10	SW	3	c	42	75	36	8	5	2	–	7·8	10	2500	1	*	46	37	31	0·2	Tr	*
Sumburgh	26·3	+6	WSW	5	c	47	85	42	8	5	7	6	4·6	9+	2000	1	4	49	45	40	3	2	
Blacksod Point	37·1	+6	NW	1	bc	45	97	44	8	5	–	–	4·6	4·6	2500	1	2	48	43	*	0·5	0·3	*
Malin Head	34·1	+6	W	2	bc	46	75	39	8	8	–	–	4·6	4·6	2500	1	3	47	44		1	0·1	3·7
Aldergrove	36·1	+20	–	0	b-bc	31	92	30	6	5	4	–	1	2-3	5000	3	*	46	30	22	–	–	7·0
Birr Castle	36·5	+12	SSW	2	b	26	92	24	8	–	–	–	0	0	–	1	*	47	25	21	–	–	4·3
Valentia Obsy.	37·5	+6	NE'N	2	cbc/pr	45	92	43	8	3	6	–	7·8	7·8	2500	1	3	49	42	37	3	3	4·6
Roches Point	36·6	+10	N	4	b	41	85	37	8	–	–	–	0	0	–	1	4*	48	39	*	–	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	$C_L C_M$ 13h. G.M.T. 12th Nov.	wwVhN_h	DDFWN	$C_L C_M$ 18h. G.M.T.	wwVhN_h	DDFWN	$C_L C_M$ 01h. G.M.T. 13th Nov.	wwVhN_h	DDFWN	$C_L C_M$ 07h. G.M.T.	wwVhN_h	DDFWN
100	36	01853	22413	56	01753	20313	40	02855	21285	5-	02742	21487
115							77	10844	24485	82	27845	57488
203										5-	03948	24328
206	20	01851	22412	23	01964	22114	50	01864	24284	57	02854	24218
210	10	01961	22312	04	01890	16201	03	01890	21303	57	02961	22317
220				50	25744	24384				52	62745	22328
230	90	01962	24282	5-	01963	00013	50	01861	00083	83	05665	00086
245	54	01951	22213	03	01990	26102	50	01961	23201	17	02861	28306
260	00	05690	25213	00	05690	23110	00	05590	20100	67	01790	20104
270	30	81944	26584	20	01852	30482	03	01790	00001	54	05561	16105
27[illegible]	23	02763	26225	04	05690	31311	00	05690	30100	03	02890	00001
285	51	02857	28467	5-	02747	30427						
28[illegible]	5-	62448	28268	52	22453	28468	5-	08465	29455	50	05563	22123
57[illegible]	20	01853	26203	03	01890	28101	50	01851	00001	50	05651	00001
30[illegible]	86	05554	30366	23	08451	02223	04	05690	32201	04	05590	32202
325	5-	67308	00049	62	62554	28368						
29[illegible]	5-	05548	20328	8-	03748	32428	5-	02756	32426			
29[illegible]	02	62418	28268	02	62658	30268	50	05661	28361	40	05564	30314
310	--	57209	24259							--	01634	32514
614	--	67209	00069	52	62534	32368	5-	22538	02368	5-	05548	65428

III	$C_L C_M$ 13h. G.M.T. 12th Nov.	wwVhN_h	DDFWN	$C_L C_M$ 18h. G.M.T.	wwVhN_h	DDFWN	$C_L C_M$ 01h. G.M.T. 13th Nov.	wwVhN_h	DDFWN	$C_L C_M$ 07h. G.M.T.	wwVhN_h	DDFWN
33[illegible]	26	02965	30426	24	25863	32314	50	01861	32301	00	00890	32201
334	--	27645	10288	--	01763	02214				--	01753	06114
340	5-	22436	30268	03	05690	32226				5-	05663	06213
136	53	05644	16245	5-	05548	28128	50	05563	00023	5-	05668	32128
330	57	02754	28368	57	02753	32426				50	01753	32414
350	5-	08428	26148	--	57109	28259	5-	21557	32357	5-	08428	32328
368	62	62734	32168	57	02745	32187	57	02664	32115	57	02655	30228
379	5-	57318	30258	5-	21328	63458	5-	14448	30348	5-	61538	28468
390	5-	43162	00042	5-	43365	08145	00	08490	32340	5-	47148	32148
38[illegible]	5-	08428	32148	62	64536	02368	52	08444	01428	57	05546	02318
438	5-	05646	14116	00	05690	01200	54	05653	04314	8-	05548	32328
430	53	05564	06227	5-	05577	04328	5-	05668	06328	5-	05655	06125
409	10	01954	29564	80	81845	30525	20	01753	35613	50	01754	37504

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 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	Weather Afternoon	Weather Night
Kew *	ofecff	cffro	cmom
Croydon	bcfof	cfoF	ofefcmcf
Greenwich	cbcfb	cmFfc	cwcf
Camden Square	of	of	*
*Kensington	of	ofome	*
Hampstead	of	of	o

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0·8 Time 16-17h 12th. Min. 0·1 Time 0-4h 12th.

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	43	38	30	Tr	–	0·0	*	*
Croydon	45	39	35	–	–	1·3	*	*
Greenwich	46	38	29	–	–	2·0	90	93
Westminster	44	38	33	–	–		97	97
Regents Park	42	36	30	–	–		91	96
Camden Square	42	37	29	–	–	*	*	97
Kensington	43	37	29	–	Tr		94	94
Hampstead	42	36	30	–	–		*	98

Page 1 **BRITISH SECTION**

Saturday 14th November

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

SECRET

Saturday 14th November 1942

No. 29577

OBSERVATIONS at 13h. G.M.T. Friday 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)	31·9	0	N'W	3	z0	46	85	43	5	5	-	-	10	10	2500
	Croydon	31·7	+2	NNW	2	m	47	85	43	4	5	3	-	4-6	9+	3000
	S. Farnborough	32·3	+2	N	3	z0	46	85	42	5	5	7	-	9	10	800
	Boscombe Down	32·5	+2	N	2	z0	45	85	42	6	5	-	-	7-8	9+	800
	Thorney Island	31·7	+2	N	3	z0	49	75	41	6	5	-	-	9+	9+	4000
	Lympne	30·7	+6	-	0	id0	44	92	42	6	5	-	-	7-8	10	2000
	Manston	30·1	+6	N'E	4	ir0	47	85	45	6	5	-	-	10	10	1200
2	Shoeburyness	31·2	+2	N	3	c	48	85	43	5	5	-	-	9+	9+	4000
	Felixstowe	31·0	+6	N'W	3	c/+	47	85	43	6	6	7	-	9	10	2700
	Gorleston	30·5	+6	N'E	4	c	48	75	39	7	8	-	-	10	10	1200
	Mildenhall	31·8	+4	N'E	3	c	48	75	41	7	8	-	-	9	10	2700
	Cranwell	33·3	+4	NW	3	id0	43	92	41	6	5	-	-	2-3	9+	2000
3	Birmingham	33·5	0	NNW	2	m	45	85	41	4	-	-	-	0	0	-
	Upper Heyford	32·3	+2	NNE	3	z0	46	85	41	6	5	-	-	2-3	2-3	2000
4	Ross-on-Wye	33·4	0	N	2	c	45	75	38	6	5	3	-	7-8	9+	3000
5	Hartland Point	33·1	0	NE	4	bc	49	85	42	8	1	4	1	2-3	4-6	2000
	Bristol	33·6	0	NNE	3	z0	45	85	41	5	5	7	-	9	10	2500
	Portland Bill	32·2	+6	NE	3	c-bc	49	85	45	7	2	-	-	7-8	7-8	4000
	Plymouth	33·4	+6	NE	3	c	47	85	42	7	8	3	-	7-8	9	2500
	The Lizard	32·2	+4	NE	5	bc	49	72	41	7	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	33·0	+4	NNE	5	bc	52	65	41	8	8	-	-	4-6	4-6	1500
	Guernsey															
6	Pembroke	35·1	-2	NE	4	b-bc	50	65	37	8	2	4	1	2-3	2-3	3000
7	Holyhead (Valley)	35·1	-6	NNE	2	bc	51	65	40	9	7	3	6	1	4-6	2500
	Chester (Sealand)	34·3	-2	NNW	3	b	48	65	37	6	1	-	1	Tr	1	3000
8	Manchester	34·4	+4	W	2	m	45	55	30	4	-	-	-	0	0	-
10	Spurn Head	34·0	+22	NW	5	c	48	85	44	7	5	9	-	4-6	9	4000
	Catterick	34·4	-4	N	1	b-bc	47	55	34	7	5	-	1	1	2-3	3000
	Tynemouth	33·3	-4	W	3	b-bc	45	75	39	6	-	3	1	0	2-3	-
11	St. Abbs Head	33·5	-4	SW	2	bc	47	75	39	7	4	4	-	2-3	4-6	3500
	Leuchars	32·3	-8	WSW	2	c	48	85	44	8	-	4	5	0	9+	-
12	Renfrew (Abbots I.)	33·9	-6	W	1	z0	45	85	41	5	5	7	-	4-6	10	2000
	Eskdalemuir	34·1	-6	-	0	b-bc	48	75	40	8	2	7	2	Tr	2-3	3500
	Point of Ayre	35·1	-2	NW'N	2	bc	49	65	38	8	1	-	6	Tr	4-6	4000
13A	Tiree	33·6	+2	W	3	c	50	85	46	8	8	7	-	7-8	9	1200
13B	Stornoway	30·3	0	W	4	c/d	48	97	48	6	5	2	-	9	10	2000
15	Dalwhinnie	32·0	-2	SW	3	c	43	85	38	8	8	-	2	4-6	9+	1500
	Aberdeen	31·3	-8	WSW	2	c	46	75	39	7	5	9	9	1	9+	5000
	Wick	28·8	-8	WSW	3	c	48	85	44	8	-	7	-	0	9+	-
16	Sumburgh	24·3	-18	SW'W	6	id0	49	97	49	7	5	2	-	9	10	500
17	Blacksod Point	37·6	-2	-	0	+0r0	48	97	48	7	6	2	-	4-6	10	1500
18	Malin Head	34·6	-4	SW	3	+	49	85	45	8	8	-	-	9	9	1500
	Aldergrove	36·0	-6	SSW	2	z0	46	75	39	6	6	7	2	1	7-8	4500
19	Birr Castle	37·1	-8	SW	2	c	48	75	40	8	5	1	-	7-8	9+	2500
20	Valentia Obsy.	38·5	-2	NW'N	4	cjp	48	85	44	8	8	-	-	9+	9+	2500
	Roches Point	37·0	-10	N	3	b-bc	48	75	40	8	1	-	5	Tr	2-3	800

OBSERVATIONS at 18h. G.M.T. Friday 13th 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. 13th (39)	Weather 13h.–18h. 13th (40)	Weather 18h. 13th – 1h. 14th (41)	Weather 1h.–7h. 14th (42)
London (Kew)	34·0	+18	N	3	z0	46	85	42	5	5	-	1	4-6	4-6	2500	1	•	cmm0	cbcm0w	bcbm0w	bm0ffx
Croydon	33·6	+14	N	2	cf	47	85	42	3	5	-	-	10	10	2900	1	•	cf0fcm	cmcf	cffbcf	cfbf0fx
S. Farnborough	34·1	+8	N	3	z0	46	85	41	5	5	-	-	10	10	4000	1	•	cfmm0	cm0	cm0bcbmfx	0fex
Boscombe Down	34·5	+22	N'W	2	z0	42	97	42	6	-	3	-	0	9	-	0	•	cm0	cbcm0	cm0bm0	bm
Thorney Island	33·5	+14	N	3	z0	46	85	42	5	5	-	-	9	9	4600	1	•	bcmcbz0	cbccz0	cz0bm0	bm0
Lympne	32·5	+18	N'W	2	b-bc	44	85	39	7	2	-	-	2-3	2-3	2200	1	5+	em0id0m0	cim0bd	cm0id0	cid0bcpr0m0
Manston	31·9	+14	NNE	5	c	48	75	39	7	5	-	-	9+	9+	2500	1	•	cir0d0m0	ir0pr0	cpr0m0	cir0
Shoeburyness	32·7	+2	N	3	c	43	92	41	5	-	3	-	0	9+	-	0	•	cm0c	cm0c	bcbm0	bm
Felixstowe	33·5	+30	N'W	2	z0	45	85	40	6	5	7	-	7-8	10	3700	1	2	cm0cir0m0	cir0bcmcm0	bcm0	bcm0bm0bm
Gorleston	32·8	+10	NE'N	3	bc	48	75	40	7	8	-	-	4-6	4-6	1500	0	3	cpr0c	cpr0bc	cbcz0w	bcz0m0w
Mildenhall	34·3	+18	NNW	2	z0	42	97	40	6	5	3	-	4-6	7-8	5700	1	•	cm0cir0m	cbccm0	bfbmbf	bfffx
Cranwell	35·0	+14	N'W	3	z0	41	85	38	5	5	-	-	Tr	Tr	1500	0	•	cm0cnf0id0	bcbm0	bm0bm	bmx
Birmingham	35·4	+12	NNW	3	m	42	85	38	4	-	-	-	0	0	-	1	•	bmb	bm	bm	bmfx
Upper Heyford	34·8	+20	N	2	z0	43	97	41	6	-	3	-	0	7-8	-	1	•	cm0	bcbcm0	bm0bm	bf
Ross-on-Wye	35·4	+16	SW	1	b-bc	40	75	33	7	-	-	8	0	2-3	-	1	•	c	ccbz0	bcm0m	bmx
Hartland Point	24·8	+14	NE	4	b	48	75	41	8	1	-	1	Tr	1	2500	1	4	bc	bc	bcb	bbc
Bristol	35·7	+16	-	0	bcf+	41	92	38	2	-	3	-	0	4-6	-	1	•	cmm0	cm0mbcf	bcfbfbmx	bmxif
Portland Bill	33·4	+4	NNE	3	o	46	92	44	6	5	-	-	10	10	1500	1	3	c	off0	bcbc	bcbc
Plymouth	34·7	+12	NE	3	z0	45	85	41	6	4	-	-	1	1	4000	1	3	bm0bbc	cbcbm0	bm0	bm0x
The Lizard	34·0	+8	NNE	4	bc	45	85	39	7	4	-	-	4-6	4-6	2000	0	4	bc	bc	bcw	bcw
Scilly (St. Mary's)	34·0	+8	NNE	4	bc	49	75	40	8	2	6	5	1	4-6	1500	1	5	cbc	bc	bc	bbc
Guernsey																					
Pembroke	37·6	+6	NE	3	bc	44	85	39	8	2	6	1	2-3	4-6	3000	1	1	bc	bc	bcbw	bccw
Holyhead (Valley)	36·3	+10	-	0	b	42	92	40	7	2	3	8	1	1	3000	1	2	bwbbc	bcbc	bfgbc	cbcbw
Chester (Sealand)	35·7	+10	NW	1	z0	42	85	39	5	1	-	1	Tr	2-3	3500	0	•	cm0z0b	cm0bcb	bfbcm0	bm0
Manchester	36·0	+16	W	1	m	38	85	34	4	-	-	1	0	2-3	-	0	•	bfbzy	bzyz0	bmff	bid0ff
Spurn Head	34·9	+14	NW	3	b-bc	43	92	41	7	5	4	-	2-3	2-3	4000	1	3	r0cf	bc	bm0	bcm
Catterick	35·7	+12	WNW	2	z0	39	85	35	5	-	-	1	0	1	-	1	•	bcb	bycbcb	bm0bcm0	bcm0
Tynemouth	34·3	+6	W	3	b-bc	42	85	38	6	-	4	-	0	2-3	-	1	2	bcm0	bc	bc	bc
St. Abbs Head	32·5	+2	N	3	b-bc	47	85	43	7	5	-	-	2-3	2-3	3500	0	3	bm bcm0 cm0	bcm0cm0 bm	m0bbcc	cm0
Leuchars	33·1	+6	WSW	2	z0	43	97	43	6	-	9	5	0	9	-	1	•	c0	ccm0	cm0bc	bccz
Renfrew (Abbots I.)	34·5	+8	W'S	3	z0	44	92	42	6	5	-	-	7-8	7-8	1800	1	•	efcm0	cbcm0	cbbcm0	cm0id0
Eskdalemuir	35·1	+8	SSW	2	c-bc	40	85	36	6	5	-	-	7-8	7-8	1400	1	•	cxbc	bccm0	cbc	pr0bc
Point of Ayre	35·6	+6	N'W	2	c	50	75	42	8	8	7	6	4-6	9+	3500	0	3	bbc	bcc	cbcb	bbcc
Tiree	34·8	+10	W'N	2	c-bc	47	85	44	8	8	3	1	4-6	7-8	3500	1	2	cbcc	b ccbc	cjpccid	midcid0idc
Stornoway	30·6	+6	SW	3	z0	49	92	46	6	-	7	-	0	9	-	1		oc	c, cm0	cm0cr0r0m0	cr0d0d0d0m0
Dalwhinnie	32·5	+4	SW	2	o	44	85	40	8	5	-	-	10	10	2500	0	•	cor0d0d0m0	co		obc
Aberdeen	31·9	+6	SW	1	cf+	45	85	41	2	5	9	-	4-6	9+	5700	1	1	bcxcz0xc	cz0cf	cfcz0	c
Wick	28·8	-2	W'S	2	c	47	97	47	7	5	7	-	7-8	10	2000	1	•	c	cid0c	c	c
Sumburgh	24·5	+2	W'S	5	ir0	49	97	48	7	5	2	-	9	10	700	1	4	cdd0md0	cid0cir0	cdrrr	crrd0d0
Blacksod Point	37·9	+6	WNW	1	bc	46	97	46	8	4	3	-	2-3	4-6	1500	1	2	+	bc	pr	bc
Malin Head	35·2	+4	WNW	2	c	49	85	45	8	8	-	-	10	10	1500	1	2	+	+	c	pr
Aldergrove	37·2	+14	-	0	c	43	92	41	7	5	4	-	7-8	9+	2500	1	•	cbccm0	cm0c	bcb	bf
Birr Castle	37·7	+6	N	2	c-bc	37	92	35	8	-	-	5	0	7-8	-	1	•	e	c		bc
Valentia Obsy.	38·9	+8	N'W	1	c/pr	47	97	47	8	8	-	-	9	9	2500	1	2	+	pr	bc	bc
Roches Point	38·2	+14	N	2	bc	46	85	42	8	5	-	5	2-3	4-6	2500	1	3	b	bc	b	f

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday, 14th November, 1942.

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands, 5 S.W. England, 6 South Wales	Light variable breeze; fine or fair; fog night and morning clearing by afternoon in most rural areas, but persisting locally in industrial areas; rather cold to cold in foggy areas; slight to keen frost at night.
7 North Wales, 8 N.W. England, 9 N. Midlands, 10 N.E. England, 11 S.E. Scotland	Light to moderate westerly wind; fair; rather mild by day; ground frost in a few places at night in southern part of area.
12 S.W. Scotland & Isle of Man, 13A W. Scotland, 13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland	Moderate to fresh westerly winds, strong to a gale locally on northern coasts; cloudy; slight rain or drizzle chiefly near the western and northern coasts; rather mild.
16 Orkneys and Shetlands	As 12-15
17 N. W. Ireland, 18 N. E. Ireland	Light to moderate westerly wind; mainly cloudy; slight occasional drizzle; mainly rather mild.
19 S. E. Ireland, 20 S. W. Ireland	As 1-6

GENERAL INFERENCE

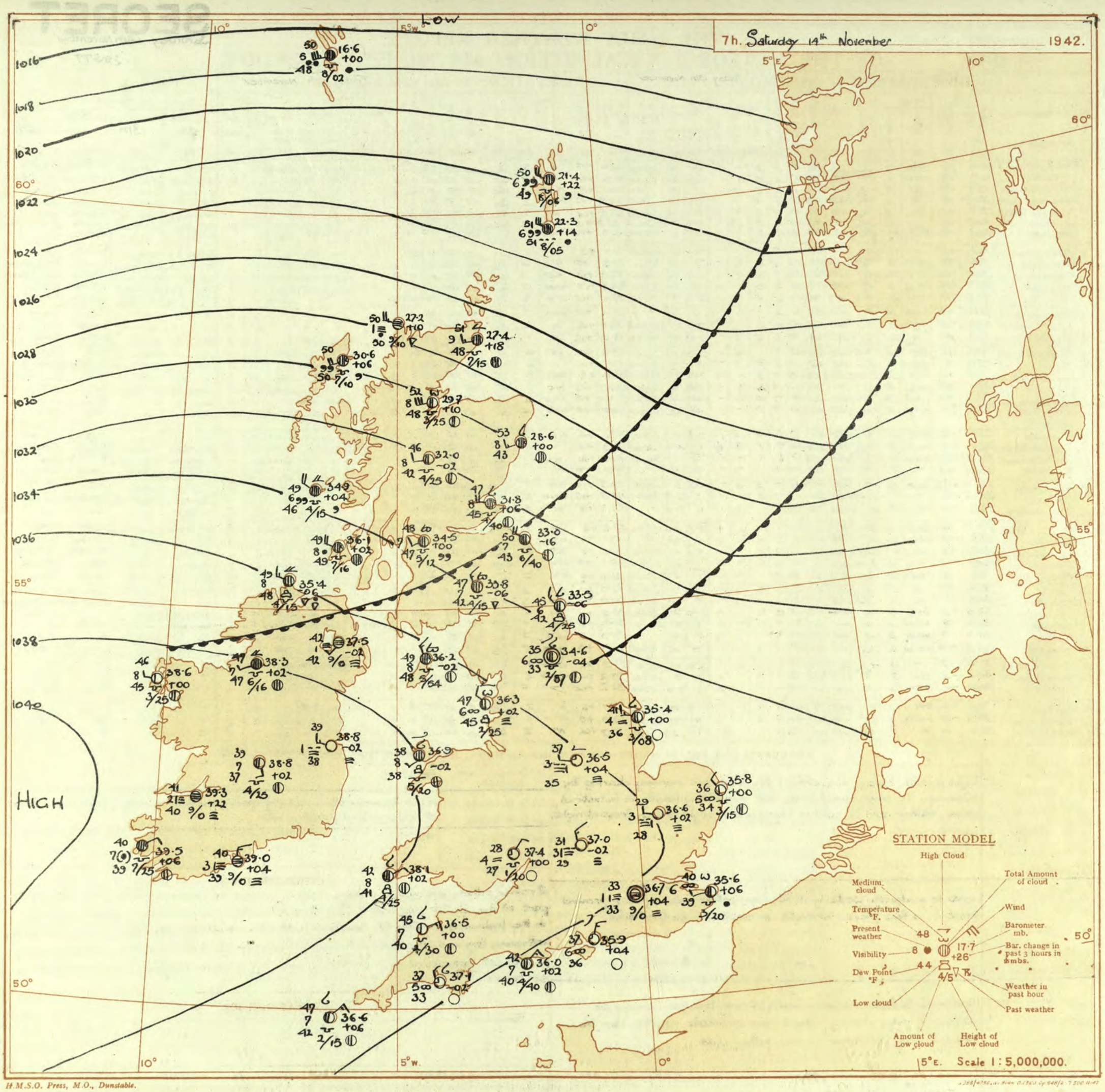
A rather intense anticyclone centred west of Ireland will continue to dominate the greater part of the British Isles but there will continue to be considerable cyclonic activity in the Iceland area. Over the southern half of the country weather will continue fine to fair with some fog and rather cold with frost at night. In the North condition will be generally milder with occasional rain or drizzle near the extreme Northwest and and North seaboard.

FURTHER OUTLOOK

Similar

Forecasts issued at 1030

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



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

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

Explanation of Frontal Lines shown on Charts

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

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

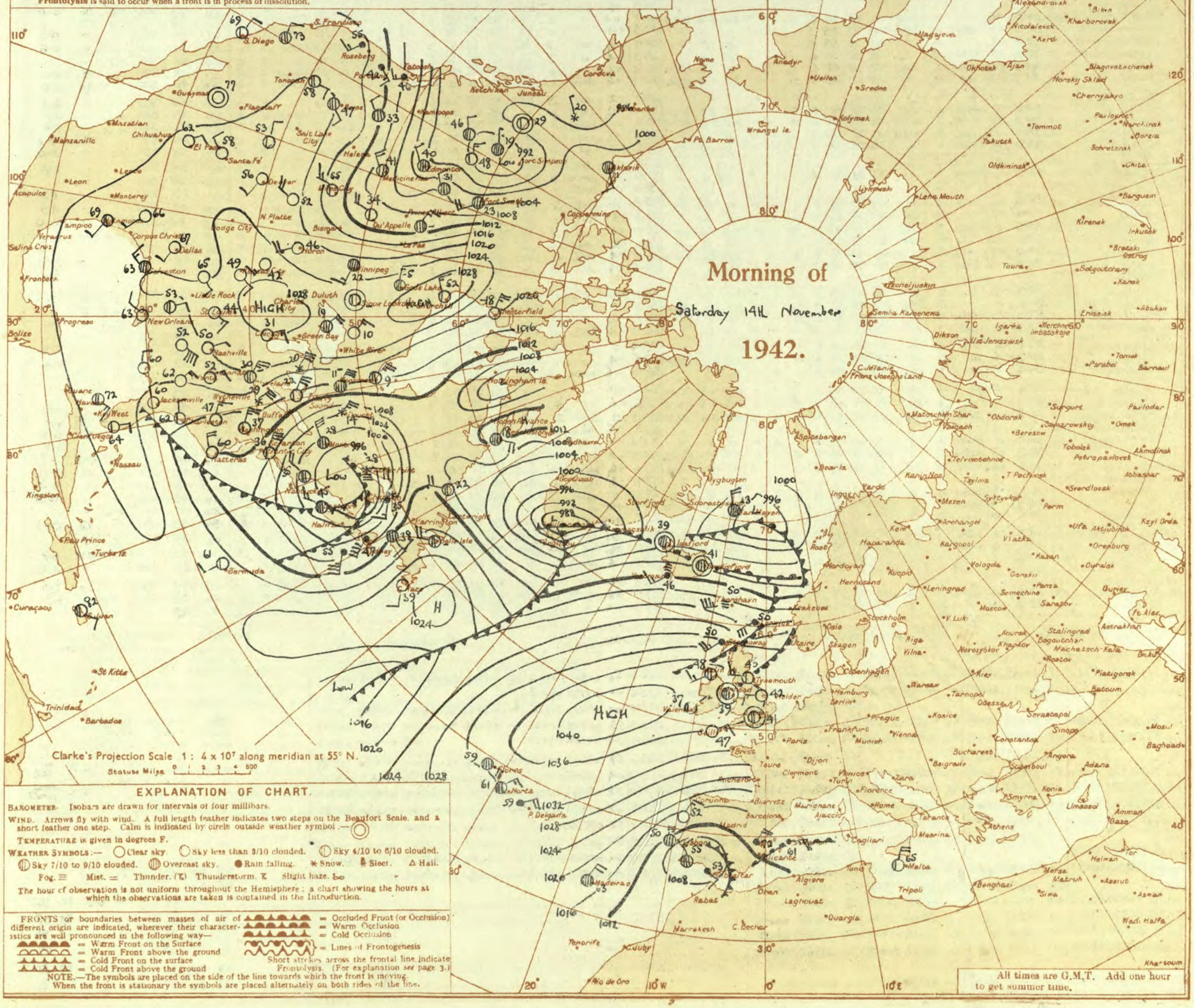
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

Page 4.

BRITISH SECTION

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

Saturday 14th November 1942

No. 29577

OBSERVATIONS at 1 hr. G.M.T. Saturday 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)	°F. Dew Point (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	40	*	*	*	*	*	*	*	*	*
	Croydon	290	36·2	+6	–	0	bcf–	41	97	40	3	5	–	–	4-6	4-6	900
	S. Farnborough	226	36·8	+6	NNW	2	bf+	35	97	35	2	–	–	–	0	0	–
	Boscombe Down	417	37·6	+2	–	0	z₀	37	92	35	5	–	–	–	0	0	–
	Thorney Island	10	35·8	+2	NNE	2	z₀	42	97	41	6	–	–	–	0	0	–
	Lympne	283	34·7	+2	N	2	id₀	43	97	42	6	5	–	–	10	10	1500
	Manston	154	34·7	+6	NNE	3	z₀	47	85	43	6	5	–	–	7·8	7·8	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	34·9	+2	NN'W	2	z₀	42	97	41	5	5	–	–	2-3	2-3	4000
	Gorleston	5	34·9	+8	NW'N	2	b-bc	42	85	38	6	8	–	–	2-3	2-3	1500
	Mildenhall	15	36·2	+6	NW	2	bf+	33	97	33	2	–	–	–	0	0	–
	Cranwell	203	36·3	+2	NNW	1	m	35	92	33	4	–	–	–	0	0	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	36·5	0	NNW	1	m	32	92	30	4	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	37·0	+6	ENE	3	b	46	75	38	7	1	–	–	0	Tr	–
	Bristol	209	37·6	+2	W	1	m	35	97	34	4	–	–	–	0	0	–
	Portland Bill	32	35·8	0	NE	3	bc	43	92	41	8	5	–	–	4-6	4-6	4000
	Plymouth	82	37·5	+10	–	0	z₀	39	92	36	5	–	–	–	0	0	–
	The Lizard	240	36·2	+2	N	3	b-bc	41	85	37	8	8	–	–	2-3	2-3	2000
	Scilly (St. Mary's)	163	36·4	+4	ENE	4	b	47	75	40	8	–	–	–	0	0	–
	Guernsey	175															
6	Pembroke	142	37·9	+2	E	2	b	43	85	38	8	–	4	–	0	1	–
7	Holyhead (Valley)	32	37·4	0	–	0	c/d	39	92	37	8	5	–	–	9+	9+	1800
	Chester (Sealand)	16	37·1	+2	NNW	1	z₀	37	92	35	5	5	–	–	10	10	3000
8	Manchester	235	37·3	+2	SE	1	bf	33	92	31	3	–	–	–	0	0	–
10	Spurn Head	29	35·8	+2	W'N	3	z₀	42	75	34	6	–	–	–	0	0	–
	Catterick	175	36·3	–6	W	2	z₀	32	97	32	6	4	–	–	2-3	2-3	4500
	Tynemouth	108	34·6	–4	W	3	z₀	43	92	41	6	–	4	–	0	2-3	–
11	St. Abbs Head	280	32·1	–8	W	4	bc	48	85	44	7	5	–	–	4-6	4-6	4000
	Leuchars	36	32·4	–4	W	3	bc	43	97	43	8	5	–	–	4-6	4-6	6000
12	Renfrew (Abbots I.)	19	35·3	+6	SW'S	2	z₀	45	85	41	6	5	–	–	4-6	4-6	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	36·5	0	NW'N	3	b	49	85	45	7	–	4	–	0	1	–
13A	Tiree	44	35·3	+8	WSW	4	id	49	97	49	6	6	1	–	4-6	10	800
13B	Stornoway	15	30·5	+4	WSW	5	r₀r₀	50	92	49	6	5	–	–	10	10	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	30·2	–8	SW'W	4	c	49	85	43	8	5	7	–	4-6	9	4000
	Wick	114	26·5	–4	WSW	4	c	51	85	47	7	3	2	–	7·8	10	2300
16	Sumburgh	19	20·3	–10	W	8	rr	50	97	50	6	6	–	–	10	10	800
17	Blacksod Point	18	38·8	–2	WSW	1	bc	45	97	44	8	8	–	–	4-6	4-6	2500
18	Malin Head	84	36·3	+4	WSW	3	bc	48	97	47	8	8	–	–	4-6	4-6	2500
	Aldergrove	268	37·8	–2	–	0	b	41	97	40	6	–	–	–	0	0	–
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	39·5	–4	NE'E	1	b	37	97	36	8	5	–	–	1	1	2500
	Roches Point	22	39·0	–6	N	3	b	42	92	40	8	–	–	–	0	0	–

OBSERVATIONS at 7 hr. G.M.T. Saturday 14th 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)	36·9	+2	SW	1	bF+	36	97	35	1	–	–	–	0	0	–	1	*
Croydon	36·7	+4	–	0	F+	33	97	33	1	–	–	–	10	10	<150	1	*
S. Farnborough	37·3	+4	–	0	F+	31	97	31	1	–	–	–	10	10	<150	1	*
Boscombe Down	37·0	+2	NW	2	z₀	32	92	30	5	–	–	–	2-3	2-3	5700	3	*
Thorney Island	35·9	+4	N	3	z₀	37	97	36	6	–	–	4	0	1	–	1	*
Lympne	35·4	+2	–	0	o/pr	43	92	41	7	5	–	–	10	10	1200	1	§2
Manston	35·6	+6	SW'W	1	z₀	40	92	39	6	5	3	–	2-3	4-6	2000	1	*
Shoeburyness	35·7	+2	NW	3	bF+	35	97	34	1	–	–	–	0	0	–	1	*
Felixstowe	35·4	–12	WNW	2	m	36	92	34	4	2	7	–	1	2-3	4000	1	2
Gorleston	35·8	0	NW'W	2	z₀	36	92	34	5	5	–	–	2-3	2-3	1500	0	1
Mildenhall	36·6	+2	W	2	bf–	29	92	28	3	–	–	–	0	0	–	1	*
Cranwell	36·2	–4	W	3	m	33	92	31	4	–	4	–	0	0	–	0	*
Birmingham	37·4	0	NW	2	bf	37	97	36	2	–	–	–	0	0	–	1	*
Upper Heyford	37·0	–2	NW'N	3	bf+	31	97	29	3	–	–	–	0	0	–	1	*
Ross-on-Wye	37·4	0	NNE	1	m	28	97	27	4	5	–	–	Tr	Tr	2000	3	*
Hartland Point	36·5	0	ENE	3	b-bc	45	85	40	7	5	4	–	1	2-3	3000	1	3
Bristol	37·7	+2	SW	1	if	33	97	32	3	–	4	–	0	Tr	–	1	*
Portland Bill	36·0	+2	NE	3	bc	42	92	40	7	5	–	–	4-6	4-6	4000	1	3
Plymouth	37·1	+2	NW	2	z₀	37	85	33	5	–	4	–	0	Tr	–	0	2
The Lizard	36·2	+4	NNE	4	bc	41	75	35	7	8	4	–	2-3	4-6	2000	1	4
Scilly (St. Mary's)	36·6	+6	NE	3	bc	47	85	42	7	5	4	–	1	4-6	1500	1	3
Guernsey																	
Pembroke	38·1	+2	E'N	1	ebc	42	97	41	8	2	4	–	4-6	7·8	2500	1	1
Holyhead (Valley)	36·9	–2	SW'S	1	ebc	38	97	38	8	8	4	1	7·8	7·8	2000	1	2
Chester (Sealand)	36·7	–2	–	0	z₀	34	97	34	5	5	–	–	9+	9+	3000	1	*
Manchester	36·9	–4	SSE	1	bf+	37	97	36	2	–	–	–	0	0	–	1	*
Spurn Head	35·4	0	W	3	m	41	85	36	4	5	4	–	2-3	4-6	800	0	2
Catterick	34·6	–4	–	0	z₀	35	92	33	6	5	4	1	1	4-6	5700	1	*
Tynemouth	33·5	–6	WNW	3	bc	45	85	42	6	2	4	–	4-6	4-6	2500	1	3
St. Abbs Head	33·0	–16	W	4	c	50	75	43	7	5	–	–	9	9	4000	0	3
Leuchars	31·8	+6	W	4	c	47	92	45	8	5	4	–	4-6	9+	4000	1	*
Renfrew (Abbots I.)	34·5	0	SW'W	2	c/d	48	97	47	7	5	7	–	7·8	9	1200	1	*
Eskdalemuir	33·8	–6	NW'W	3	ebc	47	85	42	7	5	7	1	4-6	7·8	1500	1	*
Point of Ayre	36·2	–2	NW	3	c	49	92	47	8	5	7	–	7·8	9+	5400	0	3
Tiree	34·9	+4	W'N	4	dₚd₀	49	92	46	6	5	2	–	4-6	10	1500	1	3
Stornoway	30·6	+6	WSW	4	d₀d₀	50	97	50	6	5	–	–	9+	9+	1000	1	
Dalwhinnie	32·0	–2	WSW	2	bc	46	85	42	8	5	–	–	4-6	4-6	2500	0	*
Aberdeen †	28·6	0	WSW	3	c	53	75	43	8	–	4	–	0	9+	–	1	2
Wick	27·4	+18	WSW	3	c	51	92	48	9	5	1	–	9+	10	1500	1	*
Sumburgh	22·3	+14	W	7	d₀d₀	51	97	51	6	6	–	–	10	10	500	1	6
Blacksod Point	38·6	0	W	1	b-bc	46	97	45	8	5	–	–	2-3	2-3	2500	1	3
Malin Head	35·4	–6	W	3	c/pr	49	97	48	8	8	2	–	4-6	9	1500	1	3
Aldergrove	37·5	–2	SW'S	2	F	42	97	42	1	–	–	–	10	10	<150	1	*
Birr Castle	38·8	+2	SSE	1	bc	39	92	37	7	5	–	–	4-6	4-6	2500	1	*
Valentia Obsy.	39·5	+6	NE'E	1	c/jp	40	97	39	7	5	–	–	9+	9+	2500	1	2
Roches Point	39·0	+4	N	3	F+	40	97	39	3	–	–	–	10	10	<150	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 13th Hrs. (38)
London (Kew)	48	35	20	Tr	Tr	0·0
Croydon	47	33		–	–	
S. Farnborough	47	31	28	–	–	0·3
Boscombe Down	46	31	26	–	–	0·6
Thorney Island	49	36	30	Tr	–	*
Lympne	47	42	38	Tr	Tr	0·0
Manston	49	40	36	Tr	Tr	0·0
Shoeburyness	49	34	30	–	–	0·1
Felixstowe	50	35	32	0·1	–	0·7
Gorleston	49	36	34	0·5	–	1·6
Mildenhall	49	29	23	–	Tr	0·6
Cranwell	47	32	27	Tr	–	2·0
Birmingham	45	34	21	–	–	2·2
Upper Heyford	49	30	24	–	–	*
Ross-on-Wye	47	27	22	–	–	1·2
Hartland Point	49	42	39	–	–	4·9
Bristol	45	30	20	Tr	–	0·0
Portland Bill	47	41	*	–	–	*
Plymouth	48	35	23	–	–	1·6
The Lizard	49	40	*	–	–	5·4
Scilly (St. Mary's)	52	46	*	–	–	4·3
Guernsey						
Pembroke	50	40	*	–	Tr	7·0
Holyhead (Valley)	51	34	28	–	Tr	*
Chester (Sealand)	48	33	24	Tr	–	7·0
Manchester	45	31	25	–	–	*
Spurn Head	49	40	*	1	–	2·9
Catterick	48	32	28	–	–	7·4
Tynemouth	46	40	37	–	–	*
St. Abbs Head	47	43	*	–	–	
Leuchars	48	42	38	–	–	1·9
Renfrew (Abbots I.)	48	38	31	0·2	Tr	1·1
Eskdalemuir	47	37	33	–	Tr	5·5
Point of Ayre	56	49	*	–	–	3·8
Tiree	51	46	*	–	0·2	2·3
Stornoway	50	48	46	0·4	0·2	0·0
Dalwhinnie	44	43	36	–	–	0·2
Aberdeen †	48	43	40	–	–	0·3
Wick	50	41		0·4	–	*
Sumburgh	50	49	47	1	12	0·0
Blacksod Point	53	43	*	3	1	*
Malin Head	50	46		0·5	0·2	0·7
Aldergrove	47	39	30	–	–	3·4
Birr Castle	49	34	27	–	–	2·6
Valentia Obsy.	50	35	31	0·5	Tr	1·3
Roches Point	50	39	*	–	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 13th November 18h. G.M.T. — 01h. G.M.T. 14th November 07h. G.M.T.

III	13h. $C_L C_M$	13h. $wwVhN_h$	13h. DDFWN	18h. $C_L C_M$	18h. $wwVhN_h$	18h. DDFWN	01h. $C_L C_M$	01h. $wwVhN_h$	01h. DDFWN	07h. $C_L C_M$	07h. $wwVhN_h$	07h. DDFWN
109	52	53526	56668	02	21648	22558	52	22635	55868	5-	21638	56758
115				52	81735	57585	--	67109	53689	--	67109	24589
203										6-	03848	20828
206	57	02965	26566	57	02864	24527	52	02857	55518	53	01853	55614
210	57	02984	22328	57	02965	22428	52	02866	54628	57	02963	55625
220				50	01644	23314				52	02464	24428
230	86	02754	20256	5-	21857	20357	5-	02858	20358	5-	51857	24357
245	09	02890	24217	09	02890	23114	57	22864	22465	57	02864	22425
260	03	08490	24204	04	41490	24123	00	05690	20213	57	05664	20315
278	83	02854	07346	86	02844	26326	50	01861	26311	52	51647	23328
279				53	05564	20125	50	05662	22222	57	02755	22328
285	13	00861	30302							23	01634	30514
288	00	05690	16101	04	17490	20112	00	05690	16215	03	02890	15115
575				54	01853	28255	57	01753	24224	52	02746	22128
301	00	05590	30204	04	17490	32142	52	45355	12148	23	05652	26244
321	04	00790	28312	04	05590	28114	00	45390	28140	00	45390	00043
299	17	01754	32414	50	05663	32213	50	01743	24103	54	01763	24213
292	00	05690	28201	00	05690	24124	50	05563	00003	74	47363	16104
310												
614	03	05690	02303	00	47390	30110	00	47390	26140	00	43390	24141

III	13h. $C_L C_M$	13h. $wwVhN_h$	13h. DDFWN	18h. $C_L C_M$	18h. $wwVhN_h$	18h. DDFWN	01h. $C_L C_M$	01h. $wwVhN_h$	01h. DDFWN	07h. $C_L C_M$	07h. $wwVhN_h$	07h. DDFWN
333	50	02861	32215	50	00862	00022	50	05652	00002	5-	02855	00027
334	--	02863	10214	--	01771	06103						
340	00	17590	28210	00	05690	31215	5-	43454	30144	04	08490	12114
136	5-	02765	02315	53	05644	02227	5-	05644	31214	00	47190	24143
336	10	01763	04313	54	01762	04313				03	01790	04313
350	5-	05646	31226	57	05544	04326	00	08490	18100	00	41490	19142
368	5-	02867	32227	04	05690	04111	00	05690	00000	54	05663	28104
379	53	05545	02326	53	08445	02225	00	08490	04100	00	08490	32200
390	5-	45338	32348	03	08490	31444	00	45290	30340	00	43390	32140
382	73	05665	02225	53	05553	04117	00	08490	29100	00	47390	00040
438	5-	05648	32328	5-	05547	32327	8-	02547	32427	5-	05654	32414
430	53	05665	02327	5-	05568	02328	50	05655	02205	04	05690	04202
409	17	01762	37413	40	01761	02202	00	00690	05100	44	01761	06214

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 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 *	cmm₀	cbcm₀w	bcbm₀ffx
Croydon	cfofcm	cmcf	cffofx
Greenwich	cfm	cmm₀	cmbfFx
Camden Square	c	c	*
Kensington	ocm	om	*
Hampstead	o	ox	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0·4 Time 6h 14th. Min. 0·2 Time rest of period

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	48	35	20	Tr	Tr	0·0	*	*
Croydon	47	33		–	–		*	*
Greenwich	47	32	24	–	Tr	0·0	84	95
Westminster	48	35	30	–	–		88	97
Regents Park	48	34	27	–	–			95
Camden Square	46	34	28	–	–	*	*	98
Kensington	47	34	21	–	–		87	94
Hampstead	46	30	27	–	–		*	81

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

SECRET

Sunday 15th November 1942

No. 25578

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)	36.0	-14	SWW	2	bf	41	92	39	2	-	3	-	0	1	-
	Croydon	36.0	-12	-	0	bf	43	85	38	2	-	-	-	0	0	-
	S. Farnborough	36.8	-14	WNW	1	bf-	43	85	38	3	-	-	-	0	0	-
	Boscombe Down	36.6	-6	N'W	2	zo	47	85	43	6	5	-	-	4-6	4-6	3000
	Thorney Island	35.9	-10	EN	2	b	48	75	40	7	1	-	-	Tr	Tr	2500
	Lympne	35.7	-10	NNW	2	zo	46	85	40	6	1	-	1	Tr	1	2500
	Manston	35.1	-12	NNW	2	zo	47	85	42	6	7	-	2	1	7-8	2100
2	Shoeburyness	35.6	-8	NW	2	b-bc	48	75	40	5	-	7	-	0	2-3	-
	Felixstowe	35.1	-10	WNW	2	zo	49	65	37	5	-	3	-	0	7-8	-
	Gorleston	34.7	-6	NW	2	zo	50	65	39	6	5	3	-	4-6	7-8	1500
	Mildenhall	31.3	-8	W'S	2	m	46	75	37	4	5	3	-	1	7-8	5700
	Cranwell	34.8	-14	W'S	3	m	46	85	42	4	-	3	2	0	4-6	-
3	Birmingham	36.1	-8	NW	3	m	48	85	44	4	5	-	-	2-3	2-3	2500
	Upper Heyford	36.6	-8	NWN	2	bF	41	97	41	1	-	-	-	0	0	-
4	Ross-on-Wye	36.5	-10	NNW	1	b-bc	47	75	39	7	5	-	1	2-3	2-3	3500
5	Hartland Point	36.5	-6	NE	2	b	47	75	40	8	1	-	3	Tr	1	3000
	Bristol	37.0	-12	-	0	bf+	45	85	41	3	-	-	-	0	0	-
	Portland Bill	35.3	-2	NE	3	bc	48	92	46	7	5	-	-	4-6	4-6	4000
	Plymouth	36.1	-14	E	1	b	53	55	39	8	5	4	1	Tr	1	3000
	The Lizard	35.1	-8	NNE	2	b-bc	50	65	39	7	4	-	-	2-3	2-3	2000
	Scilly (St. Mary's)	36.1	-12	NE	3	b-bc	52	75	43	7	1	4	3	Tr	2-3	1800
	Guernsey															
6	Pembroke	37.5	-2	NE	1	c-bc	51	75	43	8	8	4	1	4-6	7-8	2500
7	Holyhead (Valley)	37.1	-10	NNW	2	c	50	85	47	8	7	-	-	9+	9+	1500
	Chester (Sealand)	36.3	-6	N	3	c	51	85	45	7	7	-	-	9+	9+	3000
8	Manchester	36.4	-8	SW	2	cf-	45	97	44	3	5	-	-	9	9	4000
10	Spurn Head	34.4	-14	W	3	m	47	85	42	4	7	3	-	4-6	4-6	2500
	Catterick	33.8	-8	W	2	c-bc	55	75	46	7	-	3	2	0	7-8	-
	Tynemouth	32.8	-12	W	3	bc	51	85	46	6	2	3	2	2-3	4-6	2500
11	St. Abbs Head	30.3	-16	WSW	4	c-bc	51	85	47	7	4	4	-	4-6	7-8	3500
	Leuchars	30.3	-20	W	4	c-bc	53	85	50	8	-	-	8	0	7-8	-
12	Renfrew (Abbots I.)	33.6	-14	W	2	c	51	85	46	8	5	-	-	4-6	9	800
	Eskdalemuir	32.7	-14	SSW	1	c-bc	50	75	42	8	5	-	6	2-3	7-8	1400
	Point of Ayre	35.7	-14	NW	4	c	51	85	48	8	5	-	-	7-8	9+	3000
13A	Tiree	34.3	-10	W'S	4	o	52	85	46	8	5	-	-	10	10	3500
13B	Stornoway	30.5	-6	WSW	4	id.	50	97	48	6	5	-	-	10	10	600
15	Dalwhinnie	32.2	-6	WSW	3	c	47	75	40	8	8	-	6	4-6	9	2500
	Aberdeen	28.7	-4	NW	2	b-bc	60	65	46	9	5	4	1	1	2-3	4000
	Wick	27.9	+4	SW'S	4	c	53	85	47	9	5	7	9	7-8	9+	2000
16	Sumburgh	22.2	-10	W'S	7	d.d.	50	97	50	6	5	-	-	10	10	500
17	Blacksod Point	38.1	-8	-	0	c-bc	52	85	48	8	9	-	-	7-8	7-8	1500
18	Malin Head	35.3	-18	W	3	rc	50	92	48	8	8	2	-	4-6	9+	1500
	Aldergrove	37.3	-10	SW'S	3	m/F	46	97	46	4	5	-	-	4-6	10	300
19	*Birr Castle	38.3	-8	NNW	2	c	47	85	43	7	5	2	-	7-8	10	2500
20	Valentia Obsy.	38.0	-6	N'W	1	c	49	85	45	8	5	-	-	9	9	4000
	Roches Point	38.8	-8	N	2	c	47	85	43	8	5	-	-	9	9	2500

OBSERVATIONS at 18h. G.M.T. 14th 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)	35.3	+4	WN	2	bF+	41	92	39	1	-	-	8	0	1	-	1	•
Croydon	35.2	+2	WSW	1	F+	39	92	37	2	-	-	-	10	10	<150	1	•
S. Farnborough	25.7	+4	NW'W	2	F+	40	97	39	0	-	-	-	10	10	<150	1	•
Boscombe Down	35.7	+2	-	0	bF+	41	97	40	2	-	-	-	0	0	-	0	•
Thorney Island	34.9	-4	N	1	m/F	40	85	36	4	-	-	-	0	0	-	1	•
Lympne	35.3	+4	-	0	zo	41	92	39	6	5	-	-	9+	9+	6500	1	§1
Manston	34.4	+8	NW	1	zo	44	85	40	5	-	3	-	0	9+	-	1	•
Shoeburyness	34.3	+2	WNW	2	m	45	85	39	4	5	3	-	7-8	9	4000	1	•
Felixstowe	34.3	0	W	1	zo	47	75	40	5	-	7	-	0	9	-	0	1
Gorleston	33.9	0	WNW	1	zo	47	75	40	5	5	-	-	9+	9+	1500	0	
Mildenhall	34.0	-4	SW	2	cf	44	85	40	3	-	3	-	0	9+	-	1	•
Cranwell	33.8	+2	W	2	m	43	92	42	4	-	-	-	0	0	-	0	•
Birmingham	34.5	-4	NW	3	zo	48	85	44	5	5	-	-	10	10	1500	1	•
Upper Heyford	35.0	-6	W	1	m	42	97	41	4	5	-	-	9	9	1500	1	•
Ross-on-Wye	35.3	-10	WSW	1	c	47	75	41	8	5	-	-	9+	9+	3000	1	•
Hartland Point	35.1	-8	NE	2	c	47	75	40	8	5	7	-	2-3	9+	2500	0	3
Bristol	36.2	+2	-	0	b-bcf+	41	92	39	3	-	3	5	0	2-3	-	1	•
Portland Bill	34.2	-6	N	3	bc	46	92	44	7	5	-	-	4-6	4-6	4000	1	3
Plymouth	35.6	-2	NE	2	zo	45	85	41	5	•	-	1	0	Tr	-	0	
The Lizard	34.6	-6	NNE	4	bc	46	75	39	7	4	4	-	4-6	4-6	2000	0	3
Scilly (St. Mary's)	35.4	-4	NE'E	4	b-bc	49	75	42	8	1	4	-	1	2-3	1800	1	3
Guernsey																	
Pembroke	35.8	-10	NE	2	c	48	85	44	8	5	-	-	9	9	2700	0	2
Holyhead (Valley)	36.2	-2	-	0	c	48	92	46	8	5	7	-	9+	10	1600	1	2
Chester (Sealand)	35.1	-4	WNW	1	zo	49	85	45	6	5	-	-	10	10	3800	0	•
Manchester	35.0	-2	W'N	3	zo	47	92	45	5	5	-	-	4-6	10	1100	1	•
Spurn Head	33.2	+2	SSW	2	m	45	85	42	4	-	3	-	0	4-6	-	0	2
Catterick	33.5	+2	WSW	1	b	44	92	42	6	5	-	1	Tr	1	3000	1	•
Tynemouth	31.5	+8	W	4	b-bc	50	85	47	6	5	-	-	2-3	2-3	2500	1	2
St. Abbs Head	29.7	-20	W	2	b	49	85	45	7	4	-	-	1	1	3500	0	4
Leuchars	30.5	+2	W	3	c-bc	44	97	44	8	4	-	6	0	7-8	-	1	•
Renfrew (Abbots I.)	32.8	0	W	4	c-bc	49	75	43	7	5	7	-	4-6	7-8	2500	1	•
Eskdalemuir	32.7	-2	WNW	4	b-bc	45	85	39	8	5	-	1	2-3	2-3	1200	1	•
Point of Ayre	34.7	+2	NWN	4	c	51	85	47	8	5	-	-	10	10	4000	0	3
Tiree	33.6	-2	SWW	4	c	51	85	46	8	5	-	-	4-6	10	2500	1	3
Stornoway	29.0	-2	WSW	4	id.	51	85	47	7	5	-	-	10	10	1200	1	
Dalwhinnie	31.5	-2	WSW	3	c-bc	47	75	40	8	8	-	-	7-8	7-8	2500	0	•
Aberdeen	29.2	-6	WNW	2	b	48	75	41	8	-	4	8	0	Tr	-	1	1
Wick	27.6	+6	SWW	4	c-bc	50	85	46	9	5	-	-	7-8	7-8	2000	0	•
Sumburgh	22.6	+4	W	8	c	50	92	50	7	5	-	-	10	10	1200	1	4
Blacksod Point	37.5	+2	W	3	id.	49	97	49	8	6	-	-	7-8	7-8	1500	1	3
Malin Head	35.0	0	NW	4	c	50	75	42	8	8	2	-	7-8	10	1500	1	3
Aldergrove	36.4	+6	W	1	c	48	85	44	8	5	-	-	10	10	1700	1	•
*Birr Castle	37.3	-2	S	1	c	45	92	43	7	5	-	-	10	10	2500	1	•
Valentia Obsy.	38.5	+6	NE'E	1	cjf	47	92	45	8	5	-	-	10	10	4000	1	0
Roches Point	37.5	-2	N	1	bc	45	85	41	8	5	-	5	Tr	4-6	2500	1	2

PAST 24 HOURS.

Stations	Weather 7h.–13h. 14th (39)	Weather 13h.–18h. 14th (40)	Weather 18h. 14th to 1h. 15th (41)	Weather 1h.–7h. 15th (42)
London (Kew)	bFexf	bfFw	offcw	cffmw
Croydon	oFxbf	bfof	offbf+	of
S. Farnborough	ofexbcz	bbcfmof	oFccmw	cmwgf
Boscombe Down	bmbcm.	bcbmobf	bfmoc	cmodom
Thorney Island	bwbm.	bz.bfz	femcm.	bccm.w
Lympne	bz.	bbcz.cm	cbccm.	cmocff
Manston	cm.	bccm.	cm.f	of
Shoeburyness	bFom	bcm.	bcgbm.	F
Felixstowe	bcmcz.	bcz.cz	cbccmbf	bf
Gorleston	cz.	z.	cm.	boff
Mildenhall	m	czcf	bfoF	oFof
Cranwell	bmbcm	b,c,bm	bf.FbF.	bf
Birmingham	fbbcm	ccz	c	c
Upper Heyford	bf. F	bFcmom	cmcm.	cmid.mfc
Ross-on-Wye	bmzb	bbcc	co	ofc
Hartland Point	bc	bcc	c	bcc
Bristol	bcbiff	bfbmbl	cm	cmd.d.
Portland Bill	bc	bc	bcbc	bcc
Plymouth	bm.bm	bz.	b,c,bm.	bm.bmx
The Lizard	bc	bc	bcw	bcw
Scilly (St. Mary's)	bc	bcb	bcc	c
Guernsey				
Pembroke	c	cbcc	cwm.	c
Holyhead (Valley)	bcc	c	c	cid.c
Chester (Sealand)	cfbcc	c	cm.	cmm.
Manchester	FF	ffmcm.	cd.d.m.	cid.m.
Spurn Head	cm	bcm	bm	bcm
Catterick	c	ckcb	bm.w	bm.b
Tynemouth	bc	bc	bcb	bbc
St. Abbs Head	cbcc	bcb	bcb	bbc
Leuchars	cbcc	c	ceow	bwbcw
Renfrew (Abbots I.)	bcc	c	cm.	cmid.
Eskdalemuir	bcc	cbc	bc	bcc
Point of Ayre	c	c	id.c	c
Tiree	d.d.id.o	oc	crcd.	d.drd.
Stornoway	cid.m.	cid.	cid.id.d.m.	cd.d.m.bcc
Dalwhinnie	bcc	c	*	co
Aberdeen	cbc	bcb	bpw	cbbc
Wick	c	c	cbcc	cbc
Sumburgh	cd.d.m.	cd.d.m	cd.d.	cd.d.prbc
Blacksod Point	d	d	•	d
Malin Head	pr	r	c	d
Aldergrove	Fdfff	cmcmoc	cidfc	c
*Birr Castle	c	c	•	c
Valentia Obsy.	c	c	pr	pr
Roches Point	f	bc	b	d

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 15th November 1942

Districts	Forecast
1 S.E. England	Light Westerly wind slowly freshening later from Northwest; dull: some Fog and slight local drizzle; brighter periods tomorrow; rather cold.
2 E. England	Light to moderate West wind, becoming Northwest, mainly Fair but with cloudy periods; probably brighter periods tomorrow; rather cold.
3 E. Midlands	As 1
4 W. Midlands, 5 S.W. England, 6 South Wales	Light to moderate Northeast to North wind; cloudy or dull; occasional slight drizzle; rather cold.
7 North Wales, 8 N.W. England, 9 N. Midlands	Moderate to fresh Westerly winds, veering Northwest; mainly cloudy, some occasional light rain or drizzle today; brighter periods tomorrow; becoming colder.
10 N.E. England, 11 S.E. Scotland	Fresh Westerly winds veering Northwest; mainly Fair; some bright periods; rather cold to cold.
12 S.W. Scotland & Isle of Man, 13A W. Scotland	As 7-9.
13B N.W. Scotland ↓, 14 Mid Scotland, 15 N.E. Scotland ↓	Strong Westerly wind, gale round coast, severe at first off Northeast Scotland. Wind veering Northwest to North moderating tomorrow; some rain and hail showers; brighter periods; cold
16 Orkneys and Shetlands ↓	As 13B-15.
17 N. W. Ireland, 18 N. E. Ireland	As 7-9.
19 S. E. Ireland, 20 S. W. Ireland	Light West to Northwest winds; mainly cloudy; local drizzle; becoming somewhat colder.

GENERAL INFERENCE

The centre of highest pressure now Westward of Ireland, is expected to be transfered somewhat to the North, and feeble troughs of relatively lower pressure associated with a deep depression well Northward of Britain, will move down over the North Sea and most of the British Isles. Apart from some drizzle in places, conditions will continue mainly dry and a brighter but colder type of weather will be established by tomorrow.

FURTHER OUTLOOK

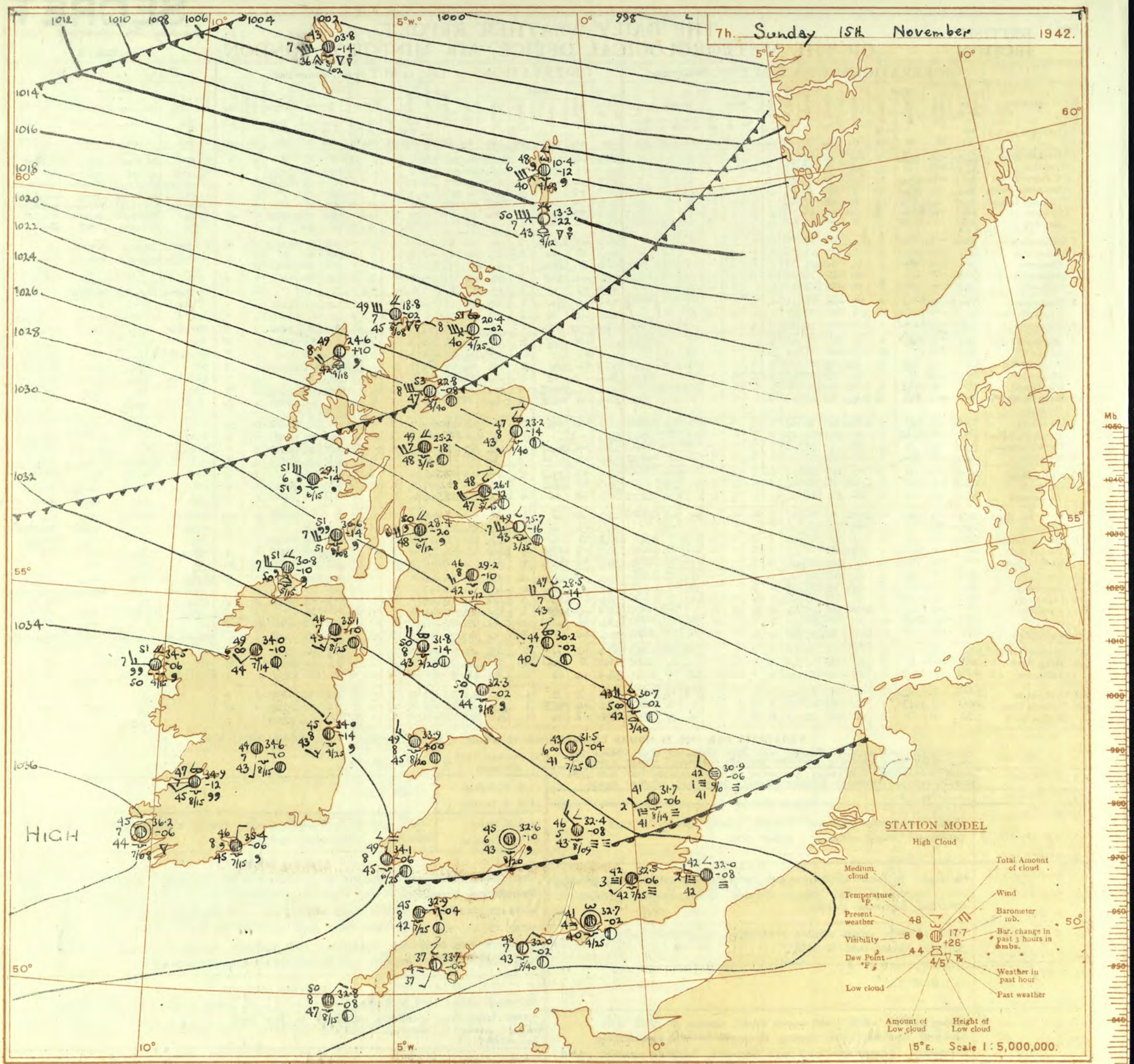
Fair and rather cold in England and Wales, with some night frost; probability of some local fog; probably showery in Scotland.

↓ Gale warning in operation in districts 13(b) 15 & 16. Times of issue 2130 on 13/11/42 & 1725 on 14/11/42.

Forecasts issued at 10·30

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

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



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

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

Explanation of Frontal Lines shown on Charts

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

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

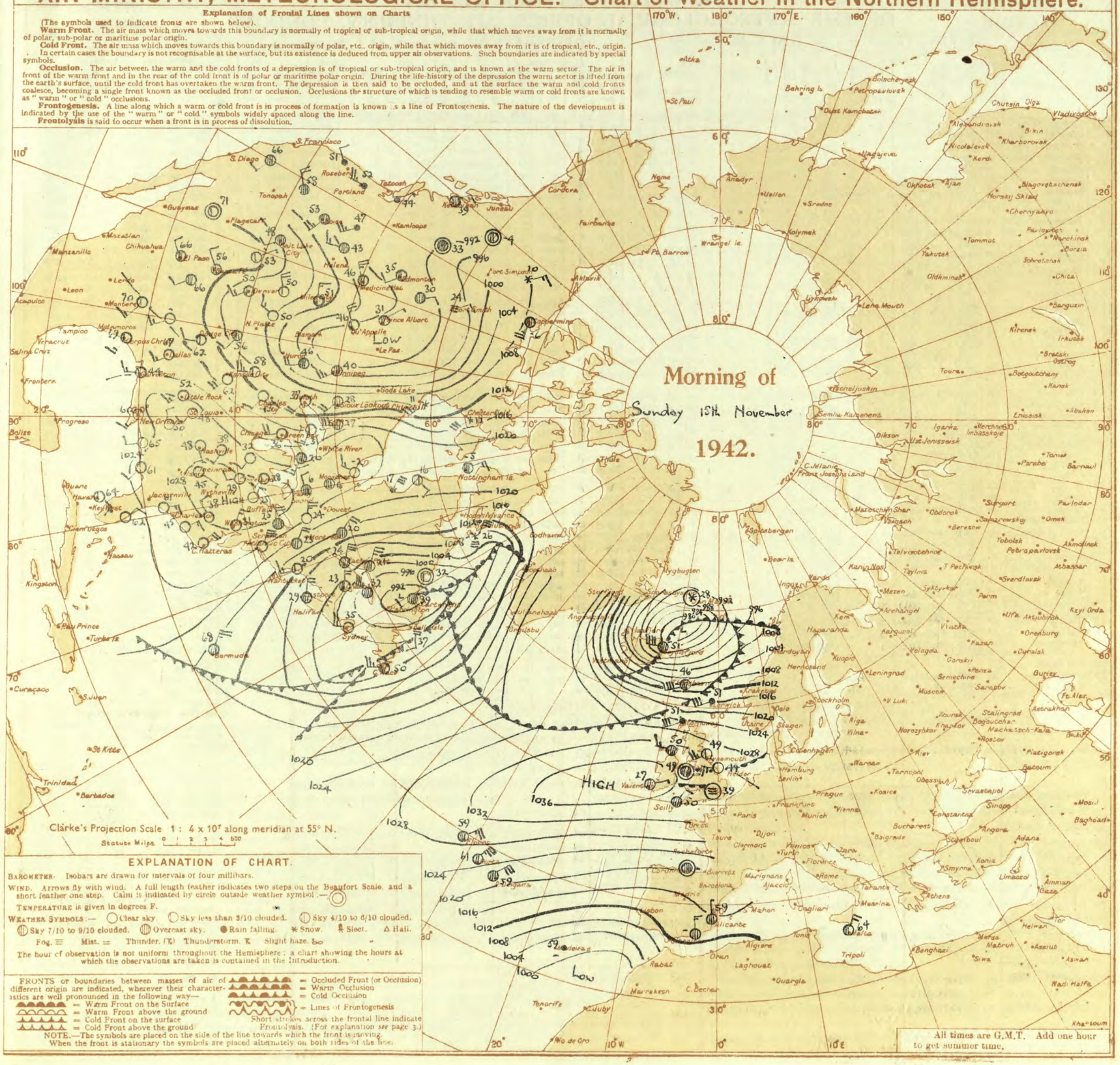
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

Fog. Mist. Thunder. Thunderstorm. Slight haze.

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

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

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

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

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

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

BRITISH SECTION

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

Sunday 15th November 1942

No. 29578

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)	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	*	*	*	*	*	38	*	*	*	*	*	*	*	*	*
	Croydon	290	34·9	-4	-	0	f	39	97	39	2	-	-	-	10	10	<150
	S. Farnborough	226	34·7	-6	WNW	1	m	37	97	36	4	5	-	-	10	10	1600
	Boscombe Down	417	34·9	-8	-	0	zo	42	92	39	5	5	-	-	10	10	1100
	Thorney Island	10	34·4	-4	-	0	zo	41	92	40	5	-	3	-	0	7-8	-
	Lympne	283	34·5	-6	WNW	1	zo	41	92	39	5	-	7	-	0	10	-
	Manston	154	33·6	-6	WNW	1	c-bcf+	43	92	41	2	5	-	-	7-8	7-8	5700
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	33·1	-10	W'S	2	bf	45	92	43	3	-	-	-	0	0	-
	Gorleston	5	32·9	-10	WNW	2	zo	43	92	41	5	-	-	-	9+	9+	1500
	Mildenhall	15	33·2	-10	SW	2	F+	37	97	37	0	-	-	-	10	10	<150
	Cranwell	203	32·8	-14	W	1	bF-	38	97	38	1	-	-	-	0	0	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	34·1	-6	N'W	1	zo	45	97	45	5	5	-	-	10	10	900
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	34·1	-10	N	3	c	48	85	44	8	5	-	-	9+	9+	2500
	Bristol	209	35·2	-4	-	0	m	42	97	41	4	5	-	-	10	10	2500
	Portland Bill	32	34·0	-20	E	3	bc	42	92	40	7	5	-	-	4-6	4-6	4000
	Plymouth	82	35·8	-2	NE	1	zo	40	97	39	6	-	4	-	0	Tr	-
	The Lizard	240	34·3	-8	NE'N	4	b-bc	45	92	43	8	4	-	-	2-3	2-3	2000
	Scilly (St. Mary's)	163	34·8	-4	NE	2	c	50	85	45	8	5	-	-	9+	9+	1500
	Guernsey	175															
6	Pembroke	142	35·2	-8	NE'N	3	c	49	85	45	8	5	-	-	10	10	2500
7	Holyhead (Valley)	32	35·0	-10	-	0	c	49	92	47	8	5	-	-	10	10	1400
	Chester (Sealand)	16	34·1	-10	NW	1	m	48	92	46	4	5	-	-	10	10	1700
8	Manchester	235	34·2	-10	SW	1	ido	46	97	45	5	5	-	-	10	10	1100
10	Spurn Head	29	32·4	-8	WNW	5	m	44	97	44	4	-	-	-	0	0	-
	Catterick	175	32·3	-16	-	0	zo	37	97	37	6	-	-	-	0	0	-
	Tynemouth	108	30·8	-12	WNW	3	b	45	85	42	6	-	-	-	0	0	-
11	St. Abbs Head	280	28·5	-16	WSW	5	b	49	75	42	7	5	-	-	Tr	Tr	4000
	Leuchars	36	28·3	-22	W	3	b	42	97	41	8	-	4	-	0	Tr	-
12	Renfrew (Abbots I.)	19	30·8	-22	WSW	4	zo	48	85	44	6	5	-	-	9	9	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	34·0	-10	NW	4	e	51	85	46	8	5	2	*	7-8	10	1800
13A	Tiree	44	31·3	-14	WSW	4	ido	51	85	47	8	5	-	-	10	10	2500
13B	Stornoway	15	25·2	-14	SW	6	dodo	51	97	50	6	5	-	-	10	10	700
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	26·3	-30	-	0	b	42	92	39	8	-	4	-	0	Tr	-
	Wick	114	23·0	-30	SW	4	c	50	85	46	8	5	7	-	4-6	10	2500
16	Sumburgh	19	17·7	-24	WSW	8	dodo	51	97	50	6	5	-	-	10	10	600
17	Blacksod Point	18	35·7	-18	WNW	2	c-bc	50	92	48	8	5	-	-	7-8	7-8	2500
18	Malin Head	84	32·7	-16	W	3	c	50	85	46	8	8	-	-	10	10	1500
	Aldergrove	268	34·4	-18	WSW	1	c	46	85	45	8	5	-	-	10	10	2000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	36·9	-10	E'N	1	bd/pr	47	92	45	8	5	-	-	4-6	4-6	2500
	Roches Point	22	36·6	-6	N	3	c-bc	46	97	40	8	5	-	-	7-8	7-8	2500

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)	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)	32·5	-4	WSW	1	m	40	97	39	4	5	-	-	9+	9+	2500	1	*
Croydon	32·5	-6	SW	1	cf-	42	97	42	3	5	-	-	9+	9+	2500	1	*
S. Farnborough	32·6	-6	-	0	of+	40	97	39	3	5	-	-	10	10	1500	1	*
Boscombe Down	32·9	-6	-	0	dodo	44	97	43	5	5	2	-	7-8	10	800	0	*
Thorney Island	32·7	-2	-	0	m	41	92	40	4	5	3	-	4-6	7-8	2500	1	*
Lympne	32·7	-6	W'N	1	cf	40	97	40	2	-	3	-	0	9	-	1	§
Manston	32·0	-8	WNW	1	cf+	42	97	42	2	-	1	-	0	10	-	1	*
Shoeburyness	32·5	-6	W'N	2	F+	41	97	40	1	-	-	-	10	10	<150	1	*
Felixstowe	31·5	-10	W'S	2	bf+	40	97	39	3	-	-	-	0	0	-	1	1
Gorleston	30·9	-6	NW'W	2	F	42	97	41	1	-	-	-	10	10	<150	0	1
Mildenhall	31·7	-6	WSW	2	of+	41	97	41	2	5	-	-	10	10	1400	1	*
Cranwell	31·1	-8	W'N	1	m	44	97	43	4	5	-	-	10	10	1400	0	*
Birmingham	32·2	-4	NW	4	c	46	92	42	6	5	-	-	10	10	800	1	*
Upper Heyford	32·4	-8	NNW	3	c/f	46	92	43	5	5	1	-	10	10	900	0	*
Ross-on-Wye	32·6	-10	-	0	c	45	92	43	6	5	-	-	10	10	2000	1	*
Hartland Point	32·9	-4	E	3	c	45	85	42	8	5	-	-	9+	9+	2500	0	3
Bristol	33·6	-4	W	1	o/d	43	97	43	6	5	-	-	10	10	1500	1	*
Portland Bill	32·0	-2	NE	2	c-bc	43	92	43	7	5	-	-	7-8	7-8	4000	1	3
Plymouth	33·7	-6	SSW	1	m	37	97	37	4	5	4	1	1	7-8	2500	0	1
The Lizard	32·2	-8	NNE	3	bc	43	92	41	8	8	6	-	4-6	4-6	2000	1	3
Scilly (St. Mary's)	32·8	-8	NE'E	2	c	50	85	47	8	5	-	-	10	10	1500	1	3
Guernsey																	
Pembroke	34·1	-6	N'E	4	c	49	85	45	8	5	1	-	9	10	2500	0	2
Holyhead (Valley)	33·9	0	NW	3	c	49	85	45	8	5	-	-	10	10	2000	1	2
Chester (Sealand)	32·6	+2	WNW	2	zo	49	85	44	6	-	7	-	0	10	-	0	*
Manchester	32·3	-2	WNW	3	zo	47	85	43	6	5	-	-	10	10	2500	1	*
Spurn Head	30·7	-2	W'N	4	zo	43	97	42	5	7	4	-	2-3	4-6	4000	1	2
Catterick	30·2	-2	SSW	1	c-bc	44	85	40	7	-	7	1	0	7-8	-	1	*
Tynemouth	28·5	-14	W	4	b-bc	47	85	43	7	-	4	-	0	2-3	-	1	3
St. Abbs Head	25·7	-16	WSW	5	b-bc	49	85	43	7	4	4	-	2-3	2-3	3500	0	4
Leuchars	26·1	-12	SW	4	c	48	97	47	8	5	4	8	7-8	9+	4500	1	*
Renfrew (Abbots I.)	28·4	-20	WSW	4	ido	50	92	48	6	5	2	-	9	10	1200	1	*
Eskdalemuir	29·2	-10	W'S	3	c	46	85	42	8	5	-	-	9	9	1200	1	*
Point of Ayre	31·8	-14	NW	4	c	50	75	43	8	5	7	-	1	10	2000	0	4
Tiree	29·1	-14	W'N	6	dr	51	97	51	6	5	-	-	9	10	1500	1	4
Stornoway	24·6	+10	SW	4	c-bc	49	75	42	8	8	-	-	4-6	7-8	1800	1	3
Dalwhinnie	25·2	-18	WSW	4	o	49	92	48	7	3	2	-	7-8	10	1500	0	*
Aberdeen †	23·2	-14	SW'S	1	c-bc	47	85	43	8	5	7	8	Tr	7-8	4000	1	1
Wick	20·4	-2	W'S	7	c-bc	51	65	40	8	5	7	-	4-6	7-8	2500	1	*
Sumburgh	13·3	-22	W	8	bc/pr	50	75	43	7	8	6	-	4-6	4-6	1200	1	4
Blacksod Point	34·5	-6	W	3	dodo	51	97	50	7	6	2	-	4-6	10	1800	1	2
Malin Head	30·8	-10	W	5	ido	51	97	50	7	8	2	-	7-8	10	1500	1	3
Aldergrove	33·1	-10	SW'S	3	c	46	92	43	7	3	-	-	10	10	2500	1	*
Birr Castle	34·6	-10	S	1	c	44	97	43	7	5	-	-	10	10	1500	1	*
Valentia Obsy.	36·2	-6	-	0	c	45	97	44	7	5	-	-	9+	9+	800	1	1
Roches Point	35·4	-6	N	2	ido	46	97	45	8	5	-	-	9+	9+	1500	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 14th Hrs. (38)
London (Kew)	43	37	29	-	Tr	1·2
Croydon	44	38	33	-	-	1·6
S. Farnborough	46	36	33	-	Tr	3·9
Boscombe Down	47	38	30	-	0·1	6·4
Thorney Island	50	37	30	Tr	-	*
Lympne	48	38	31	-	-	2·6
Manston	49	42	40	-	-	3·9
Shoeburyness	49	39	32	-	-	5·3
Felixstowe	52	39	35	-	-	5·1
Gorleston	50	40	38	-	-	4·1
Mildenhall	50	36	31	0·5	Tr	4·0
Cranwell	47	36	34	-	Tr	4·7
Birmingham	48	46	45	-	-	0·8
Upper Heyford	44	45	38	-	Tr	*
Ross-on-Wye	51	44	42	-	Tr	6·5
Hartland Point	50	45	40	-	-	6·7
Bristol	48	35	28	-	Tr	3·6
Portland Bill	48	40	*	-	-	*
Plymouth	54	36	28	-	-	7·0
The Lizard	51	42	*	-	-	7·8
Scilly (St. Mary's)	52	49	*	-	-	7·5
Guernsey						
Pembroke	53	46	*	-	-	5·7
Holyhead (Valley)	52	46	46	-	Tr	*
Chester (Sealand)	52	48	46	-	-	3·0
Manchester	48	45	45	-	0·2	*
Spurn Head	49	42	*	-	Tr	2·7
Catterick	57	34	26	-	-	5·8
Tynemouth	52	45	40	-	-	*
St. Abbs Head	52	41	*	-	-	*
Leuchars	53	40	36	Tr	-	5·2
Renfrew (Abbots I.)	52	47	43	Tr	-	1·6
Eskdalemuir	52	43	36	-	-	4·4
Point of Ayre	51	49	*	-	Tr	0·1
Tiree	52	50	*	Tr	0·3	0·0
Stornoway	52	48	46	Tr	0·5	0·0
Dalwhinnie	49	45	40	-	-	2·1
Aberdeen †	61	40		-	-	
Wick	54	48	45	-	-	*
Sumburgh	51	50	45	Tr	0·4	0·0
Blacksod Point	53	48	*	0·2	0·1	*
Malin Head	50	48		0·4	Tr	0·3
Aldergrove	48	45	44	0·1	-	0·0
Birr Castle	48	41	36	-		1·2
Valentia Obsy.	50	45		-	0·1	0·1
Roches Point	51	46	41	Tr	0·1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 14th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 15th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	52	02744	57855	5-	03748	53628	5-	14648	54828	52	05562	56762
115	02	52738	57558				52	61735	87668	52	25735	81688
203												
206	53	02965	55625	2-	01864	55624	53	02854	55625	50	01864	57625
210	73	02952	54625	53	02954	21325	50	01962	22402	5-	02965	24225
220	52	02845	20328							52	02644	25428
230	5-	02858	18115	5-	02858	18358	5-	02848	22458	5-	51748	21458
245	54	02951	24415	00	01990	24114	04	01990	24101	57	02853	22416
260	50	05645	24227	54	05663	20314	50	05665	20415	5-	02756	23416
278	8-	02845	26456	5-	02848	25558	52	02745	25368	57	02755	25328
279	5-	02856	21426	5-	02857	28327	50	05690	01854	57	02855	22426
285	23	05633	30514									
288	06	02730	21325	00	01890	18311	00	05690	16303	03	02890	15215
575	5-	02845	24155	5-	51638	24258	5-	05648	22228	5-	05647	20227
301	5-	05658	28328				5-	51648	30358	5-	02748	28358
321	00	41480	28245	00	47390	00014	00	05590	24200	54	05654	26214
299	43	02664	24115	54	05551	24102	00	05690	24100	54	01763	22214
292	04	08490	00044	00	05690	24211	00	45290	26140	00	45190	18140
310												
614	03	41430	24143	00	47390	24115	50	41454	24145	5-	05657	00017

III	13h. G.M.T. 14th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 15th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	7-	01854	30214	5-	02758	00058	5-	03748	02228			
334	--	05644	04114	--	05544	32115						
340	5-	02747	30247	5-	02748	30228	5-	05548	31328	5-	05548	28228
136	03	08490	22247				--	46109	24249	5-	41448	25248
336	53	02754	32316	50	02755	04316						
350	03	08490	22143	00	45190	19140	--	45248	18146	5-	05548	00048
368	14	00661	24102	00	01690	00014				5-	05638	00028
379	53	05545	28326	5-	05548	18228	5-	55538	04328	5-	51548	30328
390	07	41430	28243	07	47390	24115	00	47090	00040	5-	47109	20149
382				--	47009	00049	5-	08448	00048	5-	05648	30158
438							53	02654	32128	57	01563	00014
430	50	05663	08103	00	08490	32100	07	05590	00027	07	05590	32126
409	04	01790	03302	40	01761	02201	5-	05658	04228	54	01754	06105

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
Kew *	bFexf	bfFw	offewff
Croydon	oFxbf	bfof	ofb of
Greenwich	FF	FF	foffw
Camden Square	o	o	*
Kensington	bef	bef	*
Hampstead	benf	of	of

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 1·9 Time 1h 14th
Min. 0·2 Time 23h 14th

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	43	37	29	-	Tr	1·2	*	*
Croydon	44	38	33	-	*	1·6	*	*
Greenwich	42	38	31	-	Tr	0·5	91	94
Westminster	43	36	32	*	*		98	97
Regents Park								
Camden Square	42	40	30	-	*	*	*	97
Kensington	44	33		-	Tr			95
Hampstead	48	38	31	-	*		*	97

BRITISH SECTION

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

SECRET

Monday 16th November 1942

No. 29579

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)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	31·1	−10	W'S	1	m	46	92	44	4	5	–	–	10	10	800
	Croydon ...	31·4	−10	W	1	of	47	92	45	3	5	–	–	10	10	1300
	S. Farnborough	31·6	−6	WNW	1	Z_0	46	97	45	5	5	2	–	9+	10	1200
	Boscombe Down	32·2	−6	NW	1	c/d	46	97	45	5	5	2	–	9	10	900
	Thorney Island	31·7	−10	NW	1	Z_0	48	85	45	5	5	–	–	10	10	1500
	Lympne ...	30·9	−14	W	1	Z_0	48	85	45	6	–	3	–	0	7·8	–
	Manston ...	30·3	−14	WNW	2	m	43	85	43	4	5	–	–	4-6	4-6	3500
2	Shoeburyness ...	30·0	−8	W'S	2	m	47	85	44	4	5	–	–	10	10	1500
	Felixstowe ...	30·4	−12	WSW	2	Z_0	47	85	44	5	5	–	–	10	10	1500
	Gorleston ...	29·9	−8	W'N	2	Z_0	49	75	42	5	5	–	–	10	10	1500
	Mildenhall ...	30·4	−10	WSW	2	m	47	92	44	4	5	–	–	9+	9+	1800
	Cranwell ...	29·2	−12	W	3	m	50	85	45	4	–	3	2	0	9	–
3	Birmingham ...	30·8	−8	NW	3	Z_0	48	85	44	5	5	–	–	9+	9+	1500
	Upper Heyford	31·2	−6	NNW	2	Z_0	47	85	42	5	5	–	–	10	10	1500
4	Ross-on-Wye	32·0	−4	NW	2	0	48	85	44	8	5	–	–	10	10	2500
5	Hartland Point	31·9	−8	NNE	3	c	49	92	46	8	5	–	–	9+	9+	1500
	Bristol ...	32·8	−10	NW	2	Z_0	47	85	44	6	5	–	–	10	10	1500
	Portland Bill ...	31·3	−18	N	2	0	47	92	45	7	5	–	–	10	10	2500
	Plymouth ...	32·7	−10	–	0	Z_0	46	92	43	6	5	–	–	10	10	2500
	The Lizard ...	31·8	−4	ENE	3	c	47	92	45	8	8	2	–	9	10	1500
	Scilly (St. Mary's)	32·4	−6	NE'N	3	0	50	92	48	7	5	–	–	10	10	1000
	Guernsey ...															
6	Pembroke ...	33·1	−6	N'E	4	c	49	85	45	8	5	1	–	9+	10	1500
7	Holyhead (Valley)	32·9	−4	NN'N	2	c	51	85	47	8	7	–	–	9+	9+	2000
	Chester (Sealand)	31·1	−10	N	3	c	51	75	45	8	5	7	–	7·8	10	3500
8	Manchester ...	30·8	−14	W'N	3	Z_0	49	85	43	6	5	–	–	10	10	2500
10	Spurn Head ...	28·3	−14	W	4	Z_0	50	75	43	6	5	4	2	4-6	7·8	4000
	Catterick ...	28·2	−14	W	2	c	55	75	45	8	1	9	–	1	9+	1500
	Tynemouth ...	26·1	−20	W	6	e-bc	51	85	47	7	5	3	–	4-6	7·8	3000
11	St. Abbs Head	23·7	−28	W	5	bc	53	85	48	8	5	4	–	2-3	4-6	3500
	Leuchars ...	24·8	−2	W	4	b-bc	53	85	46	9	1	–	2	Tr	2-3	2000
12	Renfrew (Abbots I.)	28·3	−2	WSW	2	e-bc	53	65	44	8	8	3	8	7-8	7·8	2000
	Eskdalemuir ...	27·7	−14	W	4	e-bc	51	75	43	8	8	–	2	4-6	7·8	1700
	Point of Ayre ...	30·9	−8	NW	4	c	52	92	49	8	6	7	2	7-8	9+	600
13A	Tiree ...	30·4	+4	NW'N	5	b-bc	50	75	41	7	1	–	3	Tr	2-3	3500
13B	Stornoway ...	26·9	+10	WNW	5	pr	47	85	41	7	2	6	–	4-6	9	1400
15	Dalwhinnie ...	27·5	−2	WSW	4	bc	47	65	35	8	1	4	2	Tr	4-6	2500
	Aberdeen ...	23·7	+8	W'N	3	b-bc	51	55	38	8	7	–	9		2-3	4000
	Wick ...	20·6	+2	WNW	9	b-bc	49	55	39	6	2	–	–	2-3	2-3	2000
16	Sumburgh ...	23·3	+10	WNW	9	pr	45	75	38	7	8	–	–	9	9	1500
17	Blacksod Point	34·7	−2	N	3	df	51	97	50	4	–	2	–	10	10	800
18	Malin Head ...	32·2	+10	NN'N	3	c	50	75	42	8	8	–	–	9+	9+	1500
	Aldergrove ...	32·2	−10	NW	3	c	51	85	47	9	5	–	8	4-6	9	2000
19	Birr Castle ...	34·1	−8	WNW	2	c	51	85	47	8	5	1	–	7-8	10	2500
20	Valentia Obsy.	35·7	−4	NW	3	c	50	85	46	8	5	7	–	9+	10	2500
	Roches Point	34·6	−8	N	3	c	50	85	46	8	5	–	–	9	9	1500

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

District	Stations	Barom. at M.S.L. mt. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea 0–9 (32)
1	London (Kew)	30·4	0	WSW	1	m	46	85	43	4	5	–	–	9	9	4000	1	*
	Croydon ...	30·3	0	WNW	1	of	47	85	43	3	5	–	–	10	10	1500	1	*
	S. Farnborough	30·6	+4	WNW	1	Z_0	46	85	43	5	5	–	–	10	10	2000	1	*
	Boscombe Down	30·8	−2	NW	1	Z_0	46	85	42	6	5	2	–	9	10	1600	0	*
	Thorney Island	30·3	−2	NW	1	of-	47	97	45	3	5	–	–	10	10	1500	1	*
	Lympne ...	29·9	−2	NW	1	m	45	92	43	4	5	–	–	10	10	2000	1	§1
	Manston ...	29·7	+6	W'N	1	m	46	92	44	4	5	–	–	10	10	1200	1	*
2	Shoeburyness ...	29·7	−2	W	2	c	46	92	43	5	5	–	–	10	10	2500	1	*
	Felixstowe ...	28·9	0	SW'N	2	m	44	92	43	4	–	–	–	0	0	–	1	1
	Gorleston ...	27·8	0	W	2	Z_0	43	85	40	6	–	–	–	0	0	–	0	
	Mildenhall ...	28·5	−2	WSW	3	m	42	92	40	4	–	–	8	0	2-3	–	1	*
	Cranwell ...	28·6	+2	W'N	3	m	45	92	43	4	–	–	8	0	4-6	–	1	*
3	Birmingham ...	30·4	+2	NW	4	0	48	85	44	6	5	–	–	10	10	800	1	*
	Upper Heyford	29·8	−2	NW'N	3	Z_0	47	85	43	6	5	–	–	10	10	1200	1	*
4	Ross-on-Wye	30·6	−6	N	1	o/pr	47	85	43	7	5	–	–	10	10	2000	1	*
5	Hartland Point	31·3	0	N	2	c	49	75	42	8	5	–	–	9+	9+	2500	0	3
	Bristol ...	31·2	−2	W'N	2	m	46	92	44	4	5	–	–	10	10	1800	1	*
	Portland Bill ...	30·8	−4	N	2	0	46	92	44	7	5	–	–	10	10	2500	1	3
	Plymouth ...	32·1	+2	SE	1	of+	46	97	45	3	5	–	–	10	10	1000	0	2
	The Lizard ...	31·9	+2	N'E	2	pr	47	97	47	7	5	–	–	10	10	1000	1	3
	Scilly (St. Mary's)	32·2	+2	N'E	4	0	50	92	48	7	5	–	–	10	10	1000	1	2
	Guernsey ...																	
6	Pembroke ...	32·6	+2	N	3	c	49	85	45	8	5	–	–	9+	9+	2000	0	2
7	Holyhead (Valley)	32·4	+2	NNW	2	c	51	85	47	7	5	7	–	9	10	2300	1	2
	Chester (Sealand)	30·8	0	NW	3	o/d	50	92	48	6	5	–	–	10	10	2500	1	*
8	Manchester ...	30·9	+6	W	4	Z_0	49	92	47	6	5	–	–	4-6	10	1400	1	*
10	Spurn Head ...	28·1	+10	WNW	5	Z_0	48	85	45	6	–	–	5	0	2-3	–	0	3
	Catterick ...	29·1	+20	W	1	e-bc	48	75	46	7	–	–	6	0	7-8	–	1	*
	Tynemouth ...	27·9	+20	W	4	b-bc	47	85	42	7	–	4	–	0	2-3	–	1	
11	St. Abbs Head	26·9	+20	WSW	5	b	47	75	41	6	5	–	–	1	1	4000		
	Leuchars ...	27·9	+30	W	3	bc	47	85	41	8	1	3	8	2-3	4-6	2000	1	*
12	Renfrew (Abbots I.)	30·1	+20	WSW	2	e-bc	49	65	36	6	4	3	8	2-3	7-8	2500	1	*
	Eskdalemuir ...	29·2	+16	NE	3	b-bc	43	75	36	7	5	–	1	1	2-3	1800	1	*
	Point of Ayre ...	31·4	+8	NNW	6	b	50	75	43	8	4	4	–	1	1	2000	1	5
13A	Tiree ...	32·6	+14	NW'N	5	e-bc	48	85	44	7	8	–	8	7-8	7-8	2500	1	5
13B	Stornoway ...	30·7	+20	NNW	5	Z_0	45	75	38	6	5	–	–	9+	9+	3000	1	
15	Dalwhinnie ...	28·5	+20	WSW	3	c	43	65	33	7	5	–	–	9	9	2500	0	*
	Aberdeen ...	26·1	+20	NW	4	e-bc	41	65	34	8	5	7	–	7-8	7-8	2500	1	3
	Wick ...	23·9	+14	NW'N	9	bc	44	55	32	6	5	3	–	2-3	4-6	2000	0	*
16	Sumburgh ...	18·3	+30	WNW	8	phr	40	85	35	8	8	–	–	9	9	1200	1	5
17	Blacksod Point	36·0	+10	NNW	3	c	48	92	46	8	5	5	–	7-8	9	1500	1	2
18	Malin Head ...	34·0	+18	NW	4	e-bc	50	75	42	8	8	–	–	7-8	7-8	1500	1	4
	Aldergrove ...	34·6	+20	NW'W	3	b-bc	43	85	40	7	5	–	–	2-3	2-3	2500	1	*
19	Birr Castle ...	34·1	+4	WNW	3	c	50	92	48	7	6	2	–	7-8	10	1500	1	*
20	Valentia Obsy.	35·2	+4	N	3	c	50	92	48	8	5	–	–	9+	9+	1500	1	2
	Roches Point	33·7	−2	N	3	c	50	92	48	8	5	–	–	9+	9+	1500	1	3

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 15th (39)	13h.—18h. 15th (40)	18h. 15th to 1h. 16th (41)	1h.—7h. 16th (42)
1	London (Kew)	cffw	cmw	cmw	cmm$_0$w
	Croydon ...	ofcfof	ofcf	cfcm	cbccm
	S. Farnborough	cfidom$_0$	cm$_0$	cbcbm$_0$w	bm$_0$xbm
	Boscombe Down	dc	cm$_0$	cm$_0$irgcb	bm$_0$
	Thorney Island	cmowcm	cm$_0$ofw	ofgcm$_0$	
	Lympne ...	ffcm$_0$	cm$_0$m	bfwcm	emm$_0$c
	Manston ...	ofcm	bcm$_0$cm$_0$	cmfcm	ocm
2	Shoeburyness ...	fcmom	ofomcm$_0$	bcm$_0$bm$_0$	bmw
	Felixstowe ...	bfcmcm$_0$	bcm$_0$bcmbmw	bmbcmw	mf
	Gorleston ...	offcm	bcm$_0$bm$_0$	bm$_0$w	cm$_0$c
	Mildenhall ...	ofcm	m	bccfof	bfz$_0$
	Cranwell ...	cm$_0$cm	cm$_0$bcmw	bcm$_0$bmm$_0$	bcm$_0$w
3	Birmingham ...	cz	co	bxbcx	cpr$_0$bxf
	Upper Heyford	cm$_0$	cm$_0$	cm$_0$bcm$_0$	bcm$_0$bmf
4	Ross-on-Wye	idocc	cbcpr$_0$	cc	cbc
5	Hartland Point	c	c	cr$_0$	cbc
	Bristol ...	cm$_0$dodcm$_0$	cm$_0$m	cbcbmm$_0$	bm$_0$
	Portland Bill ...	o	o	o	bcc
	Plymouth ...	cfcm$_0$c	cmdodof	o	bm$_0$bcfgw
	The Lizard ...	bcc	copr$_0$	opr$_0$c	oc
	Scilly (St. Mary's)	c	c	c	cir$_0$
	Guernsey ...				
6	Pembroke ...	c	cbcc	cbc	c
7	Holyhead (Valley)	c	cidoc	bccb	bcbc
	Chester (Sealand)	m$_0$c	cm$_0$idc	cbcbm$_0$	bcb
8	Manchester ...	cm$_0$	idododo	em$_0$bm$_0$	bm$_0$bix
10	Spurn Head ...	Z_0	bcm$_0$	bcm$_0$	c
	Catterick ...	c		bcbz$_0$bcz	bczb
	Tynemouth ...	bcg		bcb	bc
11	St. Abbs Head	cbc		bbcm$_0$	bcc
	Leuchars ...	cwbcwbc	cbc	cbc	bcc
12	Renfrew (Abbots I.)	cidobcc	bc	bbz$_0$	bbcm$_0$
	Eskdalemuir ...	cpr$_0$c	cbcb	b	bbc
	Point of Ayre ...	c	cbcb	bbccb	m$_0$b
13A	Tiree ...	ircgjptobbccbc		cbcc	cbc
13B	Stornoway ...	cjpbccpr$_0$	cpr$_0$jpc	cpr$_0$c	cbc
15	Dalwhinnie ...	dbc	bcc		coc
	Aberdeen ...	c	bcqc	cbcb	bcqbc
	Wick ...	cpr$_0$bcm$_0$q	bcm$_0$pr$_0$bc	cpr$_0$	cphbcwmp
16	Sumburgh ...	cphprcpr$_0$	cpr$_0$h	cprhcpr$_0$	cpr$_0$h
17	Blacksod Point	d	c	b	bc
18	Malin Head ...	r	c	c	c
	Aldergrove ...	c	cbc	bcc	cbc
19	Birr Castle ...	c	d		c
20	Valentia Obsy.	f	c	d	b
	Roches Point	d	c	d	b

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

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	Moderate north to northwest wind; fair or fine but local showers near East coast of England; good visibility, local fog at night, mainly in industrial areas. Rather cold with frost at night.
15 N.E. Scotland	Strong to gale northwest winds, moderating; showery; good visibility; cold.
16 Orkneys and Shetlands ✝	
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 1-14.

GENERAL INFERENCE

An anticyclone centred to the northwest of the British Isles is moving southeast. It will be fair or fine in most districts, but with some showers in the extreme North and near the East coast. It will be rather cold with frost at night.

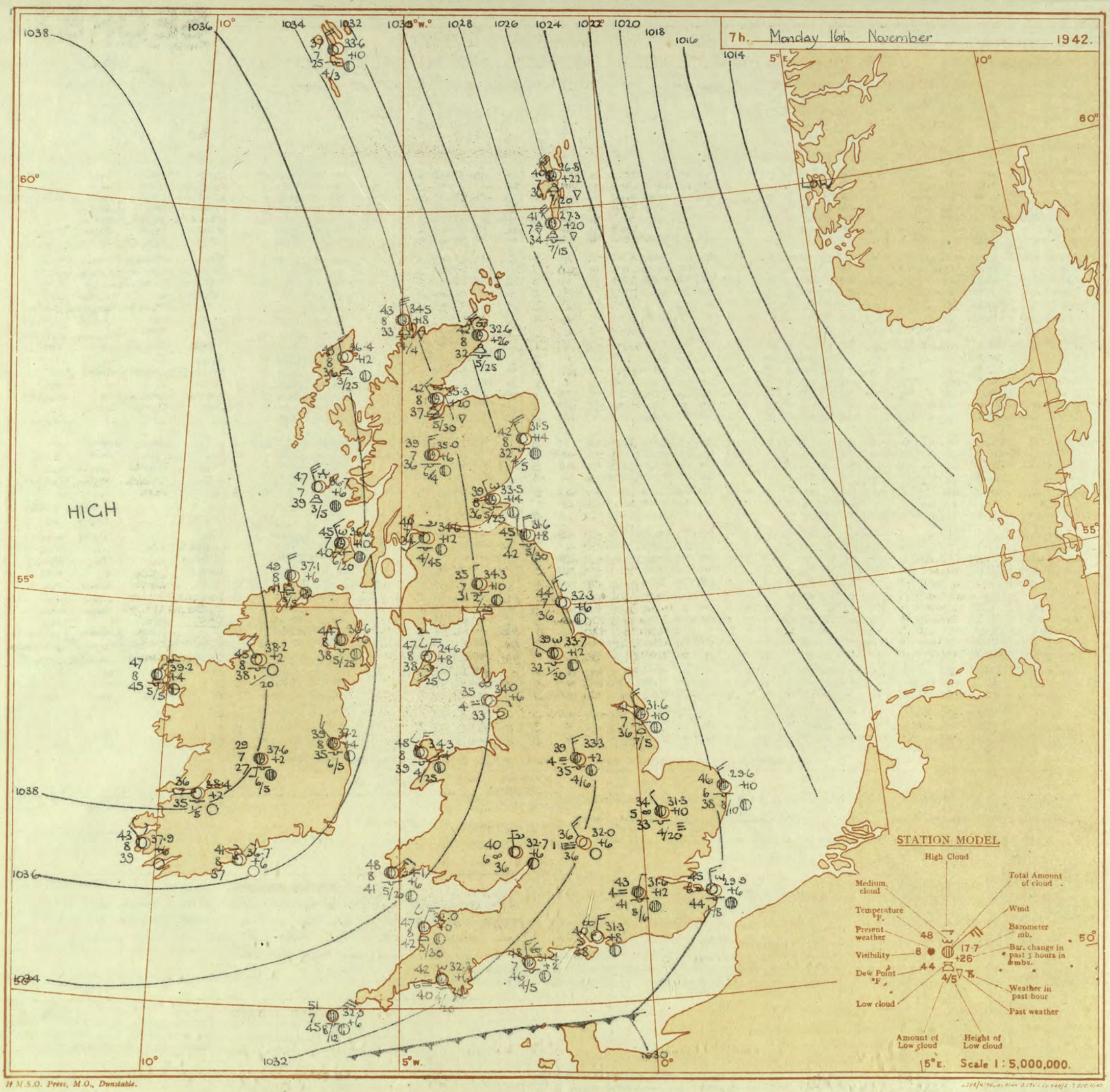
FURTHER OUTLOOK

Little change.

✝ Southwesterly gale in operation in district 16. Issued 2130 on 13.11.42.

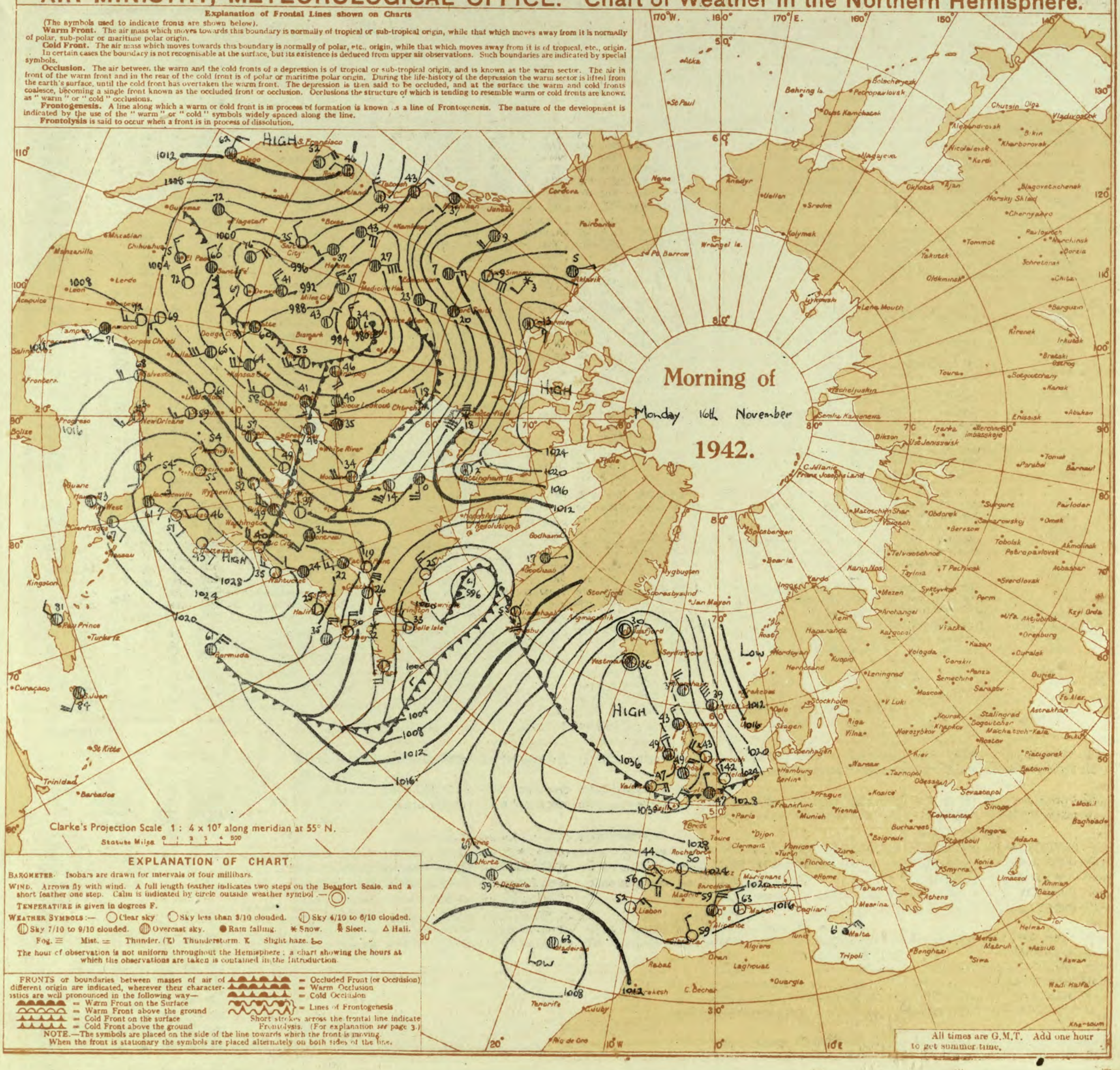
Forecasts issued at 1030.

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



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

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



Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

BRITISH SECTION

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

Monday 16th November 1942

No. 29579.

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	*	*	*	*	*	46	*	*	*	*	*	*	*	*	*
	Croydon ...	290	30·5	+2	N	1	c/f	47	97	45	4	5	-	-	7-8	10	900
	S. Farnborough	226	30·7	+2	NW	2	z_o	45	92	43	5	-	4	-	0	1	-
	Boscombe Down	417	31·3	+2	NW	3	z_o	43	97	42	6	5	-	-	1	1	2500
	Thorney Island	10	30·4	-2	WNW	2	z_o	46	92	44	6	5	-	-	10	10	1900
	Lympne ..	283	29·6	-6	WNW	2	m	44	97	43	4	5	-	-	10	10	2000
	Manston ...	154	29·2	-2	NW	2	m	46	97	45	4	5	-	-	10	10	300
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	30·0	+10	WNW	3	m	44	97	43	4	-	-	-	0	0	-
	Gorleston ...	5	27·6	-4	NNW	2	m	42	92	41	4	-	-	-	0	0	-
	Mildenhall ...	15	30·0	+2	NW	2	bF-	37	97	37	1	-	-	8	0	1	-
	Cranwell ...	203	30·8	+10	NN'N	3	z_o	41	92	39	5	-	-	1	0	2-3	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	31·0	+4	NW	4	z_o	41	92	39	6	-	-	2	0	4-6	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	32·1	+2	NNE	3	c-bc	50	85	46	8	5	-	-	7-8	7-8	2500
	Bristol ...	209	32·2	0	WSW	1	z_o	43	97	42	5	5	-	-	1	1	4000
	Portland Bill ...	32	30·8	+2	N	1	0	48	92	46	7	5	-	-	10	10	2500
	Plymouth ...	82	32·5	0	NE	1	m	44	97	43	4	5	-	-	10	10	1500
	The Lizard ...	240	32·1	+2	NE'N	2	c	48	92	46	7	5	2	-	1	10	1000
	Scilly (St. Mary's)	163	32·6	+2	NE'N	4	c	50	85	45	8	8	-	1	9+	10	1200
	Guernsey ...	175															
6	Pembroke ...	142	33·4	+2	NNE	3	bc	49	75	42	8	8	2	-	2-3	4-6	2000
7	Holyhead (Valley)	32	32·2	0	NE'N	3	bc	49	75	46	8	5	-	-	4-6	4-6	2300
	Chester (Sealand)	16	32·3	+6	NW	1	b	45	85	40	7	-	-	-	0	0	-
8	Manchester ...	235	32·2	+10	W	1	z_o	37	97	37	5	-	-	-	0	0	-
10	Spurn Head ...	29	29·9	+4	NN'N	4	z_o	43	85	38	6	-	-	-	0	0	-
	Catterick ...	175	31·9	+4	NN'W	2	z_o	43	75	35	6	-	-	5	0	7-8	-
	Tynemouth ...	108	29·4	+4	NNW	4	b	42	85	39	6	-	-	-	0	0	-
11	St. Abbs Head	280	29·5	0	N	4	bc	47	75	39	7	5	-	-	4-6	4-6	4000
	Leuchars ...	36	30·8	+6	WNW	2	bc	45	75	39	8	5	7	-	2-3	4-6	3000
12	Renfrew (Abbotsl.)	19	32·3	+4	WNW	4	z_o	43	75	36	6	-	-	-	0	0	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	33·4	+4	N	4	b-bc	49	75	40	8	4	7	-	1	2-3	2500
13A	Tiree	44	35·3	+10	NNW	5	c	48	75	39	8	8	-	-	9	9	2500
13B	Stornoway ...	15	34·7	+16	NNW	3	c/pr	43	85	38	7	8	-	-	9	9	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	29·7	+12	WNW	4	c-bc	42	75	33	8	5	3	-	7-8	7-8	4800
	Wick ...	114	29·1	+12	NW	6	phr	42	75	33	7	8	7	-	4-6	7-8	1400
16	Sumburgh ..	19	23·6	+18	NW	3	pr_o	41	65	31	8	8	-	-	9+	9+	1500
17	Blacksod Point	18	38·4	+14	N'E	1	b-bc	46	92	44	8	8	-	-	2-3	2-3	4000
18	Malin Head ...	84	35·9	+6	N'W	4	c	49	75	41	8	8	-	-	10	10	1500
	Aldergrove ...	268	35·6	+6	WNW	2	c-bc	43	88	37	7	5	-	-	7-8	7-8	3200
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	35·1	-2	E'N	4	b	47	85	43	8	5	-	-	1	1	2500
	Roches Point	22	35·7	+6	N	3	b	45	97	44	8	5	-	-	1	1	2500

OBSERVATIONS at 7 hr. G.M.T. 16th 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)	31·4	+8	N'W	2	z_o	42	85	38	5	5	-	-	9+	9+	2500	1	*
	Croydon ...	31·6	+12	N'E	1	m	43	92	41	4	5	-	-	10	10	600	1	*
	S. Farnborough	31·6	+8	NW'W	1	fg	34	97	34	4	5	-	-	2-3	2-3	2500	1	*
	Boscombe Down	31·9	+6	N'W	2	z_o	37	97	36	6	-	3	-	0	1	-	0	*
	Thorney Island	31·3	+8	N'E	3	z_o	40	92	38	5	-	7	-	0	1	-	1	*
	Lympne ..	30·2	+6	NNW	2	f+	44	97	44	2	-	-	-	10	10	<150	1	§ 1
	Manston ...	29·9	+6	N	3	z_o	45	97	44	6	5	3	-	Tr	1	800	1	*
2	Shoeburyness...	30·6	+6	NNW	2	m	40	97	38	4	5	-	-	0	0	-	1	*
	Felixstowe ...	30·3	+6	NW'W	2	f+	40	92	38	3	5	-	-	10	10	450	1	
	Gorleston ...	29·6	+10	N'W	3	z_o	46	75	38	6	5	-	-	10	10	1000	0	3
	Mildenhall ...	31·3	+10	NW'N	2	z_o	34	97	33	5	5	-	8	4-6	7-8	2000	1	*
	Cranwell ...	31·9	+6	NW'N	4	z_o	38	85	34	6	-	7	1	0	4-6	-	0	*
3	Birmingham ...	32·6	+6	NW	3	b-bcf	38	97	38	2	5	-	-	2-3	2-3	1500	1	*
	Upper Heyford	32·0	+6	NNW	3	bF+	36	97	36	1	-	-	-	0	0	-	0	*
4	Ross-on-Wye	32·7	+6	N	1	z_o	40	85	36	6	-	-	2	0	2-3	-	1	*
5	Hartland Point	32·0	+0	NNE	3	bc	47	85	42	8	1	4	-	2-3	4-6	3000	0	4
	Bristol ...	33·4	+10	NW	1	bf+	38	92	36	3	5	-	-	Tr	Tr	4000	1	*
	Portland Bill ...	31·4	+2	N	3	c-bc	48	92	46	7	5	7	-	4-6	7-8	2500	1	3
	Plymouth ...	32·8	+6	SE'E	2	fg	42	97	40	6	5	3	-	4-6	4-6	2000	0	1
	The Lizard ...	31·9	+4	NNE	2	c	48	85	43	7	8	2	-	9	10	1000	1	3
	Scilly (St. Mary's)	32·9	+6	NE	5	c	51	75	45	7	5	-	-	10	10	1200	1	4
	Guernsey ...																	
6	Pembroke ...	34·1	+6	NE	3	c-bc	48	75	41	8	5	-	-	7-8	7-8	2000	0	2
7	Holyhead (Valley)	34·3	+4	NNE	3	c-bc	48	75	39	8	5	4	-	4-6	7-8	2500	1	2
	Chester (Sealand)	33·4	+6	-	0	z_o	36	92	34	5	5	3	-	4-6	4-6	3500	3	*
8	Manchester ...	33·9	+6	-	0	bf+	30	97	30	2	-	-	-	0	0	-	0	*
10	Spurn Head ...	31·6	+10	NNW	4	c	41	85	37	7	7	-	-	9+	9+	2500	1	4
	Catterick ...	33·7	+12	WNW	2	z_o	39	75	32	6	5	3	-	Tr	7-8	3000	1	*
	Tynemouth ...	32·8	+6	NNW	3	b-bc	44	75	36	7	-	4	-	0	2-3	-	1	4
11	St. Abbs Head	31·6	+8	N	4	c-bc	45	65	39	7	5	-	-	7-8	7-8	3000	0	4
	Leuchars ...	33·5	+14	NNW	1	c	39	85	36	8	5	3	-	7-8	9	2500	1	*
12	Renfrew (Abbotsl.)	34·6	+12	SW	1	bc	40	75	34	7	5	-	2	4-6	4-6	4500	1	*
	Eskdalemuir ...	34·3	+10	N	1	bc	35	85	31	7	5	7	1	1	4-6	2500	1	*
	Point of Ayre...	34·6	+8	N'E	4	b	47	75	38	8	4	4	5	Tr	1	2500	0	4
13A	Tiree	36·7	+6	N'W	5	b-bc	47	75	39	7	2	6	-	2-3	2-3	2500	0	4
13B	Stornoway ...	36·4	+12	NNW	3	b-bc	43	75	36	8	8	-	-	2-3	2-3	2500	1	
15	Dalwhinnie ...	35·0	+6	N	3	c	39	85	36	7	5	-	-	9	9	1500	0	*
	Aberdeen † ...	31·5	+14	NNW	5	bc	42	65	32	8	5	-	-	4-6	4-6	2500	1	3
	Wick ...	32·6	+26	NN'N	6	c	42	65	32	8	8	7	-	7-8	9+	2500	1	5
16	Sumburgh ..	27·3	+20	NW'N	6	phr	41	75	34	7	8	-	-	9+	9+	1500	1	5
17	Blacksod Point	39·2	+4	N'E	3	c-bc	47	92	45	8	5	-	-	7-8	7-8	2500	1	3
18	Malin Head ...	37·1	+6	N'W	4	c-bc	49	75	41	8	8	-	-	7-8	7-8	2500	1	5
	Aldergrove ...	36·6	+6	N'W	1	c-bc	44	85	38	8	5	-	-	7-8	7-8	2500	1	*
19	Birr Castle ...	37·6	+2	S	1	c	29	92	27	7	5	-	-	9	9	2500	1	*
20	Valentia Obsy.	37·0	+6	NW	2	b-bc	43	85	39	8	-	-	4	0	2-3	-	1	2
	Roches Point	36·7	+6	NNE	2	b	41	85	37	8	-	-	1	0	Tr	-	1	8

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 16th Hrs. (38)
1	London (Kew)	47	41	28	-	-	0·0
	Croydon ...	47	41	37	-	-	0·0
	S. Farnborough	49	34	23	Tr	-	0·0
	Boscombe Down	46	37	30	Tr	0·1	0·0
	Thorney Island	48	39	29	-	Tr	*
	Lympne ..	50	41	36	-	-	1·0
	Manston ...	49	40	36	-	-	0·6
2	Shoeburyness...	47	39	27	-	-	0·0
	Felixstowe ...	48	34	34	-	-	0·0
	Gorleston ...	49	40	36	-	-	1·5
	Mildenhall ...	50	33	27	Tr	Tr	1·1
	Cranwell ...	51	38	33	Tr	-	5·1
3	Birmingham ...	49	37	29	-	Tr	0·1
	Upper Heyford	47	35	31	-	-	*
4	Ross-on-Wye	49	40	31	Tr	-	0·1
5	Hartland Point	50	47	44	-	Tr	0·0
	Bristol ...	47	37	27	Tr	-	0·0
	Portland Bill ...	48	48	*	-	-	*
	Plymouth ...	46	41	31	Tr	-	0·0
	The Lizard ...	48	46	*	Tr	0·3	0·1
	Scilly (St. Mary's)	51	49	*	-	-	0·0
	Guernsey ...						
6	Pembroke ...	50	45	*	-	-	0·0
7	Holyhead (Valley)	52	45	42	Tr	-	*
	Chester (Sealand)	52	35	24	-	-	0·0
8	Manchester ...	49	30	25	0·1	-	*
10	Spurn Head ...	50	40	*	Tr	-	1·9
	Catterick ...	56	38	30	-	-	2·1
	Tynemouth ...	53	40	37	-	-	*
11	St. Abbs Head	55	46	*	-	-	*
	Leuchars ...		39	29	-	-	4·6
12	Renfrew (Abbotsl.)	53	37	39	Tr	-	3·3
	Eskdalemuir ...	51	35	27	Tr	-	2·7
	Point of Ayre...	52	47	*	-	-	0·2
13A	Tiree	52	47	*	-	-	3·3
13B	Stornoway ...	49	41	36	Tr	Tr	0·0
15	Dalwhinnie ...	49	37	32	-	-	3·8
	Aberdeen † ...	54	39		-	0·1	
	Wick ...	51	39	37	Tr	0·5	*
16	Sumburgh ..	51	37	33	16	1	0·4
17	Blacksod Point	53	44	*	0·6	-	*
18	Malin Head ...	51	48		1	-	1·2
	Aldergrove ...	53	38	29	-	-	1·0
19	Birr Castle ...	51	28	24	Tr	-	0·0
20	Valentia Obsy.	51	43	35	-	Tr	0·1
	Roches Point	51	39	*	Tr	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 15th November — 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	8-	25746	58786	5-	02747	60787
115	52	02835	95628	52	81735	95688
203						
206	86	10864	57415	96	25755	24387
210	5-	02856	57716	5-	02757	58627
220				80	03447	25517
230	1-	02854	26584	8-	05655	26515
245	50	01981	22412	50	01753	28314
260	10	05651	57324	07	05690	20333
278	5-	51837	28557	54	01753	28653
279	57	02755	22426	50	01762	24412
285				53	01743	32314
288	11	02890	18417	04	01790	00024
578	5-	21836	28267			
301	52	52535	26358	57	02744	28455
321	07	05690	27425	00	05590	27328
299	54	01763	24214	50	01684	24214
292	53	02851	24246	04	02790	25126
310						
614	03	05690	24226	07	05590	22225

01h. G.M.T. 16th November — 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333	5-	02848	28228	5-	51644	30158
334						
340	5-	02858	29328	5-	51648	32358
1360	00	05690	24313	00	08490	22228
336						
350	5-	05648	28228	04	05690	22123
368	57	05645	32128	03	05590	24113
379	5-	05638	30428	5-	05638	28328
390	--	44209	18149	00	08490	26290
382				5-	05648	00028
438				5-	05548	28128
430	5-	08448	00048	5-	08448	28128
409	5-	51648	06158	5-	03748	01258

$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
5-	01754	30254	5-	01754	32304
			--	03647	00028
00	02690	25113	03	05590	28114
00	05690	28340	5-	05657	30317
			10	01763	04313
00	05690	26214			
50	05654	00014	04	05690	00002
01	05690	28413	50	05553	02303
5-	08448	30328	03	05590	30314
00	05690	32300	5-	05636	02216
5-	03548	00028	54	01533	32214
5-	05548	28128	5-	05555	32313
5-	05637	02427	5-	02747	02327

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 16th 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 * ...	cffw	cnw	cnwm,w
Croydon ...	ofefof	ofef	efcmbcm
Greenwich ...	off	ofm.	cbcwbcm
Camden Square	0	0	*
Kensington ...	ofcm	om	*
Hampstead ...	af	obc	bc

Atmospheric Pollution, Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 1·2 Time 10h 15th; Min. 0·1 Time 0-4h 16th

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	47	41	28	-	-	0·0	*	*
Croydon ...	47	41	37	-	-	0·0	*	*
Greenwich ...	47	41	32	-	Tr	0·0	91	82
Westminster ..	48	41	34	-	-		89	90
Regents Park ...	47	40	35	-	-		85	87
Camden Square	47	41	32	-	-	*	*	84
Kensington ..	48	41	25	Tr	Tr		85	92
Hampstead	46	37	34	-	-		*	87

SECRET

Page 1 **BRITISH SECTION**

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

Tuesday 17th November 1942

No. 29580

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)	32·7	-4	N'W	3	Zo	46	65	34	6	5	7	8	7·8	9+	2500
	Croydon	31·8	-14	NNE	3	m	46	75	39	4	5	7	-	4-6	10	4000
	S. Farnborough	32·4	-10	N'E	3	Zo	47	65	36	6	5	7	-	4-6	10	2000
	Boscombe Down	32·9	-4	N	3	Zo	46	75	38	6	5	1	-	4-6	10	2500
	Thorney Island	31·1	-18	N	3	Zo	48	75	41	6	5	3	7	1	10	1500
	Lympne	30·7	-10	NNW	3	c	45	75	37	7	8	7	7	Tr	10	2000
	Manston	30·3	-10	N	4	Zo	46	75	40	6	5	9	-	1	9	4000
2	Shoeburyness	31·1	-4	N'W	3	c-bc	45	75	39	6	5	7	1	4-6	7-8	1500
	Felixstowe	30·6	+4	NW'W	3	Zo	45	75	38	6	-	3	-	0	10	-
	Gorleston	29·0	-8	N	5	bcq	46	65	35	7	2	-	-	4-6	4-6	2200
	Mildenhall	31·5	-6	NW	4	Zo	44	85	38	6	5	7	-	7-8	9+	2500
	Cranwell	32·9	-2	NW	4	Zo	44	75	35	6	5	7	2	2-3	9+	4000
3	Birmingham	33·9	-2	NNW	2	Zo	43	75	36	5	-	-	-	0	9	-
	Upper Heyford	33·5	0	N	3	m	43	85	37	4	-	7	6	0	9+	-
4	Ross-on-Wye	34·1	0	N'E	3	c-bc	47	65	35	7	1	-	2	Tr	7·8	3000
5	Hartland Point	33·4	0	NNE	4	c-bc	47	75	39	7	2	4	4	4-6	7·8	1500
	Bristol	33·8	-6	NNE	3	Zo	45	75	38	5	-	3	2	0	7·8	-
	Portland Bill	32·5	+6	NE	3	c	48	85	44	7	5	4	-	4-6	10	4000
	Plymouth	33·7	-2	NE'N	3	bc	50	75	41	7	5	-	2	2-3	4-6	2000
	The Lizard	32·6	-4	NNE	3	bc	45	75	40	8	8	6	-	4-6	4-6	2000
	Scilly (St. Mary's)	33·5	-16	NE'N	4	c	51	75	42	7	5	-	-	9+	9+	1200
	Guernsey															
6	Pembroke	35·2	+6	NE	4	bc	50	65	37	7	8	4	1	2-3	4-6	2500
7	Holyhead (Valley)	35·5	+2	N'E	3	bc	50	65	38	8	7	4	5	1	4-6	3000
	Chester (Sealand)	34·9	-2	N'W	1	bc	47	65	37	5	-	-	6	0	4-6	-
8	Manchester	34·9	-2	W'N	3	m/f	43	85	38	4	-	-	1	0	2-3	-
10	Spurn Head	31·5	0	NNW	7	c	47	55	34	7	8	-	-	9+	9+	2500
	Catterick	34·6	+6	NNW	3	c-bc	45	65	32	7	7	-	2	4-6	7·8	2000
	Tynemouth	32·8	-2	N	6	bc	45	65	35	7	2	-	-	4-6	4-6	2600
11	St. Abbs Head	33·2	+20	N	6	c-bc	44	65	34	7	5	4	-	7·8	7·8	2500
	Leuchars	34·8	0	NNW	3	c-bc	45	75	37	8	4	3	8	2-3	7·8	3000
12	Renfrew (Abbots I.)	35·7	-4	WNW	2	c	48	65	38	8	1	-	6	1	9	4000
	Eskdalemuir	34·6	-2	N'W	3	b-bc	43	65	31	7	7	-	1	1	2-3	2200
	Point of Ayre	35·7	-6	N	4	c-bc	48	65	39	8	-	4	6	0	7·8	-
13A	Tiree	38·3	+8	N'E	3	c-bc	47	75	40	8	1	-	8	4-6	7·8	2500
13B	Stornoway	38·4	+8	N'E	3	c	44	75	36	8	5	-	2	7·8	9	3500
15	Dalwhinnie	35·5	+8	N	3	c	40	55	27	8	8	-	8	4-6	9	2500
	Aberdeen	33·2	+8	NNW	5	c-bc/pr	44	65	31	8	8	-	6	7·8	7·8	3500
	Wick	34·4	+12	NW	3	pr	44	65	34	9	8	1	6	7·8	9	2500
16	Sumburgh	31·2	+14	NNW	6	c	42	75	34	8	8	-	6	4-6	7·8	2000
17	Blacksod Point	40·2	-8	NE	2	bc	51	85	47	8	5	3	-	2-3	4-6	2500
18	Malin Head	38·1	+6	NNW	4	c-bc	49	65	38	8	5	-	-	7·8	7·8	2500
	Aldergrove	37·2	-4	N'W	3	c	49	65	38	7	8	-	2	4-6	9	2500
19	*Birr Castle	38·6	-10	N	2	c	47	85	43	8	5	1	-	7·8	9	2500
20	Valentia Obsy.	38·3	0	NE'E	5	c	49	65	38	8	1	-	2	Tr	9+	2500
	Roches Point	37·7	-6	N	3	bc	49	75	41	8	1	-	5	1	4-6	4000

OBSERVATIONS at 18h. G.M.T. 16th 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)	32·6	+4	N	3	Zo	43	65	31	6	-	3	6	0	7·8	-	1	*
Croydon	32·2	+4	N	3	m	44	75	34	4	-	7	1	0	7·8	-	1	*
S. Farnborough	33·0	+6	N	3	Zo	42	65	32	5	-	7	5	0	4-6	-	1	*
Boscombe Down	33·9	+10	N	1	Zo	38	85	34	5	-	-	8	0	7·8	-	0	*
Thorney Island	32·6	+14	N'W	2	Zo	40	85	36	5	-	3	8	0	9+	-	1	*
Lympne	31·2	+4	NW	4	Zo	40	85	34	6	-	-	1	0	4-6	-	1	2
Manston	30·4	-2	N'W	5	Zo	44	75	36	6	5	-	-	2-3	4-6	6000	1	*
Shoeburyness	31·3	+2	N	3	bc	41	85	35	7	-	3	6	0	4-6	-	0	*
Felixstowe	30·4	-2	WNW	4	Zo	42	75	36	6	5	-	-	2-3	2-3	2500	1	3
Gorleston	29·2	0	N'W	4	c-bc/pr	44	75	37	7	8	-	-	7·8	7·8	1500	1	4
Mildenhall	31·8	+2	NW'N	4	Zo	41	75	35	6	5	4	-	1	2-3	5000	1	*
Cranwell	33·2	+4	NNW	4	Zo	39	75	31	6	-	7	9	0	2-3	-	0	*
Birmingham	34·7	+2	NNW	2	Zo	40	75	32	5	-	-	2	0	7·8	-	1	*
Upper Heyford	33·6	+2	N	2	Zo	39	75	31	6	5	-	-	Tr	Tr	4000	0	*
Ross-on-Wye	34·6	+6	N	2	Zo	40	75	32	5	-	-	8	0	4-6	-	1	*
Hartland Point	33·9	+10	NE	3	c-bc	48	75	39	7	6	-	-	7·8	7·8	2500	0	4
Bristol	34·9	+10	-	0	bf+	38	85	33	2	-	-	-	0	0	-	1	*
Portland Bill	33·6	+6	N	2	c-bc	43	92	41	7	5	-	-	7·8	7·8	4000	1	3
Plymouth	34·7	+10	NE	3	Zo	45	75	36	6	-	-	2	0	2-3	-	0	2
The Lizard	33·7	+10	NNE	3	c-bc	45	85	40	7	8	4	-	7·8	7·8	1500	0	3
Scilly (St. Mary's)	33·9	-2	NNE	4	c	50	65	39	7	5	-	-	9	9	1200	1	4
Guernsey																	
Pembroke	35·7	+2	NE	3	c-bc	46	75	40	8	8	7	-	4-6	7·8	2500	0	2
Holyhead (Valley)	36·2	+4	N	3	c-bc	43	92	40	8	5	4	8	Tr	7·8	2500	1	2
Chester (Sealand)	35·3	+2	W'N	1	bc	41	85	36	6	5	-	2	Tr	4-6	3500	1	*
Manchester	35·5	+4	NW'W	3	m	39	75	33	4	-	3	1	0	2-3	-	0	*
Spurn Head	31·6	0	NW'W	6	c-bc	43	75	36	7	8	-	-	7·8	7·8	2500	0	4
Catterick	35·0	0	NW	3	c	40	65	25	7	-	-	7	0	10	-	1	*
Tynemouth	34·0	+2	NNW	5	bc	41	75	33	6	2	4	-	4-6	4-6	2500	1	4
St. Abbs Head	35·6	0	N	4	bc	44	65	31	7	5	-	-	4-6	4-6	2500	0	5
Leuchars	36·3	+8	NW	2	c	41	85	35	8	5	1	-	2-3	9+	2500	1	*
Renfrew (Abbots I.)	37·1	+14	W'S	1	Zo	37	75	31	6	-	-	1	0	2-3	-	1	*
Eskdalemuir	36·3	+4	N	2	b-bc	37	65	25	8	5	1	-	Tr	2-3	3500	1	*
Point of Ayre	36·1	+2	NE	4	b-bc	47	85	43	8	1	6	5	Tr	2-3	2500	0	3
Tiree	39·2	+6	N	4	c-bc	43	75	35	8	5	4	8	2-3	7·8	4000	0	3
Stornoway	38·7	-2	NW	2	c	38	85	35	8	5	-	2	4-6	9	3500	0	*
Dalwhinnie	37·0	+4	N	2	c-bc	37	65	27	8	8	-	-	7·8	7·8	2500	0	*
Aberdeen	34·8	+6	NNW	4	b-bc	42	65	32	7	5	-	8	2-3	2-3	3500	1	3
Wick	34·8	-2	NW	4	c	43	65	31	8	5	7	-	7·8	10	2000	0	*
Sumburgh	32·1	0	NNW	6	c-bc	41	85	36	8	8	-	-	7·8	7·8	2000	1	4
Blacksod Point	40·2	+2	NE'N	2	c-bc	49	92	47	8	5	3	-	7·8	7·8	2500	1	2
Malin Head	38·8	+6	N	4	bc	48	65	37	8	8	-	1	4-6	4-6	2500	1	4
Aldergrove	38·6	+10	-	0	b-bc	41	85	36	7	5	-	8	1	2-3	2500	1	*
*Birr Castle	38·4	+4	NNW	2	bc	42	85	38	7	-	-	8	0	4-6	-	1	*
Valentia Obsy.	38·6	+8	NE'N	3	b	44	85	40	8	1	-	4	Tr	1	2500	1	3
Roches Point	37·8	+6	N'E	4	bc	45	75	37	8	5	-	5	Tr	4-6	2500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 16th (39)	Weather 13h.—18h. 16th (40)	Weather 18h. 16th to 1h. 17th (41)	Weather 1h.—7h. 17th (42)
London (Kew)	cmowczo	bcc w	cbcbw	bbcmx
Croydon	ombcfcm	czbcz	bcfbcm	bcmbcm
S. Farnborough	bcmcmo	cbczo	bczobmx	bmoxcmo
Boscombe Down	cmobmocmo	cmobcmo	bcmofgx	bmox
Thorney Island	bmowczo	bczo	cbcbmo	bmobcmox
Lympne	ofbcmoc	cbczo	bcbzo	bzobmo
Manston	ciroCmo	czobcmo	bczoc	bc
Shoeburyness	bwmbc	bcmo bc	bcmobmo	bmo
Felixstowe	cfeirocmo	cirombcmo	circmobcp	bcprobcmo
Gorleston	cprbcy	bccpro	cprobq	bccpro
Mildenhall	bcmoxcmo	cmobmo	bcmoprmo	bcmopro
Cranwell	bcmocmo	cmoccmov		bmo,cmo
Birmingham	fbcz	bcz	cbc	bcbfx
Upper Heyford	ffcm	cmcmozo	bzobcmbmo	bmbcmo
Ross-on-Wye	bcc	bczo	bcz	bzx
Hartland Point	bcc	cbcc	cbc	bcbbc
Bristol	bfbcfc	czobczf	bfbm	bmbfx
Portland Bill	c	c	cbc	bcbc
Plymouth	bbc	bcmo	bcmo	bcbmox
The Lizard	bccbc	bcc	bc	c
Scilly (St. Mary's)	c	c	c	cbc
Guernsey				
Pembroke	cbcq	bc	bcw	bcw
Holyhead (Valley)	bc	bcbbc	bc	bx
Chester (Sealand)	bcbcmozo	zob,bcmo	bcmob	bmox
Manchester	cff	bcmmozo	bczbcm	bcbmx
Spurn Head	c	c	bc	cpr
Catterick	bczocbc	c	cbc	b
Tynemouth	bc	bc	bccpo	cprobc
St. Abbs Head	c	cbc	bcdbc	bcb
Leuchars	cbcc	cbccw	cbc	bccx
Renfrew (Abbots I.)	bcc	cbmo	bmxbcmx	bcFmx
Eskdalemuir	bccbc	cbcb		bcx
Point of Ayre	bbc	cbcb	b	b
Tiree	bcc	cf	cbc	bcc
Stornoway	c	c	bcc	cbccw
Dalwhinnie	cy	c		cbc
Aberdeen	bcporc	cporbc	cbcc	c
Wick	cprocpro	bccprobcc	cbc	c
Sumburgh	cproc	cbc	cpro	bcc
Blacksod Point	bc	c	b	bc
Malin Head	c	bc	bc	bc
Aldergrove	cbcc	cbcb	b	bbcox
*Birr Castle	c	bc		f
Valentia Obsy.	bc	bc	b	b
Roches Point	bc	bc	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 17th November 1942.

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Light to moderate northerly winds; fair, some local showers at first specially near East Coast, local fog near large towns night and early morning; rather cold by day, moderate temperature by night, slight frost locally.
5 S.W. England; 6 South Wales	Moderate northeasterly wind; fair; rather cold by day, moderate temperature at night.
7 North Wales; 8 N.W. England; 9 N. Midlands	Light or moderate northwesterly wind, fair, rather cold by day, local slight frost at night.
10 N.E. England; 11 S.E. Scotland	Moderate northwesterly wind; fresh or strong locally on coasts; mainly fair but occasional showers; rather cold by day, moderate temperature by night.
12 S.W. Scotland & Isle of Man	As 7-9.
13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Light to moderate northwest to west wind becoming fresh or strong in north, cloudy, slight local rain in north; rather cold; becoming milder.
16 Orkneys and Shetlands	As 13A - 15.
17 N. W. Ireland; 18 N. E. Ireland	As 7-9.
19 S. E. Ireland; 20 S. W. Ireland	Light variable winds, mainly fair, but local fog night and morning; rather cold with slight frost locally at night.

GENERAL INFERENCE

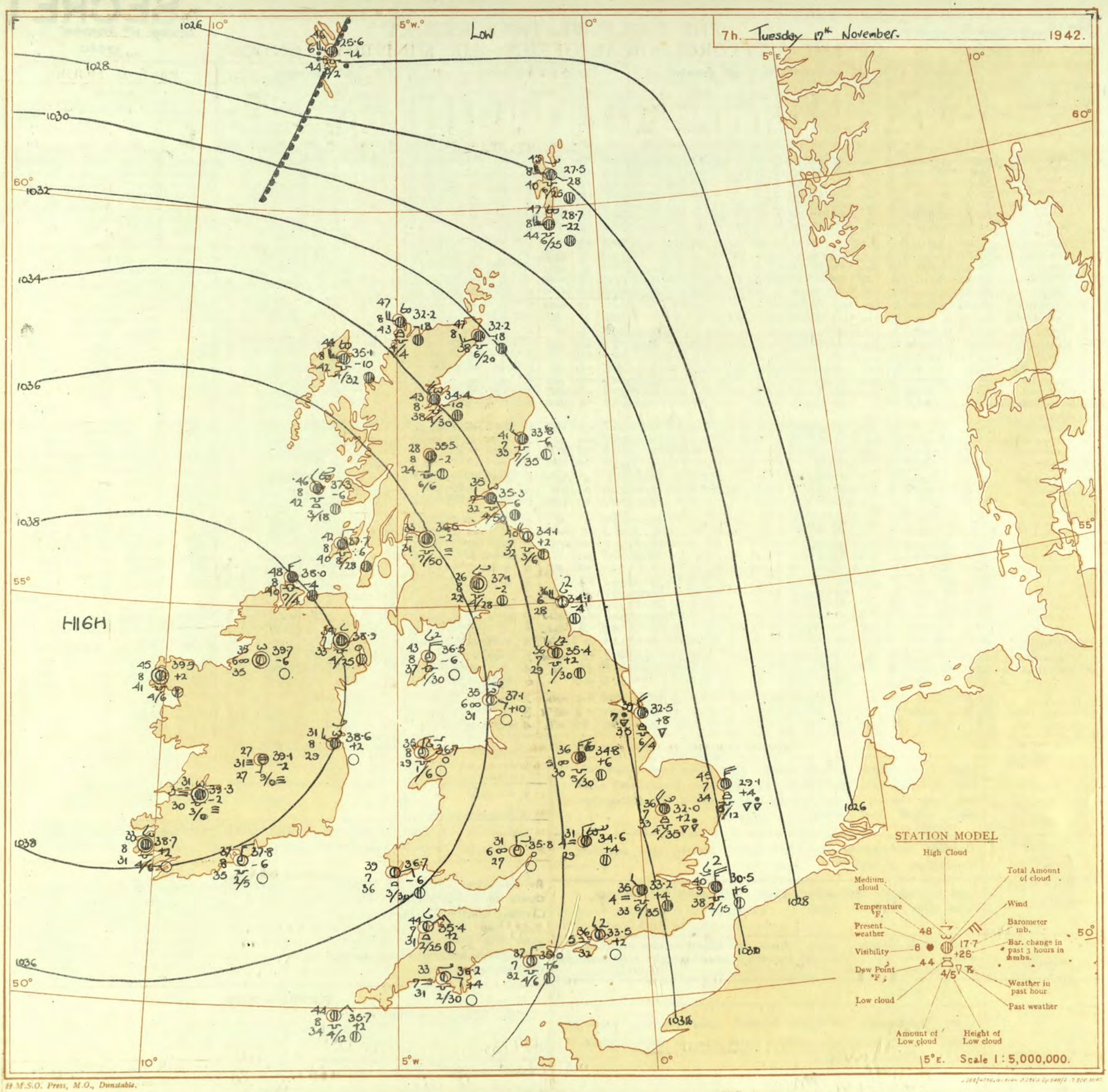
An anticyclone centred off Ireland will decrease slowly in intensity and the centre will move slowly south. A depression is developing northeast of Iceland and will move toward Norway. Weather will be fine but rather cold over most of England Wales and Ireland apart from a few showers near the East coast; in Scotland weather will become rather cloudy, and conditions become slowly milder, with some slight local rain in the extreme North.

FURTHER OUTLOOK

Little change indicated.

Forecasts issued at 10·30.

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



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

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

Explanation of Frontal Lines shown on Charts

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

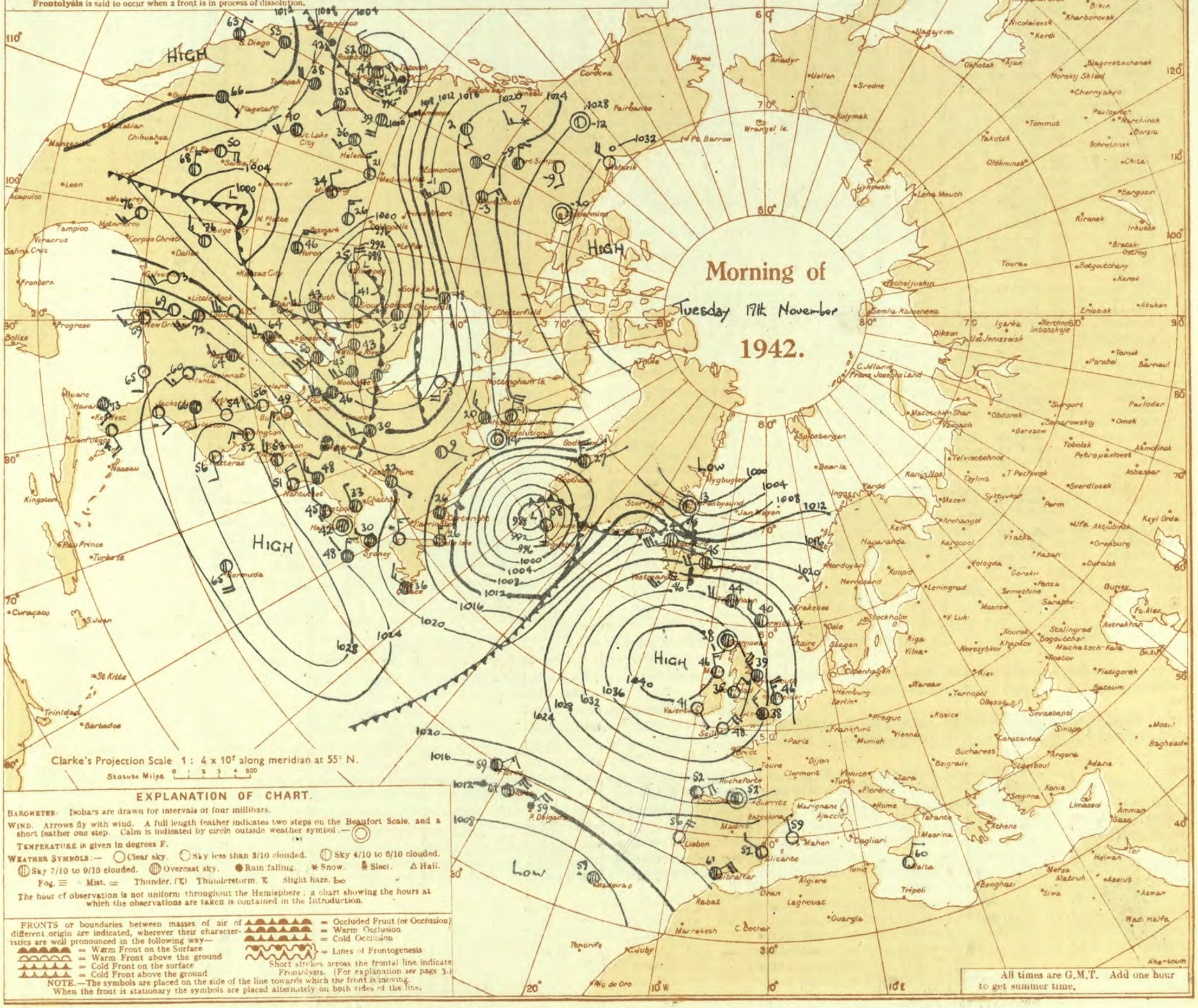
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

BRITISH SECTION

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

Tuesday 17th November 1942

No. 29580.

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)	°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	*	*	*	*	*	38	*	*	*	*	*	*	*	*	*
	Croydon	290	33·1	+2	NNW	3	m	38	85	32	4	–	7	6	0	7-8	–
	S. Farnborough	226	34·0	+2	NN'W	1	z_0	34	85	29	6	–	4	1	0	2-3	–
	Boscombe Down	417	35·0	+2	NW	1	fg	32	92	30	5	–	–	2	0	2-3	–
	Thorney Island	10	33·5	0	NNW	3	z_0	37	85	32	6	–	–	1	0	1	–
	Lympne	283	31·8	+2	NW	4	z_0	38	75	31	6	–	–	–	0	0	–
	Manston	154	30·4	+2	NNW	4	b-bc	40	92	39	7	5	–	–	2-3	2-3	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	30·6	-2	WNW	4	pr_0	40	92	37	5	7	–	–	4-6	4-6	2500
	Gorleston	5	28·9	-2	N	5	bc	46	65	34	7	8	–	–	4-6	4-6	1500
	Mildenhall	15	31·7	-2	NW	4	c-bc/pr	36	85	33	6	8	–	–	7-8	7-8	3800
	Cranwell	203	33·0	-4	N'W	5	c/pr	37	75	31	6	–	3	3	0	9	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	34·3	-2	NNW	3	z_0	33	85	30	5	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	35·4	+2	NE	2	b-bc	45	65	34	7	1	4	–	Tr	2-3	2500
	Bristol	209	36·1	0	WNW	1	b/f	34	92	32	4	–	–	5	0	1	–
	Portland Bill	32	34·9	+6	N	2	bc	39	92	36	7	5	–	–	4-6	4-6	4000
	Plymouth	82	36·3	+6	ENE	2	z_0	37	85	33	5	–	1	1	0	4-6	–
	The Lizard	240	35·5	+4	NE	3	bc	39	85	35	7	8	–	–	4-6	4-6	2000
	Scilly (St. Mary's)	163	35·4	+4	NE	4	c	48	75	39	7	5	–	–	10	10	1200
	Guernsey	175															
6	Pembroke	142	37·1	+2	NE'E	1	b-bc	43	75	36	8	1	6	–	2-3	2-3	4000
7	Holyhead (Valley)	32	37·0	+6	NNE	1	b-bc	35	92	32	8	1	4	–	2-3	2-3	4000
	Chester (Sealand)	16	36·5	+2	NNW	1	b	35	75	29	5	–	–	1	0	1	–
8	Manchester	235	36·8	+4	W'N	3	m	31	92	30	4	–	3	–	0	4-6	–
10	Spurn Head	29	31·5	0	NW'W	5	bc	41	85	36	7	2	–	–	4-6	4-6	1500
	Catterick	175	35·5	0	NW'N	3	b-bc	39	65	29	7	5	3	–	Tr	2-3	3500
	Tynemouth	108	34·4	+2	NNW	5	pr_0	39	85	33	6	–	2	–	7-8	7-8	1500
11	St. Abbs Head	280	34·0	-6	N	5	c-bc	43	65	33	7	5	–	–	7-8	7-8	4000
	Leuchars	36	35·8	-4	–	0	bc	33	92	31	8	–	4	8	0	4-6	–
12	Renfrew (Abbots I.)	19	37·4	+2	–	0	m	29	92	28	4	4	–	2	2-3	4-6	4500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	37·3	+6	NE'E	3	b	43	65	33	8	*	4	8	0	1	–
13A	Tiree	44	38·7	-2	NW'N	2	bc	41	85	36	8	4	–	8	2-3	4-6	4000
13B	Stornoway	15	37·9	-2	–	0	c-bc	38	92	37	8	5	7	–	4-6	7-8	3500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	34·9	0	NW	3	b-bc/pr	39	85	37	8	8	–	–	2-3	2-3	3000
	Wick	114	34·8	-4	NW	2	bc	43	65	32	8	5	–	–	4-6	4-6	2000
16	Sumburgh	19	32·0	-6	NNW	4	c/pr	41	75	34	8	5	–	–	9+	9+	2000
17	Blacksod Point	18	40·2	-2	–	0	b	38	97	37	8	5	–	–	1	1	4000
18	Malin Head	84	38·7	-2	N	3	b-bc	46	65	35	8	4	–	–	2-3	2-3	2500
	Aldergrove	268	39·4	+8	–	0	b	33	85	31	8	5	–	1	Tr	Tr	4000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	39·0	-2	SE'S	1	b	41	85	37	8	–	–	–	0	0	–
	Roches Point	22	38·9	+6	N'E	3	b	41	92	39	8	–	–	–	0	0	–

OBSERVATIONS at 7 hr. G.M.T. 17th 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 16th Hrs. (38)
London (Kew)	33·0	+2	N	4	z_0	38	75	30	6	5	–	4	2-3	4-6	2500	1	*	46	36	29	–	–	0·9
Croydon	33·2	+4	NW	2	m	35	92	33	4	5	–	–	9	9	3500	1	*	46	35	32	–	–	0·0
S. Farnborough	33·9	+4	NW'N	2	z_0	34	85	29	5	–	4	–	0	4-6	–	1	*	47	31	21	–	–	1·7
Boscombe Down	35·2	+10	NW	3	z_0	31	92	29	6	–	7	5	0	2-3	–	0	*	47	31	21	–	Tr	2·3
Thorney Island	33·5	+2	NW	3	fg	36	92	32	5	–	–	6	0	2-3	–	1	*	48	34	28	–	–	*
Lympne	31·2	+2	NW	4	z_0	36	92	33	5	5	–	–	1	1	4500	2	§1	47	35	32	–	–	2·5
Manston	30·5	+6	N'W	5	c	40	92	38	9	5	9	6	1	9	1500	1	*	48	39	38	Tr	–	0·9
Shoeburyness	31·6	+2	N'W	3	bc	37	85	32	6	–	3	9	0	4-6	–	1	*	47	35	30	–	–	2·3
Felixstowe	30·8	+2	NW'W	4	z_0	39	85	36	6	5	7	–	4-6	9	4000	1	3	47	38	35	0·2	0·6	0·8
Gorleston	29·1	+4	N	5	c-bc/pr	45	65	34	7	8	–	–	7-8	7-8	1200	1	5	49	43	40	·	1	2·6
Mildenhall	32·0	+2	NW'N	4	c/pr	36	92	33	7	8	3	2	4-6	9	3500	1	*	44	33	31	Tr	0·2	0·4
Cranwell	33·3	+4	NNW	4	z_0	36	85	32	6	–	7	6	0	9	–	0	*	46	36	32	–	–	0·9
Birmingham	35·5	+4	NW	3	f	33	85	29	3	–	–	–	0	0	–	1	*	47	33	21	–	–	1·8
Upper Heyford	34·6	+4	NNW	2	m	31	92	29	4	–	7	2	0	4-6	–	0	*	44	31	27	–	–	*
Ross-on-Wye	35·8	0	NNW	2	z_0	31	85	27	6	–	–	1	0	1	–	3	*	47	31	22	–	–	3·4
Hartland Point	35·4	+2	NE	3	b-bc	44	65	31	7	1	4	–	1	2-3	2500	0	3	49	43	39	–	–	2·3
Bristol	36·4	+6	SW	2	bf-	32	85	29	3	–	–	2	0	1	–	3	*	46	30	21	–	–	1·5
Portland Bill	35·0	+6	N	3	bc	37	85	35	7	5	–	–	4-6	4-6	4000	1	3	48	34	*	–	–	*
Plymouth	36·2	+4	E	2	fs	33	92	31	7	5	–	1	1	2-3	3000	0	3	50	33	21	–	–	6·9
The Lizard	35·3	+2	NNE	3	bc	39	85	34	8	8	4	–	2-3	4-6	2000	0	3	50	37	*	–	–	4·6
Scilly (St. Mary's)	35·7	+2	NE	2	bc	44	65	34	8	5	–	–	4-6	4-6	1200	1	3	52	43	*	–	–	0·6
Guernsey																							
Pembroke	36·7	-6	E'N	2	b-bc	39	92	36	7	1	–	–	2-3	2-3	3000	0	1	51	36	*	–	Tr	4·3
Holyhead (Valley)	36·7	0	N	1	b	35	75	29	8	5	4	8	Tr	1	4000	0	2	57	31	23	–	–	*
Chester (Sealand)	36·1	-2	NNW	1	b	33	85	29	5	–	–	1	0	Tr	–	3	*	47	32	22	–	–	1·8
Manchester	36·2	+2	NW	1	m	29	92	27	4	–	–	1	0	1	–	0	*	44	27	19	–	1	*
Spurn Head	32·5	+8	NW'N	4	PR	39	85	35	7	8	–	–	9	9	1500	1	4	47	38	*	–	2	1·1
Catterick	35·4	+2	WNW	3	c	36	75	29	7	8	4	5	Tr	4-6	3000	1	*	46	36	30	–	–	3·2
Tynemouth	34·1	-4	WNW	4	b-bc	36	75	28	6	–	4	6	0	2-3	–	1		45	36	33	–	Tr	*
St. Abbs Head	34·1	+2	WNW	4	b-bc	40	75	32	7	5	–	–	2-3	2-3	4000	0	4	45	39	*	–	–	*
Leuchars	35·3	-6	W	2	c	35	92	32	7	5	3	–	4-6	9+	5000	1	*	46	32	28	–	–	3·0
Renfrew (Abbots I.)	36·5	-2	–	0	m	33	92	31	4	5	–	–	9+	9+	5000	1	*	50	28	22	–	–	3·2
Eskdalemuir	37·1	-2	–	0	bc	26	85	22	8	5	4	1	4-6	4-6	2800	3	*	43	25	17	–	–	3·3
Point of Ayre	36·5	-6	N	4	b	43	85	37	8	4	4	5	Tr	1	3000	0	3	49	33	*	–	–	2·9
Tiree	37·3	-6	NW'W	2	c	46	85	42	8	7	7	1	2-3	9+	1800	0	1	48	38	*	–	–	0·3
Stornoway	35·1	-10	W	3	c-bc	44	92	42	8	5	7	–	4-6	7-8	3200	1		45	34	27	–	–	1·4
Dalwhinnie	35·5	+2	S	1	c	28	85	24	8	5	–	–	9	9	4000	3	*	40	25	17	–	–	2·1
Aberdeen †	33·8	-6	WNW	3	c	41	75	33	7	5	–	–	9+	9+	3500	1	2	49	37		Tr	–	
Wick	32·2	-18	WSW	3	c	47	85	38	8	4	5	–	9	9	2000	0	4	51	41		Tr	–	*
Sumburgh	28·7	-22	W	5	c	47	85	44	8	5	7	–	9-	9+	2500	1	3	43	39	34	Tr	Tr	0·3
Blacksod Point	39·9	+2	–	0	c	45	85	41	8	5	–	–	4-6	4-6	4000	1	2	53	37	*	–	–	*
Malin Head	38·0	-4	NNW	3	c	48	75	40	8	4	–	–	9+	9+	1500	†	3	49	45		–	–	0·8
Aldergrove	38·9	0	–	0	c	34	97	33	7	5	4	–	4-6	9	2500		*	50			–		
Birr Castle	39·1	-2	S	1	f+	27	97	26	3	–	–	–	10	10	<150	1	*	49	26	22	–	–	3·4
Valentia Obsy.	38·7	+2	–	0	c-bc	33	92	31	8	5	5	–	4-6	7-8	4000	3	1	50	32	25	Tr	Tr	6·9
Roches Point	37·8	-6	N	3	b	37	92	35	8	5	–	–	1	1	2500	1	3	50	36	*	–	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 16th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 17th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	5-	10856	29688	5-	02955	29585	52	02764	27314	52	02865	24317
115	77	02844	32426	52	02844	28327	87	02844	28326			
203												
206	26	01864	27314	43	02863	28125	54	01953	28323	53	02864	28427
210	56	02864	30427	8-	02857	62527	46	02854	60327	03	02878	21328
220												
230				10	02961	28425	40	01961	30323	57	02863	00027
245	8-	02956	28217	53	02863	26227	54	01861	28226	53	02764	24217
260	10	01862	30314	40	01761	28211	00	05690	26113	54	02874	24115
278	50	02851	30517	54	02851	01426	00	17690	22113	53	02861	28317
279	54	05662	30116	54	01761	02324	00	05690	28214	50	05663	00013
285	23	01854	30414	13	01852	28414				13	01852	28413
288	20	17663	63514	53	17463	26325	5-	05655	22385	07	05690	26312
575	10	02853	32315	40	01854	32115	03	01790	00004	03	05690	00003
301	00	05690	30247	00	41490	32141	00	05690	04103	03	05690	10103
321	53	02775	28425	93	02790	30325	52	05654	28425	53	00056	28325
299	80	14755	30615	80	14753	30614	80	14754	32614	80	14755	32515
292	50	01754	30414	00	05690	29414	54	01752	28384	53	02754	31225
310										--	01632	24413
614	50	05576	30226	50	05563	30224	04	05690	29314	57	05565	30316

III	13h. G.M.T. 16th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 17th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	53	02863	01424	00	01790	32113	54	05661	32214	50	01861	30203
334				--	01790	06203				--	01781	00002
340	00	08490	32224	40	05462	31325				02	08490	30113
136	5-	81667	28587	20	25655	30485	8-	25648	30588	8-	81657	30487
336	13	01753	04314	50	01753	04314				50	01762	04312
350				03	05690	30416				54	05673	28316
368	54	02664	05215	50	00662	32102	00	05690	00004	50	05663	32103
379	07	05590	02327				00	05590	32413	53	05554	28305
390	57	05663	32325	00	05690	30412	07	05590	32524	57	22553	32585
382	07	05690	01228	07	05690	02218	00	05590	32410	50	05661	30315
438	5-	05648	32328	54	05653	02314	54	01652	02413	57	02645	02415
430	50	05558	02218	00	05690	32214	00	05690	32314	00	05690	02416
409	53	01754	05424	50	01757	04207	50	01663	06103	54	02754	06104

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 17th 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 *	cm₀wcz₀	bccw	cbcbm₀x
Croydon	ombcfcm	czbcz	bcfbacm
Greenwich	cm.	c⊕bm.	bcbcm.
Camden Square	bc	b	*
*Kensington	bc	bc	*
Hampstead			

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 0·2 Time 7-18h 16th.
Min. 0·1 Time 05h 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	46	36	29	–	–	0·9	*	*
Croydon	46	35	32	–	–	0·0	*	*
Greenwich	45	37	29	–	–	1·1	65	79
Westminster	47	38	31	–	–		71	82
Regents Park	46	37	33	–	–		58	91
Camden Square	46	37	31	–	–	*	*	79
Kensington	47	37		–	–		64	72
Hampstead							*	

SECRET

Page 1 BRITISH SECTION

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

Wednesday 18th November 1942

No. 29581

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)	Amount Low 0–10 (13)	Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	33·8	−6	N	3	zo	45	65	35	6	7	–	–	9+	9+	4000
	Croydon	33·3	−6	NNW	3	m	44	75	37	4	5	3	–	4-6	10	3500
	S. Farnborough	33·8	−12	NNW	3	zo	43	65	33	6	–	4	6	0	7-8	–
	Boscombe Down	34·8	−10	NWN	3	zo	43	75	35	6	–	–	8	0	7-8	–
	Thorney Island	33·4	+4	N	4	zo	45	65	35	6	–	–	6	0	4-6	–
	Lympne	31·5	−2	NNW	4	zo	44	75	37	6	1	–	2	Tr	4-6	2000
	Manston	31·0	−6	N	5	zo	44	85	40	6	2	3	8	1	9	2000
2	Shoeburyness	32·6	−4	NNW	4	bc	45	75	38	7	–	–	9	0	4-6	–
	Felixstowe	30·6	−8	WNW	4	c-bc	45	85	43	7	5	–	6	4-6	7-8	4000
	Gorleston	30·7	+4	N'E	4	bc/pr	46	65	36	7	8	–	–	4-6	4-6	1200
	Mildenhall	32·8	−4	NWN	4	pr	43	85	38	7	8	7	1	2-3	9+	2500
	Cranwell	34·2	0	N'W	4	zo	42	75	35	6	5	7	–	7-8	9+	3500
3	Birmingham	35·5	−2	NNW	3	zo	42	65	32	5	–	–	2	0	4-6	–
	Upper Heyford	34·5	−8	N'W	3	zo	41	75	33	5	–	7	6	0	7-8	–
4	Ross-on-Wye	35·4	−8	N	3	b-bc	43	65	31	8	–	–	4	0	2-3	–
5	Hartland Point	35·9	−4	NE	3	b-bc	46	65	34	8	1	4	5	Tr	2-3	2500
	Bristol	35·3	−18	N	2	zo	43	75	33	6	–	–	2	0	2-3	–
	Portland Bill	35·0	−6	N	3	c-bc	45	85	40	7	5	–	–	7-8	7-8	4000
	Plymouth	36·6	−2	–	0	zo	45	65	35	7	–	–	8	0	2-3	–
	The Lizard	35·6	−6	NNE	3	bc	47	55	33	8	4	4	–	2-3	4-6	2500
	Scilly (St. Mary's)	36·3	−2	NE'N	2	bc	47	65	40	8	·5	–	1	2-3	4-6	1600
	Guernsey															
6	Pembroke	38·1	+2	E'S	2	bc	45	65	34	8	1	6	–	2-3	4-6	3000
7	Holyhead (Valley)	37·1	−2	N	2	bc	48	92	46	8	1	4	8	4-6	4-6	3000
	Chester (Sealand)	35·8	+12	NWN	1	zo	46	65	36	6	–	3	–	0	9+	–
8	Manchester	35·7	−14	SW	1	m	40	75	33	4	–	3	–	0	9	–
10	Spurn Head	33·1	+2	NW	5	jr	43	85	38	6	8	–	–	9+	9+	1500
	Catterick	35·4	−2	NW	2	c-bc	44	65	32	7	–	3	5	0	7-8	–
	Tynemouth	34·3	−6	W	4	c	43	65	34	6	5	–	–	9	9	3500
11	St. Abbs Head	33·1	−12	W	2	bc	46	45	27	7	5	4	–	4-6	4-6	3000
	Leuchars	32·6	−16	W	3	b-bc	47	75	38	8	5	7	2	Tr	2-3	5000
12	Renfrew (Abbots I.)	34·4	−14	WSW	3	bc	51	65	39	8	1	4	1	Tr	4-6	3000
	Eskdalemuir	34·0	−12	SE'S	2	bc	41	75	32	8	–	7	8	0	4-6	–
	Point of Ayre	36·0	−10	NNW	3	bc	49	85	42	8	1	4	6	1	4-6	2000
13A	Tiree	36·2	−8	NW'W	4	c	49	75	41	8	5	–	–	9+	9+	2500
13B	Stornoway	33·4	−12	NW	3	c	48	85	43	8	5	–	–	9+	9+	2800
15	Dalwhinnie	32·3	−12	SW	2	b-bc	47	92	44	8	1	4	1	Tr	2-3	4000
	Aberdeen	31·2	−20	NW	3	b-bc	48	65	37	7	5	3	6	1	2-3	4000
	Wick	30·4	−10	W	5	c	48	75	41	8	5	–	–	10	10	2000
16	Sumburgh	26·0	−18	W	6	d.d.	47	97	47	6	5	–	–	9+	9+	500
17	Blacksod Point	39·2	−2	–	0	b-bc	52	85	48	8	8	–	–	2-3	2-3	4000
18	Malin Head	37·2	−6	NWN	3	c	48	75	41	8	4	5	–	2-3	9	2500
	Aldergrove	37·4	−12	WSW	1	b-bc	47	75	40	7	–	4	4	0	2-3	–
19	*Birr Castle	39·7	0	W	2	b-bc	43	85	39	8	5	–	–	2-3	2-3	2500
20	Valentia Obsy.	38·3	−4	W'S	2	b	48	75	41	9	–	3	–	0	Tr	–
	Roches Point	39·0	−2	N	3	b	44	85	40	7	–	–	1	0	1	–

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)	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)	33·7	+4	NNW	2	m	41	75	35	4	5	3	6	2-3	7-8	4000	1	•
Croydon	33·4	+2	N'E	2	c-bcf4	41	85	37	3	–	7	–	0	7-8	–	1	•
S. Farnborough	33·7	0	NW	2	zo	40	85	35	5	–	3	–	0	2-3	–	1	•
Boscombe Down	34·7	+2	N'W	1	zo	36	85	32	6	–	7	2	0	9+	–	0	•
Thorney Island	33·5	+2	W	2	zo	39	85	35	6	–	4	8	0	4-6	–	1	•
Lympne	31·2	+6	N	4	zo	39	92	36	6	–	–	2	0	7-8	–	1	3
Manston	31·9	+6	N	4	zo	43	85	39	6	2	7	–	2-3	4-6	1800	1	•
Shoeburyness	32·3	+4	N'W	3	bc	39	92	37	6	–	–	8	0	4-6	–	0	•
Felixstowe	32·0	+8	WNW	3	zo	40	92	38	6	–	–	6	0	4-6	–	0	2
Gorleston	30·9	+6	NNW	2	zo	44	75	35	6	5	–	–	4-6	4-6	1000	1	3
Mildenhall	32·7	0	NW	3	zo	41	85	37	6	5	–	–	9+	9+	2500	1	•
Cranwell	33·4	−2	NW	1	zo	38	85	33	5	–	–	2	0	9	–	0	•
Birmingham	34·5	−6	NW	2	m	38	75	31	4	–	–	2	0	7-8	–	1	•
Upper Heyford	34·2	+2	NW	1	m	34	92	31	4	–	–	–	0	0	–	0	•
Ross-on-Wye	34·8	−6	W	1	zo	36	85	31	6	–	–	1	0	2-3	–	1	•
Hartland Point	35·2	+2	NNE	3	bc	45	75	36	8	1	–	5	2-3	4-6	3000	0	3
Bristol	35·0	+2	WSW	1	b-bcf4	36	85	32	3	–	–	3	0	2-3	–	1	•
Portland Bill	33·9	−8	N	3	c-bc	43	85	38	7	5	–	–	7-8	7-8	4000	1	3
Plymouth	35·9	+2	ENE	1	m	41	75	34	4	–	–	7	0	7-8	–	0	3
The Lizard	35·2	+2	NE'N	3	bc	41	75	35	8	8	4	–	2-3	4-6	2500	0	3
Scilly (St. Mary's)	35·7	+2	NEN	4	bc	46	65	36	8	1	–	5	2-3	4-6	1800	0	4
Guernsey																	
Pembroke	36·7	−2	N'E	2	bc	43	85	39	8	4	–	2	2-3	4-6	3000	1	1
Holyhead (Valley)	36·1	−2	NWN	2	c	47	85	43	8	5	–	–	9+	9+	1400	0	1
Chester (Sealand)	34·7	−6	NW	1	c	41	85	38	7	5	–	–	9	9	3000	1	•
Manchester	35·0	−6	W	2	m	36	92	34	4	–	3	2	0	4-6	–	0	•
Spurn Head	32·4	−4	NW'W	5	zo	42	75	34	6	–	3	–	0	2-3	–	0	4
Catterick	33·2	−8	WNW	2	zo	38	75	32	6	–	4	–	0	2-3	–	1	•
Tynemouth	32·3	−6	W	4	zo	39	85	35	6	–	4	–	0	4-6	–	1	4
St. Abbs Head	30·9	−6	W	3	b-bc	44	75	37	7	5	4	–	1	2-3	4000	0	3
Leuchars	30·8	0	SW	3	bc	41	92	39	8	–	–	8	0	4-6	–	1	•
Renfrew (Abbots I.)	32·7	−14	SWW	3	zo	44	75	38	6	5	4	8	1	4-6	3000	1	•
Eskdalemuir	31·8	−12	W	4	bc	42	75	34	8	5	7	–	2-3	4-6	2700	1	•
Point of Ayre	34·4	−8	NNW	5	c	49	75	42	8	8	–	–	9	9	2000	0	4
Tiree	35·0	0	NWW	4	c	48	75	41	8	5	–	–	9+	9+	2500	0	2
Stornoway	32·3	−6	W	4	c	48	85	43	7	5	–	–	10	10	2600	0	*
Dalwhinnie	33·5	−10	NW	2	c-bc	40	75	34	8	1	4	2	Tr	7-8	4000	0	•
Aberdeen	30·8	−2	WN	1	c	46	75	35	6	5	–	8	9	9	2500	1	2
Wick	27·9	−14	WN	6	c	48	85	43	8	5	–	–	9+	9+	1500	0	•
Sumburgh	23·0	−20	WN	7	id.	40	92	37	7	5	–	–	4-6	10	1000	1	4
Blacksod Point	38·4	−6	WNW	2	c	46	92	44	8	5	3	–	4-6	9	4000	1	2
Malin Head	35·9	−6	NW'W	3	c	48	75	41	8	5	–	–	10	10	2500	1	3
Aldergrove	37·0	−2	NW'W	2	bc	42	85	37	7	5	–	–	4-6	4-6	2000	1	•
*Birr Castle	38·1	−4	NW	1	b	33	97	32	8	–	–	–	0	0	–	1	•
Valentia Obsy.	37·6	−6	–	0	b	39	85	34	9	–	3	–	0	Tr	–	1	1
Roches Point	37·6	−6	N	2	b	42	85	38	8	–	–	1	0	1	–	1	3

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 17th (39)	13h.—18h. 17th (40)	18h. 17th to 1h. 18th (41)	1h.–7h. 18th (42)
London (Kew)	bcm.czo	bbccm	bmmow	bmx
Croydon	cmbcmcm	czczocm	cfbcfx	bcfx
S. Farnborough	bcm.czo	cbcz.mo	bcm.bbcmfx	bcfbmcmxm.
Boscombe Down	cm.	cm.	cm.bcm.fg	ccm.
Thorney Island	cmow	bccbcz	bcz.bm	bmx cm.
Lympne	bcm.cbc	bcz.ocm.	cm.bcm.	bmwfx
Manston	cm.	cbcm.	bcm.	cbm.mw
Shoeburyness	bcwm.bc	bcc bcm.	bcm.bc.	bxm
Felixstowe	cm.c	ccm.bcm.	cm.bcm.	bcm.bmw
Gorleston	cprbc	bcpr.zo	cbcz.	bbccmwx
Mildenhall	cpr.m.	cpr.ccm.	bmcm	cmbfx
Cranwell	cprcm.	cm.	bf	bfbmx
Birmingham	Fbbcz	bcz	bcc	cz
Upper Heyford	bcmm.cm.	cz.m.bm	bcnbmcm	cmcm.
Ross-on-Wye	bcz.b	bc	bcc	c
Hartland Point	bc	bc	bcc	c
Bristol	bfbcmm.	bcz.zf	bcmm.cm	bmx, cm
Portland Bill	c	c	cbc	bcc
Plymouth	bmm.bc	bc	bcm.ifx	bccmif
The Lizard	bcy	bc	mcw	bcbc
Scilly (St. Mary's)	bccbc	bc	cbc	cbc
Guernsey				
Pembroke	bc	bc	bcc	c
Holyhead (Valley)	bbc	c	c	c
Chester (Sealand)	bbcm.x	cbcm.c	cm.	cm.zo.
Manchester	bcfcm	czbcz	bcmcfm	cm.
Spurn Head	cirm.	bcm.	b	b
Catterick	bc	cbc	bcbm.	bc
Tynemouth	bc	cbc	bcb	bbc
St. Abbs Head	bcbbcb	bcm.b	b	cbc
Leuchars	cxbc	czcbccbc	bcbbc	bcc
Renfrew (Abbots I.)	cmm.bc	bcm.	bcz.b	bcm.w
Eskdalemuir	bcxcbc	bc	bc	bcc
Point of Ayre	bbcc	bcc	bcc	c
Tiree	c	c	c	c
Stornoway	cwc	c	cd.d.m.	cd.d.m.cid
Dalwhinnie	c,by	b,c		c
Aberdeen	cbcb	bcc	cz.c	c
Wick	c	c	cir.	cd.d.irc
Sumburgh	cidd.dm.	cd.d.id.	cid.	cid.ir.ddm.
Blacksod Point	b	c	c	c
Malin Head	c	c	r	r
Aldergrove	cm.bcb	bbc	bcc	c
*Birr Castle	F	b		c
Valentia Obsy.	bc	b	b	b
Roches Point	bc	bc	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday, November 18th 1942

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Light or moderate west to northwest wind; fine; some fog patches at night; rather cold by day, moderate temperature at night, but local slight frost.
4 W. Midlands; 5 S.W. England; 6 South Wales	Light north to northwest wind; mainly cloudy; rather cold by day, moderate temperature at night
7 North Wales; 8 N.W. England; 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland; 12 S.W. Scotland & Isle of Man	Moderate or fresh northwesterly wind; mainly cloudy; local drizzle in the West; some fairer periods in the East; mainly mild but rather cold in the East.
13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Moderate or fresh northwest to west wind, strong locally; cloudy or overcast, intermittent rain or drizzle, mild by day and night.
16 Orkneys and Shetlands	As 13A–15
17 N. W. Ireland; 18 N. E. Ireland	As 7–12
19 S. E. Ireland; 20 S. W. Ireland	Light northerly wind. Mainly fine, but some local fog night and morning; rather cold.

GENERAL INFERENCE

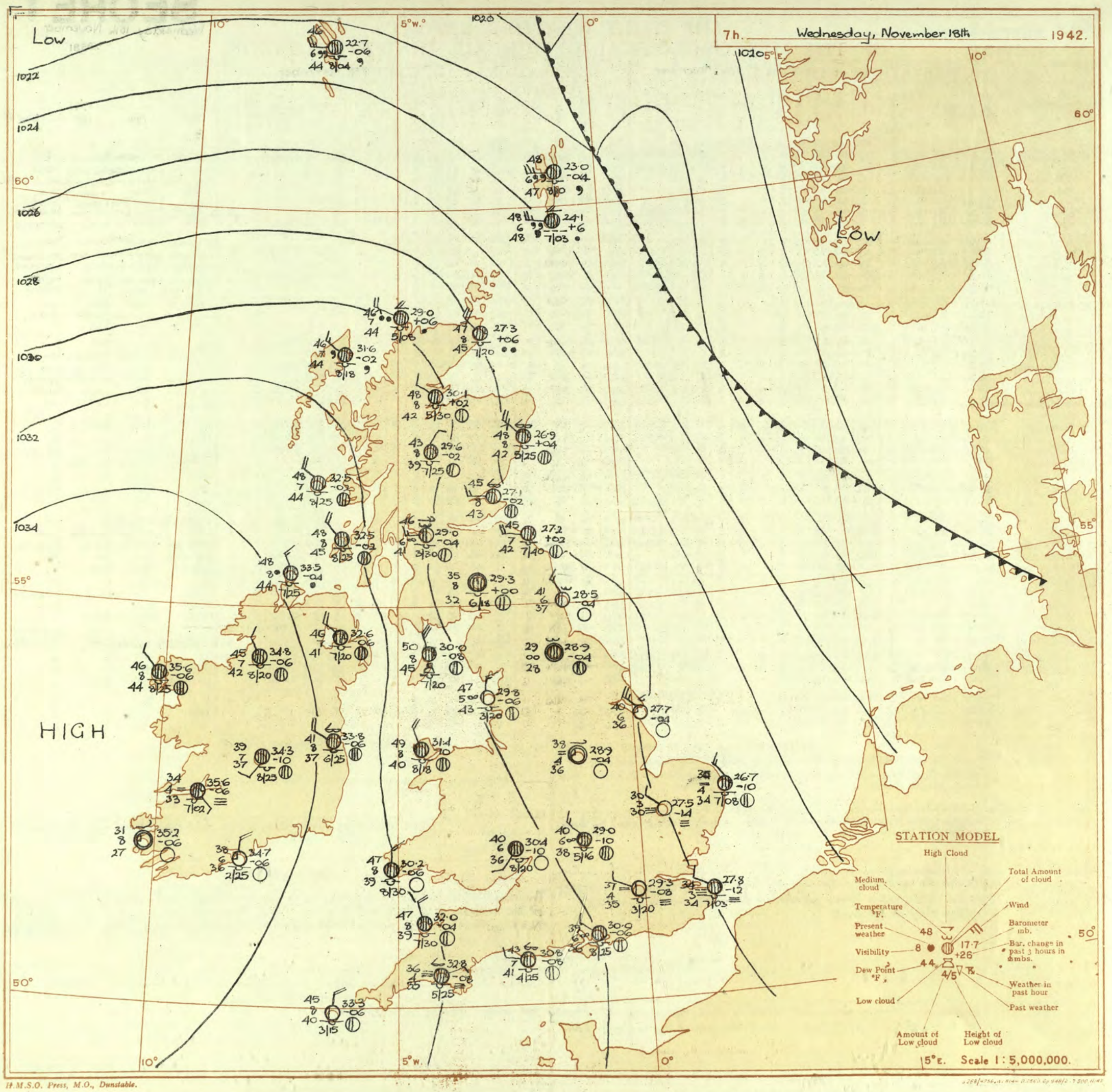
The anticyclone remains centred just West of Ireland. Weather will be fair over most of the country, but there will be some slight local rain or drizzle in the extreme North or Northwest. It will be mild in the North and Northwest, rather cold elsewhere

FURTHER OUTLOOK

No great change indicated.

Forecasts issued at 1030

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



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

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

Explanation of Frontal Lines shown on Charts

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

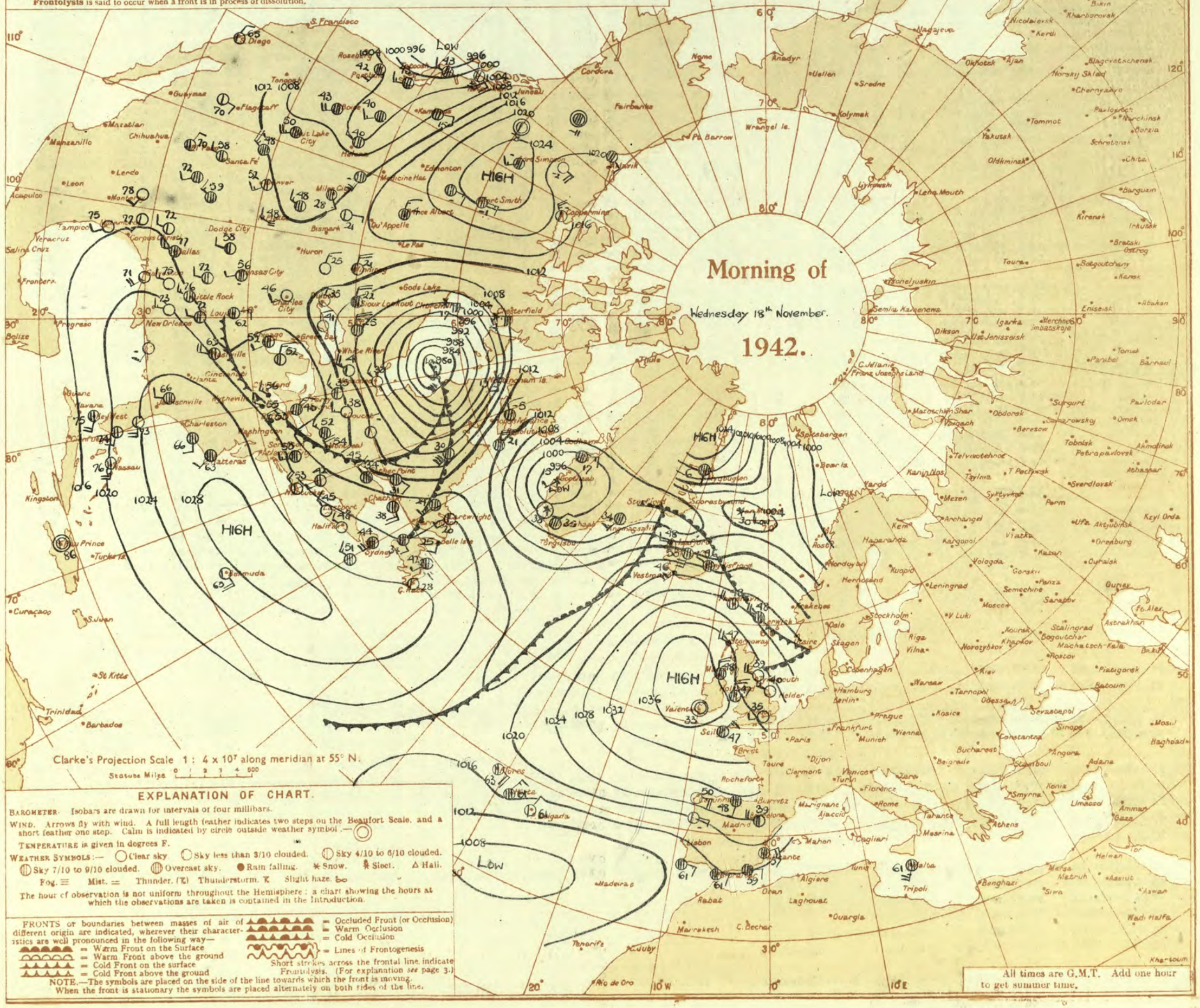
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

BRITISH SECTION

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

Wednesday 18th November 1942

No. 29531

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)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	36	*	*	*	*	*	*	*	*	*
	Croydon ...	290	32·2	-10	WSW	1	bcf	35	92	32	3	-	3	-	0	4-6	-
	S. Farnborough	226	32·7	-10	W	2	bcf	31	92	30	3	-	4	2	0	4-6	-
	Boscombe Down	417	33·3	-10	NW'W	1	fg	34	92	31	6	5	-	-	4-6	4-6	4000
	Thorney Island	10	32·8	-6	NW	2	m	34	92	32	4	-	-	-	0	0	-
	Lympne ..	283	31·3	-6	NW	2	z.	36	85	34	5	-	3	-	0	2-3	-
	Manston ...	154	30·7	-6	NNW	3	z.	42	85	37	6	5	7	-	2-3	9+	1500
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	30·4	-10	W	3	z.	38	85	34	5	-	3	-	0	4-6	-
	Gorleston ...	5	29·3	-4	NW'W	2	be	40	85	35	6	-	3	-	0	4-6	-
	Mildenhall ...	15	30·5	-14	WSW	3	m	33	85	30	4	-	3	-	0	9+	-
	Cranwell ...	203	30·8	-12	W	1	bf	34	97	33	3	-	-	1	0	1	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	32·7	-12	WNW	1	m	34	97	34	4	5	-	-	7-8	7-8	2300
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	34·2	-6	N	4	c	47	75	39	8	5	-	-	9+	9+	4000
	Bristol ...	209	34·2	-10	WSW	2	m	32	92	30	4	5	-	-	10	10	2800
	Portland Bill ...	32	33·7	-8	N	1	bc	41	92	39	7	2	-	-	4-6	4-6	4000
	Plymouth ...	82	35·2	-6	NE	1	if	34	92	31	5	-	7	1	0	2-3	-
	The Lizard ...	240	34·7	-4	NE'E	3	bc	40	85	36	8	4	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	35·2	0	NE'E	3	c-bc	47	75	40	8	1	4	-	4-6	7-8	1500
	Guernsey ...	175															
6	Pembroke ...	142	35·2	-6	NNE	3	c	45	85	39	8	4	-	2	9	9	4000
7	Holyhead (Valley)	32	34·4	-6	NNW	4	c	47	75	38	8	5	-	-	9+	9+	2000
	Chester (Sealand)	16	31·7	-14	NW	2	z.	47	85	41	6	5	-	-	9+	9+	3000
8	Manchester ...	235	31·6	-16	W'N	3	z.	44	92	40	6	5	-	-	9+	9+	1700
10	Spurn Head ...	29	29·9	-16	WNW	4	b	40	85	36	7	-	-	-	0	0	-
	Catterick ...	175	30·7	-2	-	0	z.	31	97	31	6	-	-	1	0	Tr	-
	Tynemouth ...	108	29·9	-6	W	4	b	39	92	38	6	-	-	-	0	0	-
11	St. Abbs Head	280	28·4	-16	W	4	b-bc	54	85	50	7	4	4	-	2-3	2-3	4000
	Leuchars ...	36	28·6	-12	W'N	4	bc	40	97	39	8	-	3	-	0	4-6	-
12	Renfrew (Abbots L.)	19	30·9	-14	W	4	b-bc	46	75	40	7	-	4	-	0	2-3	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	32·0	-12	NNW	6	c	49	75	42	8	8	-	-	9+	9+	2000
13A	Tiree	44	34·1	-6	NW'N	4	c	48	75	41	7	5	-	-	10	10	2500
13B	Stornoway ...	15	32·8	+6	WNW	3	d.d.	47	97	45	6	5	-	-	10	10	1900
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	28·5	-2	NW	5	c	43	75	36	9	5	7	-	2-3	9+	3500
	Wick ...	114	27·2	-10	NW	6	ir.	47	85	44	8	5	-	-	10	10	1400
16	Sumburgh ..	19	23·4	+6	W	6	id.	49	92	47	7	5	-	-	9+	10	1000
17	Blacksod Point	18	37·6	-6	-	0	c	46	92	44	8	5	-	-	10	10	2500
18	Malin Head ...	84	35·1	-2	N'W	4	c	48	75	41	8	5	2	-	7-8	10	1500
	Aldergrove ...	268	34·8	-10	W'N	4	c	45	85	40	7	5	-	-	9+	10	1900
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	37·2	-6	-	0	b	33	97	33	8	-	-	-	0	0	-
	Roches Point	22	36·8	-6	N	3	b	38	92	36	8	-	-	-	0	0	-

OBSERVATIONS at 7 hr. G.M.T. 18th 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)	28·9	-10	WSW	1	m	36	92	34	4	-	-	5	0	2-3	-	1	*
	Croydon ...	28·3	-8	WNW	2	m	37	92	35	4	5	-	-	2-3	2-3	2000	1	*
	S. Farnborough	29·4	-10	NW	2	z.	37	92	35	6	5	-	-	9+	9+	2000	3	*
	Boscombe Down	30·6	-4	W'N	3	z.	39	85	36	6	5	-	-	9+	9+	2000	0	*
	Thorney Island	30·0	-6	WNW	2	z.	39	85	36	6	5	-	-	10	10	2500	1	*
	Lympne ..	28·4	-12	NW	1	bf+	31	97	31	3	-	-	-	0	0	-	1	§2
	Manston ...	27·8	-12	WNW	2	cf+	34	97	34	3	5	-	-	9+	9+	300	1	*
2	Shoeburyness...	28·1	-18	NNW	2	m	34	97	33	4	-	-	-	0	0	-	1	*
	Felixstowe ...	27·5	-12	W'N	3	m	37	92	34	4	5	-	-	1	1	450	0	2
	Gorleston ...	26·7	-10	NW'W	3	m	35	92	34	4	5	-	-	9+	9+	800	0	2
	Mildenhall ...	27·5	-14	WNW	2	bf	30	97	30	3	-	-	-	0	0	-	1	*
	Cranwell ...	28·3	-6	WNW	3	m	35	97	35	4	-	4	1	0	1	-	0	*
3	Birmingham ...	29·2	-8	NNW	3	z.	45	85	41	5	5	-	-	10	10	1500	1	*
	Upper Heyford	29·0	-10	NW'W	3	z.	40	92	38	6	5	-	-	7-8	7-8	1600	0	*
4	Ross-on-Wye	30·4	-10	SW	1	c	40	85	36	6	5	-	-	10	10	2000	1	*
5	Hartland Point	32·0	-4	NNW	4	c	47	75	39	8	5	-	-	9+	9+	3000	0	3
	Bristol ...	31·7	-6	SW	2	z.	39	92	36	6	5	-	-	7-8	7-8	2500	1	*
	Portland Bill ...	30·8	-8	W	2	c	43	92	41	7	5	7	-	4-6	9	2500	1	3
	Plymouth ...	32·8	-8	ENE	2	if	36	97	35	4	5	7	-	7-8	9+	2500	0	1
	The Lizard ...	32·4	-10	NW	3	bc	43	92	41	7	8	4	-	2-3	4-6	2000	0	3
	Scilly (St. Mary's)	33·3	-6	N	4	b-bc	45	85	40	8	5	-	-	2-3	2-3	1500	0	3
	Guernsey ...																	
6	Pembroke ...	30·2	-6	N	3	c	47	75	39	8	4	-	-	10	10	3000	0	1
7	Holyhead (Valley)	31·4	-10	NNW	4	c	49	75	40	8	5	-	-	10	10	1800	0	1
	Chester (Sealand)	29·6	-8	WNW	3	z.	48	75	42	6	5	-	-	9+	9+	3000	0	*
8	Manchester ...	29·6	-8	NW'W	2	z.	43	92	40	5	5	3	-	4-6	7-8	2000	0	*
10	Spurn Head ...	27·7	-4	NW'W	5	b	40	85	36	6	-	4	-	0	1	-	0	4
	Catterick ...	28·9	-4	-	0	z.	29	97	28	6	-	3	-	0	9	-	1	*
	Tynemouth ...	28·5	-4	NNW	3	bc	41	85	39	6	-	3	-	0	4-6	-	1	3
11	St. Abbs Head	27·2	+2	W	4	c	45	85	42	7	5	-	-	9+	9+	4000	0	3
	Leuchars ...	27·1	-2	W	3	c	45	92	43	8	-	7	-	0	9	-	1	*
12	Renfrew (Abbots L.)	29·0	-4	W	3	z.	46	85	41	6	5	3	2	2-3	4-6	3000	1	*
	Eskdalemuir ...	29·3	0	-	0	c	35	92	32	8	5	-	-	9	9	1800	1	*
	Point of Ayre...	30·0	-8	N'W	6	c	50	85	45	8	8	-	-	9+	9+	2000	0	5
13A	Tiree	32·5	-2	NW	4	c	48	85	44	7	5	-	-	10	10	2500	0	2
13B	Stornoway ...	31·6	-2	WNW	3	id.	46	92	44	7	5	-	-	10	10	1800	1	*
15	Dalwhinnie ...	29·6	-2	NNE	1	c	43	85	39	8	5	-	-	9+	9+	2500	0	*
	Aberdeen † ...	26·9	+4	NW'N	5	c	48	75	42	8	5	7	-	7-8	9+	2500	1	3
	Wick ...	27·3	+6	NW	6	c/r	47	92	45	8	5	-	-	9+	9+	2000	1	*
16	Sumburgh ..	24·1	+6	W	5	dd	48	97	47	6	6	2	-	9+	10	300	1	4
17	Blacksod Point	35·6	-6	NW	1	c	46	92	44	8	5	-	-	10	10	2500	1	2
18	Malin Head ...	33·5	-4	NNW	3	ir.	48	85	44	8	5	-	-	9+	9+	2500	1	3
	Aldergrove ...	32·6	-6	NW	4	c	46	85	41	7	5	-	-	9+	9+	2000	1	*
19	Birr Castle ...	34·3	-10	SW	2	c	39	92	37	7	5	-	-	10	10	2500	1	*
20	Valentia Obsy.	35·2	-6	-	0	b	31	85	27	8	-	-	1	0	Tr	-	3	1
	Roches Point	34·7	-6	N	4	b	38	92	36	8	5	-	-	1	1	2500	1	3

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 17th Hrs. (38)
1	London (Kew)	45	34	23	-	Tr	1·8
	Croydon ...	44	34	28	-	-	0·0
	S. Farnborough	45	30	19	-	-	3·4
	Boscombe Down	43	30	22	-	-	3·7
	Thorney Island	45	31	24	-	-	*
	Lympne ..	44	30	26	-	-	4·9
	Manston ...	46	33	31	-	-	3·7
2	Shoeburyness...	46	32	23	-	-	4·4
	Felixstowe ...	46	35	31	-	-	4·2
	Gorleston ...	48	34	31	1	-	1·0
	Mildenhall ...	43	30	26	0·1	Tr	0·6
	Cranwell ...	44	32	25	-	-	1·9
3	Birmingham ...	43	37	29	-	-	2·6
	Upper Heyford	42	30	24	-	-	*
4	Ross-on-Wye	44	31	24	-	-	5·8
5	Hartland Point	47	44	39	-	-	6·9
	Bristol ...	44	30	21	-	Tr	4·2
	Portland Bill ...	45	40	*	-	-	*
	Plymouth ...	46	32	22	-	-	7·4
	The Lizard ...	48	40	*	-	-	7·9
	Scilly (St. Mary's)	51	45	*	-	-	7·6
	Guernsey ...						
6	Pembroke ...	48	37		-	-	6·5
7	Holyhead (Valley)	50	44	41	-	-	*
	Chester (Sealand)	46	43	31	-	-	2·1
8	Manchester ...	42	34	29	-	-	*
10	Spurn Head ...	44	38		1	-	0·0
	Catterick ...	45	27	20	-	-	6·0
	Tynemouth ...	43	39	35	-	-	*
11	St. Abbs Head	48	43		-	-	
	Leuchars ...	48	38	31	-	-	3·9
12	Renfrew (Abbots L.)	51	41	34	-	-	4·3
	Eskdalemuir ...	45	34	30	-	-	4·4
	Point of Ayre...	50	48	*	-	-	5·5
13A	Tiree	49	47	*	-	-	0·0
13B	Stornoway ...	48	43	44	-	0·1	0·0
15	Dalwhinnie ...	47	37	24	-	*	6·0
	Aberdeen † ...	48	45	43	-	-	0·4
	Wick ...	48	46	44	-	0·1	2·5
16	Sumburgh ..	49	48	46	0·2	Tr	0·0
17	Blacksod Point	53	44	*	-	-	*
18	Malin Head ...	48	47		-	Tr	0·1
	Aldergrove ...	48	41	38	-	-	3·9
19	Birr Castle ...	46	29	24	-	-	3·1
20	Valentia Obsy.	50	29	23	Tr	Tr	5·7
	Roches Point	48	36	*	Tr	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 17th November				18h. G.M.T.				01h. G.M.T. 18th November				07h. G.M.T.			
IIIC$_L$C$_M$	wwVhN$_h$	DDFWN		C$_L$C$_M$	wwVhN$_h$	DDFWN		C$_L$C$_M$	wwVhN$_h$	DDFWN		C$_L$C$_M$	wwVhN$_h$	DDFWN	
109 5-	03758	26558		5-	02747	59657		6-	52548	20658		5-	51635	20555	
115 52	02844	21527		52	02745	57558		52	62735	59468		52	62735	59468	
203															
206 53	01863	24274		53	01864	-4214		53	02863	26225		50	02865	26215	
210 53	02865	22425		53	02864	22427		53	02855	56428		5-	02857	23327	
220												52	01745	25328	
230 5-	02856	24226		5-	02857	26327		5-	02858	28428		53	01853	28424	
245 54	01990	20213		00	01990	00002		05	02890	25215		54	02866	25117	
260 03	05590	20213		00	05590	20210		03	47290	20213		53	05654	20226	
278 57	02864	29426		5-	02857	28527		53	02856	61627		5-	02857	61527	
279 57	05671	17225		50	05661	18313		53	01854	24111		53	02863	19115	
285				23	05634	30415									
288 03	05690	26327		00	05590	22214		00	05590	18101		05	05590	17126	
575 03	02890	30115		5-	02758	28118		5-	02758	30228		5-	02758	30228	
301 03	05690	20226		5-	05657	30217		5-	02747	63427		50	05553	32313	
321 03	02790	28426		03	08490	26223		00	45390	26200					
299 87	05654	32515		87	02754	28214		00	05690	24200		50	01753	28313	
292 03	02790	28328		03	05690	26213		00	05590	20113		03	05590	22103	
310															
614 00	05590	+2227		07	45390	21146		00	43390	26143		00	08490	00002	

13h. G.M.T. 17th November				18h. G.M.T.				01h. G.M.T. 18th November				07h. G.M.T.			
IIIC$_L$C$_M$	wwVhN$_h$	DDFWN		C$_L$C$_M$	wwVhN$_h$	DDFWN		C$_L$C$_M$	wwVhN$_h$	DDFWN		C$_L$C$_M$	wwVhN$_h$	DDFWN	
333 54	02861	32125		53	02864	02227		5-	02757	02327		5-	02757	31427	
334 --	05563	02114		--	05563	10214						--	04453	00014	
340				--	08490	28113		53	05554	28128		5-	05658	28228	
136 8-	81647	30387		5-	05658	30488		03	08490	24323		--	05463	26343	
336 03	01790	04313										57	02754	04328	
350								03	08490	24202		04	08490	20112	
368 00	00680	31202		00	01690	00014		00	00690	00000		5-	05658	22228	
379 00	05590	30414		07	08490	28323		57	05654	26317		5-	05658	26428	
390 13	05652	32425		5-	08457	28327		04	47390	28242		00	45390	26140	
382 03	05690	01315		00	08490	28113		5-	05666	28106		5-	05657	26227	
438 07	05590	01414										5-	02665	28415	
430 03	05690	32314		03	05590	32314		00	08490	26213		5-	05568	26128	
409 10	01861	03313		14	01861	03204		53	01862	32114		5-	02855	32355	

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 18th 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 ...	bcm.c2o	bbccm	bm.wbmx	Kew 24 hours ended 7h. Max. Time 0·5 7h 18th
Croydon ...	cmbcmm	c2c2cm	cfbcfx	
Greenwich ..	bcb	bc	cbbcwbfx	
Camden Square	bc	c	*	
Kensington ...	bc	bc	*	
Hampstead ...	bc	bcmx	bcm	Min. Time 0·2 11–12h 17th

Stations.	Temperature Day Max °F	Temperature Night Min °F	Temperature Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	45	34	23	-	Tr	1·8	*	*
Croydon ...	44	34	28	-	-	0·0	*	*
Greenwich ...	44	33	26	-	-	2·7	73	93
Westminster ..	46	33	27	-	-		77	99
Regents Park ...	44	34	28	-	-		73	91
Camden Square	45	34	27	-	-	*	*	92
Kensington ...	45	34	24	-	-		71	92
Hampstead	43	31	27	-	-		*	92

SECRET

Page 1 BRITISH SECTION

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

Thursday 19th November 1942

No. 29582

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)	Med. (11)	High (12)	Amount Low 0–10 (13)	Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	27.8	-10	NNW	2	zo	47	65	35	6	1	4	-	Tr	1	2500
	Croydon	28.0	-14	NNW	3	m/f	47	75	38	4	-	3	-	0	9+	-
	S. Farnborough	28.2	-10	N'W	3	zo	48	75	40	6	5	-	-	7-8	7-8	3000
	Boscombe Down	29.1	-8	NW	4	c	46	85	41	7	5	-	-	9	9	2000
	Thorney Island	27.9	-18	N'W	3	zo	48	75	42	6	5	-	-	7-8	7-8	4000
	Lympne	26.7	-4	NNW	3	zo	43	85	39	5	5	-	-	10	10	3000
	Manston	26.2	-10	NNW	3	zo	43	92	40	5	5	-	-	10	10	2000
2	Shoeburyness	26.9	-4	NNW	3	zo	44	85	39	5	5	-	-	10	10	2500
	Felixstowe	26.3	-10	WN	3	zo	43	85	37	5	5	-	-	10	10	4000
	Gorleston	24.6	-8	NNW	3	zo	46	85	42	5	5	-	-	10	10	1000
	Mildenhall	27.0	+2	NWW	4	zo	43	85	39	5	5	-	-	10	10	1600
	Cranwell	28.0	-4	NNW	3	m	43	85	39	4	5	-	-	10	10	3500
3	Birmingham	28.7	-4	NNW	3	c-bc	45	75	41	6	5	3	-	2-3	7-8	2500
	Upper Heyford	28.3	-10	N'W	3	zo	48	75	40	6	1	3	-	1	4-6	2100
4	Ross-on-Wye	29.0	-12	NW	2	c	48	75	41	7	5	-	-	10	10	2500
5	Hartland Point	30.1	-14	N	4	c	48	75	41	8	5	-	-	9+	9+	2100
	Bristol	30.1	-12	WNW	3	zo	45	85	41	6	5	-	-	10	10	2500
	Portland Bill	29.5	-12	N	3	c	46	92	44	7	5	2	-	10	10	4000
	Plymouth	30.9	-10	N	2	zo	48	85	44	6	5	-	-	10	10.	2500
	The Lizard	30.6	-12	N	2	c	50	75	41	8	8	2	-	9	10	1500
	Scilly (St. Mary's)	32.1	-10	N'W	3	c	50	75	41	8	5	-	-	9+	9+	1800
	Guernsey															
6	Pembroke	31.7	-6	N	3	c	49	75	42	8	5	2	-	7-8	10	2500
7	Holyhead (Valley)	30.7	-6	NNW	4	c	50	85	45	7	5	-	-	10	10	2500
	Chester (Sealand)	29.3	+2	NW'N	3	zo	50	85	46	6	5	3	-	7-8	9+	3000
8	Manchester	29.0	-8	-	0	cf	46	85	42	2	5	-	-	4-6	9+	2500
10	Spurn Head	27.0	-4	NW	4	zo	46	85	40	6	5	2	-	4-6	10	1500
	Catterick	28.7	-4	-	0	m	45	85	41	4	5	3	-	4-6	7-8	5000
	Tynemouth	28.5	-2	NW	3	c-bc	47	85	43	6	5	3	-	4-6	7-8	2800
11	St. Abbs Head	28.0	-2	NW	2	b-bc	48	85	44	7	5	4	-	2-3	2-3	4000
	Leuchars	28.2	+2	NW	1	zo	48	85	44	6	-	4	2	0	2-3	-
12	Renfrew (Abbots I.)	28.6	0	W	1	c-bc	51	65	42	9	-	3	6	0	7-8	-
	Eskdalemuir	28.7	0	-	0	b	46	75	38	8	-	7	1	0	1	-
	Point of Ayre	29.6	-4	NNW	4	bc	51	85	45	8	5	-	5	2-3	4-6	2000
13A	Tiree	31.9	-8	NNW	3	s/d	48	85	43	8	5	-	-	10	10	3000
13B	Stornoway	30.2	-4	W	3	c	48	85	43	7	5	-	-	10	10	2100
15	Dalwhinnie	29.8	-2	NNW	2	b-bc	46	65	36	8	2	-	1	1	2-3	4000
	Aberdeen	28.2	+4	NW	4	c	48	75	40	8	5	-	-	9+	9+	2500
	Wick	27.6	-10	NW	4	cbc	48	85	44	6	5	-	-	4-6	7-8	600
16	Sumburgh	24.4	-2	WNW	5	c	48	97	47	8	5	-	-	9+	9+	1200
17	Blacksod Point	34.8	-6	NW	1	c	48	92	46	8	5	-	-	9+	9+	2500
18	Malin Head	32.4	-6	NWN	3	c	48	75	40	8	5	-	-	10	10	1500
	Aldergrove	31.9	-6	NWN	3	c	48	85	44	8	5	-	-	9+	9+	2500
19	Birr Castle	33.7	-8	NW	2	c	45	85	41	7	5	-	-	10	10	2500
20	Valentia Obsy.	34.1	-10	SWW	2	b	47	75	40	8	5	-	-	Tr	Tr	4000
	Roches Point	33.9	-8	N	4	bc	44	85	40	8	5	-	-	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 18th 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)	Weather 7h.–13h. 18th (39)	13h.–18h. 18th (40)	18h. 18th to 1h. 19th (41)	1h.–7h. 19th (42)
London (Kew)	28.1	+4	NNW	2	zo	47	75	40	5	5	-	-	10	10	2500	1	*	bm fbz.	bbccm.	cm.	cm.
Croydon	28.2	+4	NNW	2	of	47	92	45	3	5	-	-	10	10	1400	1	*	bmfcm	czbczcf	cfid.ofdodo	ofcfemid.
S. Farnborough	28.8	+6	NWN	3	zo	47	75	39	6	5	-	-	10	10	2000	1	*	cm.bcbbc	bcc zo	cz.c	cmoid.rom.
Boscombe Down	29.4	+4	NNW	1	zo	45	92	42	6	5	-	-	9+	9+	2500	0	*	cm.c	cm.	cm.	cd.d.m
Thorney Island	28.6	+6	NWW	1	zo	45	85	41	5	5	-	-	4-6	10	2800	1	*	cm.	cmbm.cm	cm.c	cm.cid.
Lympne	27.0	+2	NWN	3	id.	44	85	41	5	5	-	-	10	10	2500	1	1	bfcmm.	cm.id.	cm.dmm.	cd.d.m.
Manston	26.3	-2	NNW	4	zo	45	85	41	5	5	-	-	10	10	1500	1	§ *	cfebcm	cm.	cm.d.	com.d.
Shoeburyness	27.0	+2	NNW	3	zo	46	85	42	5	5	-	-	10	10	2500	1	*	bfmbcm.	cbmid.cm	d.d.m.	d.d.m.
Felixstowe	26.3	+6	WNW	3	%d	45	97	44	5	5	-	-	10	10	700	1	3	bmcfcm.	cm.id.cm	cm.cidmcm	cid.m.cm.
Gorleston	26.1	+12	N'E	4	ir.	48	92	46	6	5	-	-	10	10	1000	1	3	cm.	ir.m.	cir.r.	cir.d.
Mildenhall	27.2	+6	NW	4	id.	44	97	43	4	5	-	-	10	10	800	1	*	bfxcm.	cm.d.did.	ddcmcfd.d	cfd.d.
Cranwell	28.2	+4	NW'N	3	zo	45	85	42	5	5	-	-	7-8	10	2000	0	*	bmxbm.c	cmcm.	cd.d.mcid	mcid.m cm.cm
Birmingham	29.3	+6	NNW	3	m	45	85	41	4	-	1	2	0	7-8	-	1	*	cbccz	bczcm	cm	cmf
Upper Heyford	28.9	+6	NNW	1	zo	44	85	41	6	5	-	-	10	10	2500	0	*	cmdbbcm.	bcm.cm	cm.	cid.mm.
Ross-on-Wye	29.4	+8	NE	1	c-bc	47	85	43	6	5	-	3	Tr	7-8	2500	1	*	c	c	ccb	bwco
Hartland Point	29.4	+4	NE	4	c	49	85	44	8	5	2	-	7-8	10	2500	0	3	c	c	c	c
Bristol	30.1	+8	NW	1	m	45	92	43	4	5	-	-	10	10	2500	1	*	cm.	cm.cm	cbcbfx	cfw
Portland Bill	29.5	+6	N	3	c	47	92	45	7	5	-	-	10	10	4000	1	3	c	c	co	o
Plymouth	30.1	+2	N'W	1	c	48	85	43	8	5	-	-	10	10	2000	0	1	cmmo.	cm.zom.	cmcm.	cm.
The Lizard	30.3	0	NNE	2	c	47	85	43	8	8	2	-	9	10	1500	0	3	bcc	coc	c	co
Scilly (St. Mary's)	30.9	-4	N	3	c	47	75	40	8	5	-	-	10	10	1800	0	3	bcc	c	c	c
Guernsey																					
Pembroke	30.8	0	N'E	3	c	49	85	44	8	5	2	-	9+	10	1500	0	2	c	c	c	c
Holyhead (Valley)	30.5	+2	NNW	3	c	49	85	44	8	5	-	-	10	10	2200	0	3	c	c	c	c
Chester (Sealand)	29.5	+12	W	2	c	48	92	45	6	5	2	-	4-6	9	3000	0	*	cz.pr.	cm.	cm.	cm.
Manchester	29.8	+10	W'N	1	m	40	97	39	4	-	3	-	0	7-8	-	0	*	cbc ff	cmf	cmFF	FF
Spurn Head	27.6	+4	N	5	c/r	47	92	45	6	5	2	-	4-6	9	1500	1		cm.	cr.c	cpr.	oid.
Catterick	29.9	+6	NW	2	m	43	85	40	4	5	3	-	1	4-6	3000	1	*	cm	cmm.	bm.bm	bmxbfx
Tynemouth	29.0	+6	NW	2	m	47	85	43	4	5	-	-	9	9	2500	1	3	bcc	cm	cm	bcff
St. Abbs Head	28.1	-2	ESE	1	b-bc	45	97	43	6	4	4	-	1	2-3	4000	0	3	cbcb mo	bbcbm.	bcbm.	bbcm.
Leuchars	28.2	-2	-	0	zo	36	97	36	6	-	-	8	0	2-3	-	1	*	cbcbcm.	bcm.	bmbfxjf	bfbm.jf
Renfrew (Abbots I.)	28.8	+2	WSW	2	b	41	92	38	7	-	-	1	0	Tr	-	1	*	bcbc	bcb	bm.	bxbcm.
Eskdalemuir	29.8	+8	-	0	b	34	92	33	7	-	-	-	0	0	-	0	*	cbcb	b	bccx	coFx
Point of Ayre	29.5	+2	N'W	4	b	48	92	46	8	5	-	-	1	1	1600	0	4	cbc	bcb	bbcc	c
Tiree	31.5	-2	NNW	3	c	48	75	41	8	5	-	-	10	10	3000	0	2	ccid.	cid.c	ccid.o	ocoid.
Stornoway	29.7	+2	SW	3	id.	48	85	43	7	5	-	-	10	10	1800	1		cid.c	ccid.	cid.c	cbcb
Dalwhinnie	29.3	+2	NW	1	b-bc	27	92	25	8	4	-	1	Tr	2-3	4000	1		cbc	bc		bccb
Aberdeen	28.5	+4	NW	2	zo	44	85	41	6	5	-	-	1	1	3000	1	2	c	cbcbz.	bz.*	bwzf
Wick	27.7	-10	W'N	2	c	47	85	43	8	5	7	-	7-8	10	2100	0	*	cm.	cm.c	c	c
Sumburgh	24.3	+2	W'N	6	c/pr	47	97	47	6	8	-	-	9+	9+	1000	1	4	c	cid.d.d.pr.	cid.c	c
Blacksod Point	33.8	-6	N	1	c	47	85	43	8	5	-	-	10	10	2500	0	2	c	c	c	c
Malin Head	31.8	0	NNW	3	c	48	75	40	8	5	-	-	10	10	1500	1	3	r	c	c	c
Aldergrove	31.4	-4	NNW	3	c	47	85	43	8	5	-	-	9+	9+	2000	1	*	c	c	c	c
Birr Castle	32.7	-2	NW	1	c	45	85	41	7	5	-	-	10	10	2500	1		c.	c		c
Valentia Obsy.	33.2	-2	E	1	b	40	85	36	8	5	-	-	1	1	2500	1	2	b	b	b,c	c
Roches Point	32.6	-6	N	4	c	44	85	40	8	5	-	-	9+	9+	1500	1	3	bc	c	c	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 19th November

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Light northerly winds backing westerly; mainly cloudy, slight local drizzle, rather misty; rather cold becoming milder.
5 S.W. England; 6 South Wales; 7 North Wales	Light variable to northwest winds; mainly cloudy; rather cold becoming milder.
8 N.W. England; 9 N. Midlands; 10 N.E. England	Light to moderate westerly winds; cloudy, some rain later; rather cold becoming milder.
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	Freshening westerly winds, strong to gale in North, veering west north-west and moderating later; mainly cloudy but some bright periods in the East; some rain spreading southeast, followed by bright intervals and showers; mainly rather cold.
16 Orkneys and Shetlands	As 11–15.
17 N. W. Ireland; 18 N. E. Ireland	As 8–10.
19 S. E. Ireland; 20 S. W. Ireland	As 5–6.

GENERAL INFERENCE

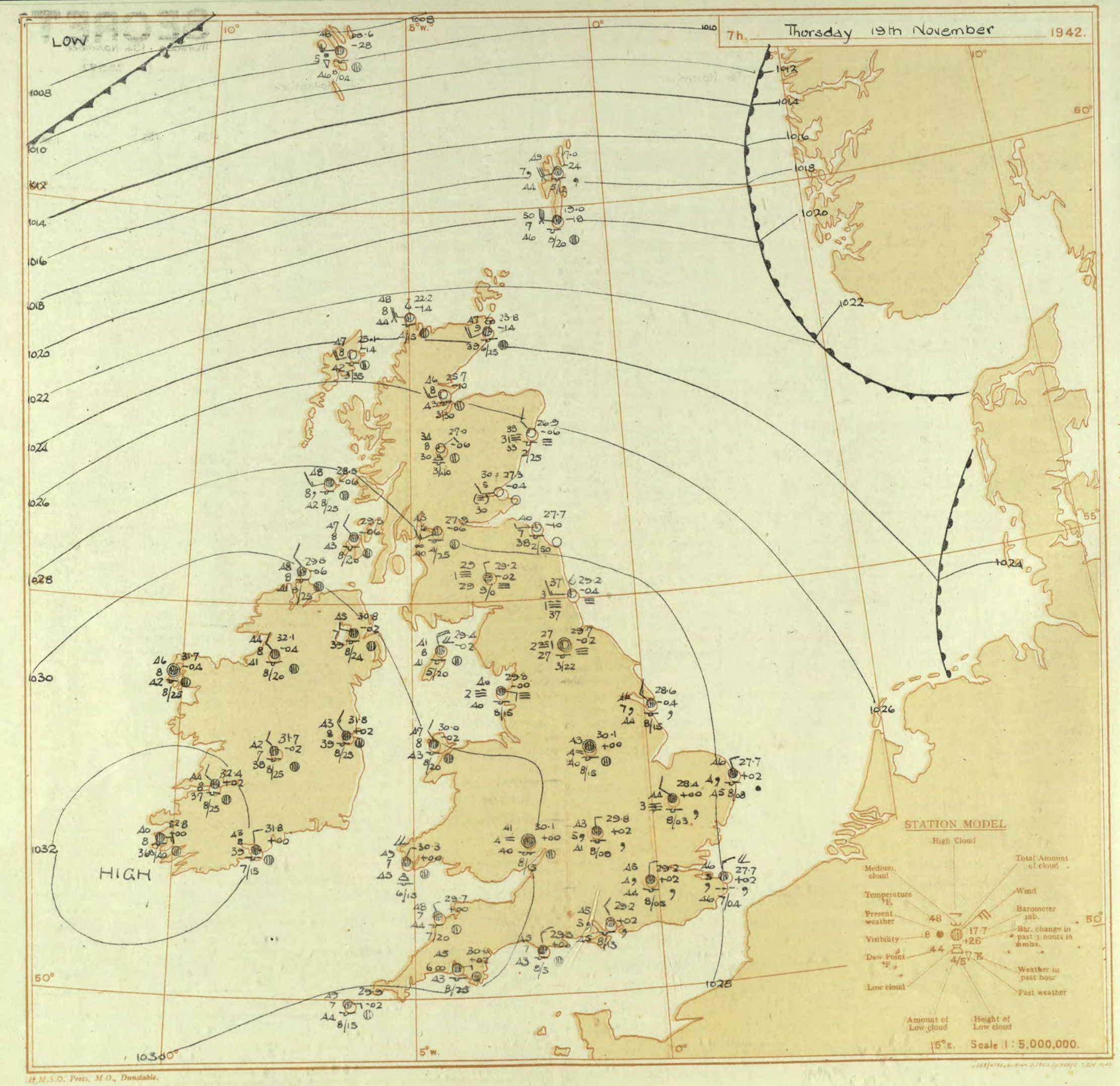
An anticyclone centred over Southwest Ireland will move slowly south and a trough of low pressure is approaching Scotland from the northwest. It will be generally cloudy at first. Later some rain will spread southeast across Scotland followed by brighter conditions though with some showers. It will be generally rather cold at first but will become milder in the South.

FURTHER OUTLOOK

Showers and bright intervals in the North. Cloudy in the South

Forecasts issued at 1030

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



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

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

Explanation of Frontal Lines shown on Charts

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

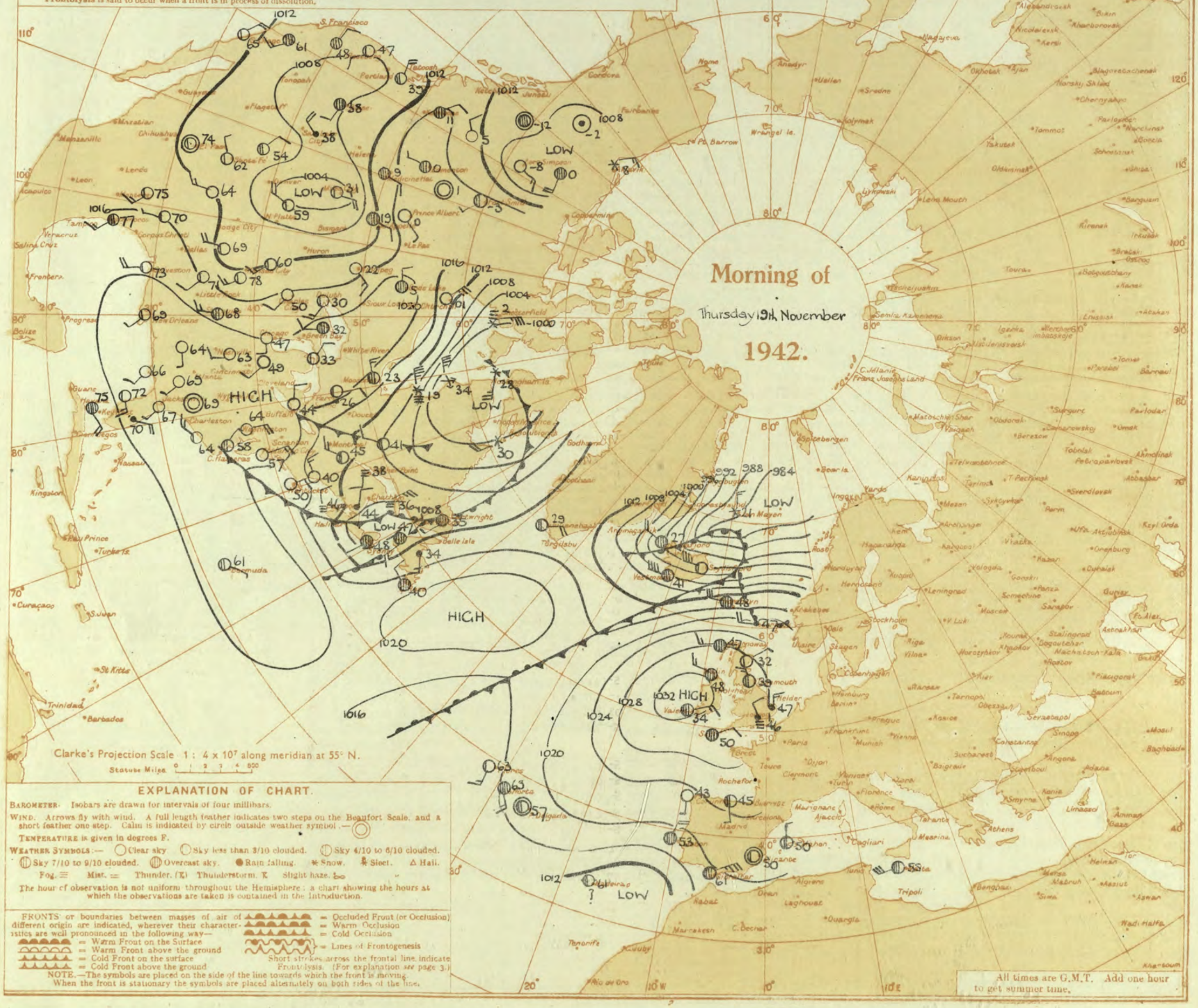
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

BRITISH SECTION

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

Thursday 19th November 1942

No. 29582

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)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	47	*	*	*	*	*	*	*	*	*
	Croydon	290	28.8	+2	NNW	2	df	46	97	46	3	5	-	-	10	10	500
	S. Farnborough	226	29.1	+2	NNW	2	c	46	85	42	7	5	-	-	10	10	1800
	Boscombe Down	417	29.8	+2	~	0	z.	43	92	41	5	5	-	-	10	10	2200
	Thorney Island	10	28.9	+2	N'W	1	c	46	85	43	7	5	-	-	10	10	2200
	Lympne	283	27.9	+4	NW	2	d.d.	45	97	44	5	5	-	-	10	10	1200
	Manston	154	27.1	0	N'W	3	id.	47	97	46	5	6	2	-	9+	10	700
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	27.5	0	NW'W	2	c/d	46	97	45	5	5	3	-	7-8	10	2500
	Gorleston	5	27.3	+8	N'E	3	ir.	47	92	45	6	5	-	-	10	10	800
	Mildenhall	15	28.1	+2	NW	3	df	45	97	45	3	5	-	-	10	10	200
	Cranwell	203	29.2	0	NW'W	3	id.	45	92	43	4	5	-	-	10	10	1300
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	29.7	+2	N	2	id.	44	97	41	4	5	-	-	10	10	900
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	30.2	+2	ESE	2	c	48	85	43	8	5	2	-	7-8	10	2500
	Bristol	209	30.3	-4	-	0	bf-	41	97	41	3	5	3	-	Tr	Tr	4000
	Portland Bill	32	29.4	-6	N	3	o	45	92	43	7	5	-	-	10	10	2500
	Plymouth	82	30.5	-2	-	0	z.	45	85	41	6	5	-	-	10	10	2500
	The Lizard	240	30.3	-2	NE'N	3	c	47	85	44	7	8	2	-	7-8	10	1500
	Scilly (St. Mary's)	163	30.4	-4	NE'E	2	c	50	75	42	8	5	-	-	10	10	1500
	Guernsey	175															
6	Pembroke	142	31.1	+4	NE'E	2	c	48	85	45	7	5	-	-	10	10	2000
7	Holyhead (Valley)	32	30.5	0	NNW	2	c	49	85	45	8	5	-	-	10	10	2000
	Chester (Sealand)	16	30.0	-2	WNW	1	z.	48	85	44	6	5	-	-	10	10	2500
8	Manchester	235	30.6	+2	E'N	1	F-	33	97	33	1	-	-	-	10	10	2150
10	Spurn Head	29	29.0	-4	N'W	4	ir.	47	85	43	6	5	2	-	4-6	9	1500
	Catterick	175	30.3	-2	-	0	m	36	97	36	4	-	-	-	0	0	-
	Tynemouth	108	29.4	0	NNW	3	m	39	97	38	4	2	3	-	2-3	4-6	2500
11	St. Abbs Head	280	28.6	0	SSW	1	b	42	97	41	7	-	-	-	0	0	-
	Leuchars	36	28.3	0	-	0	mjf	33	97	33	4	-	-	-	0	0	-
12	Renfrew (Abbots I.)	19	29.2	-4	SSW	2	m	34	92	33	4	-	-	-	0	0	-
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	30.0	+2	NNW	3	c-bc	47	86	42	8	5	*	*	7-8	7-8	2000
13A	Tiree	44	30.6	-2	W'N	3	o	48	75	41	8	5	-	-	10	10	2500
13B	Stornoway	15	28.1	-6	WSW	3	c	47	85	42	8	5	-	-	10	10	3200
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	28.7	0	NE	1	b	32	92	31	7	5	-	-	Tr	Tr	2500
	Wick	114	26.3	-8	SW'W	3	c-bc	45	85	40	9	5	7	-	4-6	7-8	2500
16	Sumburgh	19	22.5	-10	W'N	5	c-bc/d	47	97	47	8	5	-	-	7-8	7-8	2000
17	Blacksod Point	18	32.8	-6	~	0	c	46	85	42	8	5	-	-	10	10	2500
18	Malin Head	84	31.2	-2	WNW	3	c	48	75	41	8	5	-	-	9+	9+	2500
	Aldergrove	268	31.8	0	NW'W	2	c	45	85	40	8	5	-	-	10	10	1800
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	33.2	0	NE'E	3	c	34	92	32	8	5	-	-	9+	9+	4000
	Roches Point	22	32.9	-2	N'E	1	c	42	85	38	8	5	-	-	9+	9+	1500

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)	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 18th Hrs. (38)
London (Kew)	29.5	+4	N	2	z.	46	92	44	5	5	-	-	10	10	2500	1	*	48	45	43	-	-	4.3
Croydon	29.2	+2	N	2	id.	45	97	44	4	5	-	-	4-6	10	500	1	*	47	45	44	-	Tr	3.4
S. Farnborough	29.4	+6	N'W	2	c/r	45	92	42	6	5	-	-	10	10	1400	1	*	48	45	43	-	Tr	3.6
Boscombe Down	30.1	+4	N'W	1	d.d.	43	92	41	4	5	-	-	10	10	800	0	*	46	42	37	-	0.1	0.3
Thorney Island	29.2	+2	N'W	1	id.	45	97	45	5	5	-	-	10	10	1300	1	*	48	45	43	-	Tr	*
Lympne	28.6	+6	NNW	2	d.d.	45	97	44	6	5	-	-	10	10	1200	1	§ 2	45	45	41	Tr	1	3.4
Manston	27.7	+2	N	3	id.	46	97	46	5	6	2	-	9+	10	400	1	*	46	45	44	-	1	0.1
Shoeburyness	28.7	+6	NNW	2	d.d.	45	97	45	5	5	-	-	10	10	2500	1	*	46	45	42	-	0.3	1.0
Felixstowe	28.3	+6	NW	2	z.	45	97	44	6	5	-	-	10	10	1200	1	2	46	44	42	Tr	0.4	0.0
Gorleston	27.7	+2	N'W	2	id.	46	92	45	4	5	-	-	10	10	800	1	3	48	45	42	1	1	0.0
Mildenhall	28.4	0	NW'N	2	df	44	97	43	3	5	-	-	10	10	300	1	*	44	43	43	Tr	1	1.5
Cranwell	29.2	0	WNW	2	m	44	92	42	4	5	-	-	10	10	1600	0	*	46	43	42	-	Tr	1.4
Birmingham	30.0	0	-	0	cf	43	92	41	2	5	-	-	10	10	800	1	*	50	40	29	-	-	2.8
Upper Heyford	29.8	+2	N	1	id.	43	92	41	5	5	-	-	10	10	800	1	*	49	43	42	-	Tr	*
Ross-on-Wye	30.1	0	~	0	m	41	92	40	4	5	-	-	10	10	1500	1	*	50	40	28	-	-	0.0
Hartland Point	29.7	0	NNW	2	c	48	85	41	7	5	-	-	9+	9+	2000	0	2	49	46	45	-	-	0.0
Bristol	31.0	+4	-	0	cf+	41	92	41	3	5	-	-	10	10	2500	1	*	47	32	28	-	-	0.0
Portland Bill	29.5	+6	N	3	o	45	92	43	7	5	-	-	10	10	2500	1	3	47	42	*	-	-	*
Plymouth	30.6	+2	E	1	z.	45	92	43	6	5	-	-	10	10	2500	0	1	51	44	37	-	-	0.0
The Lizard	29.9	-4	N	2	o	46	85	42	7	5	-	-	10	10	1500	0	3	51	40	*	-	-	2.8
Scilly (St. Mary's)	29.9	-2	E	1	c	49	85	44	7	5	-	-	10	10	1800	0	2	52	46	*	-	-	2.5
Guernsey																							
Pembroke	30.3	0	NE'N	1	c	49	85	45	7	8	2	-	9	10	1500	0	2	49	45	*	-	-	0.0
Holyhead (Valley)	30.0	-2	NNW	1	c	47	85	43	8	5	-	-	10	10	2000	0	2	50	47	45	-	-	*
Chester (Sealand)	29.3	-2	-	0	c	46	92	44	5	5	-	-	10	10	2000	0	*	50	46	43	Tr	-	0.7
Manchester	29.9	-2	E	1	cf-	41	97	41	2	5	-	-	10	10	2500	0	*	46	31	27	-	-	*
Spurn Head	28.6	-4	NW'W	3	id.	46	92	44	7	5	-	-	10	10	1500	1	3	48	46		0.2	0.5	0.0
Catterick	29.7	-2	-	0	b-bcf	27	97	27	2	5	-	-	2-3	2-3	2200	1	*	47	27	20	-	-	0.0
Tynemouth	29.2	-4	W	3	b-bcf	37	97	37	3	-	4	-	0	2-3	-	1	3	48	36	34	-	-	*
St. Abbs Head	27.7	-10	W	1	b	40	92	38	7	5	-	-	1	1	5000	0	3	49	39		-	-	
Leuchars	27.3	-4	W	2	bjf	30	97	30	5	-	-	-	0	0	-	3	*	54	28	20	-	-	5.1
Renfrew (Abbots I.)	27.9	-6	SW'W	3	z.	43	85	40	6	5	-	-	4-6	4-6	2500	1	*	53	33	25	-	-	5.5
Eskdalemuir	29.2	-2	N'W	1	F	29	97	29	1	-	-	-	10	10	2150	3	*	49	27	19	-	-	5.5
Point of Ayre	29.4	-2	N	4	c	48	75	41	8	5	2	-	7-8	9+	2000	0	3	51	46	*	-	-	4.1
Tiree	28.5	-6	W'S	3	id.	48	85	42	8	5	-	-	10	10	2500	0	2	49	47		-	Tr	0.0
Stornoway	25.1	-14	WSW	4	b-bc	47	85	42	8	5	-	-	2-3	2-3	3500	1	*	49	46	43	Tr	Tr	0.0
Dalwhinnie	27.0	-6	NE	1	b	34	85	30	8	8	-	-	1	1	4000	3	*	47	22	14	-	-	5.2
Aberdeen †	26.9	-6	NW	2	bf+	35	92	33	3	5	-	-	1	1	2500	1	2	48	33	28	-	-	0.0
Wick	23.8	-14	WSW	4	c	47	75	39	9	5	7	-	9	9+	2500	0	*	49	42	39	0.1	-	*
Sumburgh	19.0	-18	W'N	7	c	50	85	46	7	5	-	-	10	10	2000	1	4	49	47	43	0.4	0.4	0.1
Blacksod Point	31.7	-4	-	0	c	46	85	42	8	5	-	-	10	10	2500	1	2	48	43	*	-	-	*
Malin Head	29.8	-6	NW'W	2	c	48	75	41	8	5	-	-	10	10	2500	1	2	49	47		Tr	-	0.0
Aldergrove	30.8	-2	WNW	1	c	45	85	39	7	5	-	-	10	10	2400	1	*	49	42	41	-	-	0.0
Birr Castle	31.7	-2	NW	1	c	42	85	38	7	5	-	-	10	10	2500	1	*	45	41	29	-	-	0.0
Valentia Obsy.	32.8	0	E'S	3	c	40	85	36	8	5	-	-	10	10	4000	1	2	49	32	27	Tr	Tr	6.7
Roches Point	31.8	0	N	2	c	43	85	39	8	5	-	-	9+	9+	1500	1	3	46	42	*	-	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 18th November $C_L C_M$	wwVhN_h	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN	01h. G.M.T. 19th November $C_L C_M$	wwVhN_h	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN
109	5-	52845	26555	5-	03738	25458	5-	03758	57558	5-	02755	54525
115							52	02844	97527	54	02844	57525
203							5-	03848	24428			
206	53	02864	25225	50	01861	28112	50	01864	00014	50	01863	23313
210	5-	02864	59516	00	01890	20325	5-	02867	27941	53	02864	20226
220												
230	5-	01854	28324	5-	02857	28327	5-	02867	26327	5-	02858	24228
245	54	01861	22104	00	05580	00002	5-	05528	24118	00	45290	24140
260	04	05690	32113	00	08490	23112	00	05590	24100	50	41642	24142
278	50	01852	28425	50	01861	28411	5-	01864	27314	57	02857	28428
279	03	05690	04123	00	04490	09100	--	48009	06140	5-	45348	00048
285	53	02854	28326							5-	08448	00028
288	57	08464	20127	52	45355	26148	57	08456	23138	5-	08458	20228
575	5-	02857	28327	5-	02848	28328	5-	02858	28128	5-	02858	28228
301				03	47190	12143	00	45290	10140	5-	45248	10148
321	05	43390	28247	5-	08448	28328	5-	47348	27148			
299	5-	05648	28528	81	21748	28558	8-	02757	28527	8-	03758	26228
292	53	05663	00025	53	05545	28228	53	05545	28127	5-	08448	00028
310	--	08436	24326	--	08426	24316	.					
614	03	08490	28146	5-	08457	30227	52	08456	30248	5-	08448	00028

III	13h. G.M.T. 18th November $C_L C_M$	wwVhN_h	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN	01h. G.M.T. 19th November $C_L C_M$	wwVhN_h	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN
333	5-	51748	31458	5-	21754	02354	5-	02757	00027	5-	05658	00028
334	--	02646	30217	--	02644	06215				--	04446	00017
340	53	05655	30227	03	05690	30227	5-	43257	00027	5-	41548	00048
136	5-	52535	28358	5-	51536	32358	5-	51637	32257	5-	05635	32258
336										57	02546	12326
350	53	05655	26217	5-	05548	30228	5-	52548	26258	5-	62538	01158
368	5-	05668	00028	5-	05567	32127	5-	05557	32127	5-	05558	32118
379	54	05654	30325	5-	05657	01227				5-	08438	04248
390	03	05590	30323	5-	08408	28358	5-	57328	29258	52	51436	30258
382	18	05655	30326	5-	05658	31128	57	05645	30445	5-	21638	01258
438	00	00690	32210	52	04455	28128	82	08444	30228	5-	51438	30258
430	50	05653	30313	5-	05557	28127	5-	21648	32158	5-	21638	01258
409	5-	02868	31328	57	02856	32228	5-	03758	06328	5-	05658	03128

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 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	Weather Afternoon	Weather Night
Kew *	bmfbz.	bbccm.	cm.
Croydon	bm fem	czbc, fid.	ofc fcid.
Greenwich	bfbcm	cm.m	oid.
Camden Square	o	c	*
Kensington	bccm	com	*
Hampstead	bc	op	o

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0.6 Time 8-9h 18th. Min. 0.1 Time 0-5h 19th.

Stations	Temperature Day Max °F	Temperature Night Min °F	Temperature Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	48	45	43	-	-	4.3	*	*
Croydon	47	45	44	-	Tr	3.4	*	*
Greenwich	48	45	43	-	Tr	3.0	77	92
Westminster	50	37	36	-	-		75	92
Regents Park	48	38	34	-	-		73	88
Camden Square	49	46	32	-	-	*	*	92
Kensington	49	45	41	-	-		72	90
Hampstead	47	42	41	-	0.2		*	97

Page 1 **BRITISH SECTION**

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

SECRET

Friday 20th November 1942

No. 29580

OBSERVATIONS at 13h. G.M.T. 19th 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)	29·6	-4	N	2	Zo	47	85	45	6	5	-	-	10	10	1500
	Croydon	29·7	0	NNW	2	m	46	92	43	4	5	-	-	10	10	800
	S. Farnborough	29·5	-8	N'W	2	dodo	45	85	41	6	5	-	-	10	10	1200
	Boscombe Down	30·4	-4	NW'N	2	ido	43	97	42	4	5	-	-	10	10	1000
	Thorney Island	29·7	-6	N	1	ido	46	97	46	6	6	-	-	10	10	1500
	Lympne	28·8	-6	NNW	1	dodo	46	92	44	6	5	-	-	10	10	900
	Manston	28·4	+2	NW	2	ido	47	97	46	7	5	-	-	10	10	700
2	Shoeburyness	29·0	-2	N'W	2	c	47	92	45	6	5	-	-	10	10	2500
	Felixstowe	28·5	-6	NNW	2	Zo	47	92	45	6	5	-	-	10	10	2000
	Gorleston	28·0	-4	N'W	3	ebc/d	48	85	45	7	8	-	-	7·8	7·8	600
	Mildenhall	28·9	-6	NW	2	c/d	46	92	44	7	5	-	-	9+	9+	1500
	Cranwell	28·9	-10	WSW	2	Zo	45	85	41	5	5	-	-	10	10	3500
3	Birmingham	29·7	-4	WSW	2	o	44	85	40	6	5	-	-	10	10	2500
	Upper Heyford	29·3	-6	WSW	1	Zo	45	85	39	6	5	-	-	10	10	1000
4	Ross-on-Wye	30·0	-4	W	4	o	44	85	40	7	5	-	-	10	10	800
5	Hartland Point	30·1	-2	NE	2	c	49	75	42	8	5	2	-	7·8	10	2500
	Bristol	30·7	-6	—	0	m/f	44	92	42	4	5	-	-	10	10	1600
	Portland Bill	30·1	-6	N	3	c	45	92	43	7	5	-	-	10	10	2500
	Plymouth	30·9	+2	NE	2	Zo	48	75	42	7	5	-	-	9+	9+	3000
	The Lizard	30·2	0	NE	2	c	48	75	41	6	5	-	-	10	10	1500
	Scilly (St. Mary's)	30·5	-4	NE	1	c	51	75	42	7	5	-	-	10	10	1800
	Guernsey															
6	Pembroke	31·2	+4	N'E	1	Zo	48	92	46	6	8	1	-	7·8	10	3000
7	Holyhead (Valley)	30·6	0	NW'N	2	6	48	75	41	8	5	-	-	10	10	3000
	Chester (Sealand)	29·3	-6	NNW	1	Zo	49	85	44	6	5	-	-	10	10	2500
8	Manchester	29·4	-6	SW'W	2	of	45	97	43	3	5	-	-	10	10	2000
10	Spurn Head	28·3	-8	W	3	o	45	85	40	5	5	-	-	10	10	800
	Catterick	28·3	-8	-	0	m	39	97	39	4	5	-	-	4·6	4·6	2500
	Tynemouth	28·0	-8	W	3	b-bc	44	92	42	6	2	-	-	2·3	2·3	2500
11	St. Abbs Head	25·9	-12	SW	3	bc	46	85	42	7	5	4	-	2·3	4·6	3000
	Leuchars	25·2	-14	WSW	3	Zo	43	92	40	6	-	4	9	0	1	—
12	Renfrew (Abbots I.)	27·1	-8	WSW	3	c	48	75	41	7	5	-	-	10	10	2200
	Eskdalemuir	27·6	-8	—	0	cbc	43	85	38	7	8	-	-	7·8	7·8	2200
	Point of Ayre	29·3	-2	NW'N	4	c	49	85	44	8	8	-	-	9+	9+	4500
13A	Tiree	27·5	-10	WSW	4	c/r	50	85	45	8	5	3	-	4·6	10	2500
13B	Stornoway	22·0	-14	WSW	4	c	51	85	46	7	8	3	-	4·6	9+	2200
15	Dalwhinnie	25·0	-6	WNW	3	cbc	45	75	36	8	5	-	-	7·8	7·8	2500
	Aberdeen	24·4	-20	SW	2	bc	47	65	36	7	5	5	-	4·6	4·6	4000
	Wick	20·7	-16	SW	6	bc	50	75	40	8	5	3	-	4·6	4·6	3000
16	Sumburgh	14·9	-30	WSW	8	c	50	97	50	7	5	-	-	10	10	1200
17	Blacksod Point	31·8	-2	W'S	2	c	48	85	44	8	5	6	-	10	10	4000
18	Malin Head	28·8	-6	W	3	r	50	75	43	8	5	2	-	7·8	10	2500
	Aldergrove	30·5	-2	WSW	3	c	45	75	39	8	5	-	-	10	10	3000
19	*Birr Castle	32·0	-2	N	1	c	45	75	38	7	5	2	-	7·8	10	2500
20	Valentia Obsy.	32·8	-2	—	0	c	43	75	36	8	5	-	-	10	10	2500
	Roches Point	32·6	0	NE	2	c	45	75	38	8	5	-	-	9+	9+	1500

OBSERVATIONS at 18h. G.M.T. 19th 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)	29·2	0	—	0	Zo	45	75	38	6	5	-	-	10	10	1500	1	*
Croydon	29·4	+2	NW	2	of+	45	85	41	3	5	-	-	10	10	1200	1	*
S. Farnborough	29·5	0	NNW	2	Zo	44	85	39	5	5	-	-	10	10	1500	1	*
Boscombe Down	29·7	-2	NW'N	1	c/d	43	85	39	6	5	-	-	10	10	1200	1	*
Thorney Island	29·1	-2	N	2	Zo	45	97	44	6	5	-	-	10	10	1400	1	*
Lympne	28·7	0	NNW	1	ido	44	97	43	5	5	-	-	10	10	1000	1	§1
Manston	28·4	-2	N'W	2	c/d	45	97	44	6	5	-	-	10	10	1100	1	*
Shoeburyness	29·1	+2	NNW	2	c	45	92	42	5	5	-	-	10	10	1500	1	*
Felixstowe	28·6	+2	W	2	Zo	45	92	42	6	5	-	-	10	10	1500	1	2
Gorleston	28·1	0	NW	2	Zo	46	92	42	6	5	-	-	10	10	700	1	2
Mildenhall	28·5	-2	W'S	2	Zo	44	85	41	5	5	-	-	10	10	2000	1	*
Cranwell	28·1	0	NW'W	2	m	45	85	42	4	5	-	-	10	10	1700	0	*
Birmingham	29·4	0	WNW	2	Zo	44	85	40	5	5	-	-	10	10	1500	1	*
Upper Heyford	29·4	0	WNW	2	Zo	42	92	40	5	5	-	-	10	10	1800	0	*
Ross-on-Wye	29·3	-4	WSW	1	c	43	85	39	7	5	-	-	10	10	1500	1	*
Hartland Point	29·5	0	NNE	2	c	49	75	42	7	5	2	-	7·8	10	2500	0	2
Bristol	30·2	-2	—	0	m	43	92	41	4	5	-	-	10	10	1500	1	*
Portland Bill	29·7	-2	N	2	o	44	85	39	7	5	-	-	10	10	2500	1	3
Plymouth	30·3	-2	NE	2	Zo	47	85	42	5	5	-	-	10	10	2000	0	2
The Lizard	30·2	+2	NNE	2	o	47	75	40	7	5	-	-	10	10	1500	0	3
Scilly (St. Mary's)	30·2	+2	—	0	c	49	75	40	7	5	-	-	10	10	1800	0	2
Guernsey																	
Pembroke	30·3	0	N'E	2	c	48	85	41	7	8	2	-	7·8	10	2500	0	1
Holyhead (Valley)	30·6	+6	NW	3	c	46	75	37	8	5	-	-	10	10	2400	0	2
Chester (Sealand)	29·3	+2	NNW	3	Zo	47	75	40	6	5	-	-	10	10	2500	0	*
Manchester	29·0	0	W	3	m	45	92	42	4	5	-	-	10	10	1700	0	*
Spurn Head	27·8	0	W	4	m	46	85	40	4	5	2	-	4·6	10	1500	0	3
Catterick	28·6	+10	NW	1	Zo	43	85	37	6	5	-	-	9	9	1900	1	*
Tynemouth	27·5	+2	W	3	c	45	85	42	6	8	-	-	9+	9+	2500	1	3
St. Abbs Head	24·5	-2	WNW	3	c	49	85	44	7	5	4	-	7·8	9+	4000	0	3
Leuchars	23·9	-6	W'S	3	b-bc	44	97	42	7	5	3	-	Tr	2·3	3000	1	*
Renfrew (Abbots I.)	26·2	-2	SW'W	3	dodo	48	85	43	6	5	-	-	10	10	1800	1	*
Eskdalemuir	27·0	+2	WSW	2	c	45	75	38	8	8	3	-	7·8	9	2100	0	*
Point of Ayre	28·9	0	NW	4	c	49	85	44	8	5	7	-	7·8	10	4000	0	4
Tiree	25·8	-10	W	5	c	50	92	47	7	5	3	-	4·6	9+	5700	0	3
Stornoway	20·9	0	NW	5	roro	48	92	46	6	5	-	-	10	10	1200	1	
Dalwhinnie	22·0	-4	W	3	c	45	75	39	8	5	-	-	9	9	2500	1	*
Aberdeen	21·6	-18	SW	3	bbcjf	44	75	37	4	-	3	5	0	2·3	-	1	1
Wick	17·8	-14	SW	5	iro	49	92	45	6	5	2	-	7·8	10	2000	1	*
Sumburgh	12·4	-8	W'N	8	bc/r	48	75	42	7	1	6	-	2·3	4·6	2000	1	5
Blacksod Point	31·3	-2	W	3	c	48	92	46	8	5	-	-	10	10	2500	0	2
Malin Head	27·9	-2	W'N	4	bc	50	75	43	8	5	-	-	4·6	4·6	2500	0	3
Aldergrove	29·6	-4	SW'W	2	c	45	85	41	6	5	3	-	9+	10	2000	1	*
*Birr Castle	31·8	+2	N	1	c	43	85	39	7	5	-	-	10	10	2500	1	*
Valentia Obsy.	32·8	+2	NE'E	1	o	43	85	39	8	5	-	-	10	10	2500	1	1
Roches Point	32·2	+2	N'E	2	c	43	75	36	8	5	-	-	9+	9+	1500	1	3

PAST 24 HOURS.

Stations	Weather 7h.–13h. 19th (39)	13h.–18h. 19th (40)	18h. 19th to 1h. 20th (41)	1h.–7h. 20th (42)
London (Kew)	cidocmo	cidomocmo	cmo	cmo
Croydon	cmidoom	cmof	cmofomcm	omefom
S. Farnborough	cmodo	cdoidomo	cmoc	cmo
Boscombe Down	cdidooidom	omoidomo	cmo	cmo
Thorney Island	cmoido	cidomocmo	cmo	cmo
Lympne	ddomo	cdomo	eid, cmo	cmo
Manston	ido	cdodomo	cidomo	cmoez
Shoeburyness	ododocmo	cmoidomoc	eid m cm	cm
Felixstowe	cmo	cmoidocmo	cmoem	cmofem
Gorleston	czoido	czo	cmomo	cmobezo
Mildenhall	cidomcido	ccmo	cmo	cmobemo
Cranwell	cmcmo	cmocm	cmcmo	cmobcmw
Birmingham	fco	oz	ocz	cz
Upper Heyford	cmo	cmo	zo	cmo
Ross-on-Wye	omc	oc	eczo	ceb
Hartland Point	c	c	e	cprc
Bristol	cfwom	omom	omcmef	cmmo
Portland Bill	o	o	o	oc
Plymouth	cmozo	czomo	cmmo	cmoc
The Lizard	co	co	oc	co
Scilly (St. Mary's)	c	c	c	c
Guernsey				
Pembroke	cmo	cpromo	c	c
Holyhead (Valley)	c	c	cbcc	bcb, c
Chester (Sealand)	cmmo	cmoc	czoc	czo
Manchester	cff	cffcm	cmom	cmow
Spurn Head	om	cm	bmo	bccmo
Catterick	cmbcm	bcmo	cmobmo	cbbcmoc
Tynemouth	cffbc	bcc	bbc	cbcc
St. Abbs Head	bmob	bcc	cbcb	bbcc
Leuchars	fxbmo	bccmobc	cmo	cjpbc
Renfrew (Abbots I.)	bcmoco	cidodedo	cmodod	R idobc
Eskdalemuir	ofc	c	c	cpr
Point of Ayre	c	c	cbbc	bcc
Tiree	cdocroc	c	ed dr r	rocbceb
Stornoway	bbcc	ccroromo	rorpr be	bcebc
Dalwhinnie	b,c	ciro	*	ciro
Aberdeen	bf2bc	bcbz	bczo	cpbrbc
Wick	b	cro	bcc pr ccpr	cpr
Sumburgh	cirocroc	cidoirbc	cprcph	cpr
Blacksod Point	c	c	c	c
Malin Head	c	r	c	r
Aldergrove	c	c	cm cbbcc	cid c
*Birr Castle	c	c	*	c
Valentia Obsy.	c	c	bc	bc
Roches Point	c	c	c	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 20th November 1942

Districts	Forecast
1 S.E. England; 2 E. England	Moderate westerly wind veering northwest to north; fair today with some bright intervals, becoming mainly fine; becoming colder with ground frost tonight
3 E. Midlands; 4 W. Midlands; 5 S.W. England	Freshening northwest to north winds; becoming fair to fine inland, but a probability of some wintry showers near the coast; becoming cold; slight night frost.
6 South Wales	As 1
7 North Wales; 8 N.W. England	Light to moderate north to northeast wind; mainly fair but rather cloudy at times; rather mild at first becoming colder.
9 N. Midlands; 10 N.E. England	Moderate northwest winds veering north; cloudy; some slight rain in places today, becoming fine; becoming cold with frost at night.
11 S.E. Scotland	Moderate northerly wind, fresh on coasts; bright periods; some wintry showers probable near the coast; cold; frost inland tonight.
12 S.W. Scotland & Isle of Man	Light to moderate northerly wind; mainly fine; cold, with frost at night.
13A W. Scotland	As 7-9.
13B N.W. Scotland; 14 Mid Scotland	Moderate to light northerly winds; mainly fine; cold with frost at night
15 N.E. Scotland	Fresh rather squally northwest winds; bright periods; some
16 Orkneys and Shetlands	snow and sleet showers; cold.
17 N. W. Ireland; 18 N. E. Ireland	As 7-9.
19 S. E. Ireland; 20 S. W. Ireland	As 5-6.

GENERAL INFERENCE

An extensive anticyclone stretches from Southwest Britain to Greenland and cold northerly winds are spreading down over the British Isles. There will be a little light rain in North Ireland and Northwest England today, and some wintry showers in the extreme Northeast districts, and later near the East coast of England. Elsewhere weather will be fair and will generally become much brighter than of late. Night frost will become general.

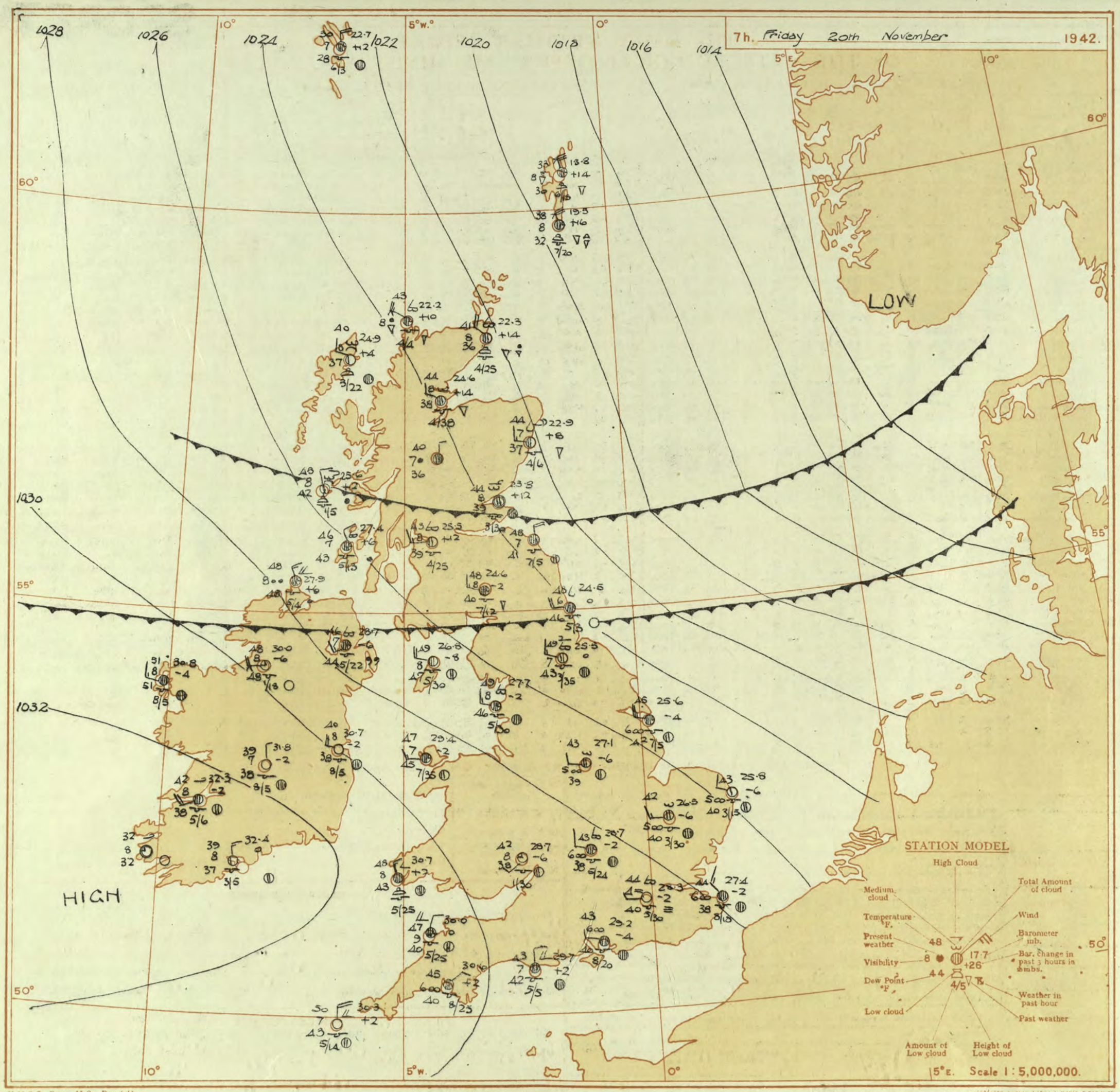
FURTHER OUTLOOK

Cold and mainly dry weather likely to continue for two or three days with night frosts in many districts. An increasing risk of local fog.

Forecasts issued at 1030.

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

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



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

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

Explanation of Frontal Lines shown on Charts

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

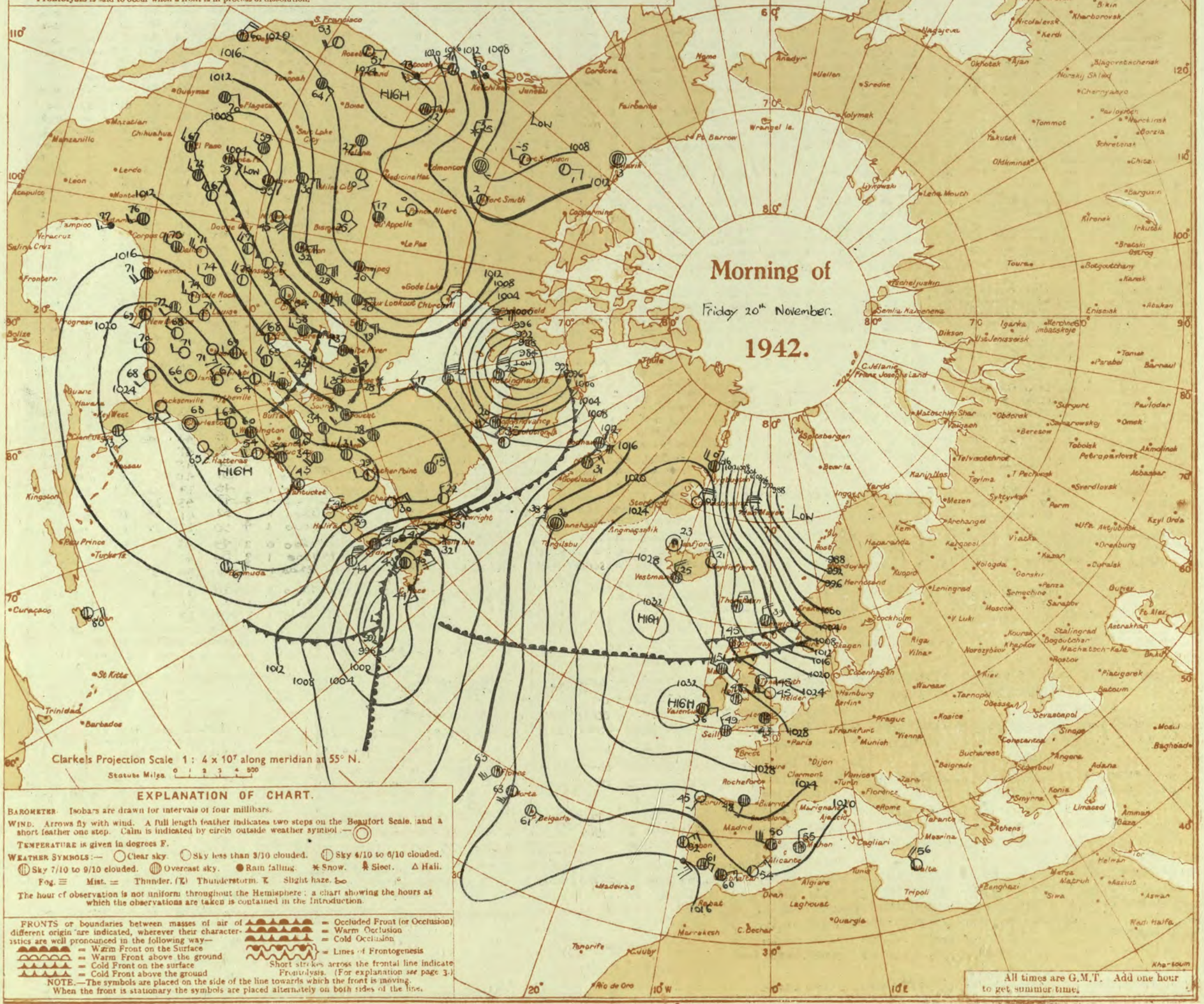
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



BRITISH SECTION

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

Friday 20th November 1942

No. 29583

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)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	44	*	*	*	*	*	*	*	*	*
	Croydon ...	290	29.0	-2	-	0	m	43	92	41	4	5	-	-	10	10	2600
	S. Farnborough	226	29.1	-2	W'N	1	Zo	42	92	40	6	5	-	-	10	10	2700
	Boscombe Down	417	29.8	-2	WNW	1	Zo	41	92	39	6	5	-	-	10	10	2200
	Thorney Island	10	29.1	-4	WNW	1	Zo	43	92	41	6	5	-	-	10	10	2800
	Lympne ..	283	28.5	-6	-	0	Zo	42	92	40	6	5	-	-	10	10	2000
	Manston ...	154	28.0	-10	WSW	1	Zo	43	92	40	6	5	-	-	10	10	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	27.6	-6	WSW	2	m	45	85	41	4	5	-	-	10	10	2400
	Gorleston ...	5	26.8	-10	W'N	2	Zo	44	85	39	5	5	-	-	10	10	800
	Mildenhall ...	15	27.6	-6	W'N	2	Zo	42	92	39	5	5	-	-	10	10	2600
	Cranwell ...	203	27.7	-4	W'N	2	Zo	43	85	39	5	5	7	-	9-6	10	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	29.1	*	W'N	2	Zo	43	85	39	6	5	-	-	10	10	1900
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	30.2	+2	N	3	c	47	75	40	8	5	2	-	7-8	9+	2500
	Bristol ...	209	30.3	+2	-	0	m/f	43	92	41	4	5	-	-	10	10	2600
	Portland Bill ...	32	30.0	0	N	1	o	46	92	44	7	5	-	-	10	10	2500
	Plymouth ...	82	30.5	+2	E	2	Zo	46	85	42	6	5	-	-	10	10	2500
	The Lizard ...	240	30.5	0	NE	1	c	47	85	42	7	5	2	-	9	10	1500
	Scilly (St. Mary's)	163	30.5	-2	NW	1	c	49	85	44	6	5	-	-	9	10	1800
	Guernsey ...	175															
6	Pembroke ...	142	31.0	+2	N'E	2	c	46	75	39	7	8	2	-	7-8	10	2500
7	Holyhead (Valley)	32	29.8	-2	W'N	3	c	48	85	43	8	5	3	-	4-6	9+	4000
	Chester (Sealand)	16	28.6	-4	NW'W	1	c	47	85	42	7	5	-	-	9+	9+	2000
8	Manchester ...	235	28.4	-4	W'S	3	Zo	45	85	41	5	5	-	-	9+	9+	2500
10	Spurn Head ...	29	27.5	-2	W	4	b	45	85	40	6	--	-	-	0	0	-
	Catterick ...	175	26.2	-12	W	2	z.	45	85	40	6	-	-	-	0	0	-
	Tynemouth ...	108	25.6	-4	NW	4	Z.	45	92	43	6	-	4	-	0	2-3	-
11	St. Abbs Head	280	21.0	-10	WSW	5	b-bc	41	85	36	7	5	-	-	2-3	2-3	4000
	Leuchars ...	36	22.0	-8	W	3	Zo	46	97	46	6	5	7	-	4-6	10	6000
12	Renfrew (Abbots I.)	19	24.5	-10	WSW	4	id.	51	92	47	6	5	1	-	9	10	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	28.2	-4	NW	4	bc	48	92	46	8	5	-	-	4-6	4-6	4000
13A	Tiree	44	25.7	0	NW	4	ir.	48	92	45	8	6	7	8	4-6	9+	1000
13B	Stornoway ...	15	23.4	+10	W	3	bc	45	85	41	8	8	3	-	4-6	4-6	1800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	21.7	+14	WNW	3	Zo	44	85	39	6	5	7	-	4-6	7-8	2000
	Wick ...	114	19.7	+8	NW	4	PR	44	92	42	7	8	7	-	9	10	2000
16	Sumburgh ..	19	16.6	+24	NW	3	phr	40	97	40	7	8	-	-	10	10	2000
17	Blacksod Point	18	31.5	0	W	2	.c	50	97	48	8	8	-	-	9+	9+	2500
18	Malin Head ...	84	27.7	0	W	4	c	51	92	49	8	5	-	-	10	10	1500
	Aldergrove ...	268	29.6	-6	WSW	2	c	45	92	43	8	5	3	-	9	10	1500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	33.2	+2	NE'E	2	c-bc	36	97	34	8	5	-	4	Tr	7-8	2500
	Roches Point	22	33.1	0	NE'N	2	b-bc	41	85	37	8	-	-	5	0	2-3	-

OBSERVATIONS at 7 hr. G.M.T. 20th 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 0–8 (31)	Sea 0–9 (32)
1	London (Kew)	28.1	-4	WSW	2	Zo	44	85	39	5	5	-	-	10	10	2500	1	*
	Croydon ...	28.3	-2	W	1	m	44	85	40	4	5	7	-	7-8	9+	3000	1	*
	S. Farnborough	28.4	-4	W'S	2	Zo	43	92	41	6	5	-	-	10	10	2500	1	*
	Boscombe Down	29.3	-2	WNW	1	Zo	42	85	38	6	5	-	-	10	10	2000	0	*
	Thorney Island	29.2	+4	W'N	1	Zo	43	85	40	6	5	-	-	10	10	2500	0	*
	Lympne ..	28.2	-2	W	2	Zo	41	92	39	5	5	-	-	10	10	1800	1	§1
	Manston ...	27.4	-2	NW'N	3	Zo	44	75	38	6	5	-	-	10	10	1800	1	*
2	Shoeburyness ...	27.8	-4	W'S	2	Zo	44	85	40	5	5	-	-	10	10	2500	1	*
	Felixstowe ...	26.8	-2	W'S	2	Zo	44	85	39	5	5	-	-	10	10	3000	1	2
	Gorleston ...	25.8	-6	NW'W	2	Zo	43	85	40	5	5	-	-	2-3	2-3	1500	1	2
	Mildenhall ...	26.5	-6	W	3	zo	42	92	40	5	5	3	-	2-3	4-6	3000	1	*
	Cranwell ...	26.6	-6	W	4	m	40	92	38	4	-	7	-	0	9	-	0	*
3	Birmingham ...	28.3	-6	WNW	3	Zo	44	85	40	5	5	-	-	7-8	7-8	1500	1	*
	Upper Heyford	28.7	-2	WNW	2	Zo	43	85	38	6	5	7	-	7-8	9+	2400	0	*
4	Ross-on-Wye	28.7	-6	SW	1	b	42	85	38	8	5	-	-	Tr	Tr	3000	1	*
5	Hartland Point	30.0	0	NNE	2	c	47	75	40	9	5	2	-	7-8	9+	2500	0	3
	Bristol ...	30.0	-2	W	1	Zo	43	85	38	6	5	-	-	10	10	4000	1	*
	Portland Bill ...	29.7	+2	N	1	c	43	92	42	7	5	2	-	7-8	10	2500	1	3
	Plymouth ...	30.6	+2	NE	2	Zo	45	85	40	6	5	-	-	10	10	2500	0	3
	The Lizard ...	30.2	0	NE	2	o	46	85	42	6	5	-	-	10	10	1500	0	3
	Scilly (St. Mary's)	30.3	+2	N	4	c	50	75	43	7	5	2	-	7-8	10	1400	0	3
	Guernsey ...																	
6	Pembroke ...	30.7	+2	NNW	3	c	48	85	43	8	8	1	-	7-8	10	2500	0	2
7	Holyhead (Valley)	29.4	-2	W	3	c	47	92	45	7	5	-	-	9+	9+	3500	0	2
	Chester (Sealand)	28.0	-4	NW'W	2	zo	47	92	45	6	5	1	-	9	10	2000	0	*
8	Manchester ...	28.1	0	WSW	2	m	45	97	44	4	5	-	-	9	9	2500	0	*
10	Spurn Head ...	25.6	-4	W'N	5	Zo	45	85	42	6	5	-	-	9+	9+	2500	0	3
	Catterick ...	25.5	0	WNW	3	bc	49	85	43	7	5	7	5	2-3	4-6	3500	0	*
	Tynemouth ...	24.5	0	W	4	c	48	92	46	6	5	4	-	7-8	9	800	1	3
11	St. Abbs Head	22.6	+12	N	4	c	48	75	41	7	5	-	-	9+	9+	2500	0	4
	Leuchars ...	23.8	+12	-	0	bc	44	85	39	8	4	3	8	2-3	4-6	3000	1	*
12	Renfrew (Abbots I.)	25.5	+12	W	3	bc	43	85	39	8	5	7	-	4-6	4-6	2500	1	*
	Eskdalemuir ...	24.6	-2	WNW	3	c	48	75	40	8	5	-	-	9+	9+	1200	1	*
	Point of Ayre...	26.8	-8	WNW	4	c-bc	49	92	47	8	5	-	-	7-8	7-8	3000	0	4
13A	Tiree	25.6	+2	N'W	2	b-bc	45	85	42	8	8	6	3	Tr	2-3	2500	1	2
13B	Stornoway ...	24.9	+4	NW	2	b-bc	40	92	37	8	2	6	-	2-3	2-3	2200	1	
15	Dalwhinnie ...	24.0	+2	N	1	ir.	40	85	36	7	5	-	-	10	10	2500	1	*
	Aberdeen † ...	22.9	+8	WNW	3	bc	44	75	37	7	5	4	2	4-6	4-6	4000	1	3
	Wick ...	22.3	+14	NW	4	c-b/p	41	85	36	8	8	7	-	4-6	7-8	2000	1	*
16	Sumburgh ..	19.5	+16	NNW	6	c/phr	38	75	32	8	8	-	-	9+	9+	2000	1	4
17	Blacksod Point	30.8	-4	W'N	3	c	51	97	50	8	5	-	-	10	10	2500	0	2
18	Malin Head ...	27.9	+6	N'W	3	r.r.	48	97	47	8	5	2	-	7-8	9+	1500	1	3
	Aldergrove ...	28.7	-6	SW'W	3	c/d	46	92	44	7	5	7	-	7-8	9	2200	1	*
19	Birr Castle ...	31.8	-2	N	1	c	39	97	38	7	5	-	-	10	10	2500	1	*
20	Valentia Obsy.	33.1	+2	-	0	b	32	97	31	8	5	-	1	Tr	1	2500	1	1
	Roches Point	32.4	0	N	3	bbc	39	92	37	8	5	-	-	2-3	2-3	2500	1	3

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 19th Hrs. (38)
1	London (Kew)	47	43	41	Tr	-	0.0
	Croydon ...	46	43	41	Tr	-	0.0
	S. Farnborough	46	42	40	Tr	-	0.0
	Boscombe Down	43	41	39	0.1	-	0.0
	Thorney Island	46	42	41	Tr	-	*
	Lympne ..	47	41	40	Tr	Tr	0.0
	Manston ...	47	42	41	0.1	Tr	0.0
2	Shoeburyness ...	47	43	41	0.1	Tr	0.0
	Felixstowe ...	48	43	42	0.1	-	0.4
	Gorleston ...	46	43	43	Tr	-	0.2
	Mildenhall ...	46	41		0.2	Tr	0.0
	Cranwell ...	45	39	33	-	-	0.0
3	Birmingham ...	44	43	29	-	-	0.0
	Upper Heyford	45	41		Tr	-	*
4	Ross-on-Wye	44	42	30	-	-	0.0
5	Hartland Point	50	46	45	-	-	0.0
	Bristol ...	45	43	39	-	-	0.0
	Portland Bill ...	45	43	*	-	-	*
	Plymouth ...	48	44	42	-	-	0.0
	The Lizard ...	49	45	*	-	-	0.0
	Scilly (St. Mary's)	51	48	*	-	-	0.0
	Guernsey ...						
6	Pembroke ...	49	43		Tr	-	0.0
7	Holyhead (Valley)	49	42	36	-	-	*
	Chester (Sealand)	49	46	42	-	-	0.0
8	Manchester ...	45	45	40	-	-	*
10	Spurn Head ...	47	42		Tr	-	0.0
	Catterick ...	45	42	33	-	-	3.4
	Tynemouth ...	46	44	*	-	-	*
11	St. Abbs Head	49	34		-	-	
	Leuchars ...	48	42	34	-	-	5.3
12	Renfrew (Abbots I.)	48	43	36	Tr	1	0.0
	Eskdalemuir ...	45	43	40	-	1	0.7
	Point of Ayre...	49	47	*	-	-	0.0
13A	Tiree	51	45	*	Tr	0.6	0.5
13B	Stornoway ...	51	40		1	0.4	
15	Dalwhinnie ...	45	39	33	0.1	3	0.3
	Aberdeen † ...	47	43	38	—	Tr	4.7
	Wick ...	52	41	37	Tr	Tr	*
16	Sumburgh ..	50	37	35	1	*	0.0
17	Blacksod Point	49	48	*	-	-	*
18	Malin Head ...	50	47		Tr	1	0.0
	Aldergrove ...	46	40	37	-	Tr	0.0
19	Birr Castle ...	45	*	*	-	-	0.0
20	Valentia Obsy.	44	31	26	-	Tr	0.0
	Roches Point	45	39	*	-	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

Station	13h. G.M.T. 19th November IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	18h. G.M.T. C$_L$C$_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 20th November C$_L$C$_M$	wwVhN$_h$	DDFWN	07h. G.M.T. C$_L$C$_M$	wwVhN$_h$	DDFWN
109	5-	02775	55726	52	62755	57567	5-	02765	22455	86	02754	29685
115				57	22844	05667	57	81734	05687	57	61587	22243
203										5-	02847	24427
206	8-	02866	24426	57	60844	56567	86	02863	26425	53	02864	26285
210	53	02864	20314	53	02863	22516	44	01862	23323	53	02865	25316
220				52	03645	22428				90	02745	24385
230	5-	51858	17358	83	02855	18365	52	61856	18368	5-	01963	28223
245	04	01790	23102	03	05690	23124	5-	61748	24368	54	01963	26364
260				5-	05556	23226	53	08454	22426	54	05663	22214
278	5-	02863	25328	52	02856	26468	57	02844	24418	57	22847	28458
279	52	05555	20347	5-	02756	22428	53	02764	22425	57	52765	20457
285	23	05624	28514	23	02745	28517				5-	51637	24557
288	5-	05664	20314	53	05654	21217	00	00790	19210	04	17690	17325
575	5-	02868	20128	5-	02857	22227	5-	02847	22227	50	01841	57401
301	5-	05658	28348	5-	05668	28358	53	02864	26428	57	02865	26326
321				53	08444	29226	5-	43453	23243	53	05553	26215
299	5-	05548	26128				00	05690	26300	5-	02756	24316
292	50	05544	07144	53	47242	22144	00	05690	20240	5-	05666	21216
310	--	08428	26428	--	02628	26428						
614	5-	08448	22128	52	08445	00028	5-	05566	24146	03	05590	24214

Station	13h. G.M.T. 19th November IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	18h. G.M.T. C$_L$C$_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 20th November C$_L$C$_M$	wwVhN$_h$	DDFWN	07h. G.M.T. C$_L$C$_M$	wwVhN$_h$	DDFWN
333	52	05647	28248	5-	02844	26328	53	02754	32125	5-	02748	26128
334	--	05647	22228	--	05549	30228				--	01681	00002
340	5-	08658	22228	5-	05658	28228	5-	02758	26128	53	01764	24114
136	5-	05648	28358	5-	08448	22228	5-	05658	24328	5-	05566	24326
336	57	02756	12328	57	05656	12328				50	01753	04313
350	5-	05648	29345	5-	08448	20228	5-	05658	21128	50	05663	23223
368	5-	05558	04128	5-	08458	00028				5-	08458	00028
379	5-	05548	24128									
390	5-	21634	32258	5-	41428	00058	5-	08458	22148	5-	43348	20248
382	5-	05628	26128	5-	05645	28128	5-	05658	00028	5-	02757	26227
438				52	51447	32228	5-	03348	00028	52	02447	12228
430	5-	51538	32128	5-	51548	32228	5-	05558	28128	5-	05657	28228
409	5-	02758	21128	5-	02758	00028	5-	02758	00028	5-	02758	02228

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 20th 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 *	cidocmo	cidocmo	cmo	
Croydon ..	cmidoomo	cmof	omofofom	
Greenwich ..	odomo	og	of	Kew 24 hours ended 7h. Max. 0.2 Time 21h. Min. 0.1 Time 0.64 20th.
Camden Square	c	o	*	
Kensington ..	cbccm	com	*	
Hampstead ..	o	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 % To-day
Kew	47	43	41	Tr	-	0.0	*	*
Croydon ..	46	43	41	Tr	-	0.0	*	*
Greenwich ..	46	43	41	Tr	-	0.0	83	80
Westminster ..	47	43	41	-			91	86
Regents Park ..	46	44	42	-	-		88	84
Camden Square	46	44	41	-	-	*	*	81
Kensington ..	47	43	41	-	-		85	82
Hampstead ..	47	41	38	-	-		*	87

Page 1 BRITISH SECTION

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

SECRET

Saturday 21st November 1942

No. 29584

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)	27.8	-6	NW	2	zo	49	75	41	6	5	-	-	9+	9+	4000
	Croydon	28.5	-6	WNW	2	zo	49	85	43	5	5	-	-	9+	9+	3500
	S. Farnborough	28.3	-10	NWN	2	c	49	75	40	7	3	-	-	7-8	10	2000
	Boscombe Down	29.3	-6	NW'W	3	zo	47	75	40	6	5	-	-	4-6	4-6	4000
	Thorney Island	28.3	-10	NW	2	zo	47	85	43	6	-	3	-	0	2-3	-
	Lympne	26.9	-16	W'N	2	m	48	75	41	4	-	-	2	0	2-3	-
	Manston	26.5	-12	NW	3	zo	48	85	43	6	-	3	6	0	4-6	-
2	Shoeburyness	26.7	-6	NW'N	3	zo	51	75	43	6	5	4	1	7-8	9	3500
	Felixstowe	26.2	-10	W'N	3	zo	48	85	42	6	5	-	-	9	9	4000
	Gorleston	25.4	-6	NW	2	zo	49	75	41	6	5	3	-	4-6	7-8	1500
	Mildenhall	26.2	-10	W'S	2	iro	47	85	44	5	5	-	-	9+	9+	3000
	Cranwell	26.0	-6	W	4	zo	51	85	47	5	5	3	-	9	9+	2500
3	Birmingham	28.1	-2	W	3	zo	48	85	44	6	5	7	-	7-8	10	2500
	Upper Heyford	28.0	-10	NW	3	zo	48	85	42	6	5	3	-	9	9+	4500
4	Ross-on-Wye	28.4	-8	WNW	2	c	50	75	42	8	5	3	-	9	9+	3000
5	Hartland Point	30.4	-2	N	3	c	49	85	42	8	2	6	-	2-3	9	2500
	Bristol	29.5	-10	W	3	zo	48	85	43	6	-	3	-	0	4-6	-
	Portland Bill	28.1	-14	NW	2	o	48	92	46	8	5	-	-	10	10	4000
	Plymouth	30.7	-6	NW	1	zo	49	75	42	6	5	-	-	4-6	4-6	3500
	The Lizard	31.1	0	-	0	o	48	75	41	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	31.7	+2	N	3	o	49	75	40	8	5	-	-	10	10	1400
	Guernsey															
6	Pembroke	31.2	+6	NW	3	c	50	85	45	8	2	-	-	9+	9+	2800
7	Holyhead (Valley)	29.4	-4	NWW	3	iro	50	85	46	7	5	7	-	4-6	9+	2000
	Chester (Sealand)	27.8	-8	NNW	2	zo	51	85	47	6	5	-	-	10	10	4000
8	Manchester	27.7	-2	W'S	4	zo	50	92	48	5	5	7	-	7-8	10	1000
10	Spurn Head	25.3	-6	WNW	4	zo	48	92	47	6	7	3	-	4-6	9	2100
	Catterick	26.1	0	NW	2	c	49	65	37	8	4	-	2	4-6	9+	3500
	Tynemouth	26.3	+6	N	3	bc	48	85	43	6	2	3	-	4-6	4-6	2600
11	St. Abbs Head	24.2	0	NW	3	bbc	47	85	43	7	5	4	-	2-3	2-3	3500
	Leuchars	25.2	0	WNW	3	bc	48	75	41	9	5	4	-	2-3	4-6	3500
12	Renfrew (Abbots I.)	26.5	-2	W	2	cbc	49	75	40	8	8	-	-	7-8	7-8	2500
	Eskdalemuir	26.0	-4	NW'W	3	b-bc	47	65	36	8	7	-	1	1	2-3	2800
	Point of Ayre	28.0	0	NNW	4	c	51	75	43	8	5	7	-	7-8	9+	3000
13A	Tiree	27.7	-2	NW'W	4	cbcjp	49	85	43	8	9	6	-	4-6	7-8	2500
13B	Stornoway	26.1	0	W	3	p'r	46	85	45	8	2	6	-	7-8	9	2500
15	Dalwhinnie	27.0	0	NW	2	o	42	75	34	8	5	-	-	10	10	2500
	Aberdeen	24.6	+4	NW	3	cjp	43	75	36	8	8	-	-	7-8	9	4000
	Wick	24.4	+2	WNW	3	c-bc	40	92	38	8	8	3	-	4-6	7-8	2000
16	Sumburgh	21.3	+8	NW	6	e/ps	32	97	32	7	8	-	-	9+	9+	1800
17	Blacksod Point	31.6	+2	W	2	o	53	97	52	8	5	-	-	10	10	2500
18	Malin Head	28.6	+2	NWN	3	r	49	75	42	8	5	2	-	4-6	9+	2500
	Aldergrove	29.9	+4	WNW	4	c	47	75	44	9	5	-	-	9+	9+	2500
19	Birr Castle	31.5	-6	WNW	1	c	51	85	47	8	5	1	-	7-8	10	2500
20	Valentia Obsy.	33.4	-10	NE	2	b	47	85	43	8	1	-	1	Tr	Tr	1500
	Roches Point	32.2	-10	N	3	bbc	50	85	46	8	1	-	5	Tr	2-3	4000

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)	27.5	+4	W'S	1	iro	48	85	45	4	6	2	-	9+	10	1500	1	*
Croydon	27.6	+2	W'N	2	iro	48	92	45	4	5	-	-	10	10	1400	1	*
S. Farnborough	28.1	+2	W'N	2	zo	47	85	43	6	5	-	-	9+	9+	2500	1	*
Boscombe Down	28.3	-2	W'N	2	c/pr	46	85	43	6	5	-	-	9+	9+	3500	0	*
Thorney Island	27.7	+2	WNW	2	zo	46	85	43	5	-	3	-	0	7-8	-	0	*
Lympne	26.8	-2	WNW	2	m	46	92	44	4	5	3	-	4-6	9+	5700	1	§
Manston	26.4	+6	NW'W	2	cm/d	47	92	45	5	5	-	-	9+	9+	2500	1	*
Shoeburyness	26.4	0	W'N	2	m/d	48	85	45	4	5	-	-	10	10	1500	1	*
Felixstowe	25.8	-2	WSW	2	o/r	47	97	46	6	5	-	-	10	10	3100	1	2
Gorleston	25.4	+2	WNW	2	o	48	85	44	5	5	-	-	10	10	1500	0	2
Mildenhall	26.2	+4	W	2	m	47	92	45	4	5	3	-	2-3	9	4000	1	*
Cranwell	26.2	+10	NNW	3	c/f	47	85	41	5	8	6	-	7-8	9+	3500	0	*
Birmingham	27.7	0	WNW	3	roro	47	92	45	4	6	-	-	10	10	800	1	*
Upper Heyford	27.6	+2	WNW	2	zo	47	85	43	6	5	-	-	9+	9+	2800	0	*
Ross-on-Wye	27.9	+6	WNW	3	e	49	75	41	8	4	5	1	1	9	3500	1	*
Hartland Point	29.7	+2	NNW	3	c	50	85	46	7	2	7	-	4-6	9+	2000	0	3
Bristol	29.0	+10	WNW	2	m	48	85	44	4	5	-	-	9+	9+	4000	1	*
Portland Bill	28.0	-2	SW	2	o	49	92	47	8	5	-	-	10	10	4000	1	3
Plymouth	30.0	+2	NW	1	m	46	92	43	4	5	4	5	1	2-3	2500	0	2
The Lizard	30.0	0	N	3	c	47	85	42	7	8	2	-	9	10	1800	0	3
Scilly (St. Mary's)	30.9	+6	N	2	o	49	75	40	8	5	-	-	10	10	1800	0	3
Guernsey																	
Pembroke	30.4	0	NW	3	c	50	85	46	8	8	7	-	7-8	9	2500	0	2
Holyhead (Valley)	28.9	+2	NW'N	4	c	49	65	40	8	5	3	-	4-6	9	1500	1	3
Chester (Sealand)	27.8	+6	WNW	1	c/r	47	92	45	6	5	2	-	7-8	10	1500	1	*
Manchester	27.4	+6	WNW	2	m	46	85	42	4	5	3	-	2-3	7-8	4000	1	*
Spurn Head	25.7	-2	NE	2	zo	47	85	42	6	5	-	-	9+	9+	1500	0	2
Catterick	26.7	+2	W'N	1	zo	46	75	39	6	5	-	-	9+	9+	3000	1	*
Tynemouth	26.3	+6	WNW	3	b-bc	45	75	38	6	5	3	-	2-3	2-3	2500	1	3
St. Abbs Head	25.4	+2	WNW	3	c-bc	46	85	42	7	5	-	-	7-8	7-8	4000	0	3
Leuchars	25.5	+4	WNW	2	c-bc	43	92	41	8	5	3	-	2-3	7-8	3000	1	*
Renfrew (Abbots I.)	26.6	+2	SW	2	zo	45	85	41	6	4	5	-	2-3	7-8	2000	1	*
Eskdalemuir	26.7	+6	W	2	c	42	85	36	8	5	-	-	9	9	2500	0	*
Point of Ayre	27.6	0	N'W	4	c	49	75	42	8	5	3	-	7-8	9+	3000	0	4
Tiree	28.2	+6	NNW	4	bc	45	92	43	8	3	6	3	2-3	4-6	2000	1	4
Stornoway	29.4	+30	N	2	c	39	85	34	8	8	6	-	9	9+	2200	1	
Dalwhinnie	27.4	+2	NNW	2	c-bc	38	85	34	8	8	-	-	7-8	7-8	2500	1	*
Aberdeen	25.7	+14	NNW	2	e/r	40	85	37	8	5	7	-	7-8	10	2000	1	2
Wick	25.7	+10	NNW	5	c	37	65	27	8	8	3	-	7-8	9+	2500	1	*
Sumburgh	23.1	+18	NNW	6	bc/ps	30	97	23	8	3	6	-	4-6	4-6	1500	7	4
Blacksod Point	31.7	+6	N	2	roro	49	97	48	7	-	2	-	10	10	1500	1	2
Malin Head	28.6	+2	NW'W	4	bc	48	75	40	8	8	2	-	4-6	4-6	1500	1	4
Aldergrove	29.5	+2	WNW	2	c	45	85	40	8	5	-	-	9+	9+	3000	1	*
Birr Castle	30.7	0	WNW	1	iro	49	97	48	7	5	-	-	10	10	1500	1	*
Valentia Obsy.	33.0	+2	NE	2	b	41	97	40	8	7	-	-	Tr	Tr	2500	1	*
Roches Point	31.7	+2	N	3	bc	47	85	43	8	5	-	5	2-3	4-6	2500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 20th (39)	Weather 13h.—18h. 20th (40)	Weather 18h. 20th – 1h. 21st (41)	Weather 1h.–7h. 21st (42)
London (Kew)	cm.b,cz.	ocr.r.m	cr.ir.m.	cm.
Croydon	cmbcm.cm	cm.cjr.	cm	cm
S. Farnborough	cm.bbo	cz.c,b,cm.	cir.m.	cm.
Boscombe Down	cm.v m.	bcm.,pr.m.	cir.m.cm.	c
Thorney Island	cm.bcm.	bccm.	cir.pr.m.	cm.ir.bcm
Lympne	cmbcz	bcz.cm	cfr.cf	cfcm.
Manston	cbcm.	cm.id.	cf	bcmcm.
Shoeburyness	cm.bcc	om.cmd.	cm.ir.	cm.ir.
Felixstowe	cm.	cm.ir.cm.	cm.	cir.m.cm.
Gorleston	cm.m.	cid.mo	cmc	cz.
Mildenhall	bcb,cm.	cir.m.cm	cmcm.	cm.ir.m.
Cranwell	cm/cm.	cm.fbcm.	cm.	cm.
Birmingham	bcc	cor.m	or.c	cof
Upper Heyford	cbccm.	cir.cm.	ccir.c	cm.bcm.
Ross-on-Wye	bcbbcc	cbcc	ccbc	cd.c
Hartland Point	c	c	c	cir
Bristol	cbcm.	ccz.	cm.ir.r.r.c	b,cbcm.
Portland Bill	c	c	c	cbc
Plymouth	cbcm.	bm.bcm	cmcbcc	cid.c
The Lizard	o	oc	cbcc	cpr.r.
Scilly (St. Mary's)	c	c	cbcc	c
Guernsey				
Pembroke	bcc	c		cbcc
Holyhead (Valley)	cir.	cr.r.bc	c	cpr ir.
Chester (Sealand)	cm.pr.	cr.dcm.	m.irr.r.	r.r.m.bc
Manchester	id.r.r.	id.mm.	cm	ir.cm
Spurn Head	cm.	c	cm.	c
Catterick	bcir.c	ccm.	bcm.cm.	cm.cz.
Tynemouth	cbc	bcm.	bcc	cp.
St. Abbs Head	cbcbm.	bm.bcm.	cbccr.	c
Leuchars	bccb	bccbcc	bcid.c	cvcbc
Renfrew (Abbots I.)	bcc	cbcjpcm.	bm.bccm.	r.r.c
Eskdalemuir	cbc	bcc	cbc	bc
Point of Ayre	cir.c	c	cbcc	bcc
Tiree	b,cpr.c	cprbc	pr.bcc	c
Stornoway	bcc pr.	cpr.bcc	cbc	bcc
Dalwhinnie	ocir.o	oir.c	*	cpr.
Aberdeen	bccpr.	cir.	cir.c	cposbc
Wick	cpr.c	cpr.c	cpscbc	bcps.bcps.
Sumburgh	cis.psh	cpsbc	bcps.cps.	bcpsbc
Blacksod Point	c	r	c	bc
Malin Head	r	pr	pr	pr
Aldergrove	cid.c	c	cid.bcc	cbcc
Birr Castle	c.	r	•	r
Valentia Obsy.	bc	bc	bc	c
Roches Point	bc	bc	c	c

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

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Light or moderate northwest to north wind; cloudy, occasional slight rain today; fair or fine later apart from wintry showers near East Coast; rather cold today, keen frost tonight.
5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England	Light northerly wind; variable cloud, slight local rain today, mainly fine later; rather cold today, keen frost tonight.
9 N. Midlands; 10 N.E. England; 11 S.E. Scotland	Light or moderate north wind; cloudy at first with slight local rain, fine periods later; snow showers later near East Coast. Cold today, hard frost tonight.
12 S.W. Scotland & Isle of Man; 13A W. Scotland	As 5 - 8.
13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Moderate or fresh northerly wind; variable cloud, frequent snow showers; cold today, hard frost at night.
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 wind; mainly cloudy with slight local drizzle at first, fair or fine later; rather cold, keen frost at night.

GENERAL INFERENCE

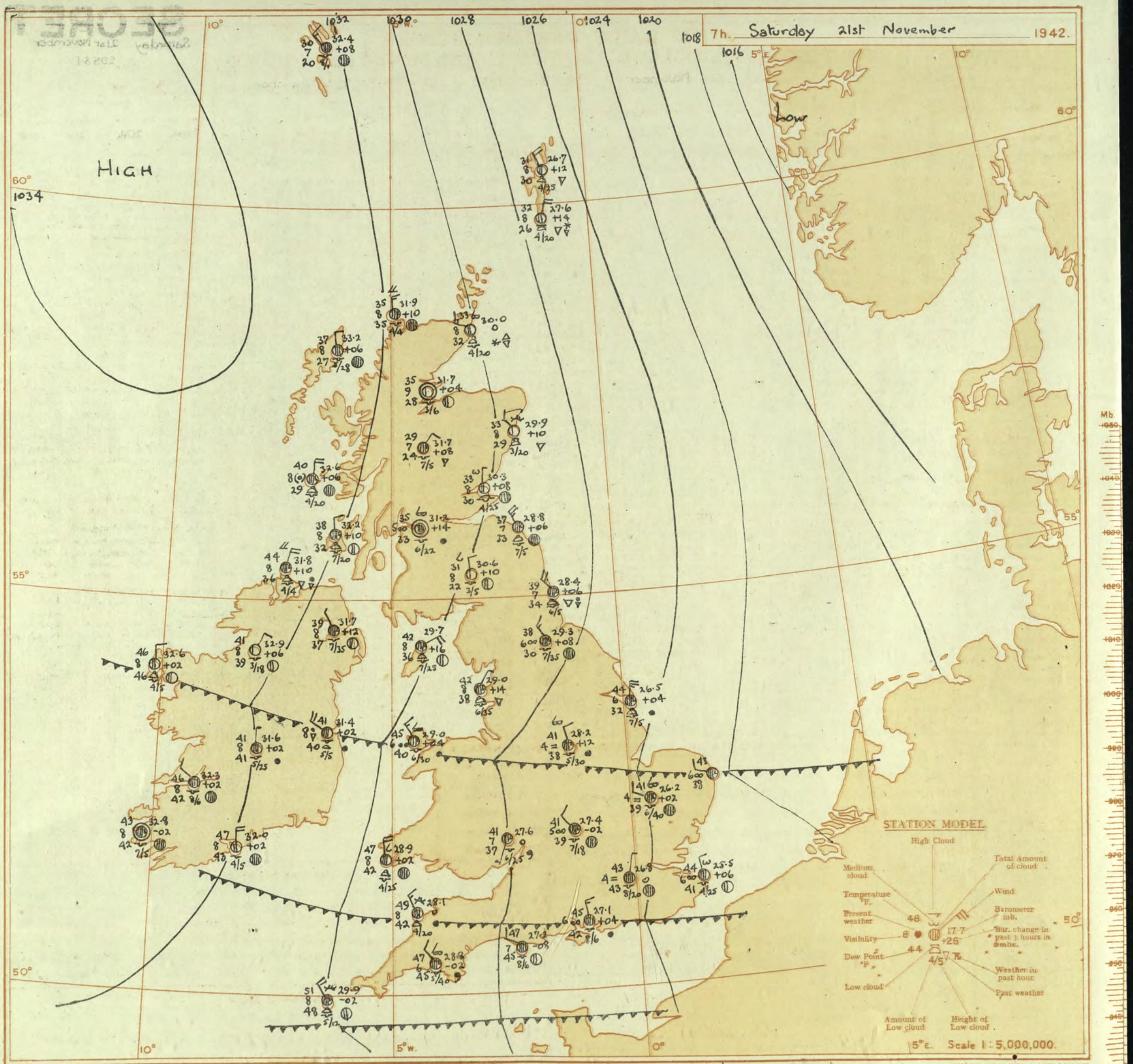
A large anticyclone extends from Iceland to west of Ireland, and a cold northerly air current is flowing over the British Isles. Minor troughs of low pressure over Southern and Northern England respectively are moving south. There will be occasional slight rain today in many districts. Snow showers will occur in North and East Scotland and will spread down the East Coast of England. It will be cold in the North, and rather cold elsewhere. There will be keen frost tonight in many districts, and hard frost in the North.

FURTHER OUTLOOK

Cold or rather cold generally with frost at night; mainly fair or fine but occasional wintry showers near East Coast; becoming milder later in Scotland.

Forecasts issued at 1030.

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



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

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

Explanation of Frontal Lines shown on Charts

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

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

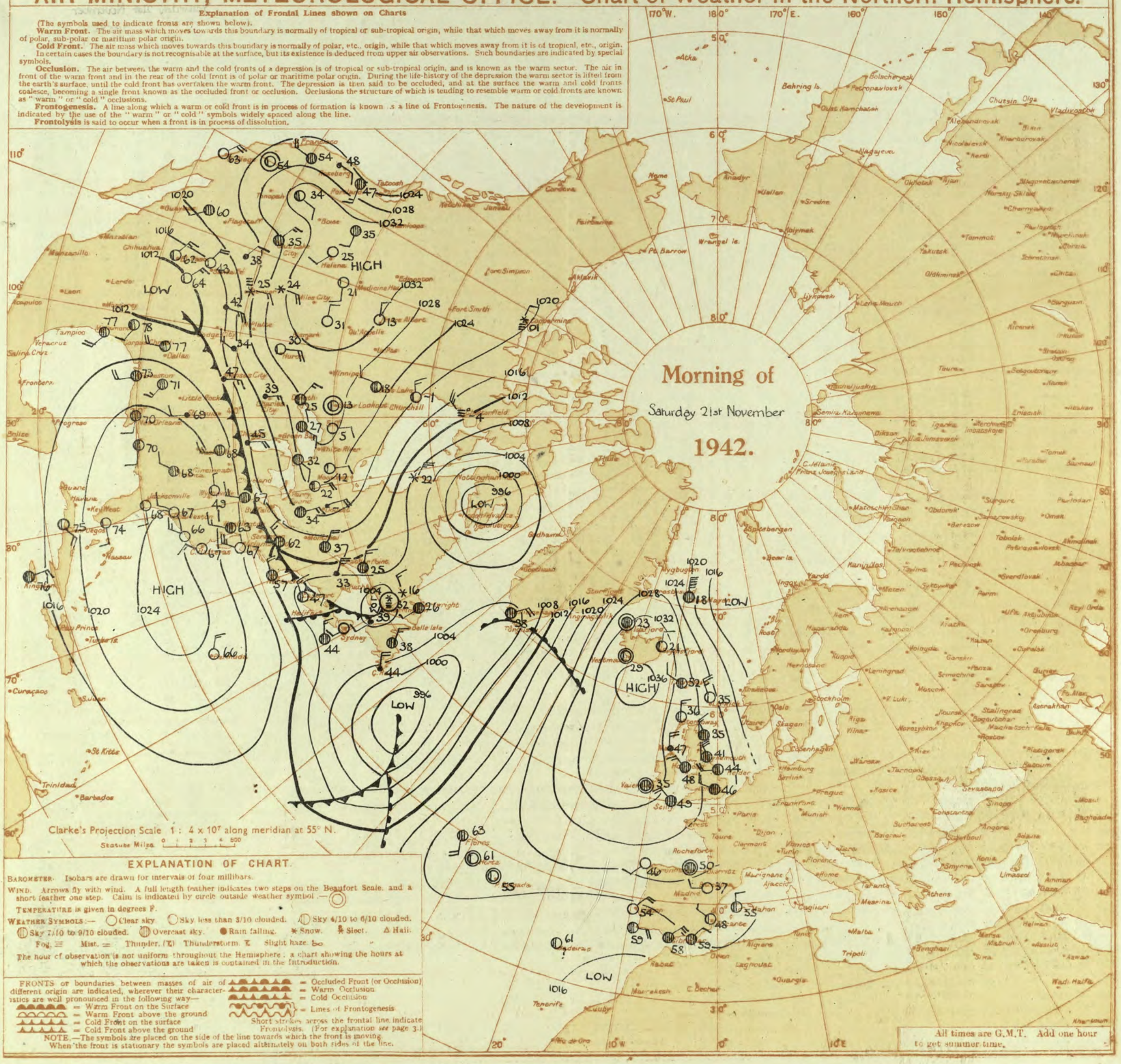
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

Page 4. BRITISH SECTION

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

Saturday 21st November 1942

No. 29584

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)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	47	*	*	*	*	*	*	*	*	*
	Croydon	290	27·4	-2	NW'W	1	m	46	97	45	4	5	-	-	10	10	2000
	S. Farnborough	226	27·3	-6	NW	2	c/r	46	95	43	6	5	3	-	4-6	9+	4000
	Boscombe Down	417	28·1	-2	NW'N	3	c/r	46	85	43	6	5	-	-	9+	9+	4000
	Thorney Island	10	27·2	-6	WNW	2	z.	45	97	44	6	5	3	-	4-6	9	4000
	Lympne	283	26·4	-2	WNW	1	cf	43	97	43	3	5	-	-	9+	9+	6000
	Manston	154	25·9	-2	NNW	3	r/f	45	97	44	4	1	3	-	Tr	2-3	3500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	25·5	+4	WNW	2	z.	45	85	42	6	5	-	-	10	10	1500
	Gorleston	5	25·8	-6	N'E	2	c	46	92	44	7	6	-	-	9+	9+	1500
	Mildenhall	15	26·4	+2	NW'N	2	z.	41	97	40	6	5	-	-	10	10	2500
	Cranwell	203	26·7	-2	WNW	2	z.	43	85	39	5	5	-	-	9+	9+	4000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	27·7	-2	NW'W	2	z.	44	97	43	5	5	-	-	4-6	9+	1300
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	29·0	-8	NW	3	c	51	92	48	7	2	7	-	4-6	10	2500
	Bristol	209	29·0	-2	-	0	b-bc	43	85	37	7	5	-	-	2-3	2-3	2500
	Portland Bill	32	28·5	-2	NW	2	c	49	92	46	7	5	-	-	10	10	800
	Plymouth	82	29·6	-4	NNW	2	c	49	92	46	8	5	7	1	4-6	9+	6200
	The Lizard	240	30·0	-4	N'W	4	c-bc	48	92	46	8	8	6	-	7-8	7-8	2000
	Scilly (St. Mary's)	163	31·0	-6	NW'N	4	c	49	85	45	8	5	3	-	10	10	1500
	Guernsey	175															
6	Pembroke	142	29·0	-2	NNE	4	c	50	75	43	8	5	5	-	9+	10	2500
7	Holyhead (Valley)	32	28·7	-2	NNW	3	c	48	75	41	8	7	3	-	1	9+	3000
	Chester (Sealand)	16	27·2	+4	WNW	1	r0r0	46	85	43	7	5	2	-	1	10	2500
8	Manchester	235	27·3	-2	-		m	43	97	42	4	5	3	-	9	9+	4000
10	Spurn Head	29	26·0	0	W	4	z.	44	85	39	6	7	-	-	9+	9+	2500
	Catterick	175	27·3	+2	NW'W	2	z.	43	85	38	6	5	4	-	7-8	9	3500
	Tynemouth	108	27·2	+6	NNW	6	c	41	85	39	7	5	-	-	9+	9+	2500
11	St. Abbs Head	280	27·2	+12	N	4	c	40	65	31	7	5	-	-	10	10	2500
	Leuchars	36	27·5	+16	NNW	3	c	39	85	34	9	8	3	-	4-6	9+	3000
12	Renfrew (Abbots I.)	19	29·2	+20	E	2	r0r0	40	85	35	7	5	-	-	10	10	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	28·0	0	N	4	c	48	85	43	8	8	-	-	9	9	3000
13A	Tiree	44	30·7	+12	NNE	3	c	42	75	36	8	8	-	-	9	9	5000
13B	Stornoway	15	32·1	+12	N	3	bc	36	85	31	8	5	3	-	4-6	4-6	3600
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	28·4	+10	NNW	3	c	35	85	31	9	8	6	-	4-6	9	3000
	Wick	114	28·2	+6	N	5	c-bc	35	75	27	8	8	7	-	4-6	7-8	3500
16	Sumburgh	19	25·5	+2	N	6	ps	31	85	28	8	8	-	-	7-8	7-8	2000
17	Blacksod Point	18	32·7	+4	N'W	2	c	48	92	46	8	8	-	-	10	10	2500
18	Malin Head	84	30·1	+4	N	4	c/r	47	65	37	8	8	2	-	7-8	9+	2500
	Aldergrove	268	30·2	0	NW'W	1	c-bc/d	42	97	41	8	5	-	-	7-8	7-8	3000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	33·4	-2	-	0	c	35	97	34	7	5	4	-	Tr	9	2500
	Roches Point	22	31·3	-6	N	4	bc	46	85	42	8	5	-	-	4-6	4-6	2500

OBSERVATIONS at 7 hr. 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)	26·8	+2	NW'N	1	z.	45	85	41	5	5	-	-	9+	9+	1500	1	*
Croydon	26·8	0	N'E	1	m	43	97	43	4	5	-	-	10	10	2000	1	*
S. Farnborough	27·1	+6	NW'N	2	z.	44	92	41	6	5	-	-	10	10	3500	1	*
Boscombe Down	27·7	+6	N	2	bc	40	85	37	7	5	-	-	4-6	4-6	6000	0	*
Thorney Island	27·1	+4	N'W	3	z.	45	85	42	6	5	-	-	10	10	4000	1	*
Lympne	25·6	-2	NNW	2	z.	42	97	40	5	5	-	-	9	9	4000	1	§ 1
Manston	25·5	+6	N	2	z.	44	85	41	6	5	3	-	4-6	7-8	2500	1	*
Shoeburyness	26·0	+2	NNW	2	c/r	43	92	41	5	5	-	-	9+	9+	2500	1	*
Felixstowe	25·7	+2	W'N	2	z.	43	92	43	5	5	-	-	9+	9+	4000	1	2
Gorleston	25·2	-2	WNW	2	z.	43	85	38	6	5	-	-	9+	9+	1500	0	2
Mildenhall	26·2	+2	NW'W	2	m	41	97	39	4	5	7	-	9	9+	4000	1	*
Cranwell	27·2	+8	N'W	3	z.	40	97	39	5	5	7	-	4-6	9+	4000	0	*
Birmingham	27·6	+4	NNW	3	rf	43	92	41	2	6	·	-	10	10	800	1	*
Upper Heyford	27·4	-2	NW'N	2	z.	41	97	39	5	6	-	-	9+	9+	1800	1	*
Ross-on-Wye	27·6	0	S'W	1	c	41	85	37	7	5	-	1	9	9+	2500	1	*
Hartland Point	28·1	0	NNW	3	c-bc	49	75	42	8	2	6	-	4-6	7-8	2000	1	4
Bristol	28·7	+2	-	0	c	41	85	38	6	5	3	-	7-8	9	4000	1	*
Portland Bill	27·2	-8	NW	2	c	47	92	45	7	5	-	-	10	10	4000	1	3
Plymouth	28·8	-2	NNW	2	c	47	92	45	6	5	7	-	7-8	9	4000	1	2
The Lizard	29·0	-2	NNW	4	r0r0	49	97	49	8	8	2	-	9	10	2000	1	3
Scilly (St. Mary's)	29·9	-2	NNW	4	c	51	92	48	8	8	6	-	7-8	9+	1200	0	3
Guernsey																	
Pembroke	28·9	+2	N	4	c-bc	47	85	42	8	8	4	-	4-6	7-8	2500	0	2
Holyhead (Valley)	29·0	+4	NNW	3	r0r0	45	85	40	6	5	7	-	9	9+	3000	1	2
Chester (Sealand)	27·8	+2	NW	1	c/r	44	92	42	6	5	-	-	10	10	2500	1	*
Manchester	28·0	+10	NNE	2	m	39	92	37	4	5	7	-	4-6	9	2500	1	*
Spurn Head	26·5	+4	N'E	5	c	44	65	32	6	8	-	-	9+	9+	2500	1	4
Catterick	29·3	+8	NNW	3	z.	38	75	30	6	5	-	-	9+	9+	3500	1	*
Tynemouth	28·4	+6	NNW	5	c/pr	39	75	34	7	8	-	-	9	9	2500	1	3
St. Abbs Head	28·8	+6	NNW	5	c	37	85	33	7	8	-	-	9+	9+	2500	0	4
Leuchars	30·3	+8	N	1	bc	33	85	30	8	4	3	-	4-6	4-6	2500	1	*
Renfrew (Abbots I.)	31·2	+14	-	0	z.	35	92	33	5	5	7	·	9	10	2200	1	*
Eskdalemuir	30·6	+10	N	2	b-bc	31	75	22	8	5	4	-	2-3	2-3	2500	1	*
Point of Ayre	29·7	+16	ENE	4	c	42	75	36	8	8	-	-	9+	9+	2500	0	4
Tiree	32·6	+6	N'E	4	cjp	40	65	29	8	8	-	-	4-6	9+	2000	0	
Stornoway	33·2	+6	N	2	c-bc	37	65	27	8	5	-	-	7-8	7-8	2800	1	
Dalwhinnie	31·7	+8	NE	2	c	29	85	24	7	5	-	-	9+	9+	2500	3	*
Aberdeen †	29·9	+10	NW'N	2	b-bc	33	85	29	8	3	6	3	2-3	2-3	2000	4	2
Wick	30·0	+10	WNW	3	bc/phr	33	97	32	8	8	7	-	4-6	4-6	2000	4	*
Sumburgh	27·6	+14	N'E	4	bc/ps	32	85	26	8	3	-	-	4-6	4-6	2000	4	4
Blacksod Point	32·6	+2	N	2	bc	46	97	46	8	8	-	-	4-6	4-6	2500	1	2
Malin Head	31·8	+10	NNE	4	c/pr	44	75	36	8	8	2	-	4-6	9+	1500	1	4
Aldergrove	31·7	+12	NNW	1	c	39	92	37	8	5	-	-	9+	9+	3500	1	*
Birr Castle	31·6	+2	N	1	c-bc	41	97	40	8	5	-	-	7-8	7-8	2500	1	*
Valentia Obsy.	32·8	-2	-	0	c	43	97	42	8	5	-	-	9+	9+	2500	1	§
Roches Point	32·0	+2	N'	4	bc	47	85	43	8	5	-	-	4-6	4-6	2500	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 20th Hrs. (38)
London (Kew)	50	44	39	0·4	0·1	2·0
Croydon	50	43	40	0·1	0·5	2·2
S. Farnborough	50	43	40	-	-	1·9
Boscombe Down	49	39	28	Tr	Tr	1·5
Thorney Island	51	44	35	-	Tr	*
Lympne	48	39	32	-	1	3·4
Manston	50	41		Tr	0·2	
Shoeburyness	51	41	30	-	1	2·9
Felixstowe	50	42	39	0·3	0·3	2·0
Gorleston	49	43	41	Tr	-	0·6
Mildenhall	49	40	38	Tr	0·3	0·0
Cranwell	53	40	37	-	-	1·1
Birmingham	49	42	39	1	1	0·1
Upper Heyford	48	41	44	Tr	0·3	*
Ross-on-Wye	52	41	32	-	Tr	4·0
Hartland Point	50	48	46	-	0·2	0·9
Bristol	51	41	33	-	0·4	3·3
Portland Bill	50	45	*	-	-	*
Plymouth	51	45	39	-	Tr	1·2
The Lizard	49	42	*	-	1	0·0
Scilly (St. Mary's)	50	47	*	-	-	0·0
Guernsey						
Pembroke	51	44	40	-	Tr	
Holyhead (Valley)	51	44	42	0·1	1	*
Chester (Sealand)	52	43	39	1	2	0·0
Manchester	50	39	31	0·1	0·1	*
Spurn Head	49	42	*	-	1	1·4
Catterick	51	38	34	-	Tr	1·5
Tynemouth	49	38	35	-	Tr	*
St. Abbs Head	49	37	*	-	Tr	*
Leuchars	49	32	23	-	-	4·7
Renfrew (Abbots I.)	49	33	26	-	0·3	2·5
Eskdalemuir	49	30	25	-	-	5·3
Point of Ayre	51	42	*	Tr	Tr	0·1
Tiree	49	40	*	0·4	Tr	3·4
Stornoway	47	34	*	0·4	-	
Dalwhinnie	43	29	26	0·2	0·1	0·5
Aberdeen †	45	32	29	Tr	0·1	1·5
Wick	44	28		2	Tr	*
Sumburgh	38	30	20	1	1	0·4
Blacksod Point	53	43	*	1	0·2	*
Malin Head	49	43		0·2	1	0·9
Aldergrove	48	38	30	1	0·2	1·1
Birr Castle	52	40	37	Tr	0·5	2·1
Valentia Obsy.	43	34	31	Tr	Tr	6·3
Roches Point	53	46	*	-	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 20th November $C_L C_M$	wwVhN_h	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN	01h. G.M.T. 21st November $C_L C_M$	wwVhN_h	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN
109	5-	02857	61487	5-	02855	61625	30	26854	63684	30	02766	26586
115				52	02835	28488	82	26844	32487	52	02844	32327
203	54	02845	28326	8-	81847	32587				5-	02847	32417
206	80	01864	26284	8-	25856	28286	8-	02965	28325	50	01963	00013
210	56	02865	29386	8-	02845	31588	5-	87854	63487	86	01954	30585
220				83	25754	2x485	23	01853	30215	52	02754	30228
230	3-	25955	24385	83	01953	30284	83	01962	04184	8-	02867	28117
245	84	02967	30317	5-	02967	22127	5-	02867	32327	84	01862	26112
260	50	01764	20214	50	01773	23213	5-	22757	01157	54	02755	04226
278	87	02966	28427	8-	02847	28327	5-	02857	32317	5-	01845	04315
279	8-	02865	22125	5-	02867	26217	55	01863	26114	54	02865	05125
285	13	01744	30515	5-	02747	32227				5-	02747	30227
288	40	15654	25314	5-	17467	23127	55	05574	28417	52	05656	59368
575	5-	02847	28127	5-	02857	28257	54	01824	28215	50	01843	02213
301	57	05646	28367	53	05564	30366	80	01876	30326	8-	02866	04186
321				4-	05667	28327	53	08464	04227	5-	05667	32327
299	50	02755	30215	5-	03748	28328	50	01754	24114	8-	14748	30568
292	8-	02854	28367	5-	05657	25217	53	0566*	* * *	5-	02767	29317
310	--	57109	24349							--	02628	26428
614	57	05547	24228	57	08456	26258	5-	45358	26148	57	08465	32267

III	13h. G.M.T. 20th November $C_L C_M$	wwVhN_h	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN	01h. G.M.T. 21st November $C_L C_M$	wwVhN_h	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN_h	DDFWN
333	5-	02744	28227	53	02754	30366	5-	02868	30268	53	02855	32215
334	--	02644	30315							--	63644	30185
340	5-	21658	24158	5-	21548	28258	53	02854	25125	5-	08455	32125
136	5-	05564	25327	5-	17455	30327	5-	25667	26187	8-	63647	32327
336	13	01754	28415	51	02755	28417						
350	5-	05667	26327	5-	08447	22227	53	08457	26128	57	08466	26227
368	54	01762	28213	5-	02768	00028	03	02790	24127	5-	02768	28118
379	5-	05657	28317	57	05644	28225	53	05655	26328			
390	57	05556	26247	5-	61347	24358	53	45375	28246	5-	45366	24247
382				53	05664	00027	5-	05656	00026	53	05664	30226
438	00	05690	22213	87	05554	32228	87	02655	16217	5-	45348	28248
430	5-	01743	28123	5-	02765	28125	5-	05667	24227	5-	05668	32428
409	5-	02856	32226	5-	02845	30225	8-	22857	30267	5-	02745	31325

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 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
Kew *	cm0bc z0	c c r r0 m	c r0 r' c m0
Croydon	cmbcm0c	cm0c r'0	cm
Greenwich	cbccm	cr0rm0	rcm
Camden Square	c	c	*
Kensington	bcc	opr	*
Hampstead	obc	or	0

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·3 Time 15-19h 20th. Min. 0·1 Time 0-6h 21st.

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	50	44	39	0·4	0·1	2·0	*	*
Croydon	50	43	40	0·1	0·5	2·2	*	*
Greenwich	50	44	39	0·5	0·3	0·1	77	80
Westminster	51	43	38	0·4			85	86
Regents Park	51	44	42	-	Tr		79	84
Camden Square	50	44	40	0·5	0·3	*	*	82
Kensington	51	44	41	0·1	1		79	83
Hampstead	49	41	39	-	0·4		*	82

BRITISH SECTION

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

SECRET

Sunday 22nd November 1942

No. 29585

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)	27·7	+2	N'E	3	Z_0	45	75	36	6	5	-	-	10	10	1500
	Croydon ...	27·9	+2	NNE	3	m	45	85	39	4	5	-	-	10	10	1600
	S. Farnborough	29·3	+2	NNE	3	Z_0	46	75	39	6	7	7	-	9	9+	1800
	Boscombe Down	28·3	+2	N'E	2	Z_0	45	85	40	6	5	-	-	4-6	10	2000
	Thorney Island	27·7	-2	N	3	Z_0	47	75	41	6	5	-	-	10	10	4000
	Lympne ...	26·7	+2	NNW	3	Z_0	45	85	40	6	7	-	-	2-3	7-8	1600
	Manston ...	26·3	-2	NNE	4	Z_0	46	85	42	6	2	-	-	9+	9+	1800
2	Shoeburyness ...	27·0	+2	N	3	c	46	75	39	7	5	4	-	7-8	9	4000
	Felixstowe ...	27·0	+2	N'W	3	Z_0	45	75	38	6	7	-	-	9+	9+	1500
	Gorleston ...	27·0	+6	N	3	c	44	65	31	7	5	-	-	9+	9+	1800
	Mildenhall ...	28·1	+4	N	4	c	42	85	37	9	8	3	-	7-8	9+	3000
	Cranwell ...	29·5	+6	NNW	4	Z_0	40	85	35	6	5	7	-	4-6	9	4000
3	Birmingham ...	30·1	+4	NNE	3	Z_0	40	75	33	5	5	7	-	7-8	9+	2500
	Upper Heyford	28·9	+2	NNE	2	c	42	85	36	7	5	-	-	4-6	9+	2200
4	Ross-on-Wye	28·8	0	E'N	2	Z_0	43	85	39	6	5	-	-	10	10	2500
5	Hartland Point	28·9	0	N	3	c	48	85	43	9	2	6	-	4-6	9	2000
	Bristol ...	29·6	0	NNE	3	cjp	45	85	42	6	8	1	-	4-6	9+	2500
	Portland Bill ...	28·2	+2	NNE	2	c	49	85	45	8	5	-	-	10	10	4000
	Plymouth ...	29·3	-2	N	3	c	50	75	41	7	8	3	-	4-6	9+	3500
	The Lizard ...	29·7	-4	N	3	cbc	50	75	43	8	8	6	-	7-8	7-8	2000
	Scilly (St. Mary's)	30·7	0	N	3	bc	51	65	38	8	8	-	-	4-6	4-6	1500
	Guernsey ...															
6	Pembroke ...	30·2	+2	NNE	3	cbc	47	85	43	8	8	-	-	7-8	7-8	2400
7	Holyhead (Valley)	31·8	+10	NNE	4	bc	43	55	28	8	7	3	1	2-3	4-6	3000
	Chester (Sealand)	31·0	+8	NNW	2	Z_0	41	65	32	6	5	-	-	9+	9+	4000
8	Manchester ...	30·5	+6	NW	4	Z_0	40	65	30	5	5	-	-	9+	9+	3000
10	Spurn Head ...	28·8	+4	NNW	6	cbq	39	85	33	7	8	-	-	7-8	7-8	2500
	Catterick ...	31·3	+2	NNW	4	cbc	38	65	28	7	7	3	-	4-6	7-8	3200
	Tynemouth ...	30·3	+4	NW	4	c	38	75	31	6	8	-	-	9	9	1800
11	St. Abbs Head	31·3	+8	N	4	bc	38	85	36	8	1	-	-	4-6	4-6	3500
	Leuchars ...	32·4	+2	NNW	4	b	39	65	28	9	2	4	-	Tr	Tr	2500
12	Renfrew (Abbots I.)	33·6	+8	N'E	3	b-bc	39	45	22	8	1	-	-	2-3	2-3	3500
	Eskdalemuir ...	32·5	+6	N'E	3	b	35	55	21	3	1	-	-	1	1	3500
	Point of Ayre ...	32·6	+8	NE'E	3	c	41	55	29	8	5	-	-	9+	9+	4500
13A	Tiree ...	34·5	+2	NE	4	c	40	65	28	9	4	-	-	9+	9+	4000
13B	Stornoway ...	34·8	+2	N	3	c	39	75	31	8	8	-	-	9+	9+	2500
15	Dalwhinnie ...	33·4	+4	NNE	3	bc	32	75	26	8	8	-	-	4-6	4-6	2500
	Aberdeen ...	34·6	+8	NW	3	ps_0	37	75	32	8	9	-	-	9+	9+	2000
	Wick ...	31·6	+2	NNW	4	cbgp	37	85	32	9	8	7	-	7-8	7-8	2000
16	Sumburgh ...	29·5	-8	N	5	c/s	33	85	28	8	9	3	-	4-6	9+	2800
17	Blacksod Point	34·1	+6	N'E	2	c	49	75	41	8	5	-	-	9	9	2500
18	Malin Head ...	33·7	+6	N'E	2	c	43	55	29	8	8	-	-	9+	9+	2500
	Aldergrove ...	33·7	+2	NW	2	c	41	65	29	9	5	-	-	9+	9+	3500
19	Birr Castle ...	33·0	+2	N	2	cbc	45	85	41	8	5	-	-	7-8	7-8	2500
20	Valentia Obsy.	33·5	+2	ENE	2	c	49	85	45	8	5	-	-	9+	9+	2500
	Roches Point	32·7	-2	N	2	bc	48	65	37	8	5	-	-	4-6	4-6	2500

OBSERVATIONS at 18h. 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)	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)	30·5	+20	N'E	3	Z_0	41	65	32	6	5	-	-	9+	9+	4000	1	*
	Croydon ...	30·2	+14	NNW	3	m	41	85	36	4	5	-	-	10	10	2500	1	*
	S. Farnborough	30·3	+20	N'E	3	Z_0	41	75	33	6	5	-	-	10	10	2500	0	*
	Boscombe Down	30·6	+22	NE'N	3	Z_0	41	85	36	6	5	-	-	4-6	10	1900	0	*
	Thorney Island	29·3	+14	NNE	3	Z_0	43	85	38	6	-	3	-	0	9+	-	0	*
	Lympne ...	29·0	+20	N'W	3	cbc	40	85	36	8	-	3	-	0	7-8	-	1	§1
	Manston ...	28·6	+14	NNE	4	bc	41	75	33	7	5	-	-	4-6	4-6	3500	1	*
2	Shoeburyness ...	29·2	+10	N'E	3	bc	40	92	37	8	7	-	-	4-6	4-6	4000	0	*
	Felixstowe ...	29·3	+22	NN	3	cbc	39	85	34	7	-	7	-	0	7-8	-	0	2
	Gorleston ...	28·2	+12	N'W	4	bc	41	65	28	7	8	-	-	4-6	4-6	1500	1	3
	Mildenhall ...	30·0	+16	NN'N	3	c	38	85	34	8	5	3	-	7-8	9+	2500	1	*
	Cranwell ...	31·2	+16	NNN	3	Z_0	34	92	31	5	5	7	-	Tr	2-3	5000	0	*
3	Birmingham ...	32·1	+12	NNE	2	Z_0	38	65	27	5	5	-	-	9	9+	2500	1	*
	Upper Heyford	31·3	+18	NNE	2	Z_0	37	85	31	6	5	-	-	9+	9+	3800	0	*
4	Ross-on-Wye	31·6	+24	N'E	2	Z_0	40	75	33	5	5	-	-	10	10	800	1	*
5	Hartland Point	29·8	+12	N	3	bc	46	65	34	8	2	4	-	2-3	4-6	2500	0	3
	Bristol ...	31·4	+14	NE	3	m	41	92	39	4	5	-	-	10	10	2500	1	*
	Portland Bill ...	28·3	+4	NE	2	c	47	92	45	7	5	-	-	10	10	220	1	2
	Plymouth ...	29·7	+6	NNE	2	Z_0	48	85	42	6	5	-	-	9+	9+	4000	0	2
	The Lizard ...	30·0	+4	N	3	cbc	46	92	43	8	8	6	-	7-8	7-8	2000	1	3
	Scilly (St. Mary's)	30·5	+2	N	2	c/pr	48	85	44	7	8	6	-	7-8	10	1500	1	3
	Guernsey ...																	
6	Pembroke ...	32·4	+8	NE'E	4	c	44	75	37	8	8	-	-	9+	9+	2500	0	2
7	Holyhead (Valley)	33·2	+14	NE'N	2	c	40	65	29	8	5	-	-	9	9	4000	1	2
	Chester (Sealand)	32·6	+14	N'E	1	b	33	75	27	6	5	-	-	0	0	-	3	*
8	Manchester ...	32·5	+18	NNW	1	m	31	85	27	4	-	-	-	0	0	-	0	*
10	Spurn Head ...	30·2	+6	NW	5	pr	38	85	34	7	2	3	-	4-6	7-8	2500	1	4
	Catterick ...	33·0	+8	NW'N	3	bc	35	65	25	7	-	3	-	0	4-6	-	1	*
	Tynemouth ...	31·5	+12	NE'E	5	c	37	75	30	7	8	-	-	9+	9+	1500	1	4
11	St. Abbs Head	31·5	+6	N	4	bc	38	65	26	7	1	4	-	2-3	4-6	3500	0	4
	Leuchars ...	33·5	+10	NW	3	c	36	75	30	8	-	3	-	0	9	-	0	*
12	Renfrew (Abbots I.)	34·5	+12	—	0	b-bc	30	75	24	8	-	4	2	0	2-3	-	1	*
	Eskdalemuir ...	34·4	+14	N'E	2	b	27	75	19	8	-	-	-	0	0	-	3	*
	Point of Ayre ...	33·8	+10	ENE	3	bc	38	65	26	8	1	4	9	1	4-6	3000	0	3
13A	Tiree ...	35·1	+6	N'E	3	c	40	65	28	9	5	-	-	9+	9+	4000	0	2
13B	Stornoway ...	35·0	+2	NNW	2	c	36	92	34	8	5	-	-	9+	9+	4000	1	
15	Dalwhinnie ...	34·5	+6	N	2	c	31	85	28	8	5	-	-	9+	9+	2500	0	*
	Aberdeen ...	32·4	+12	NW	4	c	36	85	30	7	9	-	-	10	10	2000	4	2
	Wick ...	33·6	+16	NW	4	c	37	65	27	8	5	-	-	10	10	2500	4	*
16	Sumburgh ...	30·9	+10	N	4	is_0	36	65	26	8	5	-	-	10	10	2000	7	4
17	Blacksod Point	33·9	0	E'N	3	c	45	92	43	8	5	-	-	9	9	4000	1	3
18	Malin Head ...	34·3	+6	N	3	c	42	85	37	8	8	-	-	10	10	2500	1	4
	Aldergrove ...	34·6	+8	-	0	c	37	85	33	8	5	-	-	10	10	4000	1	*
19	Birr Castle ...	33·6	+6	N	2	c	42	85	38	7	5	1	-	7-8	10	2500	1	*
20	Valentia Obsy.	33·3	+4	E	2	c	46	85	42	8	5	-	-	10	10	2500	1	1
	Roches Point	33·1	+6	NNE	1	c	45	75	37	8	5	-	-	9	9	1500	1	3

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 21st (39)	Weather. 13h.—18h. 21st (40)	Weather. 18h. 21st to 1h. 22nd (41)	Weather. 1h.–7h. 22nd (42)
1	London (Kew)	cm_0cz_0	cz_0	cz_0bc	bcm_0x
	Croydon ...	cmcf,m	cm	bcmbcx	bcmx
	S. Farnborough	cm_0z_0	cz_0	cz_0bm_0x	bm_0m_0x
	Boscombe Down	b	cm_0ccm_0	cm_0b	bm_0x
	Thorney Island	cbccm	cm_0	bcm_0bx	bxm_0
	Lympne ...	cm_0bccm_0	cm_0c	bcbw	bcm_0x
	Manston ...	cm_0	cm_0c	bcbbc	bbc
2	Shoeburyness ...	cm_0c	cbc	$bcbm_0$	cm_0x
	Felixstowe ...	cm_0	cm_0cbc	cm_0bm_0	$bcwcbcm_0$
	Gorleston ...	cprc	cpb_0pr_0bc	bc	bcc
	Mildenhall ...	$cmr_0c_0d_0c$	cpb_0r_0c	bcm_0bm_0x	bm_0xcm_0x
	Cranwell ...	$cm_0cr_0cm_0cm_0bcm_0$		bcm_0	cm_0x
3	Birmingham ...	fr_0rc	cz	cb	bmx
	Upper Heyford	cir_0m_0c	cir_0m_0c	cm_0bm_0bm	bmx
4	Ross-on-Wye	cp_0cr_0c	com		bm_0x
5	Hartland Point	civ	c	bcc	cbcb
	Bristol ...	cfprm	cjpmmcpgm	$cmcz_0bz$	$bmxbfx$
	Portland Bill ...		c	c	bcbc
	Plymouth ...	c	cm_0	cm_0c	cbcx
	The Lizard ...	r_0rc	cpr_0c	bw	c
	Scilly (St. Mary's)	cp_0cbc	$bccp_0$	c	c
	Guernsey ...				
6	Pembroke ...	cpr	c	cbcc	c
7	Holyhead (Valley)	cbc	bcc	bx	bx
	Chester (Sealand)	$cicdm_0c$	cm_0c, cz_0	bzz_0m_0	bzz_0m_0
8	Manchester ...	ir_0cm_0	cz_0bc	$bmffx$	$bffx$
10	Spurn Head ...	cq	cpr	cpr	o
	Catterick ...	cz_0bcc	cbc	bccbcc	ccbc
	Tynemouth ...	cpsc	cpsc	c	cbc
11	St. Abbs Head	cbc	bc	c	cbc
	Leuchars ...	bcb	bbc	c	c
12	Renfrew (Abbots I.)	cmoby	bybx	bxbfx	bfxcmx
	Eskdalemuir ...	bcb	b	bbcx	b
	Point of Ayre ...	cy	cbc	bcb	bx
13A	Tiree ...	cjpc	c	c	c
13B	Stornoway ...	c	c	b,c	c
15	Dalwhinnie ...	cbc	bcc	*	cbc
	Aberdeen ...	bccps₀	cps₀c	c	cbcc
	Wick ...	cps₀bcps₀gpc	c	c	cps
16	Sumburgh ...	cisc	cis_0	cr_0bc	$cr_0r_0m_0$
17	Blacksod Point	bc	c	bc	b
18	Malin Head ...	d	r	r	r
	Aldergrove ...	c	c	c	c
19	Birr Castle ...	c	c	*	c
20	Valentia Obsy.	c	c	bc	c
	Roches Point	bc	c	c	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 22nd November 1942.

Districts	Forecast
1 S.E. England	As 3-6.
2 E. England ...	Light northwest wind; fair today, cloud increasing tonight; slight local rain tomorrow; local fog tonight; rather cold today; slight frost tonight.
3 E. Midlands ...	Light variable or northerly wind; dry; fog in industrial areas; rather cold today, keen frost tonight.
4 W. Midlands	
5 S.W. England	
6 South Wales	
7 North Wales	Light or moderate northwest wind; fair at first, cloud increasing later with slight rain; rather cold today becoming milder.
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 west to northwest wind; cloudy; occasional rain, milder than of late.
13B N.W. Scotland	
14 Mid Scotland	
15 N.E. Scotland	
16 Orkneys and Shetlands	As 13A-15.
17 N. W. Ireland	As 7-12.
18 N. E. Ireland	
19 S. E. Ireland	Light variable wind; dry; rather cold today, slight frost at night.
20 S. W. Ireland	

GENERAL INFERENCE

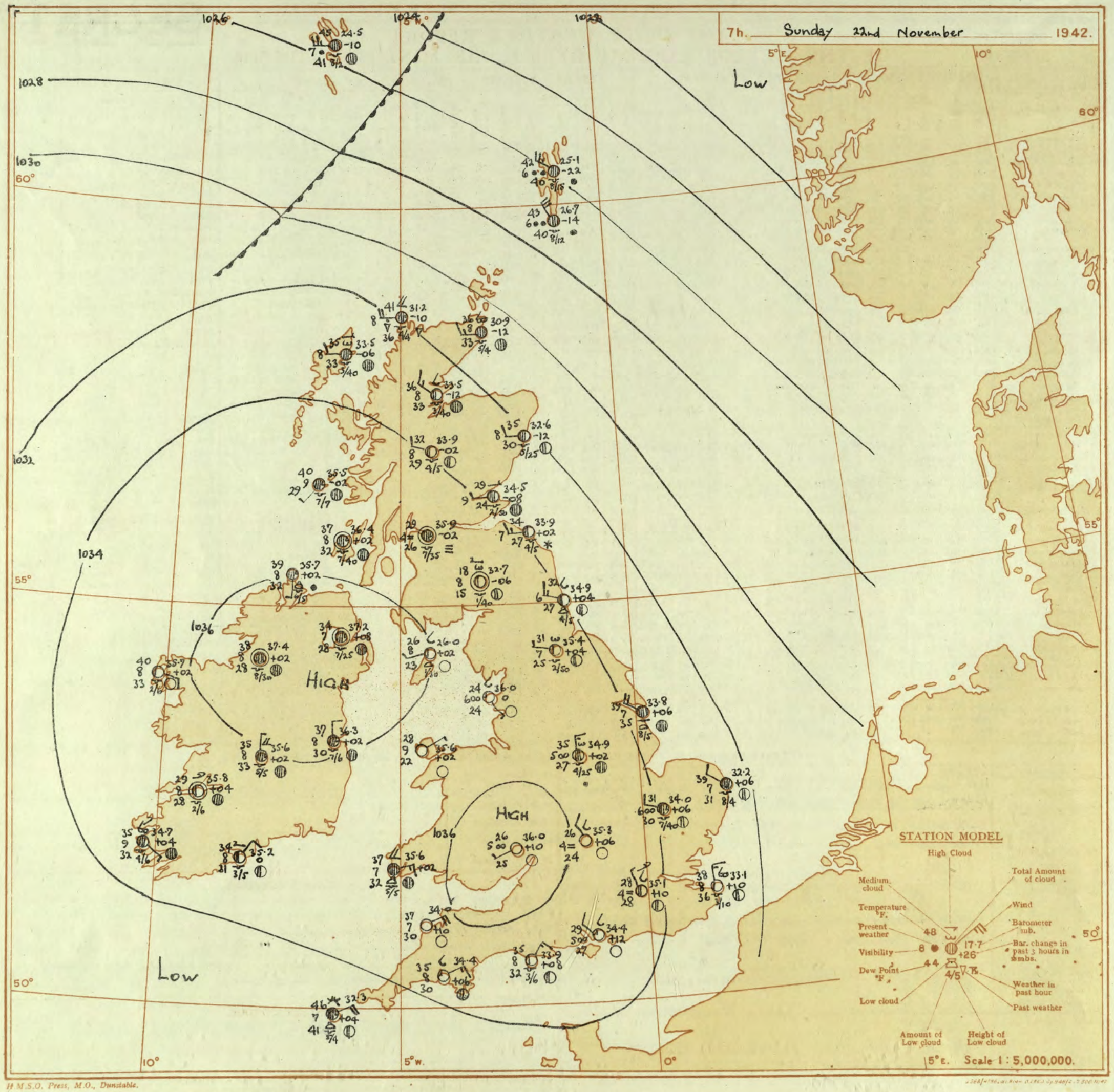
An anticyclone centred over Ireland covers most of the British Isles and is moving slowly southeast. A depression northeast of Iceland and an associated warm front over North Scotland are moving southeast. Cloudy conditions with rain, mostly slight will spread across Scotland and the Northern half of England but in Ireland and the South of Britain it will continue dry. Milder conditions now in North Scotland will spread slowly over the whole country.

FURTHER OUTLOOK

Occasional rain in the North, fair in the South; milder generally.

Forecasts issued at 10·30.

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



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

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

Explanation of Frontal Lines shown on Charts

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

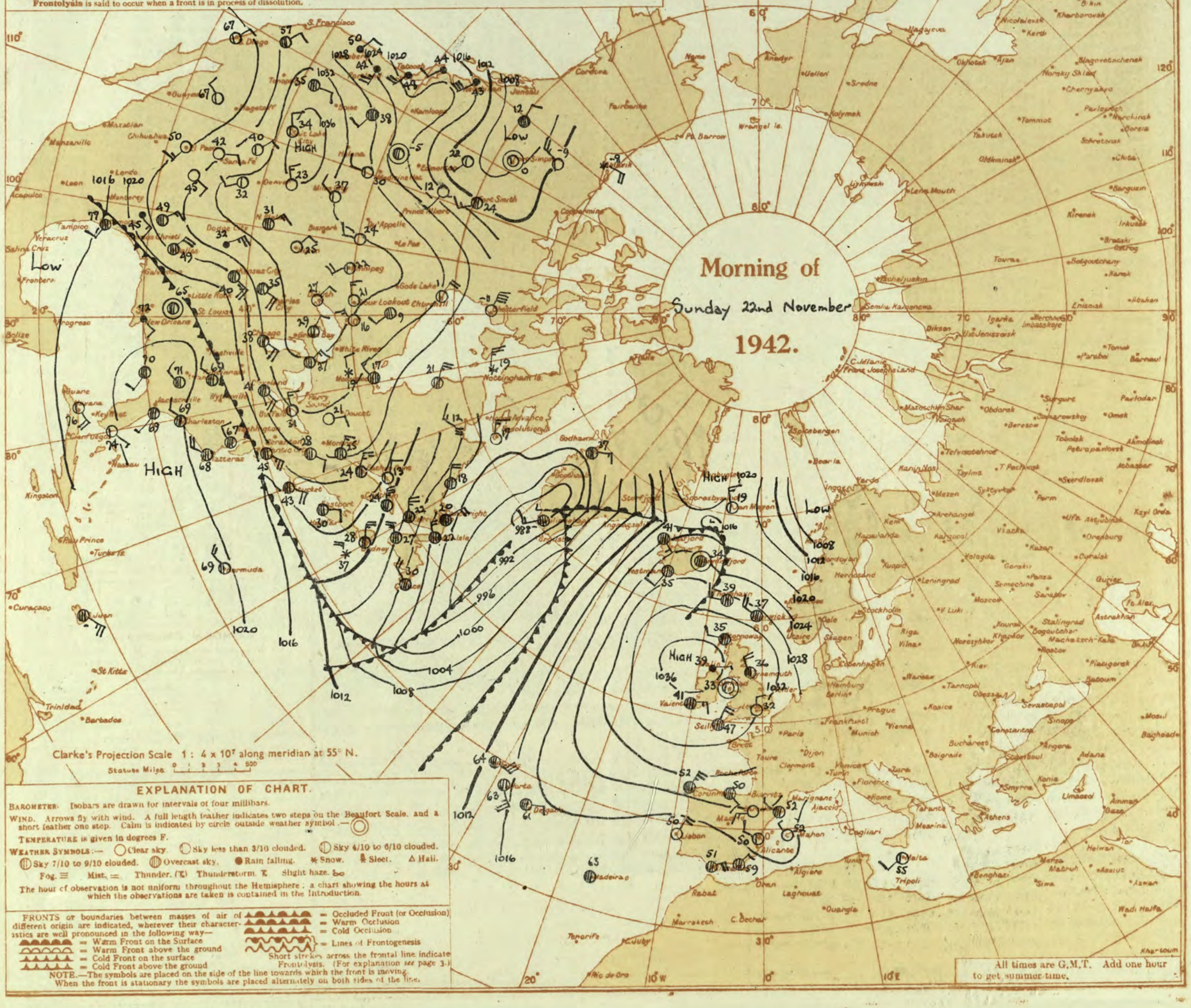
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

BRITISH SECTION

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

Sunday 22nd November 1942

No. 29585

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)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	34	*	*	*	*	*	*	*	*	*
	Croydon	290	33·5	+10	N	2	m	32	97	31	4	-	-	-	0	0	-
	S. Farnborough	226	33·8	+10	-	0	z₀	29	92	27	5	-	-	-	0	0	-
	Boscombe Down	417	34·0	+14	N'W	1	z₀	29	85	27	6	-	-	-	0	0	-
	Thorney Island	10	32·7	+10	N'E	4	b	33	85	30	7	-	-	-	0	0	-
	Lympne	283	31·4	+10	NNW	4	bc	34	97	33	8	5	*	-	4-6	4-6	1200
	Manston	154	31·5	+10	N	4	bc	39	85	36	8	1	-	-	1	1	1800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	30·5	-2	NW	3	z₀	37	85	34	6	-	7	-	0	Tr	-
	Gorleston	5	30·6	+10	NW	3	c-bc	36	85	30	7	8	-	-	7-8	7-8	1500
	Mildenhall	15	32·8	+10	NW'W	2	z₀	30	97	29	6	-	3	-	0	2-3	-
	Cranwell	203	33·5	+6	NW'W	3	z₀	32	85	27	6	-	3	-	0	9	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	33·9	+6	NNW	2	m	29	92	27	4	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	32·2	+8	ENE	4	c	40	65	31	7	5	6	-	4-6	9	2500
	Bristol	209	35·0	+14	-	0	m	32	85	29	4	-	-	1	0	Tr	-
	Portland Bill	32	32·8	+16	NE	4	c-bc	40	85	35	8	5	-	-	7-8	7-8	4000
	Plymouth	82	33·4	+18	ENE	4	z₀	41	85	36	7	5	-	-	9+	9+	4500
	The Lizard	240	31·9	+6	NE	3	c-bc	43	85	38	8	8	6	-	7-8	7-8	2000
	Scilly (St. Mary's)	163	32·1	+10	NNE	4	c	47	75	37	8	8	3	-	9	10	1500
	Guernsey	175															
6	Pembroke	142	34·6	+6	NE'E	3	b-bc	37	65	27	8	-	3	-	0	2-3	-
7	Holyhead (Valley)	32	35·2	+6	-	0	b	33	85	28	7	-	4	-	0	Tr	2500
	Chester (Sealand)	16	35·2	+6	-	0	z₀	25	75	22	5	-	-	-	0	0	-
8	Manchester	235	35·3	+4	W'N	1	bf	26	97	25	2	-	-	-	0	0	-
10	Spurn Head	29	32·3	+8	NW'W	5	pr	37	92	35	7	2	6	-	4-6	7-8	2500
	Catterick	175	34·7	+4	WNW	3	bc	35	63	26	7	5	3	-	Tr	4-6	4000
	Tynemouth	108	33·5	+6	NNW	4	c	36	75	30	7	8	-	-	9	9	2500
11	St. Abbs Head	280	33·5	+4	NNW	3	c	39	63	28	7	5	-	-	10	10	4000
	Leuchars	36	35·2	+4	WNW	2	c	34	85	29	9	5	-	-	9+	9+	5000
12	Renfrew (Abbots I.)	19	36·4	+6	SW'W	1	bf+	25	85	22	3	-	-	-	0	0	-
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	29·9	+6	ENE	2	b	37	75	30	8	1	*	*	Tr	Tr	3000
13A	Tiree	44	36·1	+2	W'S	2	c	38	75	30	9	5	-	-	9+	9+	4000
13B	Stornoway	15	35·0	-6	W	2	c	35	92	33	8	5	-	-	9+	9+	3800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	34·2	+6	W'N	2	c	35	85	30	9	5	-	-	10	10	4000
	Wick	114	33·0	-4	-	0	c	35	75	28	8	8	-	-	10	10	3500
16	Sumburgh	19	29·3	-14	NW	5	c	36	85	31	8	5	-	-	10	10	2900
17	Blacksod Point	18	35·5	+2	-	0	bc	42	85	38	8	5	3	-	2-3	4-6	4000
18	Malin Head	84	35·9	+6	E'S	2	ir₀	39	75	32	8	8	2	-	7-8	9+	2500
	Aldergrove	268	36·5	+2	-	0	c	36	85	31	7	5	-	-	9+	9+	3000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	34·5	+2	E	3	c	41	85	37	9	5	-	6	2-3	9	4000
	Roches Point	22	35·2	+6	NE'N	3	c-bc	42	85	38	8	5	-	-	7-8	7-8	2500

OBSERVATIONS at 7 hr. G.M.T. 22nd 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 21st Hrs. (38)
London (Kew)	35·1	+8	NW	1	z₀	31	92	28	5	-	3	1	0	4-6	-	1	*	45	30	15	–	Tr	0·0
Croydon	35·1	+10	NNW	1	m	28	97	28	4	-	4	2	0	4-6	-	1	*	45	28	21	–	-	0·0
S. Farnborough	35·3	+8	W	1	z₀	25	92	23	5	-	5	-	0	1	-	3	*	45	24	14	–	–	0·0
Boscombe Down	35·3	+4	N'W	2	z₀	29	85	26	6	-	4	-	0	Tr	–	3	*	45	28	20	-	Tr	0·3
Thorney Island	34·4	+12	NW'N	2	z₀	29	97	27	5	-	4	-	0	Tr	-	0	*	47	28	20	–	–	*
Lympne	32·5	+6	NNW	3	z₀	33	92	31	6	5	4	1	Tr	2-3	1000	1	§1	45	32	29	–	–	0·4
Manston	33·1	+10	N	3	b-bc	38	92	36	8	5	7	-	2-3	2-3	1000	1	*	46	37	34	–	–	0·6
Shoeburyness	33·4	+12	NNW	3	z₀	33	92	31	6	5	4	-	7-8	7-8	4000	1	*	47	31	25	–	-	1·1
Felixstowe	33·9	+16	NW'N	3	z₀	35	92	33	6	5	-	-	9	9	4000	1	2	49	33	32	–	-	0·0
Gorleston	32·2	+6	NW'N	2	c	39	75	31	7	5	-	-	10	10	1500	1	2	45	35	33	0·2	0·3	0·5
Mildenhall	34·0	+6	W'N	2	z₀	31	97	30	6	5	-	-	9+	9+	4000	1	*	43	28	20	0·1	Tr	0·0
Cranwell	34·6	+6	NW	3	z₀	34	85	29	6	6	7	-	7-8	9+	4000	0	*	41	31	26	Tr	-	0·0
Birmingham	36·0	+4	NW	2	m	28	85	25	4	-	4	-	0	Tr	-	1	*	43	27	19	0·1	-	0·0
Upper Heyford	35·3	+6	NNW	2	m	26	92	24	4	-	4	-	0	2-3	-	0	*	44	25		Tr	–	*
Ross-on-Wye	36·0	+10	WSW	1	z₀	26	97	25	5	-	-	-	0	0	-	3	*	43	25	18	0·2	–	0·0
Hartland Point	34·0	+10	ENE	4	b	37	75	30	7	-	-	-	0	0	-	0	4	49	36	35	0·1	-	0·3
Bristol	37·0	+16	-	0	bf+	28	92	25	3	-	-	-	0	0	-	3	*	47	27	17	Tr	Tr	0·0
Portland Bill	33·9	+8	NE	3	b-bc	35	92	32	8	5	-	-	2-3	2-3	4000	1	3	49	34	*	–	–	*
Plymouth	34·4	+6	ENE	3	b	35	85	30	8	-	4	-	0	Tr	-	0	2	51	35	26	–	–	1·6
The Lizard	32·9	+10	E	5	c	44	75	37	8	8	6	-	7-8	9+	2000	0	4	53	41	*	0·5	-	1·2
Scilly (St. Mary's)	32·3	+4	E'N	4	c	46	85	41	7	8	6	-	7-8	9+	1500	1	3	52	46	*	0·1	-	2·1
Guernsey																							
Pembroke	35·6	+2	E'N	3	c	37	85	32	7	8	2	-	7-8	10	2500	0	2	49	34	*	Tr	–	0·6
Holyhead (Valley)	35·6	+2	ENE	1	b	28	85	22	9	-	-	-	0	0	-	1	1	45	27	21	Tr	-	*
Chester (Sealand)	35·9	+2	-	0	z₀	25	85	27	5	-	-	-	0	0	-	3	*	44	23	12	0·1	–	0·0
Manchester	36·2	+4	S'E	1	bf+	23	97	22	2	-	-	-	0	0	-	3	*	40	22	15	0·1	–	*
Spurn Head	33·8	+6	NW	4	c	39	85	35	7	7	-	-	10	10	2500	1	4	45	35	*	0·6	0·6	1·3
Catterick	35·4	+2	W'N	1	b-bc	31	85	25	7	5	3	-	1	2-3	5000	0	*	39	31	22	–	-	2·5
Tynemouth	34·9	+4	WNW	3	bc	32	85	27	6	2	4	-	4-6	4-6	2500	1	4	39	32	29	Tr	–	*
St. Abbs Head	33·9	+2	W	3	bc	34	75	27	7	5	-	-	4-6	4-6	2500	0	3	39	33	*	–	–	*
Leuchars	34·5	-8	W	1	c-bc	29	92	24	9	5	-	8	1	7-8	5000	0	*	40	29	23	–	-	7·2
Renfrew (Abbots I.)	35·9	-2	–	0	m	29	86	26	4	5	-	-	9+	9+	3500	3	*	40	23	17	–	–	5·1
Eskdalemuir	32·7	-6	–	0	b-bc	18	85	15	8	5	3	5	Tr	2-3	4000	0	*	36	15	9	–	-	5·0
Point of Ayre	26·0	+2	W'S	1	b	26	92	23	8	1	4	-	Tr	1	3000	3	1	42	22	15	–	–	
Tiree	35·5	-2	SW	1	c	40	65	29	9	5	-	-	9+	9+	5700	0	1	42	37	*	–	-	0·0
Stornoway	33·5	-6	W	2	c	35	92	33	8	5	3	8	2-3	9	4000	1		39	31	*	Tr	–	
Dalwhinnie	33·9	-2	WNW	2	bc	32	85	29	8	5	-	-	4-6	4-6	2500	3	*	34	30	27	–	-	4·5
Aberdeen †	32·6	-12	W	2	c-bc	35	75	30	8	5	-	-	7-8	7-8	2500	4	2	37	35	32	0·5	-	2·2
Wick	30·9	-12	W	3	c	36	85	33	8	5	7	-	7-8	10	2000	1	*	38	32	31	–	1	*
Sumburgh	26·7	-14	NNW	6	r₀r₀	43	85	40	6	5	-	-	10	10	1200	1		36	34	32	1	Tr	0·9
Blacksod Point	35·7	+2	E'S	2	b	40	75	33	8	5	-	-	1	1	4000	0	2	51	39	*	–	–	*
Malin Head	36·7	+2	S	1	c	39	75	32	6	8	-	-	9	9	2500	1	2	44	36		Tr	0·1	0·4
Aldergrove	37·2	+8	–	0	c	34	75	28	7	5	-	-	9+	9+	2500	1	*	42	34	28	–	–	1·6
Birr Castle	35·6	+2	N	1	c	35	92	33	8	5	2	-	7-8	9	2500	1	*	46	35	32	–	–	0·5
Valentia Obsy.	34·7	+4	SE	1	c-bc	35	85	32	9	5	7	1	4-6	7-8	4000	1	2	49	36	30	-	Tr	0·0
Roches Point	35·2	0	NE	2	bc	34	85	31	8	5	-	5	2-3	4-6	2500	1	3	49	34	*	–	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III $C_L C_M$ (13h. G.M.T. 21st November)	$wwVhN_h$	DDFWN	$C_L C_M$ (18h. G.M.T.)	$wwVhN_h$	DDFWN	$C_L C_M$ (01h. G.M.T. 22nd November)	$wwVhN_h$	DDFWN	$C_L C_M$ (07h. G.M.T.)	$wwVhN_h$	DDFWN
109 8-	26865	30675	5-	03868	30428	5-	02868	26228	5-	02766	24326
115 82	27674	32487	52	02945	32228	82	02844	28327	52	81844	24487
203 8-	10947	32427	5-	02948	32388				53	02953	24327
206 73	01863	30213	52	02856	30288	57	02865	28127	54	01863	28324
210 26	01853	28484	8-	02864	30488	5-	02868	25328	53	01863	22324
220 57	02854	02117	57	02654	01117				50	02746	09126
230 5-	02965	02125	53	01963	04124	5-	02968	00028	5-	02958	00028
245 83	01962	31302	83	01964	30124	5-	02967	26127		02965	
260 00	01990	28213	00	01790	28211	50	05673	20213	50	08464	20214
278 5-	02867	05327	55	02862	08326	00	17690	00000	57	17543	00005
279 74	01862	02423				00	00790	29100	04	01890	06103
285			50	01863	04413						
288 5-	05667	60427	54	05664	59424				03	17690	16114
575 70	01854	00084	5-	02867	32127	5-	02868	02128	5-	02868	00028
301 14	01862	03463	00	05590	04200	00	05690	12100	04	05690	12101
321 5-	05676	31326	53	02764	30326	53	01763	29314	5-	05567	26227
299 7-	42265	32245	80	02745	32615	8-	25748	28588	5-	52748	26354
292 07	02790	31326	53	05664	28224	50	02763	28213	50	02764	29224
310 --	01635	26415									
614 57	05366	32327	50	05553	32213	00	05590	30120	53	05554	32325

III $C_L C_M$ (13h. G.M.T. 21st November)	$wwVhN_h$	DDFWN	$C_L C_M$ (18h. G.M.T.)	$wwVhN_h$	DDFWN	$C_L C_M$ (01h. G.M.T. 22nd November)	$wwVhN_h$	DDFWN	$C_L C_M$ (07h. G.M.T.)	$wwVhN_h$	DDFWN
333 54	02866	32417	5-	02867	32327	00	00890	00010	50	01961	32101
334 --	02645	30216	--	02743	02315						
340 56	95446	32128	50	05452	01212	00	47395	31140	00	45390	00040
136 5-	61844	32466	8-	88846	28486	8-	81644	29384	80	05657	29387
330 57	02756	04328									
350 5-	02747	02327	5-	05666	31326	00	05590	00000	5-	05553	20104
368 5-	02867	02227	53	05555	04326				00	05590	00000
379 5-	05648	04328	5-	05558	02328	00	05590	02300	50	05652	32302
390 52	22545	30268	07	05690	22427	03	04590	32213	54	05571	02203
382 53	02757	03228	53	05656	02327	00	04490	01200	04	08490	00001
438 5-	08458	30328	8-	02547	32327	00	00690	32400	54	01652	32403
430 5-	05547	30227	5-	05668	06228	00	00790	02410	00	00790	02302
409 84	02965	30326	8-	02857	02127	53	01851	01303	5-	02768	04228

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 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 *	cm₀cz₀	cz₀	cz₀bcmx	Kew 24 hours ended 7h.
Croydon	cmcf,m	cm	bcmbmx	Max. 0·2 Time 9-10h 21st
Greenwich	c	c	cbxf	Min. 0·1 Time rest of period
Camden Square	c	c	*	
Kensington	oc	c	*	
Hampstead	o	o	oxbc	

Stations	Temperature Day Max °F	Temperature Night Min °F	Temperature Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	45	30	15	-	Tr	0·0	*	*
Croydon	45	28	21	-	-	0·0	*	*
Greenwich	45	29	20	-	-	0·0	79	88
Westminster	46	30	25	-	-		84	91
Regents Park								
Camden Square	45	30	22	-	*	*	*	87
Kensington	46	30	17	Tr	-		81	92
Hampstead	43	28	23	-	*		*	87

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SECRET

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

Monday 23rd November 1942

No. 29586

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)	35·0	-8	N'S	1	bf-	39	85	34	3	–	–	-	0	0	-
	Croydon	35·1	-6	–	0	cf+	37	85	32	3	–	-	-	10	10	<150
	S. Farnborough	34·5	-6	NN'N	1	Zo	40	65	30	5	–	-	5	0	2-3	-
	Boscombe Down	35·3	-10	N	1	bc	40	75	32	7	-	-	6	0	4-6	-
	Thorney Island	34·8	-8	N'E	2	bc	42	65	33	7	-	-	6	0	4-6	-
	Lympne	34·4	-2	N'W	3	Zo	41	75	34	6	-	3	1	0	4-6	-
	Manston	33·9	-2	N'W	2	b-bc	43	75	35	7	1	3	2	Tr	2-3	1800
2	Shoeburyness	34·4	0	N'W	3	Zo	42	65	34	6	5	7	1	2-3	4-6	4000
	Felixstowe	33·8	-6	NW	1	Zo	41	85	37	6	5	7	-	7-8	9+	5300
	Gorleston	33·4	0	NN'N	3	Zo	43	75	34	7	8	-	-	9+	9+	1500
	Mildenhall	34·7	-2	NW	2	Zo	39	85	35	6	5	-	-	9+	9+	6000
	Cranwell	35·0	-4	NN'W	3	fg	40	65	31	6	5	-	2	Tr	4-6	5700
3	Birmingham	35·8	-2	NW	2	m	37	65	26	4	–	-	-	0	0	-
	Upper Heyford	35·2	-10	NNW	1	m	38	75	30	4	–	-	8	0	1	-
4	Ross-on-Wye	35·9	-8	NW	1	Zo	36	65	24	6	-	-	2	0	2-3	-
5	Hartland Point	36·0	-2	NE	2	b-bc	40	65	30	7	1	-	-	1	2-3	2500
	Bristol	36·2	-6	–	0	bcf	37	75	31	3	-	-	4	0	4-6	-
	Portland Bill	38·3	+4	E	3	c-bc	43	92	41	8	5	4	-	4-6	7-8	4000
	Plymouth	35·2	-2	ENE	3	b-bc	44	75	36	7	1	-	5	Tr	2-3	3000
	The Lizard	33·7	+2	ENE	4	c	45	65	35	8	8	2	-	9	9+	2000
	Scilly (St. Mary's)	33·7	+2	E	3	c	47	75	39	7	8	2	-	7-8	10	1200
	Guernsey															
6	Pembroke	35·2	-4	SE	3	c-bc	43	65	32	7	8	2	-	4-6	7-8	2500
7	Holyhead (Valley)	36·6	+2	-	0	c-bc	45	45	26	8	5	3	-	4-6	7-8	5000
	Chester (Sealand)	35·8	-6	SE	1	b-bc	42	75	35	8	2	-	1	2-3	2-3	4500
8	Manchester	36·0	-6	S'W	2	bf-	36	65	24	3	–	-	-	0	0	-
10	Spurn Head	34·7	+4	WNW	4	Zo	40	75	32	6	2	3	2	2-3	4-6	2500
	Catterick	35·0	-10	W'N	3	bc	39	55	25	8	1	4	2	Tr	4-6	4000
	Tynemouth	34·9	-8	WNW	3	Zo	37	75	29	6	-	3	2	0	4-6	-
11	St. Abbs Head	32·6	-12	W	3	c-bc	38	65	26	7	6	4	-	4-6	7-8	3000
	Leuchars	33·1	-14	N	2	c	39	85	33	8	-	7	2	0	9+	-
12	Renfrew (Abbots I.)	35·2	-6	SW'W	2	Zo	40	75	31	6	5	4	6	1	9	6000
	Eskdalemuir	34·7	-10	W'N	2	c-bc	35	75	27	8	5	4	6	1	7-8	3500
	Point of Ayre	36·2	0	NW	1	c	41	65	34	8	5	7	-	4-6	10	4500
13A	Tiree	35·1	-6	W'S	1	c	45	65	35	9	5	3	2	7-8	9	5700
13B	Stornoway	32·9	-2	NW	3	c	45	92	42	8	8	-	2	7-8	9	1500
15	Dalwhinnie	33·2	-4	SW	3	c	37	65	28	8	5	-	2	4-6	9	2500
	Aberdeen	31·3	-14	WNW	3	c	41	65	26	8	5	3	-	2-3	9+	3000
	Wick	29·2	-12	W'N	5	c/pr	43	92	41	9	5	7	-	2-3	9	2500
16	Sumburgh	24·8	-2	NW'W	6	c/pr	47	85	44	8	8	7	-	7-8	9+	1200
17	Blacksod Point	37·0	+2	SE'E	2	b	43	65	32	8	5	-	-	Tr	Tr	4000
18	Malin Head	35·9	0	SW	2	c	43	75	35	8	8	-	-	9+	9+	2500
	Aldergrove	37·1	-2	SW	2	c	41	55	26	8	-	7	2	0	9	-
19	*Birr Castle	36·5	0	ESE	1	bc	43	75	35	8	–	-	8	0	4-6	-
20	Valentia Obsy.	35·3	-6	NE'N	2	c	44	65	33	9	5	-	2	Tr	9	4000
	Roches Point	35·8	-2	E'N	3	c	43	75	35	8	5	-	-	9+	9+	2500

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)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	34·9	+4	NW	2	bcf	37	75	29	3	5	-	-	4-6	4-6	2500	1	•
Croydon	35·0	+4	–	0	F	32	92	31	1	-	-	-	10	10	<150	1	•
S. Farnborough	35·3	+2	W	1	m	31	92	30	4	-	4	2	0	2-3	-	3	•
Boscombe Down	35·3	+2	N'W	1	m	33	92	30	4	-	-	8	0	1	-	0	•
Thorney Island	34·6	0	N'W	2	m	33	92	30	4	-	-	6	0	4-6	-	1	
Lympne	34·5	+4	NW'N	2	Zo	33	92	31	6	-	4	6	0	9	-	1	§'
Manston	33·9	+2	N'W	3	c-bc	40	75	32	8	5	7	2	Tr	7-8	3000	1	•
Shoeburyness	34·3	+4	N'W	2	Zo	35	85	31	6	-	7	2	0	4-6	-	1	•
Felixstowe	33·6	-2	WNW	2	Zo	39	85	34	6	-	-	6	0	9	-	1	2
Gorleston	33·0	0	NW'N	3	Zo	40	65	31	6	5	-	-	10	10	800	1	2
Mildenhall	34·0	-2	W	2	Zo	35	85	31	5	-	3	7	0	10	-	1	•
Cranwell	33·9	-2	NNW	3	m	35	75	29	4	-	3	2	0	9	-	0	•
Birmingham	35·6	-2	W	2	bcf+	32	75	24	3	-	-	6	0	4-6	-	1	•
Upper Heyford	35·3	+2	NW	2	b-bcf	29	92	28	3	-	-	5	0	2-3	-	0	•
Ross-on-Wye	35·6	-4	SE	1	m	31	85	27	4	-	-	2	0	2-3	-	0	•
Hartland Point	34·7	0	ENE	3	b-bc	38	75	29	7	1	4	-	1	2-3	2500	0	2
Bristol	36·0	+2	–	0	bcf+	32	85	28	2	-	-	2	0	4-6	-	3	•
Portland Bill	35·7	-2	NE	3	bc	38	92	35	8	5	-	-	4-6	4-6	4000	1	3
Plymouth	35·0	+2	E'S	2	Zo	37	85	32	5	4	-	1	2-3	2-3	4000	0	
The Lizard	33·2	0	NE	3	bc	40	85	36	8	4	-	-	4-6	4-6	2000	0	4
Scilly (St. Mary's)	33·8	+2	NE	2	c	46	65	36	7	8	3	-	7-8	9+	1200	0	3
Guernsey																	
Pembroke	35·9	+4	NE'E	2	Zo	41	75	34	6	5	-	-	9+	9+	5700	0	2
Holyhead (Valley)	35·8	-2	ESE	1	c	38	75	32	8	5	-	-	10	10	3500	1	1
Chester (Sealand)	35·4	+2	–	0	m	36	85	32	4	5	-	-	9+	9+	4500	0	•
Manchester	35·5	-4	W'S	2	b-bcf-	32	85	30	3	5	3	-	1	2-3	4000	3	•
Spurn Head	33·6	0	NW	5	bc	39	55	34	7	2	3	-	2-3	4-6	2500	0	
Catterick	34·2	0	W	2	Zo	34	75	26	6	-	-	-	0	0	-	0	•
Tynemouth	33·0	-4	W	3	c-bc	34	85	29	6	5	-	-	7-8	7-8	2500	1	3
St. Abbs Head	30·8	-8	W	4	bc	41	55	27	7	5	4	-	2-3	4-6	4000	0	4
Leuchars	32·0	0	WNW	2	c-bc	38	75	34	8	5	3	-	1	7-8	4500	0	•
Renfrew (Abbots I.)	34·0	-2	WSW	2	c	40	75	31	6	5	3	-	7-8	9	3500	1	•
Eskdalemuir	32·5	-2	WNW	3	bc	36	65	27	7	-	3	-	0	4-6	-	1	•
Point of Ayre	35·3	-2	NNW	3	b-bc	41	65	32	8	1	4	8	1	2-3	4000	0	3
Tiree	34·4	-6	NW'W	2	c-bc/pr	45	92	43	8	8	3	-	4-6	9+	2000	1	2
Stornoway	33·0	-2	WNW	2		43	97	42	8	8	3	-	2-3	7-8	2200	1	
Dalwhinnie	32·5	-2	W	3	c	37	85	32	8	5	-	-	9+	9+	2500	0	•
Aberdeen	30·3	+2	NW	4	b	42	75	35	7	5	3	8	Tr	1	3000	1	2
Wick	30·0	+10	WNW	4	roro	44	85	41	6	5	-	-	10	10	800	1	•
Sumburgh	25·1	+6	NW	5	c/r	48	85	43	8	5	3	-	2-3	9+	2500	1	4
Blacksod Point	37·5	+8	E'S	1	b	38	75	30	8	5	-	-	Tr	Tr	4000	0	2
Malin Head	35·3	0	W'N	3	c	45	75	37	8	8	-	-	9+	9+	2500	1	2
Aldergrove	36·8	+2	–	0	c-bc	36	75	30	8	5	7	-	1	7-8	3500	1	•
*Birr Castle	36·8	+6	N	2	bc	31	92	29	8	-	3	-	0	4-6	-	1	•
Valentia Obsy.	35·3	+6	NNE	1	b	37	85	33	9	5	-	3	Tr	Tr	2500	1	1
Roches Point	36·1	+6	E	3	b-bc	39	85	35	8	5		-	2-3	2-3	2500	1	3

PAST 24 HOURS. — WEATHER.

Stations	7h.—13h. 22nd (39)	13h.—18h. 22nd (40)	18h. 22nd to 1h. 23rd (41)	1h.—7h. 23rd (42)
London (Kew)	bmoffx	bx bcff	bffx	bcf-mx
Croydon	bfxbfof	bfxbfofofx	oFbbcbmx	bfbmcmx
S. Farnborough	bmomxbcmobzo	bmoxzomx	bm cebcfx	bcfcbmx
Boscombe Down	bmo xbc	bmo bcm	bmoxc	cmo bmx
Thorney Island	bmoxcbc	bczobz	bmox	bcmox
Lympne	bbcmozo	bczo bmo	c⊕mobffx	bffx
Manston	bcmoc	bcb	bcmobzo	bzo cmo
Shoeburyness	cxmobcmo	bcmo	bcmo	bccmx
Felixstowe	cmo	cmo	bmo	bmo
Gorleston	bcp roc	cproc	byxbcczo	cbcmo
Mildenhall	cmoxcmo	cmocmow	bbcmx	cmx
Cranwell	cmo	bc,cmocm	bm	bmbobmo
Birmingham	bm	bmbcf	bcfbm	bbcz
Upper Heyford	bmxmox	bzmbf⊕	bcfbmox	bmox
Ross-on-Wye	bmbcz	bzobbz	bmo	bmox
Hartland Point	cbc	bc	bcc	cbcc
Bristol	bfcbcf	bfbcfx	bcfbfx	bmx
Portland Bill	bcc	bc	bc	bbc
Plymouth	bcmobc	bcmo	bmobc	bcbmox
The Lizard	c	cbc	bcc	cbc
Scilly (St. Mary's)	c	c	cbc	c
Guernsey				
Pembroke	c	cmo	c	c
Holyhead (Valley)	bxfg	cy	bcby	bwciro
Chester (Sealand)	b, bcmx	bccmw	cmfmob	bc
Manchester	bffxcb	bffxbcc	bcff2b	bffc
Spurn Head	bczo	bczo	czo	cmo
Catterick	bccbc	bccbmo	bmob	cwc
Tynemouth	bc	bccmo	c	c
St. Abbs Head	bcc	cbcmo	bcc	c
Leuchars	c	cbcbc	bcc	c
Renfrew (Abbots I.)	cmoxcfxczo	cbcczo	czobcmobc	bccmo
Eskdalemuir	bcx	bccbc	bbc	bccx
Point of Ayre	bc	bcb	bbcc	procbc
Tiree	cbcc	robccroc	cciroc	procproc
Stornoway	crocr	cdodocprob	cciro dodo	irciro cdodo
Dalwhinnie	bcc	c	*	cpr
Aberdeen	c	cbcb	bbcc	ciroc
Wick	cpotxrc	cddido roro	cbc	bcpro
Sumburgh	rropbc	cciroc	c	ciroc
Blacksod Point	b	b	b	b
Malin Head	c	c	f	d
Aldergrove	cy	cyc	cido	cdodocdc
*Birr Castle	bc	bc		bc
Valentia Obsy.	bc	bc	b	b
Roches Point	c	bc	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 23rd November, 1942.

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Light northwest wind; cloudy and misty; fog in places especially industrial areas; milder.
5 S.W. England	Light northeast wind; fair but variable cloud, local fog at night; milder.
6 South Wales	Light north wind, variable cloud; local fog; milder.
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 west to northwest wind; cloudy; mild.
13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland; 16 Orkneys and Shetlands	Moderate west wind; cloudy; occasional slight rain; mild.
17 N. W. Ireland; 18 N. E. Ireland	As 7-12.
19 S. E. Ireland; 20 S. W. Ireland	Light variable wind; fair; cold today with slight frost tonight; milder tomorrow.

GENERAL INFERENCE

An intense anticyclone centred over Ireland covers the British Isles and a mild damp air current is flowing round it. Apart from occasional rain in North Scotland weather will be dry, but it will be mainly cloudy and mist or fog is probable in many Midland, Eastern and Southern districts. It will be milder than of late.

FURTHER OUTLOOK

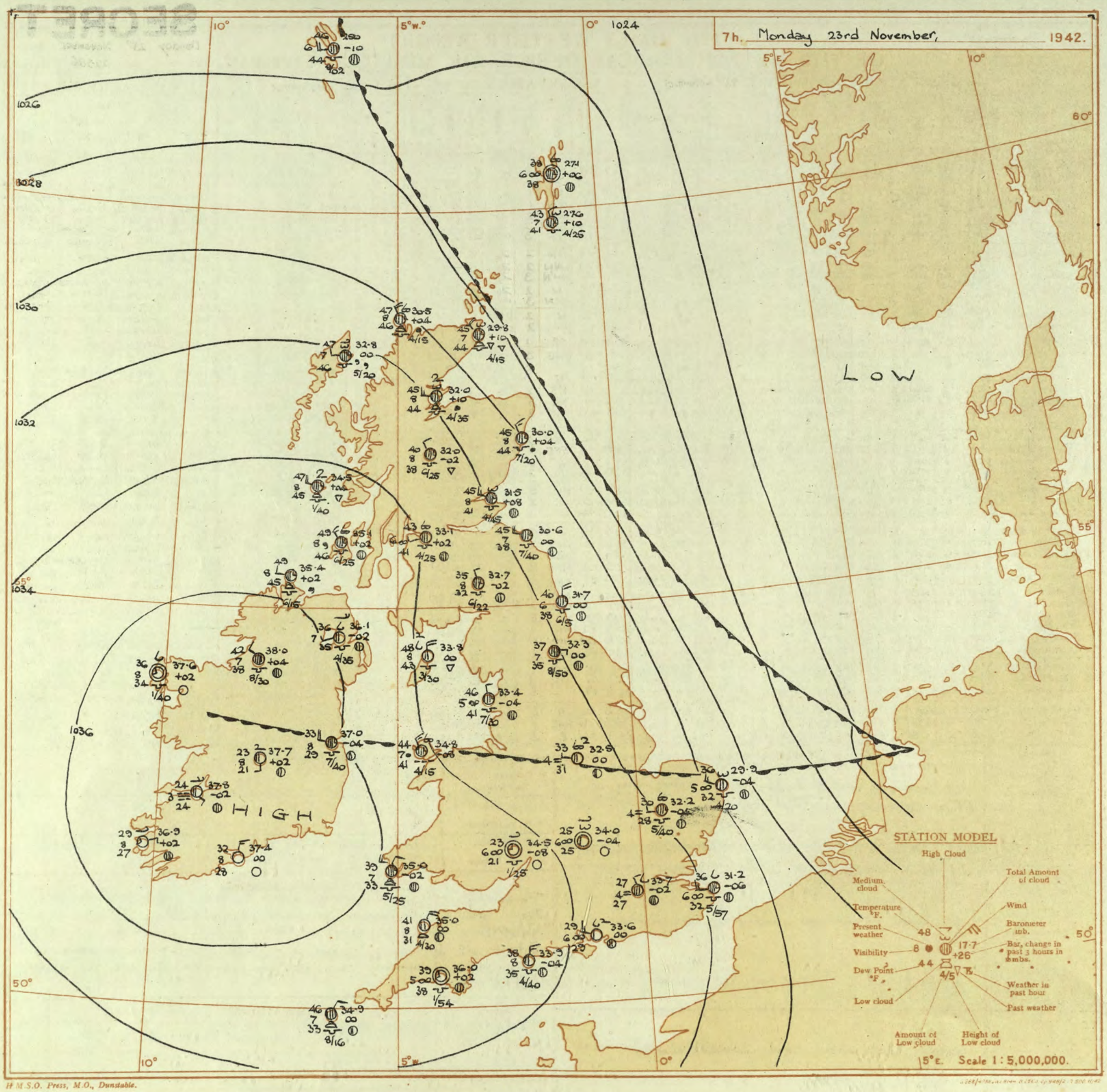
Mainly dry; cloudy and mild.

Forecasts issued at 10.30

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

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

7h. Monday 23rd November, 1942.



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

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

Explanation of Frontal Lines shown on Charts

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

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

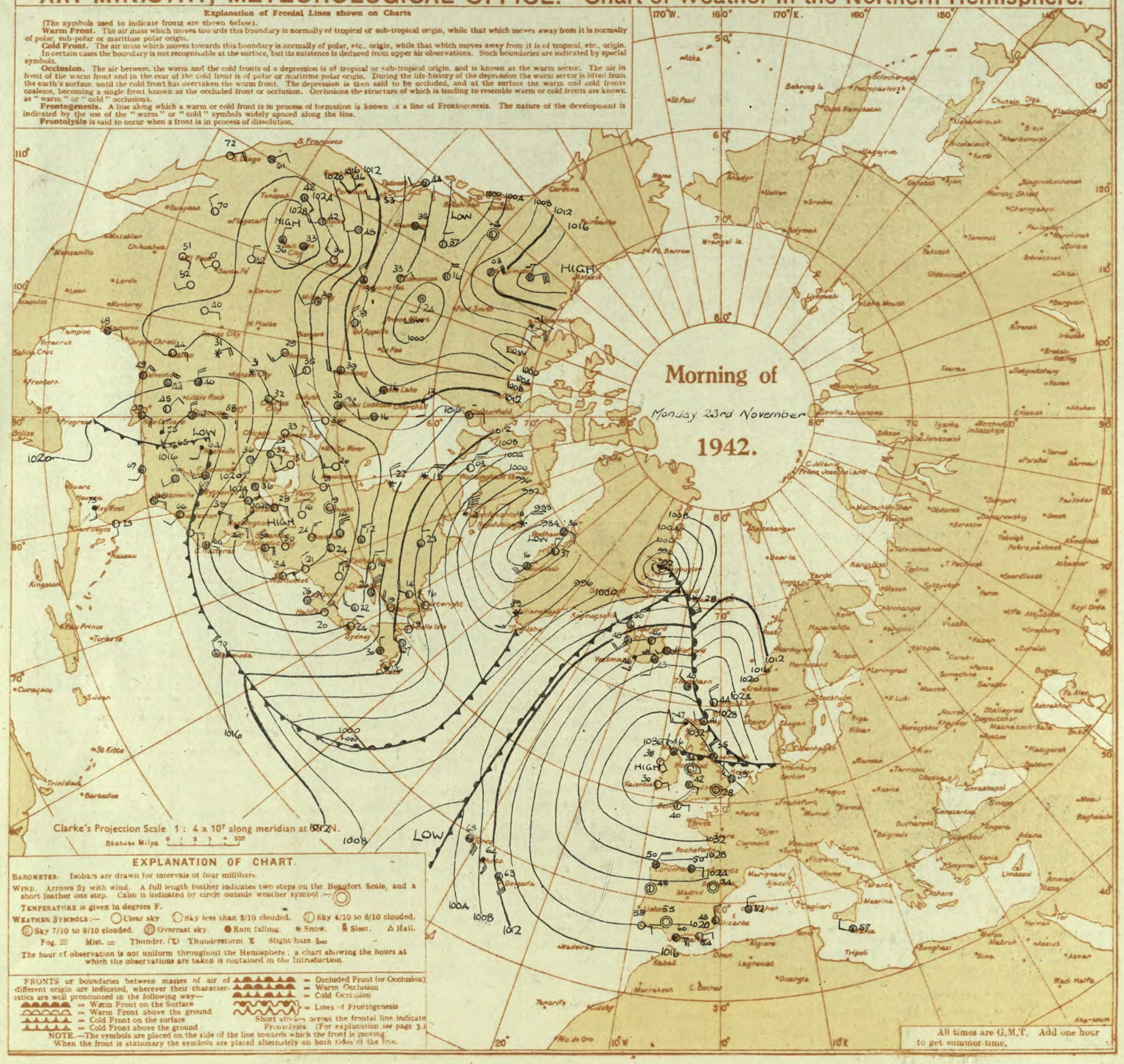
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

Page 4.

BRITISH SECTION

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

Monday 23rd November 1942

No. 25586

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)	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	*	*	*	*	*	31	*	*	*	*	*	*	*	*	*
	Croydon	290	34·4	-6	—	0	bf	28	92	27	3	-	-	-	0	0	-
	S. Farnborough	226	34·8	-8	W'N	2	bcf	27	92	25	3	-	-	7	0	4-6	-
	Boscombe Down	417	35·5	-2	NW	1	Zo	27	92	25	5	-	3	-	0	9	-
	Thorney Island	10	34·6	-2	NW'N	1	Zo	29	92	28	5	-	-	-	0	0	-
	Lympne	283	33·3	-8	NW	2	bf	30	85	26	3	-	-	-	0	0	-
	Manston	154	32·3	-10	NNW	3	Zo	36	75	29	6	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	32·4	0	WNW	3	Zo	35	75	26	6	-	-	-	0	0	-
	Gorleston	5	31·6	-10	WNW	3	Zo	33	85	29	6	5	-	-	10	10	1500
	Mildenhall	15	32·9	-8	W	2	m	28	85	25	4	-	-	6	0	7·8	-
	Cranwell	203	32·9	-10	W'N	3	m	30	92	28	4	-	-	-	0	4-6	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	34·5	-8	NW	1	Zo	27	92	24	6	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	35·3	0	NNE	3	c	41	65	31	7	5	-	-	9+	9+	4000
	Bristol	209	36·2	-4	—	0	bf+	26	92	23	2	-	3	-	0	1	-
	Portland Bill	32	35·2	+2	NW	3	b-bc	36	92	33	8	1	-	-	2-3	2-3	4000
	Plymouth	82	37·2	+14	NNE	1	bc	31	85	28	7	5	-	-	4-6	4-6	4300
	The Lizard	240	34·8	0	NE'N	4	c	39	75	32	8	8	5	-	7·8	9	1500
	Scilly (St. Mary's)	163	34·9	+2	ENE	2	b-bc	40	75	33	7	5	-	-	2-3	2-3	1500
	Guernsey	175															
6	Pembroke	142	36·0	0	E'S	2	c	42	65	29	7	2	-	-	9+	9+	4000
7	Holyhead (Valley)	32	36·0	0	—	0	b	34	75	29	7	-	4	-	0	1	-
	Chester (Sealand)	16	34·7	-4	WNW	1	b-bc	37	85	32	7	5	-	-	2-3	2-3	3500
8	Manchester	235	35·0	-2	SSE	2	bf	29	85	27	3	-	-	-	0	0	-
10	Spurn Head	29	31·8	-6	NNW	4	Zo	36	85	30	6	-	4	-	0	7·8	-
	Catterick	175	32·3	-18	WNW	3	b	36	92	34	7	-	4	-	0	1	-
	Tynemouth	108	32·1	-4	NNW	4	Zo	35	92	32	6	5	-	-	7·8	7·8	2500
11	St. Abbs Head	280	30·4	-2	WNW	4	c	44	75	37	7	5	-	-	9+	9+	4000
	Leuchars	36	31·6	-4	W	3	c	40	92	38	8	-	3	-	0	9+	-
12	Renfrew (Abbots I.)	19	33·4	-4	SE'E	1	bc	36	97	35	7	5	7	2	Tr	4-6	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	34·5	+6	NW'N	4	c	45	85	40	8	5	-	-	9	9+	3000
13A	Tiree	44	34·7	-6	W'N	3	c	46	85	42	9	8	3	6	4-6	9+	2200
13B	Stornoway	15	32·8	0	W	3	ir	47	97	46	7	8	-	-	9+	9+	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	30·6	-2	WNW	4	e-bc	43	75	39	9	-	3	-	0	7·8	-
	Wick	114	29·3	-6	W	2	bc	41	97	41	8	8	3	-	2-3	4-6	2000
16	Sumburgh	19	26·4	+4	NNW	3	c	46	92	44	8	5	3	-	7·8	9	3000
17	Blacksod Point	18	37·8	-2	ESE	1	b	38	85	34	8	-	-	-	0	0	-
18	Malin Head	84	35·4	-2	NW	3	ido	46	92	44	8	8	2	-	7·8	10	1500
	Aldergrove	268	37·1	-2	—	0	dodo	34	92	32	6	5	2	-	10	10	3000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	36·5	+2	ENE	2	b	30	92	28	8	-	-	-	0	0	-
	Roches Point	22	37·4	+2	NE	3	b	34	85	30	8	-	-	-	0	0	-

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)	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)	33·7	-4	W'N	1	m	29	92	29	4	-	-	1	0	4-6	-
Croydon	33·7	-2	NW	1	m	27	97	27	4	-	4	5	0	7·8	-
S. Farnborough	33·8	-2	W'N	2	m	26	92	25	4	5	4	-	Tr	1	3500
Boscombe Down	34·9	+2	NW'W	2	Zo	27	97	25	5	-	-	5	0	2-3	-
Thorney Island	33·6	0	W'N	3	Zo	29	92	29	6	-	4	5	0	2-3	-
Lympne	32·3	-2	NNW	3	bcf	30	85	26	3	-	3	-	0	4-6	-
Manston	31·2	-6	NW	3	Zo	36	85	32	6	5	4	-	7·8	9	5700
Shoeburyness	32·1	-12	NW	3	m	33	85	29	4	5	-	-	9+	9+	2500
Felixstowe	30·9	-8	WNW	3	Zo	36	75	29	5	5	-	-	10	10	4000
Gorleston	29·9	-4	WNW	3	Zo	36	85	32	5	5	3	-	4-6	7·8	2000
Mildenhall	32·2	-4	WSW	2	m	30	92	28	4	5	7	-	7·8	9	4000
Cranwell	32·0	0	W'N	3	Zo	32	85	29	5	-	7	9	0	7·8	-
Birmingham	33·5	-6	WNW	3	Zo	34	85	30	5	5	-	6	1	4-6	2500
Upper Heyford	34·0	-4	—	0	Zo	25	97	25	6	-	3	1	0	2-3	-
Ross-on-Wye	34·5	-8	—	0	Zo	23	92	21	6	5	-	1	Tr	Tr	2500
Hartland Point	35·0	0	NE	4	bc	41	65	31	8	1	-	-	4-6	4-6	3000
Bristol	35·5	-2	WNW	1	m	27	97	27	4	-	4	-	0	Tr	-
Portland Bill	33·9	-4	N	3	bc	38	92	35	8	5	-	-	4-6	4-6	4000
Plymouth	36·0	+2	—	0	Zo	39	97	38	5	5	-	1	Tr	Tr	4000
The Lizard	34·7	-2	NE	2	bc	38	75	30	8	8	-	-	4-6	4-6	2000
Scilly (St. Mary's)	34·9	0	NE	2	c	46	65	33	7	8	-	-	10	10	1600
Guernsey															
Pembroke	35·0	-2	NNE	2	c	39	85	33	7	8	2	-	7·8	9	2500
Holyhead (Valley)	34·8	-8	NW	3	ifo	44	92	41	7	6	7	-	4-6	9+	1500
Chester (Sealand)	33·4	-6	NNW	1	c	42	75	37	6	5	-	-	9+	9+	3500
Manchester	33·8	-4	SE	2	of	34	75	28	2	5	-	-	10	10	2500
Spurn Head	30·4	-2	W'N	5	Zo	40	85	35	6	7	-	-	10	10	2500
Catterick	32·3	0	E	1	c	37	92	35	7	5	-	-	10	10	5000
Tynemouth	31·7	0	N	4	c	40	92	38	6	5	-	-	9	9	2500
St. Abbs Head	30·6	0	WNW	4	c	45	75	38	7	5	-	-	9+	9+	4000
Leuchars	31·5	+8	WNW	3	c	45	85	41	8	5	3	-	4-6	9	4500
Renfrew (Abbots I.)	33·1	+2	SW	1	Zo	43	92	41	6	5	7	-	4-6	7·8	2500
Eskdalemuir	32·7	-2	NNW	1	c	35	92	32	8	5	-	-	9	9	2200
Point of Ayre	33·8	0	N	4	bc	48	85	43	8	5	4	5	2-3	4-6	3000
Tiree	34·5	+4	WNW	4	c	47	97	45	8	8	7	6	Tr	9+	2500
Stornoway	32·8	0	W	2	c/d	47	97	46	7	5	3	1	7·8	9	2000
Dalwhinnie	32·0	-2	NW	2	c	40	92	38	8	5	-	-	9	9	2500
Aberdeen †	30·0	+4	NW'N	3	c/r	45	97	44	8	5	-	-	9+	9+	2000
Wick	29·8	+10	NW	4	c/pr	45	97	44	7	8	3	-	4-6	9	1500
Sumburgh	27·6	+10	NNW	2	c	43	97	41	7	5	3	-	4-6	9+	2500
Blacksod Point	37·6	+2	—	0	b	36	92	34	8	5	4	-	Tr	1	4000
Malin Head	35·4	+2	WNW	2	c	49	85	45	8	8	-	-	9	9	1500
Aldergrove	36·1	-2	SW	1	bc	36	97	35	7	6	4	2	Tr	4-6	3500
Birr Castle	37·7	+2	S	1	bc	23	92	21	8	-	-	5	0	4-6	-
Valentia Obsy.	36·9	+2	ENE	1	b	29	92	28	8	-	-	1	0	Tr	-
Roches Point	37·4	0	N'E	3	b	32	85	28	8	-	-	-	0	0	-

PAST 24 HOURS.

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

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 22nd November $C_L C_M$	$wwVhN_h$	DDFWN	18h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN	01h. G.M.T. 23rd November $C_L C_M$	$wwVhN_h$	DDFWN	07h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN
109	5-	51858	26558	5-	51648	27458	33	02763	25485	37	25764	27385
115				57	02844	28427	52	62735	28488	87	02844	28466
203				8-	02847	24387				5·	03838	24468
206	57	02854	25615	54	01963	26314	53	02375	26326	83	02864	26326
210	60	25867	22487	53	02865	20525	52	22368	31243	5-	61855	23368
220				53	02755	28216				53	01744	27215
230	53	02963	18226	5-	52547	00068	53	02964	00055	51	02858	26369
245	89	02963	24317	54	01953	22213	03	02990	22317	54	01963	22214
260	57	05563	23215	00	08490	23120	5-	08477	23127	50	08467	23127
278	5-	02987	09147	57	01865	22225	5-	52848	26468	54	02848	28456
279	5-	02877	18327	03	02890	24323	53	02864	22227	57	05665	20127
285												
288	15	02761	25315	00	00790	18200	03	02790	15215	03	05690	16217
578	04	01890	00013	50	01862	00013	5-	02868	28225	5-	02768	28228
301	5-	47257	06147	5-	05557	28227	5-	02767	34443	5-	17567	31127
321	00	05690	28323				03	05590	25213	5-	05556	26216
299	7-	02655	26215	5-	05657	26227	50	05663	24213			
292	53	02861	28116	03	01890	24212	04	01790	26101	57	02764	18128
310										--	46209	26449
614	40	41461	24141				00	08490	24113	07	08490	24114

III	13h. G.M.T. 22nd November $C_L C_M$	$wwVhN_h$	DDFWN	18h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN	01h. G.M.T. 23rd November $C_L C_M$	$wwVhN_h$	DDFWN	07h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN
333	53	01961	00004	5-	04767	00027	50	01861	20111	52	52755	00058
334										--	51547	04428
340	00	05690	20111	5-	05667	28127	03	05590	28124	53	05655	32127
136	5-	05665	24327	53	05663	22327	5-	05587	26317	53	05576	24327
336										53	02754	04316
350	53	05572	22123	03	08490	22114	00	08490	23200	04	08490	22214
368	00	05690	06205	09	05690	00005	00	08490	00000	04	05590	00002
379	00	05590	02214	50	05553	30312	00	05590	28300	50	05651	28401
390	53	00662	30223	53	47363	00016	00	08490	26140	5·	08467	28247
382	00	05690	00011	00	08490	31110	50	04461	00041	97	05690	00013
438	04	01690	32314	51	01663	32313	00	05690	32300	50	05653	28203
430	00	01790	32429	00	08490	23203						
409	04	01890	06124	04	01790	04212	00	01790	08201	54	02865	09215

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 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	Weather Afternoon	Weather Night
Kew *	bmffx	bxbcff	bffxmx
Croydon	bfxbfof	bfxbfofx	ofbcmx
Greenwich	bffx	bffx	bfmx
Camden Square	b	bc	*
Kensington	bc	bc	*
Hampstead	bc	bcx	bcx

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. Time ·9 8hrs 22nd
Min. Time 0·1 14hrs 22nd

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	42	28	15	-	Tr	3·1	*	*
Croydon	38	26	20	-	Tr	0·0	*	*
Greenwich	37	27	15	-	-	0·3	93	80
Westminster	42	28	24	-	-	-	65	93
Regents Park	43	29	23	-	-	-	57	89
Camden Square	43	29	24	-	-	*	*	87
Kensington	42	28		Tr	-	*	81	87
Hampstead	41	27	21	-	-	-	*	87

SECRET

Page 1

BRITISH SECTION

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

Tuesday, November 24th 1942

No. 29587

OBSERVATIONS at 13h. G.M.T. November 23rd 1942

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)	33·1	-6	NW	2	c/f	40	85	35	5	5	-	-	9+	9+	5700
	Croydon ...	33·2	-8	WNW	1	c f	40	85	35	3	5	-	-	4-6	10	4000
	S. Farnborough	33·7	-6	NW	3	z_0	39	85	35	5	5	4	6	2-3	9	1200
	Boscombe Down	34·3	-10	NNW	2	z_0	40	85	35	6	5	-	-	9+	9+	2000
	Thorney Island	33·4	-10	W'N	2	z_0	41	85	35	6	-	7	1	0	4-6	-
	Lympne ...	31·2	-12	NW	3	z_0	40	75	34	5	5	-	-	9+	9+	5000
	Manston ...	31·3	-6	NW'W	4	z_0	41	75	34	5	5	7	-	7-8	9	4500
2	Shoeburyness ...	31·6	-10	NW	3	z_0	41	75	34	6	5	-	-	10	10	2500
	Felixstowe ...	30·9	-6	WNW	4	z_0	42	75	36	6	5	7	-	7-8	9	5700
	Gorleston ...	29·5	-4	NW'N	4	z_0	45	75	37	6	5	3	-	4-6	7-8	2000
	Mildenhall ...	31·9	-8	NW'W	2	z_0	40	85	37	5	5	7	-	4-6	10	4000
	Cranwell ...	32·0	-4	W'N	3	m	44	75	38	4	-	3	9	0	7-8	-
3	Birmingham ...	33·3	-4	NW	3	z_0	45	75	38	5	-	-	2	0	4-8	-
	Upper Heyford	33·2	-12	NW	3	z_0	41	85	37	6	-	3	6	0	7-8	-
4	Ross-on-Wye	33·9	-14	SW	2	b	43	75	36	8	-	-	1	0	1	-
5	Hartland Point	35·4	-8	ENE	1	c	45	75	38	8	5	4	-	7-8	9	2000
	Bristol ..	35·0	-10	WNW	3	z_0	40	85	36	6	5	3	5	1	4-6	4000
	Portland Bill ...	33·9	-8	NW	3	bc	45	85	40	8	1	-	-	4-6	4-6	4000
	Plymouth ...	35·6	-8	NW	2	c-bc	44	75	35	7	-	7	-	0	7-8	-
	The Lizard ...	34·9	-6	NE	4	bc	46	65	34	8	1	4	-	2-3	4-6	2000
	Scilly (St. Mary's)	35·7	-6	NE'E	3	bc	49	55	36	8	5	-	3	4-6	4-6	1800
	Guernsey ...															
6	Pembroke ...	35·9	-10	NNW	3	c	48	75	41	8	8	-	-	9+	9+	3400
7	Holyhead (Valley)	35·5	+4	NW'N	4	c	49	75	43	8	5	3	-	7-8	9+	2500
	Chester (Sealand)	33·9	-2	NW'W	3	c	49	75	42	8	5	3	-	7-8	9	3500
8	Manchester ...	34·0	-4	-	0	c f	39	97	39	2	-	3	-	0	9+	-
10	Spurn Head ...	31·8	+4	WNW	4	z_0	45	85	39	5	3	3	-	2-3	9	2500
	Catterick ...	32·7	0	NW	3	c	42	75	39	7	5	7	-	7-8	9	2800
	Tynemouth ...	32·4	+4	NW	3	z_0	47	85	43	6	5	3	-	4-6	7-8	2700
11	St. Abbs Head	31·8	+4	WNW	4	z_0	47	97	46	7	5	4	-	4-6	7-8	3000
	Leuchars ...	32·9	+12	W	3	c	49	85	45	8	5	7	-	4-6	9+	5000
12	Renfrew (Abbots I.)	34·1	+2	WNW	3	c	49	85	44	7	8	4	6	1	10	2000
	Eskdalemuir ...	33·2	+2	NNW	3	c	47	75	38	8	5	7	-	4-6	9	2400
	Point of Ayre...	34·6	-6	N	5	c	51	85	48	8	2	3	5	2-3	9+	1700
13A	Tiree	35·7	+6	NW'W	4	c	50	92	48	8	8	7	8	9	9	3000
13B	Stornoway ...	33·5	+6	NW'W	3	c	50	92	48	8	5	-	-	9+	9+	2200
15	Dalwhinnie ...	33·5	+4	NW	2	0	44	85	41	8	5	5	-	4-6	10	1500
	Aberdeen ...	32·0	+12	NW	3	c	48	85	44	8	5	7	8	4-6	9+	2500
	Wick ...	31·0	0	W'N	3	c/d	48	97	48	8	5	7	-	7-8	10	1500
16	Sumburgh ...	28·2	-2	W'S	6	id_0	48	85	45	7	5	7	-	7-8	9+	900
17	Blacksod Point	39·0	+2	-	0	bc	47	85	43	8	5	5	-	2-3	4-6	4000
18	Malin Head ...	35·9	-2	NW'W	3	c	50	85	46	8	5	-	-	9+	9+	1500
	Aldergrove ...	36·9	+4	WSW	2	c/d	44	92	42	6	5	2	-	9	10	2000
19	Birr Castle ...	38·5	-4	WSW	2	c	38	75	31	7	5	-	-	9	9	2500
20	Valentia Obsy.	38·0	-2	W'S	2	b-bc	44	85	40	9	-	-	3	0	2·3	-
	Roches Point	38·1	-2	N	3	b-bc	41	85	37	7	5	-	5	Tr	2·3	2500

OBSERVATIONS at 18h. G.M.T. November 23rd 1942

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. °F. (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)	33·0	+2	WNW	1	c f	40	85	38	2	5	3	-	4-6	9+	5700	1	*
	Croydon ...	33·2	+2	W	1	f	39	92	37	3	-	-	-	10	10	<150	1	*
	S. Farnborough	33·8	0	NW'W	2	m	39	85	36	4	-	7	-	0	10	-	0	*
	Boscombe Down	33·8	-2	NW'N	2	z_0	38	85	35	5	-	3	2	0	9	-	0	*
	Thorney Island	32·6	-6	NW'W	1	z_0	40	92	38	6	5	-	-	9+	9+	4000	1	
	Lympne ...	31·0	-2	NNW	3	m	40	85	36	4	-	3	-	0	1	-	1	
	Manston ...	30·9	-2	NW'N	3	z_0	43	85	39	5	-	7	-	0	10	-	1	§ *
2	Shoeburyness ...	31·7	2	NW	3	z_0	41	85	37	6	5	-	-	10	10	2500	1	*
	Felixstowe ...	31·1	+2	NW	3	m	43	85	38	4	-	-	2	0	4-6	-	0	3
	Gorleston ...	29·9	+4	N'W	2	pr	45	75	37	6	5	-	-	9+	9+	600	1	2
	Mildenhall ...	32·1	+6	NW	3	m	43	85	39	4	5	7	-	7-8	10	3500	1	*
	Cranwell ...	32·8	+6	NW	3	z_0	44	85	40	5	5	-	-	9	10	4000	0	*
3	Birmingham ...	34·0	+4	NW	3	m	43	85	39	4	5	-	-	9+	9+	2500	1	*
	Upper Heyford	33·4	+2	NNW	2	m	38	92	35	4	-	7	-	0	10	-	1	*
4	Ross-on-Wye	34·4	+6	SW	1	c-bc	40	85	36	8	2	-	-	7-8	7-8	3000	1	*
5	Hartland Point	34·4	-4	N'E	4	c-bc	47	85	42	8	2	6	6	4-6	7-8	1500	1	3
	Bristol ..	34·9	+2	W	2	z_0	39	92	36	5	-	7	2	0	7-8	-	1	*
	Portland Bill ...	33·6	0	NW	3	c-bc	44	85	39	7	5	4	-	7-8	7-8	4000	1	3
	Plymouth ...	35·4	+4	N	1	m	42	85	37	4	5	4	-	Tr	1	3000	0	1
	The Lizard ...	35·2	+2	N'E	3	c-bc	42	92	39	8	8	-	-	7-8	7-8	1500	0	2
	Scilly (St. Mary's)	35·1	0	NE	3	c	47	65	37	8	8	4	-	7-8	9+	1200	0	3
	Guernsey ...																	
6	Pembroke ...	35·7	0	NE	3	bc	46	92	44	8	8	4	-	2-3	4-6	3000	1	2
7	Holyhead (Valley)	35·4	+2	N'W	3	c	49	85	46	7	8	7	-	7-8	9+	3000	1	2
	Chester (Sealand)	34·5	+2	NW'W	3	z_0	45	85	41	6	4	7	-	4-6	7-8	5000	1	*
8	Manchester ...	34·8	+6	W'N	2	b-bcf	39	92	36	2	-	3	-	0	2-3	-	1	*
10	Spurn Head ...	32·6	+10	NNW	4	ir_0	46	85	43	6	8	-	-	9+	9+	1500	1	3
	Catterick ...	34·6	+12	NW	2	z_0	45	75	39	6	5	3	-	2-3	4-6	3000	1	*
	Tynemouth ...	34·0	+14	NW	3	c	47	85	43	6	8	-	-	9	9	2500	1	3
11	St. Abbs Head	32·9	+2	WNW	3	c	47	97	46	7	5	-	-	9+	9+	2500	0	3
	Leuchars ...	34·1	+8	W	2	c	46	85	41	8	5	7	-	7-8	10	3500	0	*
12	Renfrew (Abbots I.)	35·5	+14	SW	2	z_0	45	92	43	5	4	7	1	2-3	7-8	1800	1	*
	Eskdalemuir ...	34·3	+4	-	0	c	45	85	39	6	5	-	-	9+	9+	1500	1	*
	Point of Ayre...	35·2	+6	N	4	bc	49	92	46	8	4	4	1	1	4-6	2000	0	4
13A	Tiree	36·5	+6	W'N	4	c	50	92	47	8	5	-	-	9+	9+	4000	1	3
13B	Stornoway ...	34·2	+6	WNW	3	c	49	92	47	8	5	7	-	7-8	9	2200	1	
15	Dalwhinnie ...	34·5	+4	-	0	0	43	92	41	8	5	2	-	7-8	10	1500	1	
	Aberdeen ...	32·8	+8	NW'W	3	c	48	85	45	6	5	7	-	9	9+	4000	1	1
	Wick ...	32·0	+6	WNW	3	c	47	92	46	8	5	7	-	7-8	9+	2000	1	*
16	Sumburgh ...	28·3	+2	NW'W	4	id_0	49	92	47	7	5	2	-	7-8	10	900	1	3
17	Blacksod Point	39·1	+6	-	0	b-bc	37	97	36	9	-	-	6	0	2-3	-	0	1
18	Malin Head ...	37·1	+8	NNW	4	c	50	85	46	8	5	-	-	9+	9+	1500	1	3
	Aldergrove ...	37·4	+6	NW	2	z_0	46	92	44	6	5	-	-	9	10	1600	1	*
19	Birr Castle ...	38·4	+2	SSE	1	bc	31	97	30	7	5	-	-	4-6	4-6	2500	1	*
20	Valentia Obsy.	38·3	+6	ENE	2	b-bc	36	92	34	8	-	-	3	0	2-3	-	1	1
	Roches Point	37·6	0	N	3	bc	43	85	39	7	5	-	5	1	4-6	2500	1	3

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 23rd (39)	Weather. 13h.—18h. 23rd (40)	Weather. 18h. 23rd to 1h. 24th (41)	Weather. 1h.—7h. 24th (42)
1	London (Kew)	ffxcm$_0$	cmmf	cfcm$_0$	cmw
	Croydon ...	cfbmcmcf	cfcf	ofcf, bm	f
	S. Farnborough	bmxcm$_0$	cbccm$_0$	cm	cbm bcpx
	Boscombe Down	bcmxcm$_0$	cm$_0$	cbcm$_0$	cidombcm$_0$
	Thorney Island	bcxmm$_0$	bcmcm$_0$w	cmow	cm$_0$bm$_0$w
	Lympne ...	bcfxcm$_0$	cz$_0$bcm	bcmcm$_0$pr	bcmcpfc
	Manston ...	cbccm$_0$	cz$_0$m$_0$	cm$_0$idifc	cmopfir
2	Shoeburyness ...	cm$_0$	cm$_0$	*	*
	Felixstowe ...	cm$_0$	cm$_0$cm	cmbm$_0$cm$_0$	cm$_0$bcc$_0$
	Gorleston ...	cmz$_0$	cpfz$_0$	cpfo	c
	Mildenhall ...	cmcm$_0$	cm$_0$cm	bcmbcfw	bcm$_0$xcf
	Cranwell ...	bcm$_0$cm	cmcm$_0$	cm$_0$cm	cm$_0$cidom
3	Birmingham ...	bcz	bccm	cbccm	cmf
	Upper Heyford	bc$_0$m$_0$xbm$_0$	cm$_0$cm	cbmcm	ido ffe
4	Ross-on-Wye	cm$_0$cb	bb	bcm$_0$pro	c
5	Hartland Point	bcc	cr$_0$c	cbc	bccbc
	Bristol ..	bmxbccm	bcm$_0$cm$_0$	bfonwid$_0$	cfdocf
	Portland Bill ...	bcbc	bcbc	c	oc
	Plymouth ...	bcfbm$_0$	cbcm$_0$	bcm$_0$bm	bbcm$_0$x
	The Lizard ...	bc	bcc	cbcw	cbcw
	Scilly (St. Mary's)	bbcy	bcc	cp$_0$bc	bcbbc
6	Pembroke ...	c	cpr$_0$bc	cbc	c
7	Holyhead (Valley)	cbcc	c	bccw	bcfgF
	Chester (Sealand)	cm$_0$r$_0$c	cpr$_0$cm$_0$	cm$_0$fbF	Fbcm
8	Manchester ...	id$_0$FF	cbcffw	bccFF	cFFw
10	Spurn Head ...	cz	cir$_0$	c	od$_0$
	Catterick ...	bcir$_0$c	ccz$_0$	cm$_0$	cm$_0$ido
	Tynemouth ...	bcc	c	c	c
11	St. Abbs Head	cm$_0$pr	cm$_0$c	cm$_0$	cm$_0$c
	Leuchars ...	c	c	c	c
12	Renfrew (Abbots I.)	cm$_0$bcm$_0$c	ccm$_0$	cm$_0$	cm$_0$ido
	Eskdalemuir ...	bcpr$_0$c	cz$_0$c	cm$_0$	cm$_0$c
	Point of Ayre...	bcbc	cbc	bcc	cbccw
13A	Tiree	cirdo	cir$_0$c	c	c
13B	Stornoway ...	cpr$_0$cir$_0$c	ccir$_0$c	cido c	c
15	Dalwhinnie ...	cpr$_0$o	o	*	oir$_0$
	Aberdeen ...	cir$_0$bcc	ccz$_0$	c	c
	Wick ...	cd$_0$d$_0$c	c	c	c
16	Sumburgh ...	cir$_0$id$_0$	cirido	c	cd$_0$d$_0$
17	Blacksod Point	bc	bc	b	bc
18	Malin Head ...	c	c	c	c
	Aldergrove ...	bcm$_0$cid$_0$	d$_0$d$_0$m$_0$cm$_0$	c	cidombcid$_0$
19	Birr Castle ...	c	bc		c
20	Valentia Obsy.	bc	bc	bc	bc
	Roches Point	bc	bc	bc	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 24th November, 1942.

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Light variable wind; dull and misty; fog in many places, especially industrial areas; rather cold during day, moderate night temperature.
5 S.W. England 6 South Wales 7 North Wales 8 N.W. England	Mainly as 1-4, but bright periods and no fog in extreme West of these areas.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man	Light northwest wind; mainly cloudy; fog or mist in valleys and industrial areas; mild.
13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Light west to northwest wind; cloudy; slight local drizzle; 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 variable wind; mainly cloudy but bright intervals; mild.

GENERAL INFERENCE

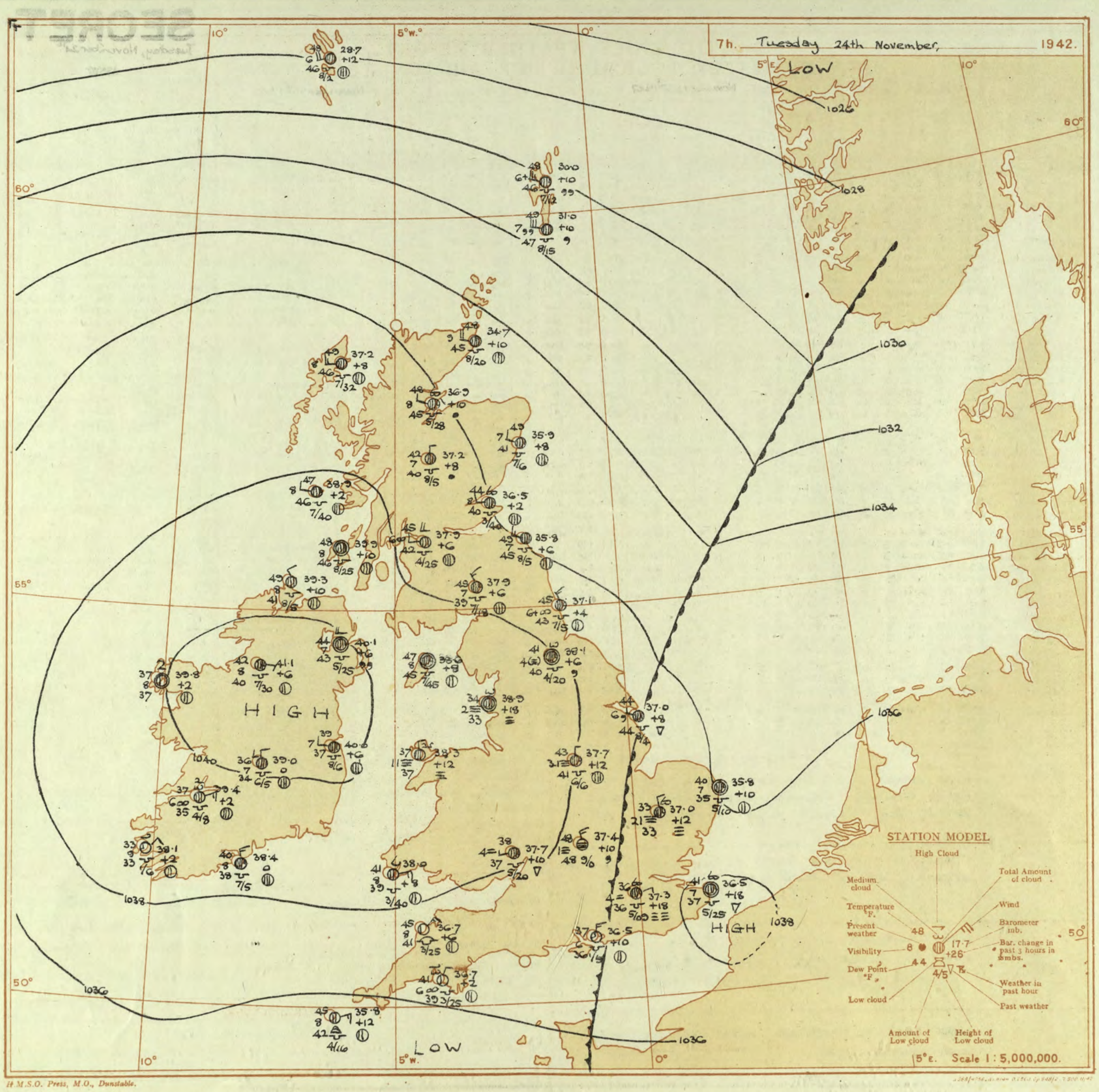
A large anticyclone centred over Ireland covers the British Isles. Weather will be mainly dull and misty with fog in many areas, but some bright intervals will occur in Ireland and the extreme west of England.

FURTHER OUTLOOK

Little change.

Forecasts issued at 10.30

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



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

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

Explanation of Frontal Lines shown on Charts

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

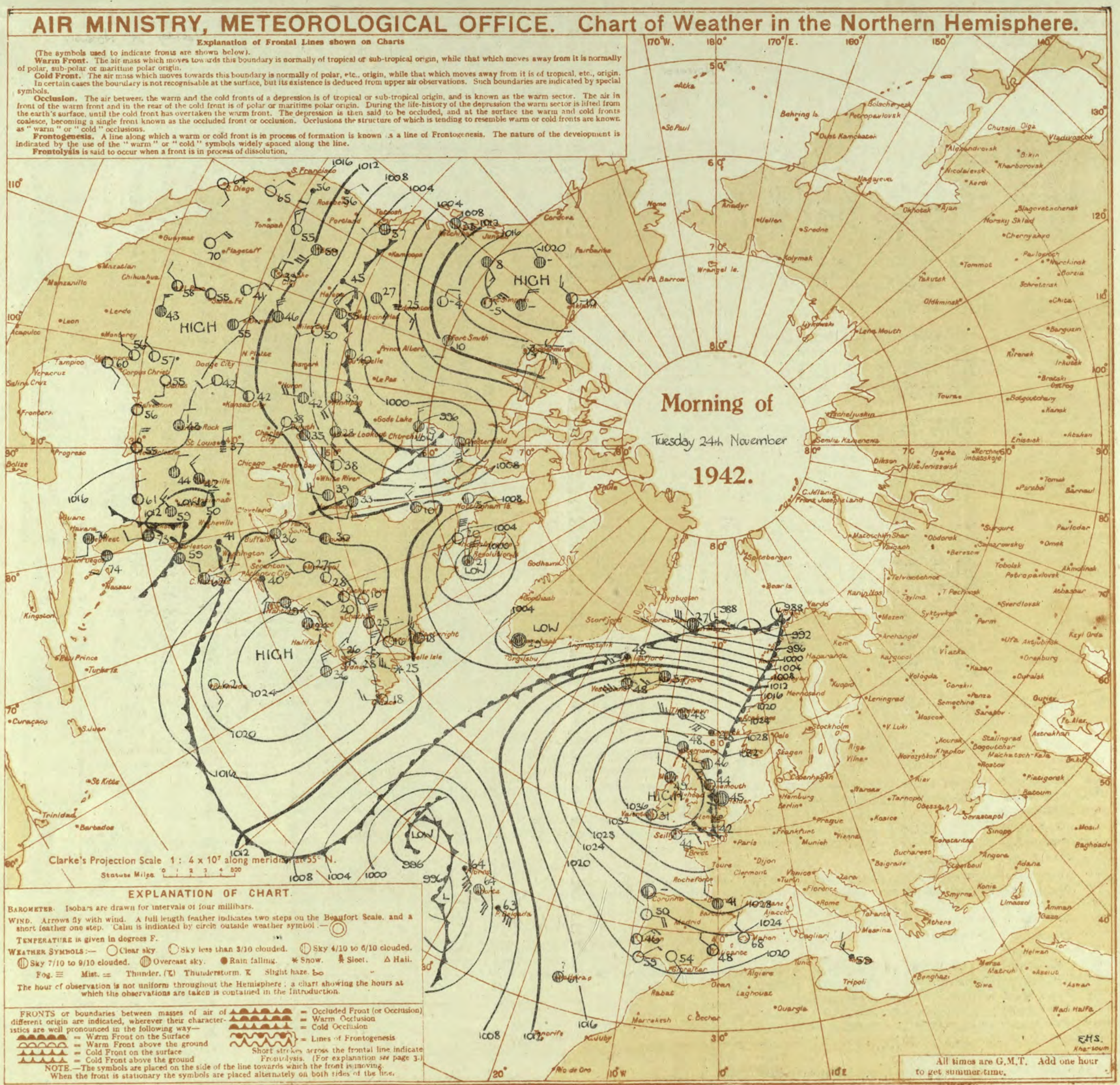
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS:— ○ Clear sky. ◐ Sky less than 3/10 clouded. ◑ Sky 4/10 to 6/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky. ● Rain falling. ✱ Snow. ▲ Sleet. △ Hail. Fog. ≡ Mist. = Thunder. (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.

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 24th November 1942

No. 29587

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)	°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	*	*	*	*	*	44	*	*	*	*	*	*	*	*	*
	Croydon ...	290	34·5	+6	N	2	m	42	92	40	4	–	–	–	0	0	–
	S. Farnborough	226	34·9	+6	N	2	m	43	85	39	4	5	–	–	9+	9+	2500
	Boscombe Down	417	35·7	+10	N'W	2	2o	39	97	38	5	5	3	–	4·6	9+	4000
	Thorney Island	10	34·7	+10	N'E	3	2o	43	85	39	5	5	–	–	10	10	2500
	Lympne ..	283	33·4	+12	NNW	2	bc/pr	41	97	40	5	2	–	–	4·6	4·6	3000
	Manston ...	154	33·3	+14	E'S	3	pr	45	92	43	6	8	–	–	7·8	7·8	2000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	33·9	+18	NNW	2	2o	42	85	38	6	–	7	–	0	9	–
	Gorleston ...	5	33·8	+16	N'E	3	c-bc/pr	45	75	38	7	8	3	–	4·6	7·8	1500
	Mildenhall ...	15	35·1	+12	N'W	2	cf-	36	97	36	3	5	–	–	9+	9+	3000
	Cranwell ...	203	36·0	+10	NNW	2	ido	40	97	39	4	5	–	–	4·6	4·6	2000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	35·6	+8	NNW	2	m	39	97	37	4	–	3	–	0	9	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	35·7	+6	ENE	3	bc	46	85	42	8	1	4	1	Tr	4·6	1500
	Bristol ...	209	36·6	+8	SW	1	ido	40	97	39	4	5	–	–	10	10	2500
	Portland Bill ...	32	34·5	+12	N	2	c	44	85	39	7	5	–	–	10	10	2500
	Plymouth ...	82	36·6	+8	–	0	m	35	97	35	4	–	–	–	0	0	–
	The Lizard ...	240	35·5	+4	NE'N	4	b-bc	41	92	40	8	4	–	–	2·3	2·3	2000
	Scilly (St. Mary's)	163	35·7	+2	ENE	2	bc	44	85	40	8	8	8	–	4·6	4·6	1800
	Guernsey ...	175															
6	Pembroke ...	142	36·9	+2	ENE	3	bc	46	92	44	8	–	4	–	0	4·6	–
7	Holyhead (Valley)	32	37·3	+8	NNE	1	fS	45	92	44	8	8	3	–	4·6	9+	2500
	Chester (Sealand)	16	37·5	+14	–	0	bF	34	97	34	0	–	–	–	0	0	–
8	Manchester ...	235	37·3	+8	–	0	b-bd=	34	92	32	1	–	3	–	0	2·3	–
10	Spurn Head ...	29	35·5	+10	–	0	c	45	92	45	7	8	2	–	4·6	10	1500
	Catterick ...	175	37·2	+10	–	0	c/d	45	85	41	6	5	7	–	7·8	10	2500
	Tynemouth ...	108	35·8	+6	NW	3	2o	44	97	43	6	8	–	–	9+	9+	2500
11	St. Abbs Head	280	35·2	+14	WNW	3	c	49	85	45	6	5	–	–	9+	9+	2500
	Leuchars ...	36	36·0	+10	N	2	c	48	75	42	8	5	7	–	9+	9+	4500
12	Renfrew (Abbotsl.)	19	36·9	+6	WSW	1	2o	47	85	43	6	5	2	–	9	10	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	37·3	+6	NE'N	3	c	49	92	46	8	5	8	–	Tr	9+	1600
13A	Tiree	44	37·6	+2	W	2	c-bc	49	92	46	8	5	3	–	4·6	7·8	5700
13B	Stornoway ...	15	35·9	+10	W	3	c	48	92	46	8	5	–	–	10	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	35·0	+6	W'N	2	c-bc	46	92	43	9	5	3	–	4·6	7·8	3000
	Wick ...	114	33·4	+10	–	0	c	46	97	46	9	5	7	–	7·8	10	2000
16	Sumburgh ..	19	30·1	+6	WNW	6	c	50	92	48	8	5	–	–	10	10	2000
17	Blacksod Point	18	39·4	+2	–	0	b	37	97	36	8	5	–	–	Tr	Tr	4000
18	Malin Head ...	84	38·4	+2	NW	3	c	49	85	45	8	5	–	–	9+	9+	2500
	Aldergrove ...	268	38·9	+4	NW	1	c	44	92	43	7	5	–	–	9+	9+	3000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	38·7	–2	NE	2	bc	31	92	29	9	–	–	2	0	4·6	–
	Roches Point	22	38·4	+4	N	3	bc	37	85	33	8	5	–	5	1	4·6	2500

OBSERVATIONS at 7 hr. G.M.T. 24th 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)	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)	Scale of Ground. 0–9 (31)	Sea 0–9 (32)
1	London (Kew)	36·9	+14	ENE	1	m	38	92	35	4	5	–	–	7·8	7·8	2500	1	*
	Croydon ...	37·3	+18	ENE	1	c/f	36	97	36	4	5	7	–	7·8	9+	900	1	*
	S. Farnborough	37·3	+12	–	0	bcf+	33	92	31	2	5	5	6	1	4·6	3000	3	*
	Boscombe Down	37·0	+6	N	2	2o	39	97	39	5	–	3	–	0	2·3	–	0	*
	Thorney Island	36·5	+10	N	3	2o	37	97	36	6	5	–	–	Tr	Tr	2500	1	*
	Lympne ..	38·6	+18	E	1	c	39	75	31	8	5	–	–	9	9	4000	1	§2
	Manston ...	36·5	+18	–	0	c	41	85	37	7	5	7	–	7·8	9+	2500	1	*
2	Shoeburyness ...	36·6	+18	N	2	2o	38	92	36	5	5	3	–	4·6	9+	2500	1	*
	Felixstowe ...	36·7	+16	N'W	1	pr	39	85	34	6	8	7	–	7·8	9+	3500	0	*
	Gorleston ...	35·8	+10	–	0	c	40	75	35	7	5	–	–	7·8	9+	1000	1	3
	Mildenhall ...	37·0	+12	NNW	1	f	33	97	33	2	–	7	–	0	9+	–	1	*
	Cranwell ...	37·4	+10	NW'W	1	ido	40	97	40	4	5	–	–	10	10	1500	1	*
3	Birmingham ...	38·5	0	NW	2	of	39	92	37	2	5	–	–	10	10	2500	1	*
	Upper Heyford	37·4	+10	NNW	3	f	38	97	38	1	–	–	–	10	10	1150	1	*
4	Ross-on-Wye	37·7	+10	WSW	1	m	38	92	37	4	5	–	–	7·8	10	2000	1	*
5	Hartland Point	36·7	+6	NE	3	b-bc	45	97	44	8	4	–	8	2·3	2·3	2500	0	2
	Bristol ...	37·7	+6	–	0	cf	40	97	39	3	5	–	–	9+	9+	2500	1	*
	Portland Bill ...	35·8	+8	NE	3	c-bc	42	85	38	7	5	–	–	7·8	7·8	2500	1	3
	Plymouth ...	36·7	+2	NNE	1	2o	41	92	39	6	5	3	1	2·3	2·3	2500	3	1
	The Lizard ...	35·8	+2	NE	3	bc	42	92	40	8	1	6	–	4·6	4·6	2000	0	3
	Scilly (St. Mary's)	35·8	+2	E'N	3	bc	45	85	42	8	8	–	–	4·6	4·6	1600	1	3
	Guernsey ...																	
6	Pembroke ...	38·0	+8	ENE	3	bc	41	92	39	8	5	4	–	2·3	4·6	4000	0	2
7	Holyhead (Valley)	38·3	+12	N	1	c-bd+	37	97	37	1	–	–	7	0	7·8	–	1	
	Chester (Sealand)	38·5	+10	–	0	m	32	97	31	4	–	3	–	0	9+	–	3	*
8	Manchester ...	38·7	+10	SE	1	cf-	35	97	35	1	5	7	–	7·8	10	2500	1	*
10	Spurn Head ...	37·0	+8	WNW	1	ido	44	97	44	6	5	–	–	10	10	1500	1	3
	Catterick ...	38·1	+6	–	0	cjf	41	97	40	4	5	3	–	4·6	9	2000	1	*
	Tynemouth ...	37·1	+4	NW	3	2o	45	92	43	6	5	–	–	9+	9+	2500	1	3
11	St. Abbs Head	35·8	+6	WNW	3	c	49	85	45	7	5	–	–	10	10	2500	0	3
	Leuchars ...	36·5	+2	W	2	c	44	85	40	8	5	7	–	2·3	9+	4000	0	*
12	Renfrew (Abbotsl.)	37·9	+6	W'S	2	2o	45	85	42	6	5	2	–	4·6	7·8	2500	1	*
	Eskdalemuir ...	37·9	+6	NW	3	c	45	75	39	7	5	–	–	9+	9+	1800	1	*
	Point of Ayre...	38·6	+8	–	0	c	47	92	45	8	5	–	–	9+	9+	1500	0	2
13A	Tiree	38·9	+2	WNW	2	c	47	92	46	8	5	–	–	9+	9+	4000	1	2
13B	Stornoway ...	37·2	+8	W	3	c	49	92	46	8	5	–	–	9+	9+	3200	1	
15	Dalwhinnie ...	37·2	+8	N	1	c	42	92	40	7	5	–	–	10	10	2500	1	*
	Aberdeen † ...	39·9	+8	WNW	2	c	49	75	41	7	5	–	–	9+	9+	4000	1	1
	Wick ...	34·7	+10	W'N	4	c	48	85	45	9	5	–	–	10	10	2000	1	*
16	Sumburgh ..	31·0	+10	WNW	6	dod	49	92	47	7	5	–	–	10	10	1500	1	4
17	Blacksod Point	39·8	+2	–	0	b-bc	37	97	36	8	–	–	6	0	2·3	–	1	1
18	Malin Head ...	39·3	+10	NW'N	2	c	49	75	41	8	5	–	–	10	10	2500	1	2
	Aldergrove ...	40·1	+6	–	0	c/d	44	97	43	7	5	2	–	7·8	10	2500	1	*
19	Birr Castle ...	39·0	0	N	2	c	36	92	34	7	5	1	–	9	10	2500	1	*
20	Valentia Obsy.	38·1	+2	NE	2	b	33	97	33	9	5	–	1	Tr	Tr	4000	3	1
	Roches Point	38·4	0	N	3	c	40	92	38	8	5	–	–	9+	9+	2500	1	3

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

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 23rd November			18h. G.M.T.			01h. G.M.T. 24th November			07h. G.M.T.		
IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
109 57	51755	25357	57	21745	26456	5-	03765	26428	50	02746	25556
115 52	10735	28468	52	02734	28457	52	62735	24488			
203 5-	51883	24418									
206 57	21865	28357	53	02854	26227	57	61966	26268	57	02855	26267
210 57	02854	22223	52	02864	22368	5-	02868	23328	5-	02867	23227
220 51	03846	24317	52	02645	22328				52	02744	22328
230 5-	02854	26326	5-	02857	26357	5-	21858	24158	5-	02968	24228
245 57	02964	29464	57	02757	24228	54	02964	24125	5-	02966	24216
260 57	05665	24228	5-	05555	20225	57	47366	24227	53	05666	20228
278 52	61845	28428	54	02844	28366	57	01851	25325	5-	02867	00027
279 57	05665	01127	57	05665	30227	52	05566	00028	5-	45358	04148
285 53	02744	22427							5-	02747	32327
288 57	05664	26327	52	45364	26358	5-	41468	16148	52	21465	16257
575 53	02864	26226	5-	02857	26227	5-	02867	00027	5-	02867	00017
301 5-	05567	32227	5-	17463	32125	00	43390	00045	03	45290	00045
321 5-	05557	28327	5-	05656	30326	53	05556	28257	57	21454	28227
299 57	05655	28327	80	05645	28525	5-	52748	30258	5-	62448	28368
292 57	02764	28227	50	05663	28225	53	05665	28228	43	05563	28227
310 --	01634	26414	--	01425	26415				--	02628	27428
614 03	08490	24115	53	08465	30128	50	08464	32354	5-	47366	32126

13h. G.M.T. 23rd November			18h. G.M.T.			01h. G.M.T. 24th November			07h. G.M.T.		
IIIC$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN	C$_L$C$_M$	wwVhN$_h$	DDFWN
333 5-	02744	02257	5-	02755	32367	07	01890	30183	04	04890	26216
334 --	25645	30285	--	08447	·00028				--	03447	02128
340 74	02764	32215	5-	05565	31215	--	46009	32249	5-	43247	09149
136 53	05565	24328	5-	22648	28368	5-	81957	02367	55	02855	32186
336 54	01754	28315	57	02754	32316						
350			57	08464	26227	53	05565	02327	5-	08458	22127
368 5-	02667	28217	04	05590	32123	5-	05577	00017	57	05565	32168
379 50	05651	28313	07	05590	30317	53	08455	04327	--	57209	32149
390 5-	45367	28247	02	45320	27248	5-	45356	28247	57	47363	28246
382 07	05690	28113	07	17490	28227	5-	08454	01224	57	41457	02228
438 57	02654	28217	5-	02657	30527	50	05543	32313	54	02745	32317
430 03	05690	30213	57	05564	32328	5-	05547	32328			
409 54	01861	03308	5-	22857	01167	04	01890	06111	57	01852	05203

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 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	Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. Time / Min. Time
Kew *	ffxcm	cmbmf	cfcmw	
Croydon ...	cfbmcf	cfof	ofcfb,f	
Greenwich ...	bxcff	ff	cbxcf	
Camden Square	c	c	*	
Kensington ...	bcm	bcm	*	
Hampstead ...	bc	bc	bc	

Stations.	Temperature Day Max °F	Temperature Night Min °F	Temperature Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	41	37	27	–	–	0·5	*	*
Croydon ...	40	35	29	–	Tr	1·8	*	*
Greenwich ...	42	36	29	Tr	–	0·0	82	95
Westminster ..	45	35	33	–	–		87	94
Regents Park ...	44	31	29	–	–		79	65
Camden Square	42	40	30	–	–	*	*	96
Kensington ...	42	39	31	–	Tr		93	92
Hampstead ...	40	37	32	–	–		*	96

SECRET

Page 1 **BRITISH SECTION**

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

Wednesday, 25th November 1942

No. 29588

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

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)	37·7	-6	NW	1	m/f	45	85	40	4	5	3	8	Tr	4-6	5700
	Croydon	38·2	-2	WSW	1	f	41	92	39	3	-	-	-	10	10	<150
	S. Farnborough	38·1	-6	N'E	1	z₀	45	75	38	6	5	-	7	Tr	9+	3000
	Boscombe Down	38·2	+2	NE	2	c	47	75	38	7	1	-	8	2-3	9	3000
	Thorney Island	37·7	-2	NE	1	c-bc	46	75	38	7	5	3	-	4-6	7-8	4000
	Lympne	38·0	-2	ESE	1	c	43	55	28	8	5	-	6	9+	10	4000
	Manston	37·7	-6	WSW	1	c-bc	43	65	33	8	5	3	1	4-6	7-8	3500
2	Shoeburyness	37·5	-8	N'E	1	z₀	45	85	39	5	5	3	-	2-3	9	2500
	Felixstowe	37·2	-4	SW'W	1	c	45	75	38	7	5	7	-	7-8	9+	6000
	Gorleston	36·7	-6	WNW	1	z₀	47	75	39	6	5	7	-	4-6	9+	1700
	Mildenhall	37·6	-2	NW'W	2	o/f	45	92	43	5	5	-	-	10	10	3000
	Cranwell	37·7	-4	NW'W	3	cf-	46	92	44	3	5	-	-	9+	9+	2000
3	Birmingham	38·4	-2	NW	1	of	44	85	40	3	5	-	-	10	10	800
	Upper Heyford	38·1	-4	NW	2	f	43	97	41	3	-	-	-	10	10	<150
4	Ross-on-Wye	38·7	0	W	1	m	43	85	39	4	5	-	-	10	10	1000
5	Hartland Point	37·8	0	ENE	3	c	46	75	38	7	1	-	6	Tr	9+	2500
	Bristol	38·7	-4	N'E	1	b-bcf	46	85	42	3	5	-	1	2-3	2-3	4000
	Portland Bill	36·7	-6	E	4	c-bc	47	85	43	7	2	-	-	7-8	7-8	4000
	Plymouth	37·6	-6	ENE	3	c-bc	47	75	39	7	7	-	2	4-6	7-8	3000
	The Lizard	36·7	+4	ENE	3	c-bc	48	75	41	8	2	3	-	7-8	7-8	2000
	Scilly (St. Mary's)	36·9	0	ENE	3	c	52	75	44	7	3	3	3	4-6	9	1400
	Guernsey															
6	Pembroke	39·1	+6	E'N	1	z₀	49	85	43	6	2	4	3	1	4-6	4000
7	Holyhead (Valley)	39·6	+2	-	0	fs	47	92	46	6	-	7	-	0	10	-
	Chester (Sealand)	39·1	-2	-	0	m	45	92	43	4	5	-	-	10	10	4000
8	Manchester	39·0	-2	S	1	f	41	97	40	2	-	-	-	10	10	<150
10	Spurn Head	37·9	+6	NW	2	o	47	92	45	6	8	-	-	10	10	2000
	Catterick	38·6	+2	WNW	2	z₀	49	75	40	6	5	-	-	10	10	1800
	Tynemouth	37·5	-2	W	2	z₀	48	85	44	5	5	-	-	9+	9+	2600
11	St. Abbs Head	37·0	+4	WNW	3	c	48	92	46	7	5	-	-	10	10	2000
	Leuchars	37·7	0	WSW	1	z₀	49	85	42	6	5	-	-	9+	9+	3500
12	Renfrew (Abbots I.)	38·5	-4	W'N	2	z₀	50	85	46	6	5	2	-	9	9+	2500
	Eskdalemuir	38·3	0	NNW	1	r₀r₀	47	85	42	8	5	-	-	9+	9+	2100
	Point of Ayre	39·3	0	N'E	4	c	50	85	46	8	5	-	-	9+	9+	4000
13A	Tiree	40·0	+2	WN	2	c	50	65	40	9	7	4	-	9	9+	4500
13B	Stornoway	38·6	+6	NW'W	2	c	51	85	47	8	5	-	-	9+	9+	2200
15	Dalwhinnie	38·5	+2	N	1	o	46	85	41	8	5	-	-	10	10	1500
	Aberdeen	36·9	0	NW'W	4	c	50	75	41	8	8	-	-	9+	9+	3500
	Wick	36·1	+2	NW	5	c	49	97	49	7	5	-	-	4-6	9+	800
16	Sumburgh	32·6	+14	WNW	6	d₀d₀	49	92	46	7	5	-	-	10	10	1200
17	Blacksod Point	40·1	-2	-	0	b-bc	50	75	42	9	-	-	6	0	2-3	-
18	Malin Head	39·9	-2	NW	2	c	50	75	42	8	5	-	-	9+	9+	2500
	Aldergrove	40·5	-2	WNW	1	c	47	85	43	8	5	-	-	10	10	3500
19	*Birr Castle	40·1	-2	N	1	c	42	92	40	7	5	2	-	7-8	10	2500
20	Valentia Obsy.	37·9	-4	E	4	c	50	75	42	8	7	-	-	9+	9+	4000
	Roches Point	39·1	-2	E	3	bc	51	85	47	8	2	-	5	1	4-6	2500

OBSERVATIONS at 18h. G.M.T. November 24th. / 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. 24th (39)	Weather 13h.–18h. 24th (40)	Weather 18h. 24th to 1h. 25th (41)	Weather 1h.–7h. 25th (42)
London (Kew)	38·1	+4	WSW	1	r₀r₀	41	97	40	2	5	-	-	10	10	1500	1	*	Ffbcm	ir₀f r₀f	r₀d₀cff	cmm₀
Croydon	38·0	0	-	0	F	41	97	39	1	-	-	-	10	10	<150	1	*	bcfof	ofoF	oFofoFid of	ofeof
S. Farnborough	38·1	+2	N'E	1	ir₀	45	85	40	4	5	-	-	10	10	1800	0	*	bcxcfcmz₀	czmir₀	cr₀md₀fF	cffwm
Boscombe Down	38·2	+6	N'W	2	d₀d₀	43	92	41	6	5	-	-	10	10	800	0	*	bcbmzcmz	ccid₀m₀	cd₀cfcm	
Thorney Island	37·5	-2	-	0	m	41	92	39	4	5	-	-	4-6	4-6	4000	1		bbcmzw	cmzbcmzw	cm	mw
Lympne	37·1	-4	WNW	1	c/d	39	75	33	7	5	7	-	4-6	10	4500	1	§1	ccy	cycid₀c	od₀d₀cm	dcr₀od₀d₀
Manston	37·1	-4	W	2	z₀	41	85	36	6	5	3	-	2-3	10	2000	1	*	c	cm₀	cfidom	cm₀id₀r
Shoeburyness	37·9	0	NE	1	oft	44	85	41	2	5	-	-	10	10	2500	1	*	cm₀	cf	ofd₀d₀	cfd₀d₀m
Felixstowe	37·0	0	W'N	1	o/d	45	92	43	4	5	-	-	10	10	900	1	1	cm₀c	com₀omd₀	oid₀m₀cm	cmcid₀mcm
Gorleston	36·5	+2	NW'N	2	o/d	46	85	41	6	8	-	-	10	10	1500	1	2	cm₀z₀	cid₀oz₀	cmpr₀or₀	or₀c
Mildenhall	37·2	-2	NW'W	1	F+	43	97	43	1	-	-	-	10	10	<150	1	*	cFcm	cmr₀d₀oF	ofcmcfcm	cm
Cranwell	37·9	+2	NNW	3	m	46	92	44	4	5	7	-	4-6	9+	3200	1	*	cm₀fir₀cf	cfcm	cmcf	cfid₀cm₀
Birmingham	38·9	+4	NW	1	of	44	92	42	3	5	-	-	10	10	1500	1	*	foid₀	off	odof	ocf
Upper Heyford	38·2	+4	NNW	2	f	42	97	41	2	-	-	-	10	10	<150	1	*	ofecf	ofd₀f	obcof	ofidof
Ross-on-Wye	38·6	+4	WNW	1	of	43	92	41	3	5	-	-	10	10	600	1	*	om₀	om₀d₀	om₀	om₀
Hartland Point	38·4	+6	ENE	3	c	47	75	39	7	5	-	-	9+	9+	2500	0	3	bcc	cbcc	cbcc	c
Bristol	39·0	+2	NNE	1	cf	43	92	41	3	5	-	-	9+	9+	2800	1	*	cfbcf	bcfcmf	cf	cf
Portland Bill	37·8	+12	N	2	c-bc	43	85	38	7	5	-	-	7-8	7-8	4000	1	3	c	c	o	co
Plymouth	38·4	+8	ENE	2	z₀	43	85	37	5	-	-	8	0	2-3	-	0	2	cm₀c	cbcm₀	cm₀	cm₀
The Lizard	36·8	+4	ENE	5	c-bc	47	75	40	8	3	4	-	7-8	7-8	1500	0	4	bcc	c	cbcc	cbcco
Scilly (St. Mary's)	37·0	+8	NE'E	4	c	46	75	39	7	8	-	5	7-8	9+	1500	1	3	bcc	c	cbcc	cbcc
Guernsey																					
Pembroke	39·6	+2	NE'E	3	bc	45	85	41	7	-	4	-	0	4-6	-	0	2	bcm₀	bc	cbcc	cw
Holyhead (Valley)	39·6	+2	-	0	m	46	97	45	4	5	-	-	10	10	3000	1	1	cm₀fc	cfgm₀m	cfr₀fg	cmom
Chester (Sealand)	39·0	+4	-	0	m	45	92	44	4	5	-	-	10	10	3000	1	*	mc	cmm	cmw	cmwf
Manchester	39·4	+4	S'E	1	f-	42	97	41	2	-	-	-	10	10	<150	1	*	cFF	ofFF°	ffFF	FF
Spurn Head	37·7	-2	WNW	2	z₀	46	92	44	5	5	-	-	10	10	2500	0	3	om₀	om	om₀	r₀r₀c
Catterick	39·0	+4	NW	1	z₀	46	85	42	5	5	2	-	7-8	10	2800	1	*	cmcm₀	cz₀m₀	cz₀	cz₀
Tynemouth	38·1	+4	W	3	z₀	48	85	44	5	5	-	-	9+	9+	2500	1	3	cm	cm₀	cm₀c	co
St. Abbs Head	37·2	0	WNW	2	c	48	92	46	6	5	-	-	10	10	1500	0	3	cm₀	cm₀	cm₀	cm₀
Leuchars	38·6	+10	-	0	c	46	85	42	7	5	-	8	7-8	9	3000	0	*	c₀	cm₀c	ccm₀c	c
Renfrew (Abbots I.)	39·2	+6	WNW	2	c	47	85	42	7	5	-	-	10	10	2500	1	*	cmcm₀	cm₀c	ccm₀	cm₀ccm₀
Eskdalemuir	39·1	+4	-	0	c	44	75	38	6	5	-	-	10	10	1500	1	*	c	cr₀z₀	com₀	om₀
Point of Ayre	39·3	0	NNE	3	c	50	85	46	8	5	1	*	7-8	10	2000	0	3	c	c	c	c
Tiree	40·1	+2	WNW	2	c	47	85	42	9	5	-	2	9	9+	4500	1	1	o	c	c	c
Stornoway	39·4	+8	W	1	c-bc	45	97	45	8	5	3	2	4-6	7-8	2500	1	-	cid₀cjp	bcc	cbbo	cid₀c
Dalwhinnie	39·0	+2	NW	1	o	43	92	41	8	5	-	-	10	10	1500	1	*	oco	oid₀		oid₀
Aberdeen	36·0	+12	NW	3	c	49	75	42	8	5	-	-	9	9	3000	1	2	c	c	cir₀bc	cbcc
Wick	37·2	0	NW	3	d₀d	48	92	46	7	5	2	-	7-8	10	900	1	*	cmdd₀c	cd₀md	cid₀c	c
Sumburgh	34·4	+10	NW	6	d₀d₀°	48	92	46	7	5	-	-	10	10	1000	1	3	c,cd₀d₀	cd₀d₀	c	cid₀
Blacksod Point	39·3	-2	-	0	b	44	85	40	8	5	-	-	Tr	Tr	4000	0	2	b	b	c	c
Malin Head	40·2	+4	N'E	1	c	49	65	39	8	5	-	-	9+	9+	2500	1	1	c	c	c	c
Aldergrove	40·5	0	-	0	c	45	92	43	8	5	-	-	10	10	3900	1	*	c	c	c	c
*Birr Castle	39·6	+2	N	1	c	42	92	40	7	5	-	-	10	10	2500	1	*	c	c		c
Valentia Obsy.	37·9	+6	E'S	4	c	49	75	42	8	5	-	-	10	10	2500	1	3	bc	bc	bc	c
Roches Point	38·8	+2	E	3	bc	45	85	41	8	5	-	5	1	4-6	2500	1	3	bc	bc	c	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 25th November, 1942.

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands	Moderate northerly wind; cloudy; local slight rain or drizzle; moderate or poor visibility; rather cold.
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	Light to moderate northeast wind in South, westerly in North; cloudy; moderate to good visibility; rather cold.
16 Orkneys and Shetlands, 17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland, 20 S. W. Ireland	As 4-15.

GENERAL INFERENCE

An anticyclone centred over Northern Ireland is almost stationary. Weather will be cloudy in all districts with occasional light rain or drizzle in East and Southeast England and the Midlands. It will be rather cold.

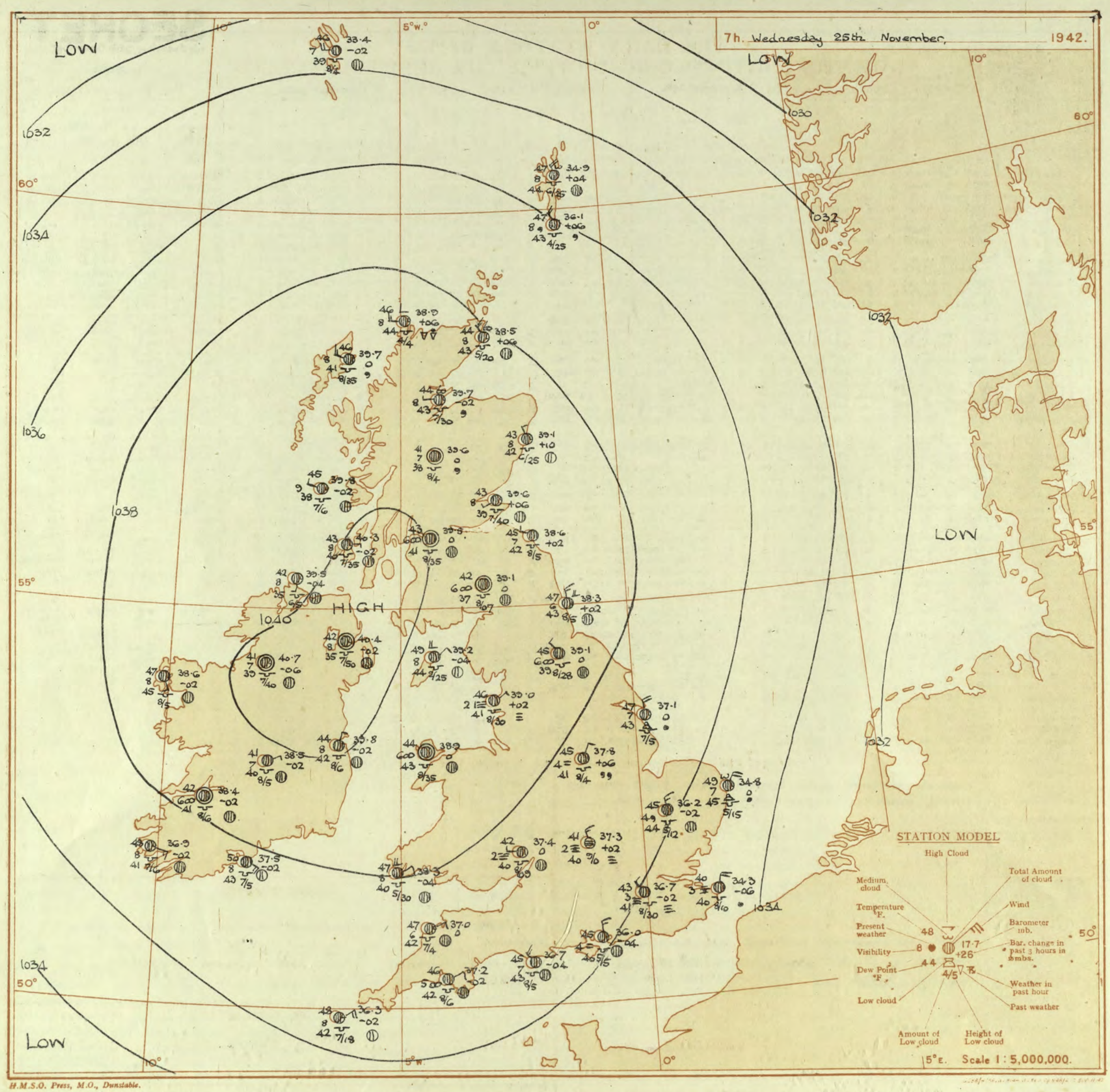
FURTHER OUTLOOK

Little change.

Forecasts issued at 10.30

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

7h. Wednesday 25th November, 1942.



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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

BRITISH SECTION

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

Wednesday 25th November 1942

No. 29588

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	*	*	*	*	*	45	*	*	*	*	*	*	*	*	*
	Croydon	290	37·2	-2	-	0	of	42	97	42	2	-	-	-	10	10	<150
	S. Farnborough	226	37·4	-4	-	0	cF	42	97	41	1	5	-	-	10	10	1200
	Boscombe Down	417	37·7	-6	N	2	m	41	97	40	4	5	-	.	4-6	4-6	3000
	Thorney Island	10	37·0	-4	N	3	m	44	92	42	4	5	-	.	10	10	1500
	Lympne	283	36·3	-10	NW	2	m	42	97	42	4	5	7	-	2-3	10	800
	Manston	154	35·4	-10	N	3	m/f	46	97	45	4	5	-	-	10	10	3000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	36·0	-6	NW	2	m	46	92	43	4	5	-	-	10	10	3700
	Gorleston	5	35·7	-6	NNW	3	r0r0	46	92	44	6	6	-	.	10	10	800
	Mildenhall	15	36·9	-6	NNW	2	m	43	97	42	4	5	-	.	10	10	4000
	Cranwell	203	37·8	-2	NNW	2	cf-	44	92	42	3	5	-	-	10	10	5000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	38·2	0	NNW	3	of	42	97	41	2	-	-	.	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	38·1	-2	NNE	2	c	47	85	43	7	5	-	-	9	9	2500
	Bristol	209	38·7	-4	-	0	cf	43	97	42	3	5	-	-	10	10	800
	Portland Bill	32	37·0	-2	NW	2	o	44	92	42	6	5	-	-	10	10	2500
	Plymouth	82	38·3	-4	-	0	z0	44	92	42	6	5	-	.	10	10	3000
	The Lizard	240	37·4	-4	NE'E	3	e	47	85	43	8	8	2	-	9	10	1500
	Scilly (St. Mary's)	163	36·8	-6	E'N	4	c	47	85	43	7	5	-	-	9+	9+	1400
	Guernsey	175															
6	Pembroke	142	39·0	0	E'N	2	e	44	85	43	7	7	3	-	7-8	9+	4000
7	Holyhead (Valley)	32	39·3	-2	NNW	1	c	46	92	44	8	5	-	-	10	10	2900
	Chester (Sealand)	16	39·2	+2	-	0	m	44	97	43	4	5	-	-	10	10	2500
8	Manchester	235	39·5	+2	S'W	1	oF	41	97	40	1	-	-	-	10	10	<150
10	Spurn Head	29	37·1	-6	NW	3	d.d0	46	92	44	6	5	-	-	10	10	2500
	Catterick	175	39·2	+2	NW	1	z0	46	75	39	6	5	-	-	10	10	3000
	Tynemouth	108	38·0	-2	NNW	3	e	48	85	44	7	5	-	-	9+	9+	2500
11	St. Abbs Head	280	37·6	+2	WNW	1	c	48	85	45	7	5	-	.	10	10	2500
	Leuchars	36	39·0	0	SW	1	c	42	85	39	7	5	-	.	9+	9+	7000
12	Renfrew (Abbots I.)	19	39·5	0	-	0	z0	46	85	42	6	5	-	-	10	10	3500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	38·9	+4	NNE	3	•c	50	75	41	8	•S	2	-	2-3	10	4000
13A	Tiree	44	40·0	-6	WSW	1	c	46	85	41	9	5	-	-	9+	9+	4000
13B	Stornoway	15	39·9	-4	-	0	c	44	97	44	8	5	-	-	9+	9+	3500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	38·6	-2	NW	2	id0	45	92	43	7	5	-	-	9+	9+	3500
	Wick	114	37·7	0	WNW	3	e/d	47	92	46	8	8	3	-	4-6	9+	2000
16	Sumburgh	19	35·0	+6	NW'W	5	e	50	75	42	8	5	-	-	4-6	10	2500
17	Blacksod Point	18	39·3	-4	S	2	c	46	92	44	8	5	-	-	9	9	2500
18	Malin Head	84	39·8	-8	SW	2	c-bc	43	75	36	8	5	-	-	7-8	7-8	2500
	Aldergrove	268	40·8	0	-	0	c	42	92	40	7	5	-	-	9+	9+	3000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	37·5	-2	E'S	2	e	48	75	40	8	5	-	-	9	9	4000
	Roches Point	22	38·9	-4	E	3	bc	46	85	42	8	5	-	-	4-6	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 25th 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 24th Hrs. (38)
London (Kew)	36·1	-2	N	3	z0	46	85	42	5	5	-	.	9+	9+	1500	1	*	45	41	36	Tr	0·2	0·0
Croydon	36·7	-2	NW	1	cf	43	92	41	3	5	-	-	10	10	600	1	*	41	37		-	0·1	0·0
S. Farnborough	36·4	-2	N	1	m/f	43	85	40	4	5	-	-	10	10	1000	1	*	47	41	38	Tr	0·1	0·0
Boscombe Down	37·1	-2	N'W	2	cf-	42	92	40	3	5	-	.	9+	9+	3000	0	*	47	38	30	Tr	Tr	2·1
Thorney Island	36·0	-4	N	3	m	45	85	40	4	5	-	-	7-8	10	2500	1	*	47	39	34	-	Tr	*
Lympne	34·9	-6	N'W	3	d0d0	44	97	43	4	5	-	-	10	10	200	1	§1	43	33	38	Tr	0·2	0·6
Manston	34·3	-6	N'E	4	df	40	97	40	3	5	-	-	10	10	1000	1	*	44	40	39	-	0·4	1·0
Shoeburyness	35·3	-2	N	2	d.d.	45	92	43	4	5	-	.	10	10	2500	1	*	46	43	41	Tr	0·3	0·6
Felixstowe	34·8	-2	NW'N	3	e/d	46	97	45	5	5	7	-	4-6	10	2500	1	2	47	44	43	Tr	0·5	1·0
Gorleston	34·8	0	NNE	4	c	49	85	45	7	8	3	.	7-8	9	1500	1	3	48	45	43	Tr	2	0·3
Mildenhall	36·2	-2	NNW	3	id0	45	97	44	4	5	-	-	7-8	10	1200	1	*	45	40	31	0·3	Tr	0·0
Cranwell	37·3	-2	NNW	3	z	44	92	42	5	5	7	-	7-8	10	3500	1	*	47	43	42	Tr	0·2	0·0
Birmingham	38·0	0	NNW	2	cf	43	97	42	3	5	-	-	10	10	1500	1	*	45	42	40	0·1	0·4	0·0
Upper Heyford	37·3	+2	N'W	3	df	41	97	40	2	-	-	-	10	10	<150	1	*	43	39	34	0·4	Tr	*
Ross-on-Wye	37·4	0	W	1	cf	42	92	40	2	5	-	-	10	10	900	1	*	44	41	38	Tr	-	0·0
Hartland Point	37·0	0	ENE	2	e	47	85	42	6	5	-	.	9+	9+	1500	0	2	47	45	40	-	-	2·3
Bristol	37·8	-2	N	1	cf	43	92	41	3	5	-	-	10	10	2400	1	*	46	41	37	-	-	0·0
Portland Bill	36·7	-4	NW	3	o	45	92	43	7	5	-	-	10	10	2500	1	3	47	40	*	-	-	*
Plymouth	37·2	-2	ENE	2	z0	46	85	42	5	5	-	-	10	10	3500	0	1	48	41	31	-	-	1·7
The Lizard	36·2	-8	NE	4	o	45	92	43	6	5	-	.	10	10	1500	0	4	48	41	*	-	-	1·2
Scilly (St. Mary's)	36·3	-2	ENE	4	c	48	75	42	8	5	.	-	9+	9+	1800	0	4	53	45	*	-	.	5·9
Guernsey																							
Pembroke	38·3	-4	ENE	2	c	47	75	40	8	5	2	-	7-8	10	3000	0	2	49	40	*	-	Tr	4·3
Holyhead (Valley)	38·9	0	-	0	z0	44	97	43	6	5	-	.	10	10	3500	1	1	48	44	42	-	Tr	*
Chester (Sealand)	38·8	+2	NW	1	cf+	43	97	42	3	5	-	-	10	10	2500	1	*	46	43	42	-	-	0·0
Manchester	38·8	-2	-	0	F	40	97	39	1	-	-	-	10	10	<150	1	*	42	40	39	-	-	*
Spurn Head	37·1	0	N'W	4	e	47	85	43	7	8	-	-	9+	9+	2500	1	3	48	43	*	Tr	0·5	0·0
Catterick	39·1	0	NW	1	z0	45	75	39	6	5	-	-	10	10	3500	1	*	49	44	42	-	-	0·0
Tynemouth	38·3	+2	NNW	3	o	47	85	43	6	-	2	-	10	10	2500	1	3	48	46	44	-	-	*
St. Abbs Head	38·6	+2	WNW	2	c	45	92	42	7	5	-	-	10	10	2500	0	3	50	44	*	-	-	*
Leuchars	39·6	+6	SW	1	c	43	85	39	8	5	-	-	9+	9+	4000	0	*	50	40	31	-	-	0·0
Renfrew (Abbots I.)	39·5	0	-	0	z0	43	92	41	6	5	-	-	10	10	3500	1	*	50	43	41	-	-	0·0
Eskdalemuir	39·1	0	-	0	z0	42	85	37	6	5	-	.	10	10	700	1	*	47	40	39	Tr	-	0·0
Point of Ayre	39·2	-4	NE	2	c	49	85	44	8	5	2	.	1	10	2500	0	2	50	48	*	-	.	0·0
Tiree	39·8	-2	W'N	2	c	45	75	38	9	5	-	.	9+	9+	4000	0	1	50	44	*	-	-	0·0
Stornoway	39·7	0	WNW	3	c	46	85	41	8	5	-	-	10	10	3500	1		51	41	34	Tr	Tr	0·8
Dalwhinnie	39·6	0	-	0	o	41	92	38	7	5	-	-	10	10	1500	1	*	46	40	35	Tr	0·1	0·0
Aberdeen †	39·1	+10	NW'N	2	c	43	97	42	8	5	-	-	9	9	2500	1	2	50	43	40	-	Tr	0·0
Wick	38·5	+6	NW	3	c	44	97	43	8	5	7	-	7-8	9+	2000	1	*	50	44	42	Tr	0·2	*
Sumburgh	36·1	+6	NW	4	id0	47	85	43	8	5	-	.	4-6	10	2500	1	3	50	47	45	0·4	Tr	0·0
Blacksod Point	38·6	-2	SSE	2	e	47	92	45	8	5	-	.	10	10	2500	1	2	52	39	*	-	-	*
Malin Head	39·5	-4	S'W	1	e	42	75	35	8	5	-	.	9	9	2500	1	2	50	38		-	-	0·0
Aldergrove	40·4	-2	-	0	c	42	75	35	8	5	-	-	9+	9+	5000	1	*	47	42	37	Tr	-	0·0
Birr Castle	38·5	-2	ENE	1	e	41	97	40	7	5	-	.	10	10	2500	1	*	44	40	38	-	-	0·0
Valentia Obsy.	36·9	-2	ESE	3	c	48	75	41	8	5	-	.	9+	9+	4000	1	3	51	46	41	Tr	-	1·3
Roches Point	37·5	-2	ESE	3	e	50	75	43	8	5	-	-	9+	9+	2500	1	3	51	42	*	-	.	*

Abridged observations of additional stations in the AVIATION WEATHER-CODE

III	13h. G.M.T. 24th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 25th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	57	27746	26557	5-	51645	28555	52	21747	26428	5-	02756	24856
115				52	10844	24487	57	02846	28386	51	23844	24387
203	5-	02947	24427	50	02945	24325						
206	5-	02964	24127	5-	02868	26228	57	02965	24158	57	02867	24157
210	5-	51867	23367	5-	22867	26367	5-	51867	25257	5-	22757	24257
220	51	02845	22318	51	02645	33118				52	02744	00028
230	5-	02967	28357	52	02857	26328	5-	02868	24128	5-	02968	00028
245	5-	02967	22127	5-	02963	23125	5-	02967	22117	57	21964	22256
260	5-	08468	24228	5-	44468	00048	--	47367	20447	53	05665	20128
278	5-	-2867	28257	5-	02768	25128	5-	02868	28228	5-	02858	00028
279	57	08465	18147	5-	47368	00028	5-	45277	00047	5-	47267	00447
285	5-	03748	30328	5-	03748	30328				5-	03748	32228
288	5-	05668	18228	5-	08468	27228	5-	45368	26248	5-	17468	28248
575	5-	05867	00027	50	02861	00024	5-	02767	00027	5-	02767	00027
301	5-	43258	12148	5-	43268	12148	5-	47268	00048	5-	47268	04148
321	57	45264	28247	5-	47368	00048	53	45358	28248	5-	05658	31328
299	50	05547	30227	5-	05548	30228	5-	05658	28228	5-	02747	30527
292	5-	05558	26128	5-	05568	27128	57	05666	28228	57	05565	28228
310				--	02636	32424						
614	72	05555	32147	5-	45368	30148	5-	47368	28148	5-	21448	02258

III	13h. G.M.T. 24th November $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 25th November $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	5-	09878	00028	5-	09668	00028	5-	51058	00028	5-	02768	00028
334												
340	5-	08457	00047	5-	45309	00049	--	46209	29149	--	48109	31149
136	5-	57328	25158	57	05555	25357	5-	05567	31327	5-	22637	32468
336				57	05645	32328				57	05654	32328
350	5-	21448	25158	57	43264	28146	5-	05685	27218	52	32446	32358
368	5-	05667	08237	5-	05668	00028	5-	05578	00028	5-	05568	00028
379	5-	08438	32268	6-	45228	32248	5-	45358	32248	5-	45358	02548
390	57	05553	32247	5-	45338	32158	5-	45468	28148	5-	57358	28248
382				5-	22348	02158	5-	43268	00048	5-	45358	01248
438	57	01854	06215	57	02654	30217	52	08437	04428	52	08446	32427
430	53	05653	04127	07	05530	00027	5-	08427	32227	5-	08448	32128
409	50	02765	06325	04	01790	04303	5-	02767	03227	5-	05668	06228

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 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 *	FFbcf	ir0 Fr0f	r0d0cffm
Croydon	bcfof	ofoF	ofofcf
Greenwich	cff	cff	Frcm
Camden Square	c	c	*
Kensington	bcz	bcz	*
Hampstead	bc	od	od

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. Time 1·5 17-20hrs 24th. Min. Time 0·1 0-2hrs 25th.

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	41	36	Tr	0·2	0·0	*	*
Croydon	41	37		-	0·1	0·0	*	*
Greenwich	45	44	40	-	0·3	0·0	85	91
Westminster	47	45	40		0·1	*	100	91
Regents Park								
Camden Square	45	45	35	-	Tr	*	*	91
Kensington	47	43	39	Tr	Tr	*	78	91
Hampstead	45	42	39	Tr	Tr	*	*	95

Page 1 **BRITISH SECTION**

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

SECRET

Thursday 26th November. 1942

No 29589

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)	35·9	-6	N'E	3	c/d	47	85	44	6	6	2	-	7·8	10	1500
	Croydon	35·5	-6	N'E	3	c/d	48	85	43	4	5	-	-	10	10	1200
	S. Farnborough	36·0	-6	NNE	3	z_0	48	75	42	6	5	-	-	10	10	1100
	Boscombe Down	36·4	-8	NNE	3	z_0	46	85	42	6	5	7	-	7·8	10	2000
	Thorney Island	34·8	-10	NNE	5	z_0	49	85	44	6	5	3	-	1	9+	4000
	Lympne	33·9	-10	N'E	4	c	47	85	44	8	5	-	-	9	9+	1100
	Manston	33·9	-6	NE'N	4	bc	49	85	46	8	5	3	-	2·3	4·6	1500
2	Shoeburyness	35·1	-12	N'E	2	id_0	47	92	45	7	5	-	-	10	10	1500
	Felixstowe	35·0	-4	N'E	3	id_0	49	85	44	6	8	-	-	7·8	7·8	4000
	Gorleston	35·4	0	NE'N	3	c/pr	47	92	45	7	8	-	-	9	9	1000
	Mildenhall	35·8	-8	NE'N	3	cjp	48	92	45	8	8	-	-	9+	9+	1500
	Cranwell	37·2	-8	N	3	c/d	47	92	45	6	5	-	-	9+	9+	3400
3	Birmingham	37·5	-2	NNE	2	m	47	75	39	4	5	7	-	9+	10	1500
	Upper Heyford	36·7	-6	N'E	3	z_0	47	85	43	6	7	-	-	4-6	9+	900
4	Ross-on-Wye	37·3	-6	NE'N	4	c	47	75	38	6	8	-	-	10	10	1000
5	Hartland Point	36·5	-6	NE	3	c	47	85	42	7	5	-	-	9+	9+	2000
	Bristol	37·5	-6	E'N	1	of-	47	85	42	3	5	-	-	10	10	2500
	Portland Bill	35·6	-6	NE	3	o	46	92	44	7	5	-	-	10	10	2500
	Plymouth	36·7	-6	NE	4	z_0	49	65	38	7	5	-	-	7·8	7·8	4000
	The Lizard	35·9	-8	NE	4	c	49	75	40	7	5	2	-	7·8	10	1500
	Scilly (St. Mary's)	35·6	-8	ENE	3	c	51	65	41	8	5	-	-	9+	9+	1600
	Guernsey															
6	Pembroke	38·2	-4	ENE	3	c	48	75	40	7	5	-	-	10	10	3200
7	Holyhead (Valley)	39·1	-2	E	2	c	49	65	38	7	5	-	-	9+	9+	4000
	Chester (Sealand)	39·1	0	N'E	1	c	46	85	43	4	5	-	-	9+	9+	3500
8	Manchester	39·2	-6	N'W	3	of	46	85	40	3	5	-	-	10	10	2500
10	Spurn Head	37·3	0	N'W	4	c	47	85	43	7	7	-	-	9+	9+	1500
	Catterick	39·4	-6	NW	2	m	47	85	42	4	5	-	-	10	10	1800
	Tynemouth	38·9	-4	NNW	3	c	47	85	43	6	5	-	-	9+	9+	1800
11	St. Abbs Head	39·0	0	NNW	3	c	46	92	44	7	5	6	-	7·8	9+	2500
	Leuchars	39·9	+2	-	0	z_0	46	85	41	6	5	-	-	10	10	4500
12	Renfrew (Abbots I.)	40·2	-2	-	0	c	47	65	36	7	5	-	-	10	10	3500
	Eskdalemuir	39·8	0	NW'N	2	c	44	65	34	8	5	-	-	9+	9+	2500
	Point of Ayre	39·7	0	E'N	2	c	49	85	45	8	5	2	-	4-6	10	2000
13A	Tiree	40·1	0	SW	1	cbc	49	65	38	9	7	-	-	7·8	7·8	6000
13B	Stornoway	39·6	+2	SW	2	c	46	85	44	8	5	-	-	9+	9+	3500
15	Dalwhinnie	40·1	+2	NE	1	c	41	85	36	8	5	-	-	9	9	2500
	Aberdeen	39·9	+6	NW'W	2	c	47	75	40	7	5	-	-	10	10	3500
	Wick	38·8	0	W'S	3	c/d	45	97	45	8	5	7	-	7·8	9+	2000
16	Sumburgh	36·2	-2	W'N	5	c	48	75	41	9	5	-	-	10	10	3000
17	Blacksod Point	38·6	-2	SE	3	bc	49	85	45	8	5	3	-	2-3	4-6	2500
18	Malin Head	39·7	-2	S'E	1	bc	50	65	39	8	5	-	-	4-6	4-6	2500
	Aldergrove	40·6	-4	-	0	c	46	65	35	9	5	-	-	9+	10	3500
19	*Birr Castle	38·6	-2	E	1	c	47	85	43	7	5	2	-	7·8	10	2500
20	Valentia Obsy.	36·6	-2	ESE	3	c	51	75	43	8	5	-	-	9+	9+	2500
	Roches Point	37·2	-2	E	3	c	48	85	44	8	5	-	-	9+	9+	1500

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)	36·2	+4	NNE	3	z_0	47	85	43	5	5	-	-	10	10	1500	1	*
Croydon	36·0	0	NE'N	3	of	47	85	43	3	5	-	-	10	10	2300	1	*
S. Farnborough	36·3	+2	NNE	3	z_0	47	85	42	5	5	-	-	10	10	1000	0	*
Boscombe Down	36·2	0	N'E	2	c/d	45	92	42	6	5	-	-	7·8	10	800	0	*
Thorney Island	35·4	+6	NNE	2	z_0	47	85	44	5	5	-	-	9	9	3800	0	
Lympne	34·8	+2	NNW	2	z_0	44	92	42	6	5	-	-	4·6	4·6	2500	1	§
Manston	34·9	+2	NNE	3	id_0	47	92	45	7	5	-	-	7·8	9+	2100	1	*
Shoeburyness	35·5	+8	N'E	3	cbc/d	45	92	43	6	5	3	-	2·3	7·8	1500	1	*
Felixstowe	35·5	+2	NNW	3	z_0	45	92	44	6	5	-	-	4-6	4-6	5700	1	2
Gorleston	35·3	+2	N'E	3	id_0	47	85	44	6	6	-	-	10	10	800	1	
Mildenhall	36·5	+6	N	2	id_0	45	97	44	7	5	-	-	7·8	9	900	1	*
Cranwell	37·5	+2	N	2	z_0	44	97	43	6	5	-	-	4-6	10	1600	1	*
Birmingham	37·3	0	NNE	2	m	45	85	41	4	5	-	-	10	10	1500	1	*
Upper Heyford	36·6	-2	NNE	3	z_0	45	85	41	6	5	-	-	10	10	2700	1	*
Ross-on-Wye	37·3	0	NE	3	of	40	45	20	3	5	-	-	10	10	1000	1	*
Hartland Point	35·8	+2	NE	4	c	48	75	39	6	5	-	-	9+	9+	2500	0	3
Bristol	37·1	+2	NE	2	m	45	92	42	4	5	-	-	10	10	3100	1	*
Portland Bill	34·8	+2	N	4	c	46	92	44	7	5	-	-	9	9	4000	1	4
Plymouth	36·1	+2	ENE	3	z_0	48	75	41	5	5	-	-	10	10	4000	0	2
The Lizard	35·2	0	NNE	3	c	47	85	42	7	5	2	-	9	10	1500	0	4
Scilly (St. Mary's)	35·3	-2	NE'E	3	c	48	65	36	7	5	-	-	9+	9+	1600	0	3
Guernsey																	
Pembroke	37·7	-2	NNE	3	c	47	75	40	7	8	-	-	10	10	2000	0	2
Holyhead (Valley)	39·0	+2	E	1	z_0	46	75	39	6	5	-	-	10	10	3300	1	1
Chester (Sealand)	39·1	+4	N'W	3	m	45	75	38	4	5	-	-	10	10	3000	0	*
Manchester	39·0	+2	NE'N	3	m/f	44	75	38	4	5	-	-	10	10	2400	1	*
Spurn Head	37·5	0	N'E	4	cbc	46	92	43	7	8	3	-	4·6	7·8	1500	1	3
Catterick	39·3	-2	NNW	2	z_0	44	85	40	5	5	-	-	10	10	2800	1	*
Tynemouth	39·0	0	NNW	3	o	46	85	42	6	5	-	-	10	10	2500	1	3
St. Abbs Head	38·8	0	NNW	2	c	46	85	41	7	5	-	-	10	10	2500	0	2
Leuchars	39·6	+2	NW	1	c	44	75	36	7	5	-	-	10	10	2800	0	*
Renfrew (Abbots I.)	39·9	+2	E'S	1	z_0	45	75	36	5	5	-	-	10	10	3500	1	*
Eskdalemuir	39·8	+4	-	0	c	41	75	33	8	5	-	-	10	10	2200	1	*
Point of Ayre	39·3	0	ESE	3	c	48	75	43	7	5	2	-	7·8	10	3000	0	3
Tiree	39·9	0	SSW	1	c	45	75	36	9	5	-	-	10	10	4000	0	1
Stornoway	39·3	+2	WSW	2	c	45	92	43	8	5	-	-	10	10	3500	1	
Dalwhinnie	39·6	-2	N	1	o	39	85	34	7	5	-	-	10	10	2500	1	*
Aberdeen	38·9	-2	NW	1	of+	45	85	39	3	5	-	-	10	10	3500	1	1
Wick	37·8	-6	W'S	2	c	44	85	40	8	5	7	-	7·8	10	2000	1	*
Sumburgh	35·9	-2	WNW	3	ir_0	47	85	43	8	5	-	-	10	10	2500	1	
Blacksod Point	38·1	-2	SE	1	c	47	92	45	8	5	-	-	9+	9+	4000	1	2
Malin Head	39·9	+4	SE	2	cbc	43	75	35	8	5	-	-	7·8	7·8	2500	1	1
Aldergrove	40·5	+6	-	0	c	43	85	38	8	5	-	-	10	10	3500	1	*
*Birr Castle	38·2	+4	SSE	1	c	44	85	40	7	5	-	-	10	10	2500	1	*
Valentia Obsy.	36·3	+6	E'S	4	o	50	65	39	8	5	-	-	10	10	4000	1	2
Roches Point	36·9	+2	E'N	4	c	49	75	41	8	8	-	-	9+	9+	1500	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)	$ir_0d_0m_0$	$ir_0r_0cm_0$	$cbcm_0$	$bccm_0$
Croydon	cm_0d_0	dof	$cmcm_0$	cm_0cm
S. Farnborough	$cmid_0ir_0m_0$	cd_0m_0	cid_0m_0	cm_0
Boscombe Down	cid_0cm_0	cm_0id_0	$cm_0id_0m_0$	cm_0c
Thorney Island	$cmcm_0$	$cbccm_0$	cm_0bm_0	
Lympne	cd_0cm_0c	$bccm_0idc$	$bccm_0id_0$	
Manston	$cm_0d_0d_0c$	bcprc	cm_0id_0	
Shoeburyness	cid_0	id_0cbc	$cbcm_0$	bcm_0bm_0
Felixstowe	cm_0cid_0	$cid_0m_0cm_0$	cm_0bcm_0	$id_0bm_0wbcm_0$
Gorleston	cpr_0c	opr_0id_0	cpr_0c	cpr_0bc
Mildenhall	$cmid_0c$	cid_0	bcm_0f_0idm	$cFcfcid_0m$
Cranwell	cdm_0	$cid_0m_0cm_0$	cm_0fid	$ofidcm_0$
Birmingham	focm	com	$omid_0$	oid_0f
Upper Heyford	id_0fcm_0	cid_0cm_0	$cm_0d_0d_0m_0$	$cd_0cd_0m_0$
Ross-on-Wye	om	om_0om	of	ofom
Hartland Point	c	c	cm_0	d_0c
Bristol	$cfofd_0$	ofcm	$cmid_0d$	cfd_0d_0
Portland Bill	oz_0	c	oc	oc
Plymouth	cm_0z_0	$cbccm_0$	cm_0c	c
The Lizard	oc	coc	coc	cbc
Scilly (St. Mary's)	c	c	c	cbcb
Guernsey				
Pembroke	c	c	c	c
Holyhead (Valley)	cm_0	cm_0	cm_0	c
Chester (Sealand)	cm	cm_0cm	zz_0c	z_0o
Manchester	cff	cff	cm_0ff	cm
Spurn Head	prc	c	c	c
Catterick	cz_0cm_0	$cmcm_0$	cm_0oz_0	oz_0
Tynemouth	om_0c	co	oco	o
St. Abbs Head	cm_0c	c	c	c
Leuchars	cm_0	c	c	cd_0c
Renfrew (Abbots I.)	cf	ccm_0	c	$cm_0f_0gcm_0$
Eskdalemuir	om_0c	c	c	cm_0
Point of Ayre	c	c	c	b
Tiree	c	cbcc	c	c
Stornoway	c	c	c	cir_0c
Dalwhinnie	oid_0c	co	*	oc
Aberdeen	cir_0d_0c	cczcf	c	cbcb
Wick	cid_0c	c	cir_0	c
Sumburgh	cid_0c	cir_0	cid_0c	cir_0ir
Blacksod Point	bc	c	c	c
Malin Head	c	c	c	c
Aldergrove	cv	cvc	c	c
*Birr Castle	c	c	*	c
Valentia Obsy.	bc	c	c	c
Roches Point	c	pr	c	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 26th November 1942.

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Light to moderate north to northwest winds; cloudy, occasional rain or drizzle; moderate to poor visibility; rather cold.
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	Light northerly winds in South, westerly in North; cloudy; moderate to good visibility; rather cold.
13B N.W. Scotland	As 15-16.
14 Mid Scotland	As 5-13A.
15 N.E. Scotland; 16 Orkneys and Shetlands	Moderate westerly wind falling light; cloudy, occasional rain; good to moderate visibility; mild.
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	As 5-13A.

GENERAL INFERENCE

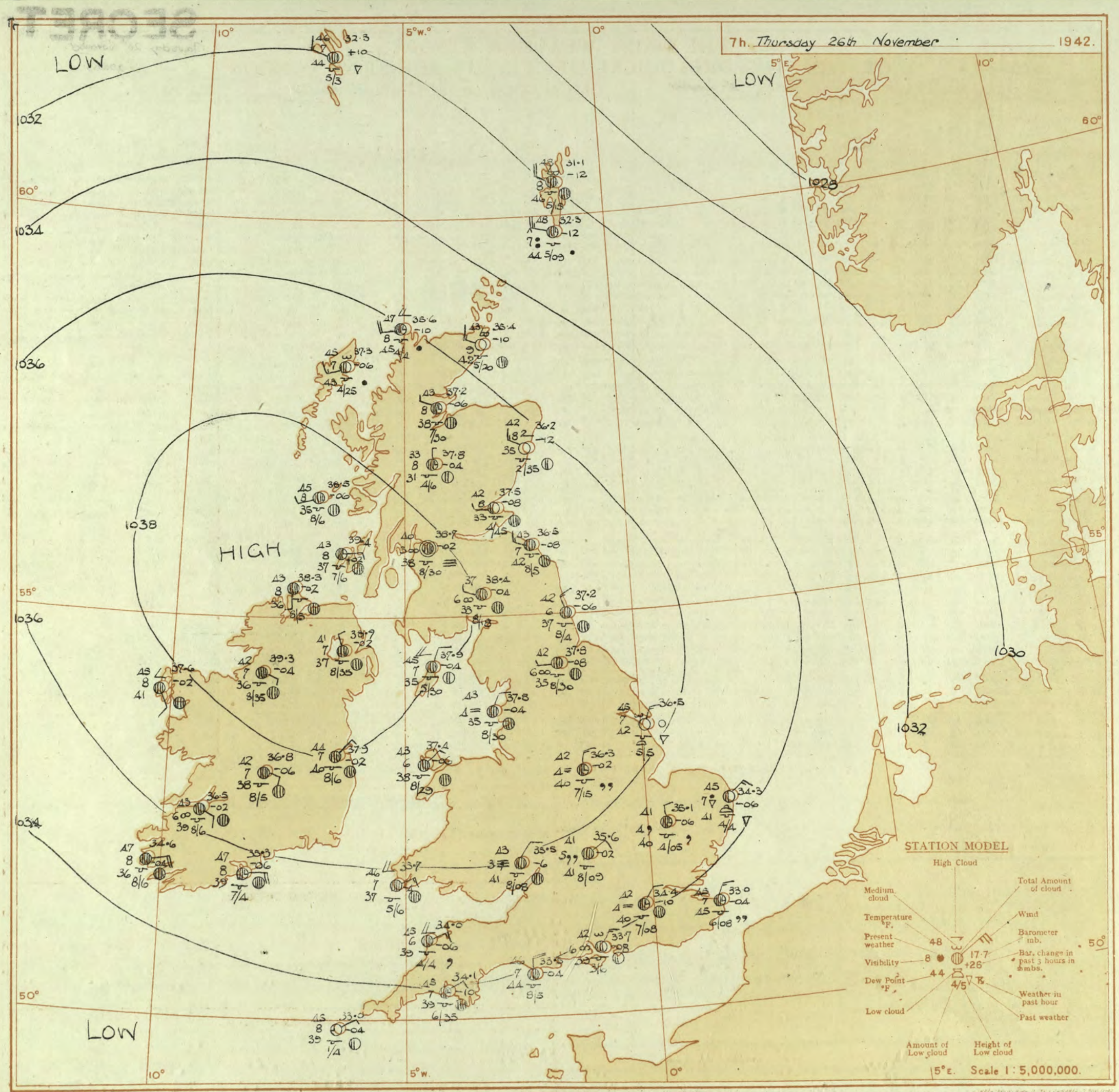
An anticyclone centred over north Ireland is almost stationary whilst another east of Iceland is moving slowly southeast, intensifying. It will be cloudy in all districts with occasional rain in the North, and also in East England and the Midlands. It will be rather cold.

FURTHER OUTLOOK

Cloudy and rather colder.

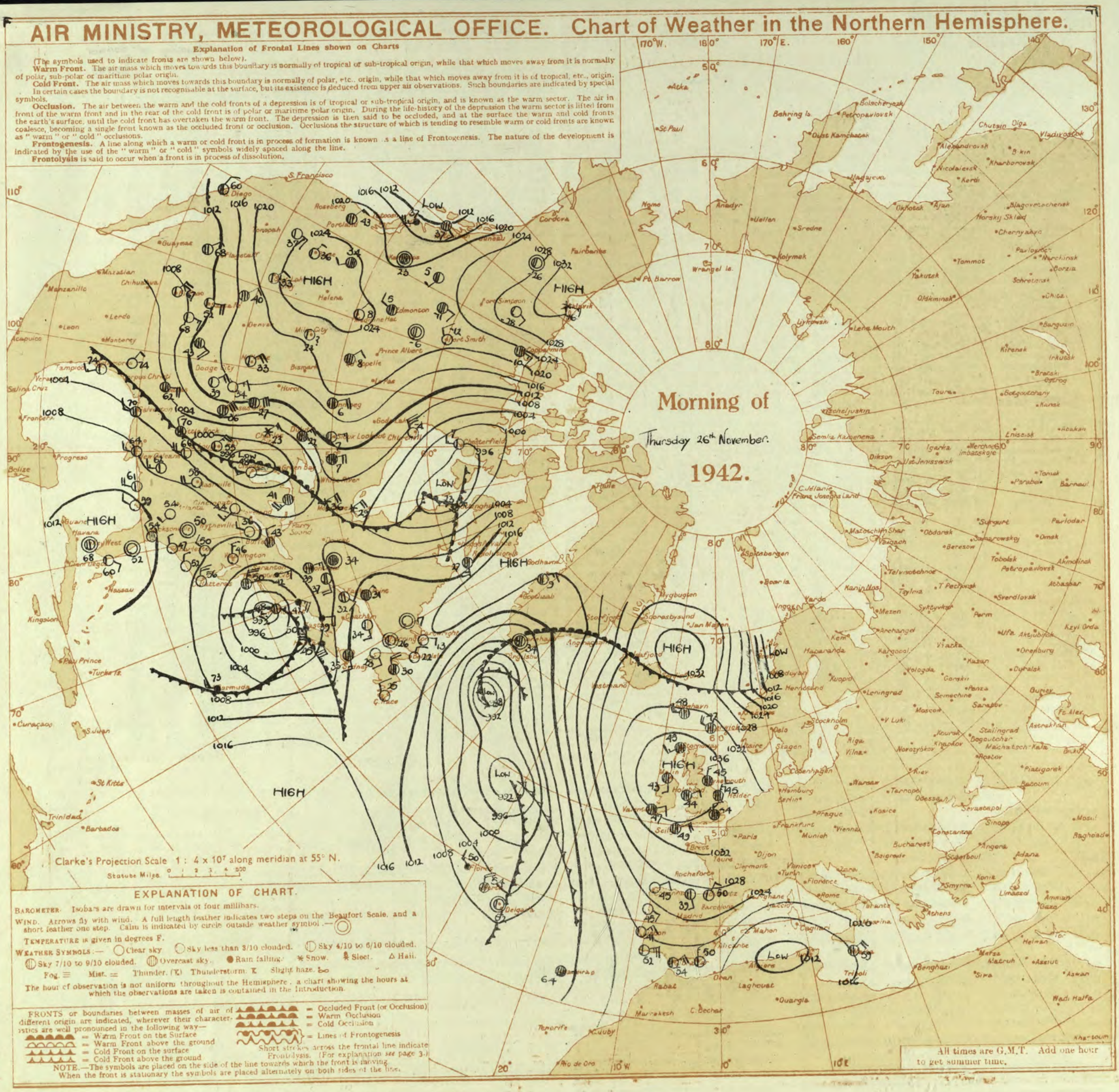
Forecasts issued at 1030

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



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

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



Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

BRITISH SECTION

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

Thursday 26th Novemer 1942

No 29589

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)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	45	*	*	*	*	*	*	*	*	*
	Croydon	290	35·8	-4	NNW	2	z0	44	92	42	5	5	–	–	10	10	1000
	S. Farnborough	226	35·9	-6	NNE	2	z0	44	85	40	6	5	–	–	10	10	1200
	Boscombe Down	417	35·9	-6	N'E	2	z0	43	92	41	6	5	–	–	10	10	1500
	Thorney Island	10	35·0	-6	NNE	3	z0	43	92	40	6	–	3	–	0	2-3	–
	Lympne	283	34·7	-2	N'E	4	id0	44	97	43	6	5	–	–	9+	9+	500
	Manston	154	34·1	-6	N'E	4	z0	46	97	45	6	5	–	–	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	35·2	-6	NW'N	3	z0	43	92	41	6	5	7	–	2-3	4-6	4000
	Gorleston	5	35·3	0	NNE	4	c	46	85	43	7	8	–	–	9+	9+	1500
	Mildenhall	15	36·4	0	NW'N	2	c/d	40	97	40	4	5	–	–	9+	9+	4000
	Cranwell	203	37·2	-4	NNW	2	df	42	97	42	3	5	–	–	10	10	1500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	36·6	-6	NNE	2	d0d0	42	97	42	6	5	–	–	10	10	400
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	35·5	-8	NE	4	c	47	75	39	6	5	2	–	7-8	10	2500
	Bristol	209	36·5	-10	NE	2	d0dm	43	92	42	4	5	–	–	10	10	2000
	Portland Bill	32	34·3	-6	N	4	c	45	92	43	7	5	–	–	10	10	2500
	Plymouth	82	36·0	0	ENE	3	c	46	85	40	7	5	–	–	10	10	3000
	The Lizard	240	34·7	-6	NE'E	4	c	48	88	42	8	8	2	–	9	10	1600
	Scilly (St. Mary's)	163	34·2	-10	ENE	4	c	49	73	41	7	5	–	–	9+	9+	1600
	Guernsey	175															
6	Pembroke	142	37·3	-6	E'N	3	c	46	75	39	7	5	2	–	9+	10	4000
7	Holyhead (Valley)	32	38·5	-6	ENE	1	c	44	75	37	7	5	–	–	10	10	3300
	Chester (Sealand)	16	38·0	-8	N	1	c	44	75	37	5	5	–	–	10	10	2900
8	Manchester	235	38·3	-10	NW	1	m/f	42	85	38	4	5	–	–	10	10	2600
10	Spurn Head	29	37·3	0	NNE	3	c-bc	45	85	42	7	7	3	–	4-6	7-8	2500
	Catterick	175	38·7	-8	NW	2	z0	44	75	37	6	5	–	–	10	10	2700
	Tynemouth	108	39·3	-6	NNW	3	z0	46	85	40	6	5	–	–	10	10	1500
11	St. Abbs Head	280	38·1	-10	WNW	3	c	44	85	39	7	5	–	–	10	10	2500
	Leuchars	36	39·0	-8	WNW	1	c	43	75	37	8	5	–	–	10	10	3000
12	Renfrew (Abbots I.)	19	39·7	-6	–	0	z0	42	85	37	6	5	–	–	10	10	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	39·4	-2	NE'E	3	o	46	75	39	7	5	2	–	7-8	10	3000
13A	Tiree	44	39·6	-4	WNW	1	c	45	75	37	8	5	–	–	10	10	4000
13B	Stornoway	15	38·5	-10	SW	3	c	45	85	41	7	5	–	–	10	10	3500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	37·9	-16	W'N	2	c	43	75	36	8	5	–	–	10	10	3800
	Wick	114	37·2	-6	SSW	1	ir0	44	92	42	9	5	2	–	7-8	10	2000
16	Sumburgh	19	34·5	-10	WNW	4	c/r	47	85	42	8	5	–	–	4-6	9	2500
17	Blacksod Point	18	38·3	-2	SE	2	c	46	92	44	8	8	–	–	9+	9+	2500
18	Malin Head	84	39·4	-6	S	1	c	43	75	36	8	5	–	–	10	10	2500
	Aldergrove	268	39·7	-6	–	0	c	42	85	37	7	5	–	–	10	10	3200
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	36·0	-4	E	2	c	47	75	39	8	5	–	–	10	10	4000
	Roches Point	22	36·4	-6	E's	4	c	48	75	40	8	5	–	–	9+	9+	1500

OBSERVATIONS at 7 hr. 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)	34·6	-12	NNE	2	z0	42	92	40	5	5	–	–	9	9	2500	1	*
Croydon	34·4	-8	NNE	2	m	42	92	40	4	5	–	–	9+	9+	900	1	*
S. Farnborough	34·5	-6	NNE	2	z0	41	92	38	6	5	3	–	9	9+	2000	0	*
Boscombe Down	34·5	-6	NNE	2	c	42	92	40	7	5	–	–	9	9	1800	0	*
Thorney Island	33·7	-8	NNE	3	z0	42	92	39	6	5	3	–	2-3	7-8	4000	1	*
Lympne	33·3	-6	N	3	d0d0	43	97	43	5	5	–	–	10	10	500	1	§3
Manston	33·0	-4	NNE	3	c/d	45	97	45	7	5	–	–	9	9	800	1	*
Shoeburyness	34·0	-6	N	3	z0	39	92	37	6	5	4	–	1	1	4000	1	*
Felixstowe	34·3	-2	NNW	3	z0	40	92	39	6	7	–	–	2-3	2-3	4000	1	2
Gorleston	34·3	-6	NE	3	pr	45	85	41	7	8	–	–	4-6	4-6	1500	1	2
Mildenhall	35·1	-6	N'W	2	id0	41	97	40	4	5	–	–	4-6	9+	500	1	*
Cranwell	36·3	-2	NNW	3	c/d	42	97	42	6	5	7	–	9	9+	2000	1	*
Birmingham	36·5	-4	NNE	2	df	42	97	41	2	6	–	–	10	10	450	1	*
Upper Heyford	36·6	-2	NE	2	d0d0	41	97	41	5	5	–	–	10	10	900	1	*
Ross-on-Wye	35·5	-6	NNE	2	df	43	92	41	3	5	–	–	10	10	800	1	*
Hartland Point	34·0	-6	ENE	3	c	45	85	39	6	5	2	–	4-6	10	1500	0	2
Bristol	35·5	-6	NE	2	df	42	97	42	3	5	–	–	10	10	1500	1	*
Portland Bill	33·5	-4	N	4	c	46	92	44	7	5	–	–	10	10	2500		4
Plymouth	34·1	-10	NE	2	c	45	85	39	7	5	–	–	9	9	3500	0	2
The Lizard	32·8	-8	NE	5	b-bc	46	75	39	8	4	–	–	2-3	2-3	2500	0	4
Scilly (St. Mary's)	33·0	-4	ENE	4	b	45	85	39	8	5	–	–	Tr	Tr	1500	0	3
Guernsey																	
Pembroke	35·7	-4	ENE	3	c	46	75	37	7	5	2	–	7-8	10	4000	0	2
Holyhead (Valley)	37·4	-6	NE	1	c	43	85	38	6	5	–	–	10	10	2900	1	2
Chester (Sealand)	37·2	+2	NNE	2	z0	44	75	37	5	5	–	–	10	10	3000	0	*
Manchester	37·6	-2	NNW	2	m	41	85	38	4	5	–	–	10	10	2500	1	*
Spurn Head	36·5	0	NNE	3	c	45	85	42	7	7	3	–	7-8	9+	2500	1	3
Catterick	37·8	-8	W	1	z0	42	75	35	6	5	–	–	10	10	3000	1	*
Tynemouth	37·2	-6	NNW	3	o	42	85	37	6	5	–	–	10	10	1500	1	2
St. Abbs Head	36·5	-8	WNW	3	c	43	92	42	7	5	–	–	10	10	2500	0	2
Leuchars	37·5	-8	W	1	bc	42	65	33	8	5	–	–	4-6	4-6	4500	1	*
Renfrew (Abbots I.)	38·7	-2	–	0	z0	40	92	38	5	5	–	–	10	10	3000	1	*
Eskdalemuir	38·4	-4	WNW	1	z0	37	85	33	6	5	–	–	10	10	1800	0	*
Point of Ayre	37·9	-4	NNE	2	c	45	65	35	7	5	2	–	7-8	10	3000	0	2
Tiree	38·5	-6	WSW	1	c	45	75	38	8	5	–	–	10	10	4000	1	0
Stornoway	37·3	-6	WSW	3	c-bc	45	92	43	7	5	3	–	4-6	7-8	2500	1	*
Dalwhinnie	37·8	-4	N	1	c	33	92	31	8	5	5	–	4-6	9+	4000	1	*
Aberdeen †	36·2	-12	WNW	3	b-bc	42	75	35	8	5	–	5	1	2-3	3800	1	2
Wick	35·4	-10	WNW	3	c	43	92	42	9	5	7	6	7-8	10	2000	1	*
Sumburgh	32·3	-12	W'N	5	ir	48	85	44	7	5	–	–	7-8	9+	900	1	3
Blacksod Point	37·6	-2	SSE	2	c	45	85	41	8	–	1	–	0	10	–	1	2
Malin Head	38·3	-2	S	1	c	43	75	36	8	5	–	–	10	10	2500	1	2
Aldergrove	38·9	-2	NNW	1	c	41	85	37	7	5	–	–	10	10	3500	1	*
Birr Castle	36·8	-6	ESE	2	c	42	85	38	7	5	–	–	10	10	2500	1	*
Valentia Obsy.	34·6	-4	E'N	4	o	47	65	37	8	5	–	–	10	10	4000	1	3
Roches Point	33·3	-6	E	4	c	47	75	40	8	5	–	–	9+	9+	1500	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 25th Hrs. (38)
London (Kew)	48	40	34	Tr	–	0·0
Croydon	48	42	39	–	Tr	0·0
S. Farnborough	48	40	38	Tr	Tr	0·0
Boscombe Down	47	42	37	Tr	–	0·2
Thorney Island	50	41	37	–	–	*
Lympne	48	43	39	1	1	0·9
Manston	49	45	43	0·2	4	1·6
Shoeburyness	50	38	30	0·1	5	0·1
Felixstowe	50	39	37	Tr	Tr	1·0
Gorleston	50	44	39	0·4	1	1·2
Mildenhall	49	37	30	0·4	0·4	0·0
Cranwell	47	41	38	0·5	1	0·2
Birmingham	47	41	39	–	0·5	0·0
Upper Heyford	47	41	37	0·3	0·1	*
Ross-on-Wye	48	42	40	–	Tr	0·0
Hartland Point	48	45	43	–	Tr	0·0
Bristol	47	42	42	Tr	0·3	0·0
Portland Bill	47		*	–		*
Plymouth	52	44	41	–	–	1·5
The Lizard	49	44	*	–	–	0·0
Scilly (St. Mary's)	51	45	*	–	–	0·0
Guernsey						
Pembroke	48	43	*	Tr	–	0·0
Holyhead (Valley)	49	42	40	–	–	*
Chester (Sealand)	48	43	41	–	–	0·0
Manchester	46	41	39	–	–	*
Spurn Head	48	43	*	0·5	1	0·2
Catterick	47	41	39	–	–	0·0
Tynemouth	48	42	40	–	–	*
St. Abbs Head	46	43	*	–	–	*
Leuchars	46	38	37	–	Tr	0·0
Renfrew (Abbots I.)	47	39	39	–	–	0·0
Eskdalemuir	44	36	35	–	–	0·0
Point of Ayre	49	45	*	–	–	0·0
Tiree	52	44	*	–	–	1·0
Stornoway	47	43	42	–	0·2	0·0
Dalwhinnie	42	33	25	Tr	–	0·0
Aberdeen †	47	42	38	Tr	–	0·2
Wick	48	41	39	Tr	0·6	*
Sumburgh	49	47	45	Tr	1	0·0
Blacksod Point	50	44	*	–	–	*
Malin Head	50	41	*	–	–	0·4
Aldergrove	46	40	39	–	–	0·0
Birr Castle	47	41	39	–	–	0·0
Valentia Obsy.	51	47	45	–	–	3·5
Roches Point	51	47	*	0·1	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 25th November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 26th November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	5-	51867	24157	5-	03868	26358	5-	22865	25365	5-	03858	24468
115				52	02944	26327	52	02844	34427	52	02844	24467
203	53	02954	20328				57	02954	16328			
206	5-	02978	24228	5-	02868	24258	5-	02868	26228	5-	02867	26127
210	5-	02968	22258	5-	02868	27228	5-	02858	21228	51	51865	22357
220				52	02453	00018				52	02754	23118
230	5-	02968	00028	5-	02868	00028	5-	02868	00028	5-	02868	00028
245	5-	02957	26227	5-	02868	22128	57	02966	26128	57	02963	26125
260	5-	05668	30228	5-	08458	24128	5-	05658	24228	5-	51657	20257
278	5-	02868	26128	5-	02768	08228	5-	05668	00028	5-	02768	17128
279	5-	08468	00048	5-	05658	32228	5-	43368	00048	5-	05668	06348
285										5-	05628	32328
288	--	08467	30327	5-	08458	31228	5-	05558	27327	5-	05568	26328
575	5-	02867	00027	5-	01768	06228	5-	02768	-----	5-	02768	10128
301	5-	08468	04148	5-	08468	09128	5-	05568	04228	5-	08468	02228
321	5-	02767	32427	5-	05558	31228	5-	52558	32358	5-	05558	31358
299	5-	03748	30328	20	01744	32414	5-	21745	32455	5-	62757	28467
292	5-	05568	29228	5-	05556	31266	5-	21558	31258	5-	05658	30328
310										--	08428	04328
614	5-	05657	02327	5-	05568	31228	5-	51437	02267	5-	21447	02357

III	13h. G.M.T. 25th November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 26th November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	5-	09875	32128	5-	01778	02128	5-	05668	00028	5-	05668	02128
334	--	05547	00028	--	04409	00028						
340	5-	43238	32148	5-	45368	01148	51	45367	30148	51	51468	32118
136	5-	02845	01358	50	02755	01315	5-	02847	31157	57	05545	04328
336	57	02754	04327	50	05548	04328						
350	5-	61634	02468	5-	01658	01328	5-	21638	04358	5-	21638	04358
368	5-	05568	04128	5-	05568	04128	5-	05568	04128	5-	05668	04328
379	5-	02738	02528	5-	05548	02428	5-	21538	04358			
390	5-	21636	35947	5-	05568	32428	5-	05536	01256	5-	08438	02228
382	5-	05648	02328	5-	21568	02258	5-	21657	03257	5-	04258	35841
438				5-	01744	32314	5-	54696	02456	5-	01644	32414
430	2-	05666	02356	5-	05657	04327	03	05690	04324	53	05653	04326
409	5-	05768	04328	5-	05558	04428	5-	02557	05327	53	05657	04227

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 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
Kew *	ifodomo	ifofo cmo	dbcmo
Croydon	cmo do	dof	cmcmo
Greenwich	cmc	cifo	ifoc
Camden Square	c	c	*
Kensington	cs	cdc	*
Hampstead	od	c	o

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.

Kew 24 hours ended 7h.
Max. 0·2 Time 13·15h. 25th.
Min. 0·1 Time 01h. 26th.

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	48	40	34	Tr	–	0·0	*	*
Croydon	48	42	39	–	Tr	0·0	*	*
Greenwich	48	41	36	Tr	Tr	0·0	85	91
Westminster	49	42	36	Tr			87	93
Regents Park								
Camden Square	48	41	36	–	–	*	*	93
Kensington	49	41	35	Tr	–		83	91
Hampstead	46	38	34	Tr	–		*	97

SECRET

Page 1

BRITISH SECTION

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

Friday, November 27th 1942

No. 29590

OBSERVATIONS at 13h. G.M.T. November 26th 1942

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	32·5	-18	NE	3	z0	46	75	38	6	5	3	6	4-6	9	2500
	Croydon ...	32·7	-18	NE'N	3	m	45	85	41	4	5	-	-	7-8	9+	1000
	S. Farnborough	32·8	-18	NE'N	3	z0	45	85	41	6	5	-	-	10	10	800
	Boscombe Down	32·8	-18	NEN	3	c	45	86	40	8	8	-	-	7-8	9+	1000
	Thorney Island	31·7	-22	NNE	3	z0	47	75	41	6	5	3	-	2-3	9+	4000
	Lympne ...	31·5	-14	N	2	c/d	45	92	44	6	5	-	-	9	9+	1500
	Manston ...	31·7	-16	NE'N	2	c/d	46	97	44	6	5	-	-	9+	9+	800
2	Shoeburyness ...	32·6	-12	N'E	3	z0	47	85	42	6	7	5	-	4-6	7-8	4000
	Felixstowe ...	34·0	-2	NNW	3	id0	46	92	45	6	7	-	-	9	9	4000
	Gorleston ...	32·8	-12	NNE	2	c-bc/pr	47	97	46	7	8	-	-	7-8	7-8	1400
	Mildenhall ...	33·2	-18	NNW	2	d0c0	45	97	44	6	5	-	-	9	10	1400
	Cranwell ...	34·3	-14	NNW	2	z0	43	85	39	5	5	-	-	7-8	10	1600
3	Birmingham ...	34·6	-14	NNE	2	m	42	97	41	4	6	-	-	10	10	1500
	Upper Heyford	33·6	-20	NNE	3	c/d	43	92	41	7	5	-	-	7-8	10	800
4	Ross-on-Wye	33·8	-16	NE	3	z0	44	85	39	5	5	2	-	10	10	800
5	Hartland Point	32·5	-14	ENE	3	c	45	75	33	7	5	-	-	9	9	2000
	Bristol ...	32·9	-24	NE	3	id0	44	92	42	4	5	-	-	10	10	1500
	Portland Bill ...	31·5	-20	NE	4	c	47	92	45	8	2	4	-	4-6	10	4000
	Plymouth ...	32·3	-14	NE'E	4	c	47	75	39	7	5	-	-	10	10	4500
	The Lizard ...	31·2	-20	NE	5	c-bc	48	75	39	8	3	-	-	7-8	7-8	1500
	Scilly (St. Mary's)	31·0	-16	NE'E	4	bc	51	75	33	7	7	4	-	2-3	4-6	1800
	Guernsey ...															
6	Pembroke ...	34·0	-8	ENE	4	z0	45	75	37	7	5	2	-	9+	10	4000
7	Holyhead (Valley)	35·1	-22	NE'N	1	c	46	65	34	7	5	-	-	10	10	3500
	Chester (Sealand)	34·6	-22	N'E	1	c	45	75	37	5	5	-	-	10	10	3000
8	Manchester ...	35·2	-22	WNW	1	m	42	75	37	4	5	-	-	10	10	2500
10	Spurn Head ...	34·5	-10	NW'N	3	c-bc	44	85	40	7	5	2	-	4-6	7-8	2500
	Catterick ...	35·5	-18	NNW	2	z0	43	75	35	6	5	-	-	10	10	4000
	Tynemouth ...	35·5	-6	NW	3	c-bc/pr	43	85	38	6	5	3	-	4-6	7-8	2300
11	St. Abbs Head	34·9	-16	WNW	3	c-bc	43	92	41	7	5	4	-	7-8	7-8	2500
	Leuchars ...	35·3	-14	W	2	c	45	75	38	7	5	-	-	4-6	9+	3000
12	Renfrew (Abbots I.)	36·0	-18	WNW	2	z0	46	75	39	5	5	3	-	2-3	7-8	2500
	Eskdalemuir ...	35·7	-26	-	0	bc	41	85	37	8	5	8	5	2-3	4-6	3800
	Point of Ayre ...	36·3	-18	NE	2	c	45	65	34	8	5	3	-	7-8	9+	4000
13A	Tiree	37·4	-10	WNW	3	c	48	75	41	9	7	-	-	2-3	9+	2500
13B	Stornoway ...	36·6	-6	NW	3	bc	49	92	46	8	8	6	-	4-6	4-6	1500
15	Dalwhinnie ...	36·0	-6	N	1	0	42	85	37	8	5	-	-	10	10	2500
	Aberdeen ...	34·3	-12	NW	3	c	47	75	38	7	5	3	-	7-8	9+	5500
	Wick ...	33·5	-6	NW	4	c-bc/r	45	85	42	8	8	-	-	7-8	7-8	1500
16	Sumburgh ...	31·3	+2	NNW	3	c	49	85	46	8	5	-	-	4-6	9+	900
17	Blacksod Point	36·3	-18	E	3	c	45	97	44	8	5	-	-	10	10	4000
18	Malin Head ...	37·2	-12	WNW	1	r0r0	45	75	38	8	5	2	-	7-8	10	2500
	Aldergrove ...	37·3	-14	NW	1	z0	43	85	39	6	5	-	-	10	10	3500
19	Birr Castle ...	35·6	-12	ENE	1	c	44	85	40	7	5	2	-	7-8	10	2500
20	Valentia Obsy.	33·9	-8	E	3	0	47	65	36	7	5	-	-	10	10	4000
	Roches Point	34·1	-12	ENE	3	c	45	75	38	7	8	-	-	9+	9+	1500

OBSERVATIONS at 18h. G.M.T. November 26th 1942

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Form. Med. (26)	Form. High (27)	Amount. Low 0–10 (28)	Amount. Total 0–10 (29)	Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea 0–9 (32)
1	London (Kew)	30·8	-6	N'E	3	ir0	44	85	41	5	5	-	-	10	10	1500	1	•
	Croydon ...	30·6	-10	NNE	3	id0	45	85	41	4	5	-	-	10	10	800	1	•
	S. Farnborough	30·6	-6	NNE	2	z0	44	85	39	6	5	-	-	9	9	3800	0	•
	Boscombe Down	31·0	-6	N	3	c-bc	42	85	39	7	5	-	-	7-8	7-8	2500	0	•
	Thorney Island	29·8	-10	NNE	2	m	38	97	38	4	-	-	-	0	0	-	0	•
	Lympne ...	29·6	-10	N'E	1	bc/d	43	97	42	6	5	-	-	4-6	4-6	1500	1	S
	Manston ...	29·8	-8	NNE	3	bc	45	92	43	7	5	-	-	4-6	4-6	800	1	•
2	Shoeburyness ...	30·6	-14	NE	2	z0	44	92	41	6	5	-	-	4-6	4-6	2500	1	•
	Felixstowe ...	30·5	-10	NW	3	c-bc/d	44	92	42	6	5	-	-	2-3	2-3	4000	1	2
	Gorleston ...	30·1	-10	N	2	c-bc/pr	44	92	41	6	8	-	-	7-8	7-8	1500	1	3
	Mildenhall ...	31·0	-10	N'W	2	id	43	92	41	4	5	-	-	4-6	10	1600	1	•
	Cranwell ...	32·3	-10	NW'N	2	ir0	40	92	38	4	5	-	-	9	9	2000	1	•
3	Birmingham ...	32·5	-8	NNE	2	m	41	85	37	4	5	-	-	10	10	800	1	•
	Upper Heyford	32·0	-8	NNE	3	id0	40	92	39	5	5	-	-	10	10	2900	1	•
4	Ross-on-Wye	31·6	-8	NE	2	m	42	85	37	4	5	-	-	10	10	800	1	•
5	Hartland Point	30·1	-12	NE	3	c	45	85	39	7	5	2	-	4-6	10	2500	0	2
	Bristol ...	31·7	-6	NE	2	0 f+	42	92	40	3	5	-	-	10	10	3800	1	•
	Portland Bill ...	29·8	-10	NE	4	0	46	92	44	7	5	-	-	10	10	2500	1	4
	Plymouth ...	30·6	-6	E'N	3	c	45	85	39	6	5	-	-	9	9	3000	0	2
	The Lizard ...	29·4	0	NE	5	c	47	75	40	8	5	-	-	9	9	1500	0	4
	Scilly (St. Mary's)	29·5	-10	NE'E	4	c	47	85	41	7	8	-	-	9+	9+	1200	0	4
	Guernsey ...																	
6	Pembroke ...	32·1	-10	ENE	4	z0	44	75	37	7	5	-	-	10	10	2500	0	2
7	Holyhead (Valley)	33·6	-6	NE'N	2	z0	42	85	37	5	5	-	-	10	10	2600	0	1
	Chester (Sealand)	33·4	-6	N'E	1	z0	41	85	37	5	5	-	-	10	10	2500	0	•
8	Manchester ...	33·3	-6	-	0	0 f	40	85	36	3	5	-	-	10	10	2900	1	•
10	Spurn Head ...	32·0	-8	NW'N	4	r0r0	43	92	41	6	5	2	-	7-8	10	2500	1	3
	Catterick ...	33·3	-12	NW'W	1	c-bc/r	41	75	34	6	5	5	-	4-6	7-8	3400	1	•
	Tynemouth ...	33·0	-8	NW	3	z0	42	85	38	6	5	-	-	7-8	7-8	2500	0	3
11	St. Abbs Head	32·8	-10	WNW	3	0/pr	45	97	44	6	5	-	-	10	10	2500	1	3
	Leuchars ...	33·3	-8	WNW	2	ir0	46	75	39	8	5	7	-	7-8	10	3000	1	•
12	Renfrew (Abbots I.)	34·5	-6	W'S	2	z0	42	85	37	6	5	3	-	2-3	2-3	4000	1	•
	Eskdalemuir ...	33·9	-10	SSW	1	b-bc	37	85	32	7	5	-	-	2-3	2-3	2500	0	•
	Point of Ayre ...	34·2	-8	E'S	2	c	44	75	37	8	5	-	-	9+	9+	4000	0	3
13A	Tiree	35·6	-6	N'W	3	bbc	46	85	42	8	7	-	-	2-3	2-3	5700	0	1
13B	Stornoway ...	35·6	-2	N	3	pr0	47	97	46	7	8	6	-	7-8	10	1500	1	-
15	Dalwhinnie ...	34·6	-4	NNE	1	0	40	92	38	8	5	-	-	10	10	2500	1	•
	Aberdeen ...	32·7	-6	NW	3	bc/r	46	92	44	8	5	-	-	4-6	4-6	3000	1	2
	Wick ...	33·2	0	-	0	bc	45	92	43	8	5	-	-	4-6	4-6	2000	1	•
16	Sumburgh ...	33·2	+1·4	NNW	2	0/r	45	85	40	8	5	-	-	10	10	2000	1	3
17	Blacksod Point	34·8	-6	ENE	3	c	45	97	45	8	-	1	-	0	10	-	0	3
18	Malin Head ...	35·7	-6	NNE	2	c	47	75	40	8	5	-	-	9+	9+	2500	1	1
	Aldergrove ...	35·2	-10	-	0	c	41	86	37	7	5	-	-	9	10	3200	1	•
19	Birr Castle ...	34·2	-6	NE'N	2	c	42	85	38	7	5	-	-	10	10	2500	1	•
20	Valentia Obsy.	31·9	-10	E'N	3	0	45	75	38	7	5	-	-	10	10	4000	1	2
	Roches Point	32·2	-10	E'N	3	c	45	75	38·8	8	-	-	-	9+	9+	1500	1	3

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 26th (39)	13h.—18h. 26th (40)	18h. 26th to 1h. 27th (41)	1h.–7h. 27th (42)
1	London (Kew)	cm0cz0	cz0ir0m0	cir0cm0	cr0cir0
	Croydon ...	fid0cm	cmfid0m	cm	cmid0md0
	S. Farnborough	cid0bcm0	cbcm0	cd0r0m0	cm0r0md0d
	Boscombe Down	c	bcm0bc	cm0ir0m0	
	Thorney Island	cm	cm0cm	bmcm0ir0	ccid0cm0
	Lympne ...	cm0id0	cm0idc	cd0d0m0	cr0m0
	Manston ...	cm0m0d0d0c	cm0prbc	d0r0	d0d0c
2	Shoeburyness ...	cm0	cm0	cm0	cr0r0m0
	Felixstowe ...	cm0dm0cm0	cmcid0bcm0	cm0	ir0d0d0cm0
	Gorleston ...	cpr0c	cpr0c	c	oipr0
	Mildenhall ...	cd0d0m0	cm0idcmid	bcmcmr0r0	cmcm0ir0
	Cranwell ...	cmm0	cm0cir0m0	cfr0r0	cmfir0
3	Birmingham ...	qid0tm	cm	cm	bir0f
	Upper Heyford	d0d0id0m0	ccid0m0	cid0cm	id0r0r0m
4	Ross-on-Wye	ofcm	czcm	cm	cmfr0f
5	Hartland Point	c	c	c	c
	Bristol ...	cfd0m	cid0m0f	cpr0r0d0f	cd0r0fcf
	Portland Bill ...	cc	co	o	o
	Plymouth ...	c	cbccm0	ccm0	cm0c
	The Lizard ...	cbcc	c	c	c
	Scilly (St. Mary's)	bbc	bcc	c	c
6	Pembroke ...	cm0	cm0	cm0	c
7	Holyhead (Valley)	cfgm0	cm0	cm0	cm0c
	Chester (Sealand)	z0c	cz0cm0	cm0c	cmcm0
8	Manchester ...	cmff	czff	cffir0m	cir0m
10	Spurn Head ...	c	cfr0c	id0o	cd0
	Catterick ...	oz0cz0	cz0cir0	m0orrm0	rrd0m0d0m
	Tynemouth ...	cpr0c	cbcc	coirc	c
11	St. Abbs Head	cm0	cprm0c	cprm0c	c
	Leuchars ...	c	cir0cir0	c	cjpc
12	Renfrew (Abbots I.)	cm0cir0	cbcm0	bccmpr0cm0	cmir0cm
	Eskdalemuir ...	cd0cbc	bcbc	pr0bc	bcc
	Point of Ayre ...	c	cbcc	cbbcc	cbc
13A	Tiree	c	cpr0bc	bcbbc	cir0dcc
13B	Stornoway ...	cbbc	cbccpr0	c	c
15	Dalwhinnie ...	cpro	oco		opr0bc
	Aberdeen ...	bbcc	cir0bc	bccir0c	cz0
	Wick ...	cd0cbc	cir0c	c	c
16	Sumburgh ...	cid0	c	cid0c	cbcc
17	Blacksod Point	c	o	c	c
18	Malin Head ...	r	r	c	c
	Aldergrove ...	c	cid0c	bcbbc	cid0m0
19	Birr Castle ...	c	o	•	c
20	Valentia Obsy.	c	o	c	c
	Roches Point	c	o	c	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 27th November. 1942.

Districts	Forecasts
1 S.E. England	Light northeast winds backing north or northwest tomorrow; mainly cloudy, light rain locally at first; then some brighter intervals, some mist at first; mild.
2 E. England ...	Light northeast to north winds, backing northwest; cloudy with brighter intervals; cloudy with some light rain or showers tomorrow; mainly mild at first, becoming colder.
3 E. Midlands ...	
4 W. Midlands	Light northeast to north wind; dull and gloomy; some mist with occasional light rain or drizzle; brighter intervals tomorrow; rather cold.
5 S.W. England	Light to moderate northeast winds; cloudy; light rain locally; rather cold
6 South Wales	
7 North Wales	Light north to northwest winds veering north to northeast tomorrow; fair; bright periods; mild today, becoming colder.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	Light west to northwest winds veering north to northeast freshening; mainly fair today; some light rain or showers later; mild becoming colder.
12 S.W. Scotland & Isle of Man	
13A W. Scotland ...	As 7- 10.
13B N.W. Scotland	Moderate to fresh west to northwest winds veering north to northeast, strong at times on the coast, moderating tomorrow; cloudy, some rain this evening; bright periods with local showers of rain perhaps hail tomorrow; becoming colder.
14 Mid Scotland	
15 N.E. Scotland	
16 Orkneys and Shetlands	As 13B- 15.
17 N.W. Ireland	Light winds between north and east; fair; bright periods; mild.
18 N.E. Ireland	
19 S.E. Ireland	
20 S.W. Ireland	

GENERAL INFERENCE

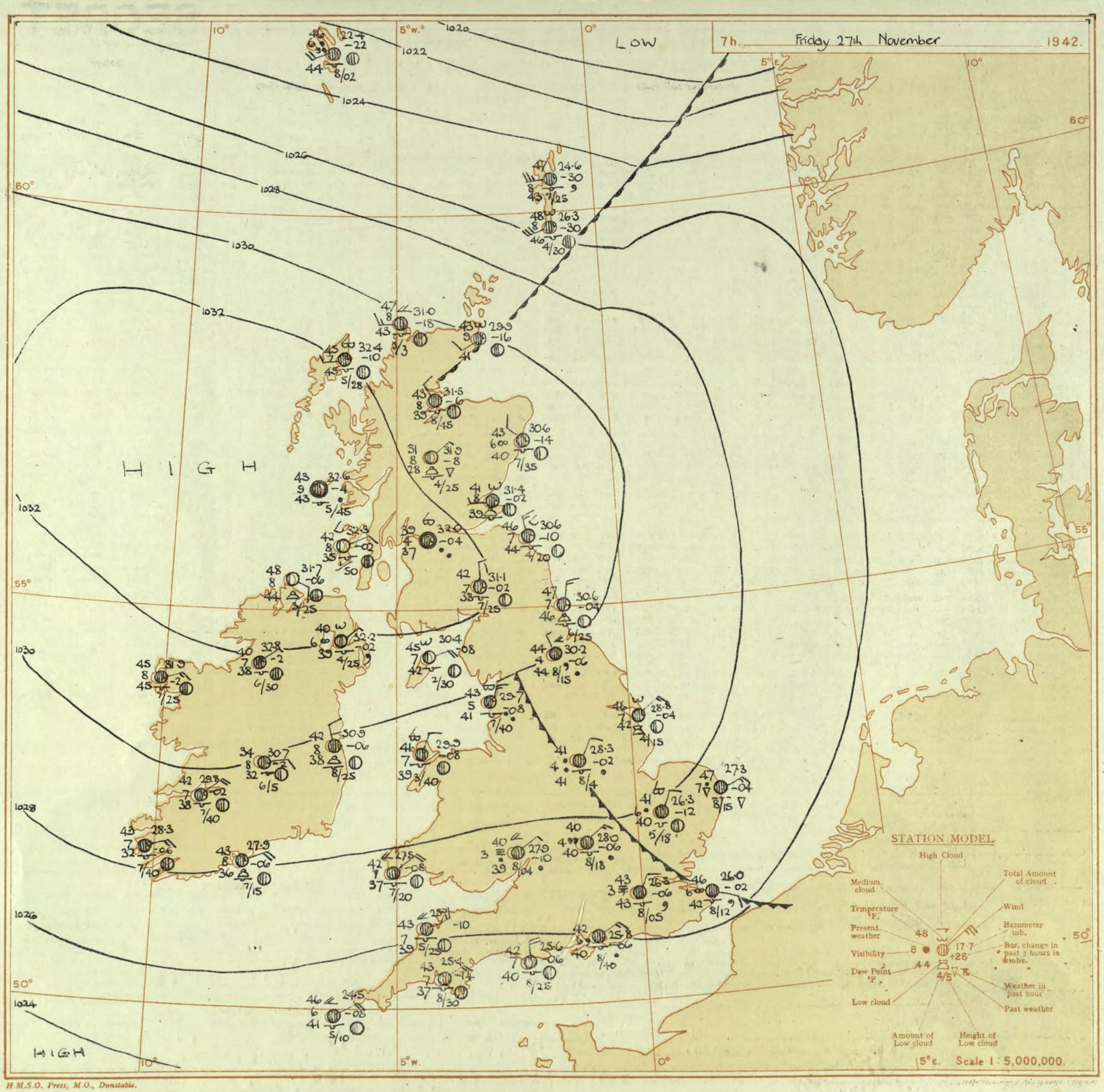
An anticyclone off northwest Ireland is decreasing in intensity slowly, and a more intense anticyclone in the Icelandic area will move southeast. There will be some light rainfall in north and east Scotland this evening, spreading to northeast England by morning. There will continue to be some further light rain or drizzle in the Southern half of England today, but in many western districts weather will be fair.

FURTHER OUTLOOK

Rather cold in most districts with chance of some night frost; fair in the West, but some showers in eastern counties.

Forecasts issued at 10·30.

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



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

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

Explanation of Frontal Lines shown on Charts

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

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

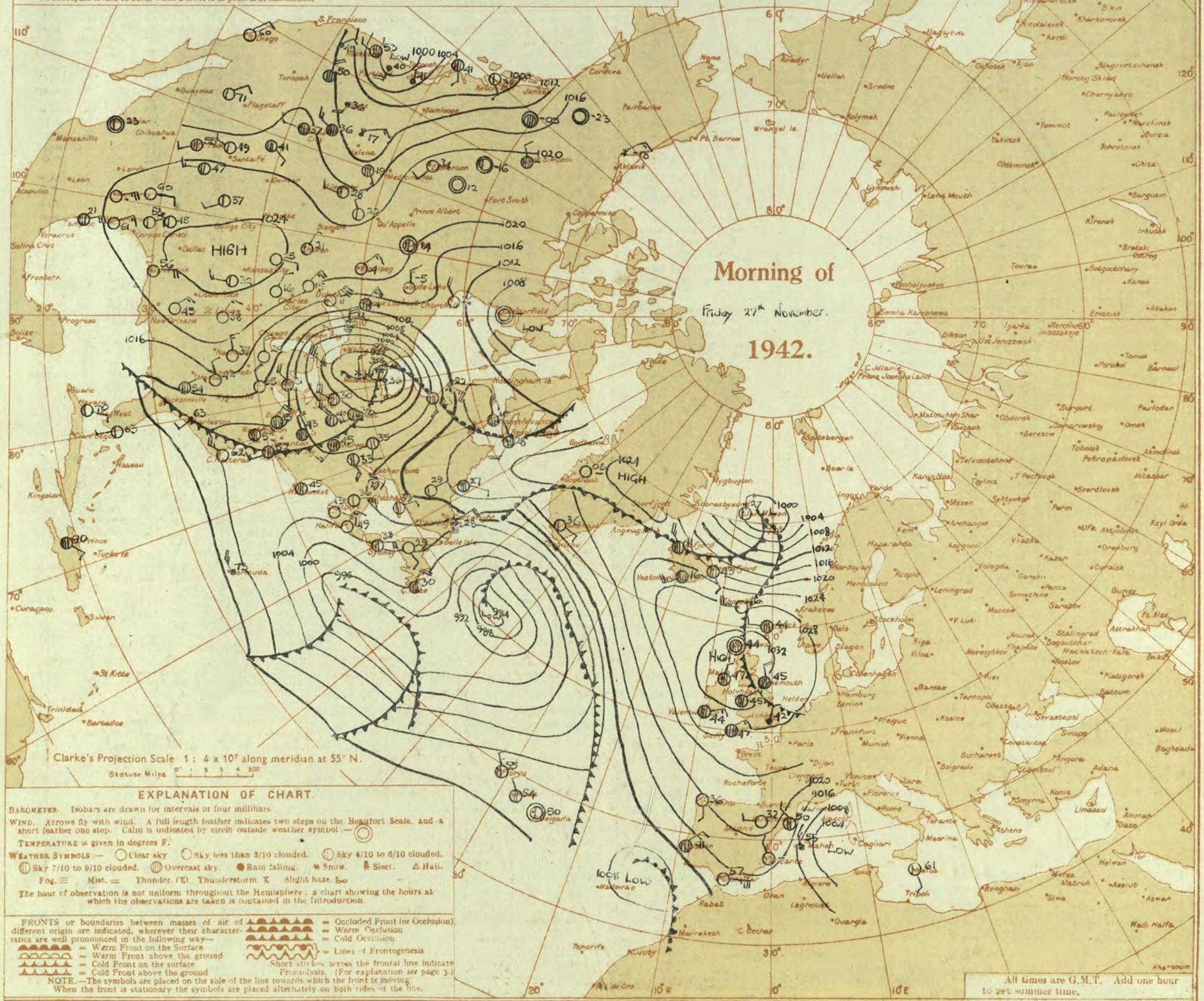
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

BRITISH SECTION

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

Friday 27th November, 1942

No. 29590

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	*	*	*	*	*	43	*	*	*	*	*	*	*	*	*
	Croydon	290	29·0	-10	NNE	2	id₀	42	92	40	4	5	–	–	9	10	800
	S. Farnborough	226	28·6	-14	NNE	2	z₀	41	92	39	5	5	–	–	10	10	500
	Boscombe Down	417	29·4	-10	NNE	3	ir₀	39	92	38	6	5	2	–	9	9+	1500
	Thorney Island	10	27·5	-18	NNE	4	ir₀	43	89	39	5	5	–	–	4-6	10	1500
	Lympne	283	27·4	-14	NNE	1	d₀d₀	43	97	42	5	5	–	–	10	10	1500
	Manston	154	27·6	-8	NE'N	2	c/r	44	97	44	6	5	3	–	9	10	900
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	28·3	-10	NNW	3	z₀	42	97	41	5	5	7	6	2-3	7-8	2500
	Gorleston	5	28·6	-12	NE'N	2	c-bc	43	92	43	7	8	7	–	4-6	7-8	1500
	Mildenhall	15	29·0	-12	N'W	2	m/f	41	97	41	4	5	3	–	4-6	9+	1000
	Cranwell	203	30·3	-10	NNW	2	of	39	97	39	3	5	–	–	10	10	3000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	29·9	-14	N	2	m/d	39	97	39	4	5	–	–	10	10	800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	28·2	-12	ENE	3	c	44	75	37	7	5	2	–	7-8	10	1500
	Bristol	209	30·3	-8	NE	2	drf	40	97	38	3	5	–	–	9+	9+	4000
	Portland Bill	32	27·7	-12	N	4	o	44	92	42	7	5	–	–	10	10	2500
	Plymouth	82	28·3	-12	NE	3	z₀	44	89	39	6	5	–	–	10	10	3000
	The Lizard	240	27·2	-10	NE	4	c	47	85	43	8	8	2	–	7-8	10	1500
	Scilly (St. Mary's)	163	27·0	-14	NE	3	c	47	85	42	7	5	–	–	10	10	1500
	Guernsey	175															
6	Pembroke	142	30·2	-8	ENE	4	z₀	43	75	36	6	5	–	–	10	10	2000
7	Holyhead (Valley)	32	32·3	-4	NNE	2	c	39	92	36	7	–	3	–	0	10	—
	Chester (Sealand)	16	31·2	-14	NW'W	2	m	40	85	36	4	5	7	–	4-6	9+	3500
8	Manchester	235	31·2	-14	NNW	3	m/r	38	85	35	4	5	3	–	4-6	9	4000
10	Spurn Head	29	30·6	-8	NE'N	1	o	45	85	42	7	8	–	–	10	10	1500
	Catterick	175	31·9	-12	NNW	1	r₀r₀	42	97	42	5	5	7	–	7-8	10	1100
	Tynemouth	108	31·7	-12	NNW	4	c	45	92	45	5	8	–	–	7-8	10	4000
11	St. Abbs Head	280	31·2	-10	N	3	c	47	97	47	7	5	–	–	10	10	1500
	Leuchars	36	32·4	-10	NW	2	c	45	85	40	8	5	3	–	2-3	9+	3000
12	Renfrew (Abbots I.)	19	33·4	-8	SW	1	z₀	38	92	35	5	5	3	–	4-6	7-8	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	32·7	-6	NE'E	2	c	45	85	38	7	5	–	–	9+	9+	4000
13A	Tiree	44	34·4	-8	N	1	bc	43	97	43	8	5	–	–	4-6	4-6	3500
13B	Stornoway	15	35·0	-2	—	0	c	44	97	44	7	5	–	–	9+	9+	3200
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	33·0	-4	NW	3	c	43	92	41	8	5	7	–	4-6	9+	3000
	Wick	114	32·8	-8	N'W	2	c	45	97	45	8	5	–	–	9	9	3000
16	Sumburgh	19	31·5	-20	NW'N	3	cf	46	75	40	3	5	7	–	9	10	2500
17	Blacksod Point	18	33·5	-10	ENE	3	c-bc	44	97	43	8	5	–	–	7-8	7-8	4000
18	Malin Head	84	33·5	-14	NNE	2	c	49	85	45	8	8	–	–	9	9	2500
	Aldergrove	268	33·7	-10	–	0	z₀	35	97	35	6	5	7	–	1	7-8	4000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	30·6	-10	E'N	3	o	44	75	37	7	5	–	–	10	10	4000
	Roches Point	22	30·3	-10	E'N	4	c	44	85	40	8	8	–	–	9+	9+	1500

OBSERVATIONS at 7 hr. G.M.T. 27th 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)	26·5	-6	NE	2	ir₀	43	92	41	5	5	2	–	9	10	1500	1	*
Croydon	26·8	-6	N'E	2	df	43	97	43	3	5	–	–	10	10	500	1	*
S. Farnborough	26·5	-6	NE'N	2	dd	42	97	41	4	5	–	–	10	10	700	1	*
Boscombe Down	26·9	-6	NE'N	3	z₀	41	92	39	6	5	–	–	10	10	800	0	*
Thorney Island	25·8	-6	NE	3	id₀	42	97	40	6	5	–	–	10	10	4000	1	*
Lympne	26·1	-2	N	1	c	42	97	41	7	5	–	–	10	10	1700	1	§ 3
Manston	26·0	-2	E'S	2	z₀	46	85	42	6	5	–	–	10	10	1200	1	*
Shoeburyness	25·6	-2	NNE	2	r₀r₀	43	97	42	5	5	2	–	7-8	10	1500	1	*
Felixstowe	26·9	-2	N'E	1	o/d	43	97	42	5	3	–	–	10	10	1200	1	1
Gorleston	27·3	-4	ENE	3	pr	47	85	42	7	6	–	–	10	10	1500	1	3
Mildenhall	26·3	-12	N'E	2	ir₀	41	97	40	6	5	7	–	7-8	10	1800	1	*
Cranwell	28·3	-4	N'W	2	rf	41	97	41	3	5	7	–	7-8	9	4000	1	*
Birmingham	28·5	-4	NNE	2	of	40	97	40	2	6	–	–	10	10	450	1	*
Upper Heyford	28·0	-6	NE'N	3	d₀d₀	40	97	40	4	5	–	–	10	10	1800	1	*
Ross-on-Wye	27·9	-10	NE	2	rf	40	92	39	3	–	2	–	10	10	400	1	*
Hartland Point	25·7	-10	ENE	3	c	43	85	39	7	5	2	–	7-8	10	2500	0	3
Bristol	27·7	-6	NE'N	2	of	40	97	39	3	5	–	–	10	10	700	1	*
Portland Bill	25·6	-6	N	4	o	42	92	40	7	6	–	–	10	10	2500	1	4
Plymouth	25·4	-14	NE'E	3	c	43	75	37	7	5	–	–	10	10	3000	0	2
The Lizard	25·1	-4	NE	5	c	45	85	40	7	5	–	–	10	10	1500	0	4
Scilly (St. Mary's)	24·5	-8	ENE	3	c	46	85	41	6	5	2	–	7-8	10	1000	0	3
Guernsey																	
Pembroke	27·5	-8	NE'E	4	c	42	85	37	7	5	2	–	9+	10	2000	0	3
Holyhead (Valley)	29·9	-8	NNE	2	c	41	92	39	7	5	7	–	2-3	10	4000	1	1
Chester (Sealand)	29·2	-8	W'S	3	z₀	40	85	35	5	5	7	–	4-6	10	4000	0	*
Manchester	29·2	-6	NNW	1	m	38	92	36	4	5	3	–	1	4-6	5700	1	*
Spurn Head	28·8	-4	NE	3	c	46	85	42	7	3	3	–	4-6	9	1500	1	2
Catterick	30·2	-6	NNW	1	m/d	44	97	44	4	–	2	–	10	10	1500	1	*
Tynemouth	30·6	-4	NNE	3	c	47	97	46	7	8	–	–	9	9	2500	1	3
St. Abbs Head	30·6	-10	N	3	c	46	92	44	7	5	4	–	7-8	9+	2000	1	3
Leuchars	31·4	-2	W	1	c	41	92	39	8	8	3	–	2-3	9+	5000	1	*
Renfrew (Abbots I.)	32·0	-4	—	0	m/r	39	97	37	4	–	7	–	0	9+	—	1	*
Eskdalemuir	31·1	-2	N	1	c	42	85	38	7	5	–	–	9+	9+	2500	0	*
Point of Ayre	30·4	-8	E'N	4	bc	45	85	42	7	5	3	–	1	4-6	3000	0	4
Tiree	32·6	-4	—	0	c-bc	43	97	43	9	5	–	–	7-8	7-8	4500	0	0
Stornoway	32·4	-10	W	1	c	45	97	45	7	5	7	–	7-8	9+	2800	1	*
Dalwhinnie	31·9	-8	NNE	1	bc	31	92	28	8	8	–	–	4-6	4-6	2500	1	*
Aberdeen †	30·6	-14	NW	2	z₀	43	92	40	6	5	–	–	9+	9+	3500	1	2
Wick	29·9	-16	SW	2	c	43	97	41	9	–	3	–	0	9	—	1	*
Sumburgh	26·3	-30	WSW	6	c	48	92	46	8	5	3	–	4-6	9	3000	1	4
Blacksod Point	31·9	-2	E'N	3	c	45	97	45	8	5	–	–	9+	9+	2500	0	3
Malin Head	31·7	-6	ESE	2	b-bc	48	85	44	8	2	–	–	2-3	2-3	2500	1	2
Aldergrove	32·2	-2	NE	1	z₀	40	97	39	6	5	3	–	4-6	7-8	2500	1	*
Birr Castle	30·7	-2	E	2	c	34	92	32	8	5	–	–	9	9	2500	1	*
Valentia Obsy.	28·3	-6	E'N	3	c	43	65	32	7	5	–	–	9+	9+	4000	1	3
Roches Point	27·9	-6	ENE	4	c	43	75	36	8	3	–	–	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)	Rainfall Night 18h–7h mm. (37)	Sunshine 26th Hrs. (38)
London (Kew)	47	41	38	Tr	0·5	0·0
Croydon	47	42	41	Tr	–	0·3
S. Farnborough	46	41	37	Tr	0·4	1·1
Boscombe Down	45	(39)	31	–	Tr	1·2
Thorney Island	43	37	31	–	Tr	*
Lympne	46	41	37	0·2	2	0·7
Manston	47	42	38	2	2	0·6
Shoeburyness	49	39	33	–	1	5·0
Felixstowe	47	41	38	0·4	1	1·3
Gorleston	49	42	40	0·1	3	1·0
Mildenhall	46	40	34	0·4	0·3	0·4
Cranwell	43	38	36	0·1	1	0·0
Birmingham	42	38	37	0·1	1	0·0
Upper Heyford	45	39	37	1	0·4	*
Ross-on-Wye	44	40	38	–	0·4	0·0
Hartland Point	45	42	41	–	–	0·0
Bristol	44	39	36	0·1	0·1	0·0
Portland Bill	47	40	*	–	–	*
Plymouth	47	42	39	–	Tr	0·0
The Lizard	49	44	*	–	–	1·5
Scilly (St. Mary's)	51	46	*	–	–	6·6
Guernsey						
Pembroke	46	(42)	*	–	–	0·0
Holyhead (Valley)	46	37	33	–	–	*
Chester (Sealand)	45	39	37	–	–	0·0
Manchester	43	38	31	–	Tr	*
Spurn Head	45	42	*	1	3	0·4
Catterick	44	39	34	Tr	5	0·0
Tynemouth	45	41	38	0·1	0·5	*
St. Abbs Head	45	44	*	Tr	0·6	*
Leuchars	46	41	32	Tr	Tr	1·1
Renfrew (Abbots I.)	46	36	29	Tr	Tr	1·7
Eskdalemuir	44	34	27	Tr	Tr	3·2
Point of Ayre	45	41	*	–	–	0·5
Tiree	49	41	*	Tr	Tr	0·8
Stornoway	50	40	31	Tr	Tr	2·8
Dalwhinnie	42	30	23	Tr	0·3	0·0
Aberdeen †	47	42	39	Tr	Tr	0·5
Wick	49	41		0·4	Tr	*
Sumburgh	50	44	41	0·5	Tr	0·7
Blacksod Point	47	43	*	–	–	*
Malin Head	50	46	*	0·1	–	0·4
Aldergrove	44	33	26	–	Tr	0·0
Birr Castle	44	32	27	–	–	0·0
Valentia Obsy.	48	42	40	–	–	0·0
Roches Point	48	42	*	–	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 26th November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 27th November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	83	27854	29567	5-	02765	28365	5-	02775	25155	5-	02768	22428
115							53	02954	28126	52	02835	24328
203	84	02844	28326	82	02845	28328				5-	03948	20228
206	53	21866	24257	5-	02867	24167	5-	02868	00028	5-	02868	30228
210	57	61864	22367	5-	22768	31368	5-	22858	20168	5-	22858	21368
220	57	02854	25117	30	02757	25117				52	02795	03128
230	54	02967	20157	5-	01962	30222	5-	02867	00027	50	01761	00021
245	54	02865	26216	5-	02867	26127	57	02864	30127	57	02963	00026
260	5-	05967	24257	5-	47368	23148	52	67357	18148	5-	41468	18118
278	5-	17768	00028	54	01854	32314	5-	02768	00028	53	02866	06227
279	5-	02766	30326				53	08463	00026	57	08464	00027
285	5-	03850	32328	50	01854	02414						
288	5-	61468	28428	5-	08466	20166	5-	22448	18468	5-	47345	00068
575	5-	02898	08128	5-	02868	32128	5-	02768	04228	5-	02766	04126
301	5-	05568	06228	5-	05668	06328	5-	05667	04227	57	22567	02367
321	5-	05668	31328	5-	61558	30268	5-	61558	30268			
290	5-	05665	30228	8-	22745	28468	8-	02747	32527	8-	61757	32227
292	5	05658	28228	5-	51568	28258	5-	05558	27268	03	45290	29266
310	--	02639	32329									
614	5-	05558	32328	5-	61458	02158	5-	63448	02268	5-	63448	02268

III	13h. G.M.T. 26th November $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 27th November $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	5-	17868	04128	5-	05668	02128	5-	05667	32127	53	02764	28127
334	--	03647	10228	--	05547	10228				--	45347	00028
340	5-	47348	02148	5-	08468	20148	5-	45367	31247	53	45366	01247
136	5-	02844	03358	5-	21745	31255	5-	02856	31156	5-	51757	32227
336	51	05545	04328	--	46309	04349						
350	87	61646	02358	5-	21558	02368	5-	67318	02368	5-	57318	03368
368	5-	05654	04428	5-	05668	04328				02	62558	02268
379	5-	51628	04328				--	57109	02159	--	67109	02269
390	5-	05657	04427	5-	21434	32358	5-	57328	32348	5-	41437	32347
382	52	05657	03228	5-	51548	02328	57	63446	02367			
438	80	02646	32316	84	01743	32414	5-	82417	32187	8-	51648	02358
430	53	05644	04316	50	05563	06223	5-	05657	04427	5-	51545	04367
409	50	04864	05424	50	01861	06401	5-	02758	04928	5-	05658	05428

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
Kew *	cm₀ez₀	cz₀ir₀m₀	cir₀cm₀cr₀
Croydon	fid₀cm	cmfid₀cm	cm id₀
Greenwich	c	c	c&rcm
Camden Square	c	c	*
Kensington	c	c	*
Hampstead	bc	ov	•

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.

Kew 24 hours ended 7h. Max. 0·2 Time 18–20h 26th. Min. 0·1 Time 1–6h 27th.

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	47	41	38	Tr	0·5	0·0	*	*
Croydon	47	42	41	Tr	-	0·3	*	*
Greenwich	47	41	38	–	1	0·0	77	94
Westminster	48	43	38		1		81	93
Regents Park	47	42	38	–	0·3			95
Camden Square	47	42	38	–	0·3	*	*	95
Kensington	47	42	38	–	1		81	95
Hampstead	47	39	36	–	0·6		*	98

BRITISH SECTION

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

SECRET

Saturday 28th November 1942

No. 29591

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)	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)	24.9	-12	NE	2	ir₀	46	85	43	5	5	2	-	9	10	1500
	Croydon ...	25.6	-10	NNE	1	d₀d₀	45	97	44	4	5	-	-	7-8	10	600
	S. Farnborough	25.1	-14	NE'E	3	d₀d₀	45	92	43	4	5	-	-	10	10	500
	Boscombe Down	25.4	-10	NE	3	ir₀	45	92	42	7	6	2	-	9+	10	600
	Thorney Island	24.4	-14	NE	3	id₀	47	85	43	7	5	-	-	7-8	9+	2500
	Lympne ...	24.4	-14	ENE	2	c	48	75	40	8	5	-	-	4-6	9+	1800
	Manston ...	24.5	-18	NE	2	id₀	48	92	46	6	5	-	-	10	10	1100
2	Shoeburyness ...	25.1	-16	NNE	2	r₀r₀	46	97	45	5	5	-	-	9	10	1000
	Felixstowe ...	26.0	-8	NNE	3	z₀	49	75	41	6	5	-	-	10	10	4000
	Gorleston ...	25.8	-14	NE'N	3	c	48	75	40	7	5	-	-	10	10	1500
	Mildenhall ...	26.0	-16	NE'N	3	c	47	85	44	8	8	-	-	9+	9+	3000
	Cranwell ...	27.2	-14	N'E	1	z₀	45	97	44	5	5	-	-	10	10	3000
3	Birmingham ...	26.9	-10	NE	2	m	44	92	42	4	6	-	-	10	10	1500
	Upper Heyford	26.1	-14	NE'E	3	c/+	46	97	45	6	8	-	-	4-6	9+	1300
4	Ross-on-Wye	26.2	-14	NE	2	m	43	92	41	4	5	-	-	10	10	800
5	Hartland Point	23.9	-12	ENE	3	c	43	85	39	6	5	4	-	7-8	9+	1800
	Bristol ...	26.4	-10	E'N	3	c/r	45	92	43	6	5	-	-	9+	9+	1500
	Portland Bill ...	24.3	-4	N	4	c	43	92	41	7	5	-	-	4-6	10	2500
	Plymouth ...	23.7	-18	E'N	4	c	45	85	41	7	7	2	-	9	10	6500
	The Lizard ...	24.0	-6	ENE	5	c	46	92	44	7	5	2	-	9	10	1500
	Scilly (St. Mary's)	23.0	-2	NE'E	2	c	46	65	36	8	8	2	-	4-6	10	1200
	Guernsey ...															
6	Pembroke ...	25.8	-16	E	5	c-bc	47	85	42	7	7	7	-	7-8	7-8	3000
7	Holyhead (Valley)	28.4	-14	ENE	3	z₀	48	75	40	6	5	7	-	9	9+	5000
	Chester (Sealand)	27.9	-14	NNW	1	m	45	85	41	4	5	-	-	9+	9+	4000
8	Manchester ...	28.0	-12	N'W	2	cf	44	92	42	2	5	-	-	4-6	10	2000
10	Spurn Head ...	27.8	-10	NE	3	c	47	75	40	7	5	3	-	4-6	9	2500
	Catterick ...	29.0	-12	NW	1	c/d	45	97	44	4	5	2	-	7-8	10	1100
	Tynemouth ...	24.1	-16	N	3	pr	47	92	45	7	8	-	-	7-8	7-8	2700
11	St. Abbs Head	28.4	-20	WNW	3	c-bc	45	85	40	7	5	4	-	4-6	7-8	2500
	Leuchars ...	28.8	-20	WNW	3	b-bc	47	75	41	8	5	4	8	1	4-6	3000
12	Renfrew (Abbots I.)	30.0	-20	-	0	m	48	75	41	4	-	-	1	0	Tr	-
	Eskdalemuir ...	28.8	-16	N	2	b-bc	47	65	37	8	7	4	6	2-3	4-6	3800
	Point of Ayre...	29.4	-16	E'S	3	b-bc	48	85	43	7	5	-	-	4-6	4-6	4000
13A	Tiree	31.2	-14	NW	2	b-bc	49	85	45	8	2	3	2	1	4-6	2500
13B	Stornoway ...	30.1	-14	NNW	3	d₀d₀	46	92	43	7	5	-	-	10	10	1600
15	Dalwhinnie ...	29.0	-16	NNW	2	id₀	42	85	37	8	5	-	-	9	9	1500
	Aberdeen ...	27.5	-26	NNW	3	c	47	75	40	7	5	-	-	9+	9+	4500
	Wick ...	28.1	-26	NW	4	c	45	92	43	9	5	7	-	2-3	10	2000
16	Sumburgh ...	19.5	-38	WNW	8	id₀	49	85	45	8	5	-	-	7-8	10	900
17	Blacksod Point	31.0	-8	NE	2	c-bc	49	85	45	8	5	4	-	2-3	7-8	4000
18	Malin Head ...	30.8	-10	SW'S	1	c	48	85	44	8	8	-	-	9+	9+	2500
	Aldergrove ...	30.8	-14	ENE	1	c-bc	48	85	43	7	8	-	-	7-8	7-8	2500
19	Birr Castle ...	29.2	-14	NNE	2	c-bc	45	92	43	8	5	-	-	7-8	7-8	2500
20	Valentia Obsy.	28.3	-6	ENE	4	b-bc	45	65	34	8	5	-	-	4-6	4-6	4000
	Roches Point	26.8	-18	NE	4	c-bc	46	75	39	8	5	3	-	4-6	7-8	2500

OBSERVATIONS at 18h. 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)	23.1	-4	NE'N	3	z₀	47	85	42	5	5	-	-	10	10	1500	1	*
	Croydon ...	23.5	-6	NE	2	m	45	92	43	4	5	-	-	10	10	500	1	*
	S. Farnborough	23.0	-8	NE'N	2	df	45	92	42	3	5	-	-	10	10	2000	1	*
	Boscombe Down	23.2	-12	NE'N	3	ir₀	44	92	42	6	5	2	-	7-8	10	2800	1	*
	Thorney Island	22.4	-10	NE	3	id₀	46	92	44	6	5	-	-	10	10	3200	1	*
	Lympne ...	22.5	-6	NNE	2	id₀	45	92	43	6	5	-	-	9+	10	1000	1	4
	Manston ...	21.8	-12	NE	2	id₀	47	85	43	7	5	-	-	10	10	1000	1	*
2	Shoeburyness ...	23.0	-8	NNE	2	z₀	45	85	42	5	5	-	-	10	10	1500	1	*
	Felixstowe ...	23.1	-10	N	3	c	46	85	42	6	5	-	-	10	10	4000	1	2
	Gorleston ...	24.1	-4	NNE	3	pr	45	75	37	7	5	-	-	10	10	1500	1	3
	Mildenhall ...	23.9	-4	NNE	2	c-bc	43	92	41	7	5	-	-	7-8	7-8	3000	1	*
	Cranwell ...	25.0	-10	N'E	2	z₀	42	85	37	5	5	-	-	9	9	2300	1	*
3	Birmingham ...	25.1	-8	NNE	2	cf	43	92	41	3	6	-	-	10	10	800	1	*
	Upper Heyford	24.8	-6	NE'E	3	z₀	43	97	42	6	5	-	-	10	10	2600	1	*
4	Ross-on-Wye	24.2	-10	NE	2	m	44	85	41	4	5	-	-	10	10	800	1	*
5	Hartland Point	22.3	-2	ENE	4	c-bc	46	85	43	6	5	4	-	7-8	7-8	1500	0	4
	Bristol ...	24.4	-6	NE	1	cf	43	97	43	3	5	-	-	10	10	3500	1	*
	Portland Bill ...	21.0	-6	NNE	4	c	44	92	42	7	5	-	-	10	10	2500	1	4
	Plymouth ...	22.4	-6	E'N	4	z₀	45	85	40	6	5	-	2	2-3	4-6	4000	0	2
	The Lizard ...	21.1	-2	ENE	5	c	47	85	42	8	8	2	-	7-8	9+	1000	1	4
	Scilly (St. Mary's)	21.2	-6	NE'E	5	c	47	85	44	7	8	2	-	7-8	10	1200	1	4
	Guernsey ...																	
6	Pembroke ...	24.3	-6	E'N	3	c-bc	45	85	41	7	8	7	-	4-6	7-8	3000	0	3
7	Holyhead (Valley)	26.7	-6	NNE	1	z₀	45	85	42	5	5	-	-	10	10	4700	0	1
	Chester (Sealand)	26.1	-10	NNE	1	m	44	85	39	4	5	-	-	10	10	3900	0	*
8	Manchester ...	26.0	-6	NW'N	1	cf+	41	85	38	3	5	-	-	10	10	4000	1	*
10	Spurn Head ...	25.0	-12	NW	3	c	45	85	40	7	5	3	-	4-6	9	1500	0	3
	Catterick ...	26.4	-14	WNW	1	bcf-	43	92	41	3	5	-	-	4-6	4-6	3400	1	*
	Tynemouth ...	26.0	-14	NW	3	b-bc	43	85	37	6	2	3	-	2-3	2-3	2500	1	3
11	St. Abbs Head	25.0	-8	WNW	3	c-bc	45	75	38	7	5	-	-	7-8	7-8	4000	0	3
	Leuchars ...	25.1	-16	WNW	2	bc	40	92	37	7	5	-	8	2-3	4-6	5500	0	*
12	Renfrew (Abbots I.)	27.0	-8	W'S	2	z₀	38	92	36	6	5	-	-	2-3	2-3	3500	1	*
	Eskdalemuir ...	26.6	-10	-	0	c-bc	36	83	32	7	5	-	-	7-8	7-8	2200	0	*
	Point of Ayre...	27.1	-6	NE'N	3	b-bc	45	85	39	8	5	-	-	2-3	2-3	1800	0	
13A	Tiree	29.0	-6	NNW	4	pr	43	92	43	9	8	4	6	4-6	9+	2000	1	3
13B	Stornoway ...	27.2	-12	NW	4	d₀d₀	47	92	46	7	5	-	-	10	10	1200	1	*
15	Dalwhinnie ...	25.0	-10	NW	3	id₀	40	85	35	8	5	-	-	4-6	4-6	2500	1	*
	Aberdeen ...	23.1	-26	NW'W	4	bc	45	85	39	8	5	-	6	4-6	4-6	4000	1	2
	Wick ...	23.1	+2	N	4	d₀d₀	44	97	43	7	5	-	-	4-6	10	1000	1	*
16	Sumburgh ...	20.7	+18	NW	7	c	39	65	28	8	5	-	-	9	9	1200	1	4
17	Blacksod Point	29.3	-8	E'N	2	c-bc	47	92	45	8	5	-	-	7-8	7-8	4000	1	2
18	Malin Head ...	28.9	+8	N	3	c	49	85	42	8	8	-	-	10	10	1500	1	2
	Aldergrove ...	28.9	-2	-	0	bc	39	92	37	7	5	-	-	4-6	4-6	4500	1	*
19	Birr Castle ...	27.3	-6	NNE	2	b-bc	41	97	40	8	5	-	-	2-3	2-3	2500	1	*
20	Valentia Obsy.	28.4	-6	NE	3	c	45	85	41	7	5	-	-	9+	9+	2500	1	3
	Roches Point	25.0	-6	NE'E	4	c	44	85	40	7	5	-	-	9	9	2500	1	3

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 27th (39)	Weather. 13h.—18h. 27th (40)	Weather. 18h. 27th to 1h. 28th (41)	Weather. 1h.–7h. 28th (42)
1	London (Kew)	dgfr₀m₀	cir₀cm₀	cm₀	cm₀
	Croydon ...	ofmdmd	cd₀d₀cm	cm	cm
	S. Farnborough	cdor₀dmd	d₀md₀d₀cf	cd₀fcm₀	bccm₀
	Boscombe Down	cm₀cr₀	cd₀ir₀m₀	cir₀id₀m₀	ccm₀
	Thorney Island	m₀id₀	d₀m₀cid₀	cm₀c	cm₀c
	Lympne ...	cid₀c	cidid₀m₀	cm₀bc	c
	Manston ...	cm₀id₀	cm₀id	d₀cm₀	c
2	Shoeburyness ...	cr₀r₀tm₀	cr₀r₀r₀cm₀	cm₀w	cm₀w
	Felixstowe ...	cm₀r₀cm₀	cm₀	cm₀	cid₀m
	Gorleston ...	opr₀c	epr₀	cpr₀	cpr₀c
	Mildenhall ...	cir₀mc	c	ccm₀	cm₀cmcm₀
	Cranwell ...	cfcm₀	cm₀id₀bm₀	cbcfcm	cm₀ir₀m₀
3	Birmingham ...	fom	omf	ofcm	ocf
	Upper Heyford	d₀d₀ir₀m	cm₀id₀m₀	cm₀	cm₀cf
4	Ross-on-Wye	tfodm	cm₀om₀	omcm	cm
5	Hartland Point	cm₀	cm₀	c	c
	Bristol ...	cfmir₀	cm₀r₀r₀fid₀	f	cmcf
	Portland Bill ...	c	co	o	o
	Plymouth ...	cm₀	c	cm₀	cm₀c
	The Lizard ...	prrc	c	opr₀c	co
	Scilly (St. Mary's)	c	cp₀r₀r₀c	c	c
	Guernsey ...				
6	Pembroke ...	irc	cm₀	cm₀c	c
7	Holyhead (Valley)	cm₀	cm₀	cm₀	bccbcw
	Chester (Sealand)	cm₀m	cmfm	cm	cm
8	Manchester ...	cm₀ff	ir₀cm	cff	cir₀ff
10	Spurn Head ...	c	c	c	cqpr₀
	Catterick ...	cid₀cm	id₀mf	bcfm₀cm₀	cir₀m₀
	Tynemouth ...	cp	cpc	bcc	coirc
11	St. Abbs Head	bccm₀	bccm₀	cbbcm₀cir₀	cq
	Leuchars ...	ccjpcbc	bcebc	bccid₀cv	cvbcvc
12	Renfrew (Abbots I.)	bcfbm	cm₀bm₀w	bm₀cbcm₀	cm₀wir₀cm
	Eskdalemuir ...	cbc	bcvc	bcbbc	bcc
	Point of Ayre...	bcbc	bccb	bbcb	bbcc
13A	Tiree	cwcprbc	bccprpr₀	cprbc	bc
13B	Stornoway ...	cd₀d₀	cd₀d₀r₀r₀	cd₀d₀r₀bc	c
15	Dalwhinnie ...	bcid₀c	cid₀bc	*	bcpre
	Aberdeen ...	cb	cir₀cbc	bcir₀c	c
	Wick ...	c	cd₀d₀crr	c	c
16	Sumburgh ...	cid₀ir₀	c	cps₀	cps₀
17	Blacksod Point	bc	bc	bc	r
18	Malin Head ...	c	c	pr	pr
	Aldergrove ...	bcmc	cbc	bcir m₀	cm₀fg
19	Birr Castle ...	c	bc	*	c
20	Valentia Obsy.	bc	bc	c	c
	Roches Point	c	c	c	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 28th November 1942

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Moderate to light north to northwest winds, becoming fair to fine; rather cold with frost at night.
5 S.W. England 6 South Wales	Moderate northeast winds, backing north falling light; mainly cloudy at first, brighter conditions later; rather cold or cold; local frost tonight.
7 North Wales 8 N.W. England 9 N. Midlands ...	Light winds mainly between northeast and northwest, freshening tomorrow; fair; rather cold; local frost at night.
10 N.E. England 11 S.E. Scotland ↑	Moderate to fresh northerly winds backing northwest or west temporarily; bright periods; local wintry showers near the coast; some rain or sleet tomorrow; cold with night frost inland.
12 S.W. Scotland & Isle of Man	As 7–9
13A W. Scotland ... 13B N.W. Scotland ↑ 14 Mid Scotland 15 N.E. Scotland ↑	Winds backing west to west southwest increasing, fresh to strong with gale probably on north and northeast coasts; winds veering north tomorrow, some occasional light rain or drizzle changing to sleet and snow showers tomorrow;
16 Orkneys and Shetlands ↑	cold
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Light winds mainly between north and east; fair; rather cold with some night frost.

GENERAL INFERENCE

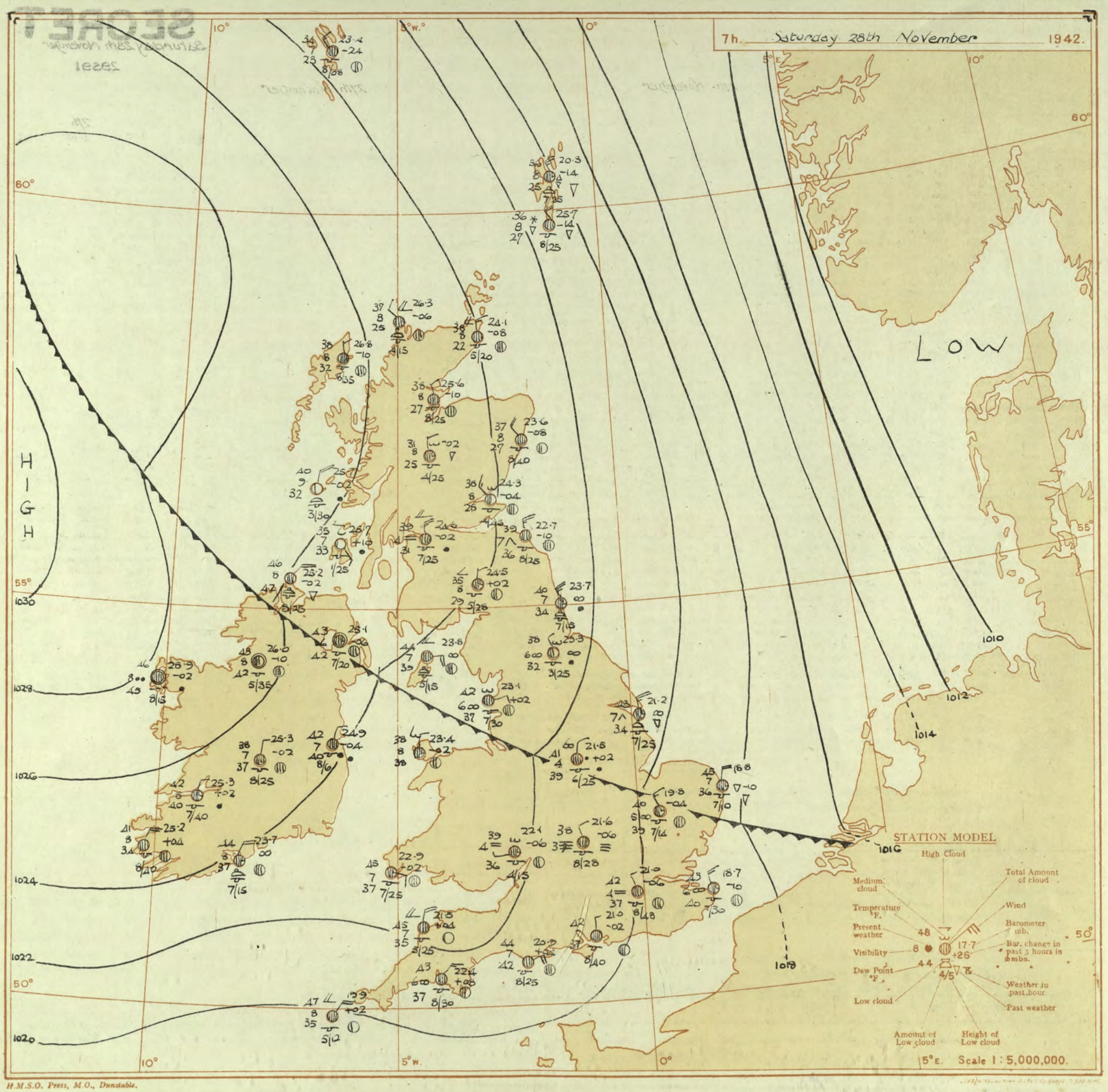
Pressure is high between Scotland and Iceland with a current of northerly winds over the North Sea. A deepening depression north of Iceland will move southeast and may later move to the North Sea, in the West and South weather will be mainly fair but there will be some light occasional rain in Scotland and a few showers near the East Coast; conditions will be rather cold.

FURTHER OUTLOOK

Cold weather generally with wintry showers in the North and probably in the East. ↑ Gale warning in operation in district 16 issued at 13.50 27 Nov districts 11, 13B, 15. 11.05 28 Nov.

Forecasts issued at 10.30.

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



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

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

Explanation of Frontal Lines shown on Charts

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

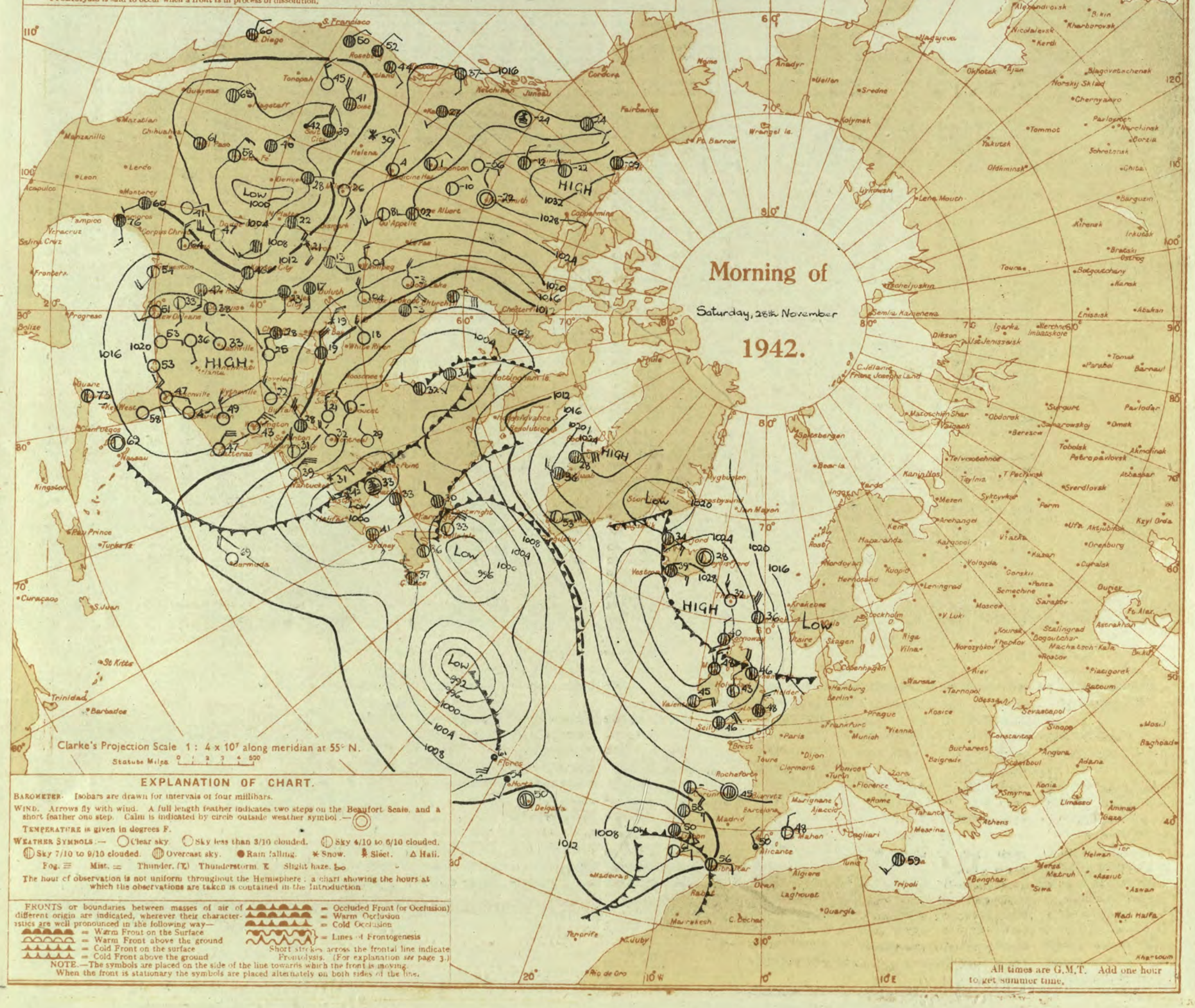
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

Page 4. BRITISH SECTION

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

Saturday 28th November 1942

No 29591

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	*	*	*	*	*	44	*	*	*	*	*	*	*	*	*
	Croydon	290	22·3	-10	NNE	3	m	42	85	38	4	5	-	-	10	10	3200
	S. Farnborough	226	21·8	-10	N	1	zo	42	85	39	6	5	7	-	9	10	3000
	Boscombe Down	417	22·7	-2	N	3	zo	42	85	38	6	5	-	-	10	10	2800
	Thorney Island	10	21·5	-6	N'E	4	c	44	85	39	7	5	-	-	9+	9+	3800
	Lympne	283	19·8	-16	N	2	c	41	85	38	7	5	-	-	10	10	2000
	Manston	154	20·3	-14	NNE	3	zo	42	85	39	6	5	-	-	10	10	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	21·2	-10	NW'W	3	zo	43	85	39	5	5	-	-	10	10	4000
	Gorleston	5	20·6	-22	NW	2	c	43	85	38	7	5	-	-	9	9	1500
	Mildenhall	15	21·2	-12	NW	3	zo	41	97	39	6	5	-	-	9+	9+	3000
	Cranwell	203	22·1	-16	W'N	2	m/f	39	97	38	4	5	-	1	7-8	7-8	4000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	07·6	-14	NW'N	2	zo	40	97	39	6	5	-	-	9+	9+	2900
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	21·7	-4	NE	4	c	46	65	36	7	5	2	-	7-8	10	2500
	Bristol	209	23·8	-4	—	0	of	42	97	41	3	5	-	-	10	10	4000
	Portland Bill	32	21·1	-6	ENE	4	o	45	92	43	7	5	-	-	10	10	2500
	Plymouth	82	21·7	-2	ENE	4	c	48	85	40	7	5	-	-	10	10	3000
	The Lizard	240	19·7	-4	NE	5	c	47	85	43	7	8	2	-	7-8	10	1000
	Scilly (St. Mary's)	163	20·3	-2	NE'E	5	c	46	85	41	7	8	7	-	7-8	9+	1200
	Guernsey	175															
6	Pembroke	142	24·0	-2	NE'E	3	c	45	85	39	7	8	2	-	7-8	10	2500
7	Holyhead (Valley)	32	24·6	-10	N'E	2	bc	43	95	38	7	-	-	6	0	4-6	—
	Chester (Sealand)	16	23·6	-12	NW'W	1	m	39	92	37	4	5	-	-	Tr	Tr	2500
8	Manchester	235	23·7	-12	NW'W	2	b-bcf	35	97	34	3	-	3	-	0	2-3	—
10	Spurn Head	29	21·3	-18	WNW	4	c	42	92	40	7	7	3	-	7-8	9+	2500
	Catterick	175	23·0	-8	NNW	3	iro	43	75	35	6	5	7	-	7-8	10	2500
	Tynemouth	108	23·9	-2	NNW	4	c	46	75	40	6	8	-	-	9+	9+	2500
11	St. Abbs Head	280	22·8	+10	WNW	5	o/r	42	85	38	7	5	-	-	10	10	2500
	Leuchars	36	24·6	+18	N	1	c	40	85	37	9	8	3	6	4-6	9+	3000
12	Renfrew (Abbots I.)	19	24·5	-10	WSW	1	zo	39	92	38	5	5	1	-	9	10	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	24·2	-12	NNE	4	b	46	86	43	8	2	-	5	Tr	1	2000
13A	Tiree	44	26·3	-6	N'E	4	bc/pr	47	85	42	8	1	4	3	Tr	4-6	2500
13B	Stornoway	15	28·2	+6	N	2	c	40	92	37	8	5	-	-	9+	9+	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	25·3	+10	NNW	4	c	39	65	28	8	5	-	-	10	10	3000
	Wick	114	25·2	+2	N	4	c	38	65	24	8	5	1	-	7-8	10	2500
16	Sumburgh	19	22·5	+6	N'W	6	ps	36	75	28	8	2	-	-	9+	9+	2500
17	Blacksod Point	18	28·2	-10	—	0	c-bc	42	97	41	8	8	-	-	7-8	7-8	2500
18	Malin Head	84	26·5	-14	N	3	c-bc	48	75	41	8	8	-	-	7-8	7-8	2500
	Aldergrove	268	26·5	-10	NNW	2	zo	41	97	39	6	5	7	-	1	9	4000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	25·7	-2	ENE	4	c	45	85	41	7	5	-	-	9+	9+	4000
	Roches Point	22	24·5	-6	NE'E	4	c	46	85	42	8	8	-	-	9+	9+	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)	26·5	-8	N'W	2	zo	42	75	36	5	5	-	-	10	10	1500	1	*	47	41	37	1	-	0·0
Croydon	21·0	-6	NNW	2	m	42	85	37	4	5	-	-	10	10	3000	1	*	45	41	40	1	-	0·0
S. Farnborough	20·4	-6	NW	2	zo	41	85	36	5	5	-	-	9+	9+	5000	1	*	45	40	34	1	0·1	0·0
Boscombe Down	21·8	-2	NNW	2	zo	40	92	37	6	5	-	-	9+	9+	2500	1	*	45	38	35	1	Tr	0·0
Thorney Island	21·0	-2	N	1	c	42	85	37	7	5	-	-	10	10	4000	1	*	47	41	39	1	Tr	*
Lympne	18·4	-4	N'W	2	zo	41	85	37	6	5	-	-	9+	9+	1800	1	§1	48	39	35	0·4	1	0·3
Manston	18·7	-10	N'W	3	zo	43	92	40	6	5	-	-	9+	9+	3000	1	*	48	42	42	1	Tr	0·0
Shoeburyness	20·1	-10	NNW	3	zo	41	85	38	5	5	1	-	9	10	2500	1	*	47	41	38	-	1	0·0
Felixstowe	19·4	-2	NW'N	4	ido	42	85	38	4	5	-	-	10	10	2300	1	1	49	41	39	0·3	Tr	0·0
Gorleston	18·8	-10	N'E	4	a/pr	48	75	36	7	5	-	-	9+	9+	1000	1	3	49	(42)	39	Tr	1	0·0
Mildenhall	19·8	-4	NNW	3	zo	40	97	39	5	5	-	-	9+	9+	1400	1	*	48	38	32	Tr	Tr	0·1
Cranwell	21·0	-2	NW'N	3	zo	41	97	39	5	5	7	-	4-6	9	1200	1	*	46	39	33	0·1	Tr	0·1
Birmingham	22·0	0	NNW	2	of	40	88	36	3	5	-	-	10	10	1500	1	*	45	38	30	-	-	0·0
Upper Heyford	21·6	-6	NNW	2	df	38	92	35	3	5	-	-	10	10	2800	1	*	46	35	30	0·3	0·1	*
Ross-on-Wye	22·1	-6	W'S	1	m	39	92	36	4	5	3	-	4-6	9+	1500	1	*	44	38	29	0·6	-	0·0
Hartland Point	21·5	+4	NNE	4	c	45	65	35	7	5	2	-	7-8	10	2500	0	3	46	43	43	-	-	0·1
Bristol	22·9	0	—	0	cf-	39	97	37	3	5	-	-	9+	9+	4000	1	*	45	38	28	0·5	Tr	0·0
Portland Bill	20·9	+4	ENE	4	o	44	92	42	7	5	-	-	10	10	2500	1	4	45	42	*	-	-	*
Plymouth	22·4	+8	NE	3	zo	43	75	37	6	5	-	-	10	10	3000	0	2	47	43	40	-	-	0·2
The Lizard	20·2	+8	NE	5	o	46	65	36	6	5	-	-	10	10	1500	0	4	47	44	*	0·3	Tr	0·0
Scilly (St. Mary's)	19·9	+2	NE'E	5	c	47	65	35	8	5	2	-	7-8	10	1200	1	4	47	46	*	2	-	0·0
Guernsey																							
Pembroke	22·9	-2	E'S	2	c	45	75	37	7	5	-	-	9+	9+	2500	0	2	48	41	*	Tr	-	0·5
Holyhead (Valley)	23·4	-2	N'E	2	c	38	97	38	8	-	5	-	0	9+	—	0	1	49	36	30	-	-	*
Chester (Sealand)	22·9	0	NW'W	2	m	41	92	40	4	5	-	-	10	10	2200	1	*	46	38	29	Tr	-	0·0
Manchester	23·1	0	N'E	3	cf	39	97	37	3	-	7	-	0	10	—	1	*	45	34	23	Tr	Tr	*
Spurn Head	21·2	0	N	5	cq	43	75	34	7	8	-	-	9+	9+	2500	1	4	54	41	*	Tr	0·1	0·4
Catterick	23·3	0	NNW	2	zo	38	75	32	6	5	3	-	2-3	4-6	2500	1	*	45	37	30	0·3	Tr	0·0
Tynemouth	23·7	0	NNW	5	c	40	85	34	7	8	-	-	9+	9+	1500	1	4	49	40	39	1	2	*
St. Abbs Head	22·7	-10	N	5	oq	39	55	26	7	5	-	-	10	10	2500	0	5	46	38	*	0·1	0·2	
Leuchars	24·3	-4	NNW	3	c-bc	38	65	28	9	5	3	-	4-6	7-8	4500	1	*	48	36	28	-	Tr	3·8
Renfrew (Abbots I.)	24·6	-2	ESE	2	m	39	75	31	4	5	2	-	9+	10	2500	1	*	48	35	29	-	Tr	2·7
Eskdalemuir	24·5	+2	NNE	2	c	35	75	29	8	5	1	-	7-8	9	2800	0	*	47	32	25	-	-	3·8
Point of Ayre	23·8	0	E	4	c	44	88	39	7	8	2	-	7-8	10	1500	0	3	49	44	*	-	-	1·0
Tiree	25·7	-2	NNE	4	b-bc	40	75	32	9	4	-	-	2-3	2-3	3000	0	4	50	40	*	0·2	Tr	2·3
Stornoway	26·8	-10	N	2	c	38	85	32	8	5	-	-	10	10	3500	1	*	48	38	34	0·2	0·2	0·1
Dalwhinnie	25·8	-2	N	2	c	31	75	25	8	5	3	-	4-6	9+	2500	1	*	42	31	26	0·2	1	0·6
Aberdeen †	23·6	-8	NW'N	4	c	37	65	27	8	5	-	-	10	10	4000	1	2	47	37	36	Tr	0·1	0·4
Wick	24·1	-8	N	3	o	38	75	29	8	5	2	-	7-8	10	2000	1	*	47	37	*	0·3	-	*
Sumburgh	20·7	-14	NNW	4	ps	36	65	27	8	5	-	-	10	10	2500	1	4	49	35	33	0·3	Tr	0·0
Blacksod Point	28·9	-2	—	0	roro	46	97	45	8	6	-	-	10	10	1500	1	2	51	40	*	0·1	1	*
Malin Head	25·2	-2	NE	4	c	46	85	42	8	8	-	-	10	10	2500	1	4	49	46	*	-	0·5	1·3
Aldergrove	25·1	-6	—	0	fg	43	97	42	6	5	-	-	9+	9+	2000	1	*	49	35	28	-	0·3	3·3
Birr Castle	25·3	-2	N	1	c	38	97	37	7	5	-	-	10	10	2500	1	*	47	36	32	-	-	0·9
Valentia Obsy.	25·2	+4	NE	4	c	45	75	34	8	5	-	-	10	10	4000	1	3	47	44	42	-	-	4·6
Roches Point	23·7	0	NNE	4	c	44	75	37	8	8	-	-	9+	9+	1500	1	3	47	44	*	-	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 27th November — 18h. G.M.T. — 01h. G.M.T. 28th November — 07h. G.M.T.

III $C_L C_M$ (13h)	$wwVhN_h$	DDFWN	$C_L C_M$ (18h)	$wwVhN_h$	DDFWN	$C_L C_M$ (01h)	$wwVhN_h$	DDFWN	$C_L C_M$ (07h)	$wwVhN_h$	DDFWN
100 57	21865	25656	5-	22648	31758	5-	02756	31626	5-	02768	28488
115 52	62735	28568				87	02844	32326	82	02844	28227
203			5-	61838	28466	8-	02847	32467	5-	03948	32428
206 5-	21856	24566	5-	02856	26356	87	02865	02257	5-	02858	30228
210 5-	21854	23357	5-	02858	25358	57	02844	34468	57	02855	28428
220			53	08454	27124				03	01790	32103
230 5-	02857	00027	5-	02966	26356	5-	02965	28325	00	00890	04220
245 5-	02866	23216	5-	01863	22313	57	02862	01327	57	02965	31227
260 50	08463	20124	5-	08464	20224	5-	52558	30158	03	01790	28213
278 74	02835	28315				55	01861	25313	5-	51758	12218
279 54	05575	31226	50	45361	18141	57	05597	30128	57	05665	03327
285 5-	22637	02367	5-	03748	32228						
288 5-	05568	01148	00	45390	25240	5-	51458	26328	57	08455	26358
575 70	01862	04102	5-	02867	06127	5-	02867	08117	5-	02865	00025
301 5-	05546	04267	5-	08468	02148	00	05590	02113	53	05667	06228
321 3-	08467	31157	57	08462	00013	5-	45367	24247	53	05656	28558
299 5-	02748	04268	5-	45257	04227	5-	05658	28428	8-	14747	30617
292 8-	02866	03146	5	08458	28148	53	05662	28244	53	05655	28357
310 --	08428	04328	--	02638	04318						
614 5-	05558	04268	5-	08453	32183	03	44190	28247	57	22456	02268

III $C_L C_M$ (13h)	$wwVhN_h$	DDFWN	$C_L C_M$ (18h)	$wwVhN_h$	DDFWN	$C_L C_M$ (01h)	$wwVhN_h$	DDFWN	$C_L C_M$ (07h)	$wwVhN_h$	DDFWN
333			5-	05568	32128	5-	05678	29228	50	01862	00014
334 -	52437	10258							--	44209	40028
340 5-	45358	32148	53	45364	30147	53	45364	30147	5-	45358	32148
136 7-	02767	05227	5-	21667	04257	5-	05555	26357	5-	05658	65558
336 52	05545	04328	50	08448	04328				53	02753	04316
350 8-	05656	04346	8-	05658	02528	5-	05657	27227	5-	08448	30348
368 5-	61545	04368	5-	22568	04268	5-	05667	04268	07	05590	00026
379 54	05637	04367	5-	21638	02458				53	05547	32328
390 5-	05636	02328	5-	05578	02328	5-	05547	30327	5-	47358	30328
388 57	05646	04267	5-	51644	04358	5-	05666	02226	5-	05557	32227
438 87	02846	04318	02	03638	32458	5-	02646	32426	87	02744	32327
430 5-	21648	04358	5-	52544	35428	5-	05557	04357	5-	05667	00027
400 5-	05667	24327	07	45326	22346	5-	05658	04428	53	01763	04423

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 28th 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 *	ddf0m	cir0cm0	cm0
Croydon	pfmdm0	cdbc0cm	cm
Greenwich	cid0m0	cid0m0	cm0
Camden Square	o	o	*
Kensington	cdbc	cdo	*
Hampstead	o	o	

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 0·4 Time 12-14h 27th
Min. <0·1 Time 0-2h 28th

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	37	1	-	0·0	*	*
Croydon	45	41	40	1	-	0·0	*	*
Greenwich	47	41	38	0·3	-	0·0	89	84
Westminster	49	41	37	0·2	*	*	85	85
Regents Park	47	41	41	Tr	-	*	85	87
Camden Square	47	42	38	0·3	-	*	*	86
Kensington	48	42	39	Tr	-	*	87	8
Hampstead	45	39	35	0·6	-	*	*	94

SECRET

Page 1 BRITISH SECTION

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

Sunday 29th November 1942

No. 29592

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)	Amount Low 0–10 (13)	Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	21.4	-2	NNE	4	zo	44	65	34	6	8	-	-	7-8	7-8	2500
	Croydon	21.8	0	N'E	3	zo	44	75	35	6	2	-	1	7-8	7-8	2300
	S. Farnborough	21.8	-2	N	2	zo	44	65	32	5	5	7	5	4-6	7-8	2000
	Boscombe Down	22.4	-2	NNE	3	c	43	75	36	7	5	-	-	10	10	3000
	Thorney Island	21.3	-2	N'E	4	zo	45	75	38	6	5	-	-	10	10	2500
	Lympne	20.3	+6	NNE	2	c	43	75	35	8	2	3	-	4-6	9	2500
	Manston	20.4	+2	NNE	4	c-bc	44	65	34	8	8	-	-	7-8	7-8	3000
2	Shoeburyness	21.2	+12	N'E	2	ido	44	75	35	8	5	2	-	7-8	10	1500
	Felixstowe	20.6	+2	NNW	3	c	43	65	33	7	5	-	-	10	10	4000
	Gorleston	20.0	+6	N	4	c/d	43	65	32	7	5	-	-	9+	9+	1200
	Mildenhall	21.3	-2	NW'N	3	c/pr	42	85	37	7	8	-	-	7-8	9+	1200
	Cranwell	22.2	0	NW'N	3	zo	41	85	35	6	5	7	-	7-8	9	4500
3	Birmingham	32.1	-6	NE	2	c-bc	41	85	37	6	5	7	-	4-6	7-8	2500
	Upper Heyford	22.4	-2	NNE	3	c	41	85	36	6	5	-	-	9	9	3500
4	Ross-on-Wye	22.9	0	W	1	zo	42	85	36	5	5	-	-	9+	10	3000
5	Hartland Point	22.4	-2	NE	3	c	36	65	26	7	5	2	1	9	10	3300
	Bristol	23.5	-2	NNE	2	of	42	92	39	3	5	-	-	10	10	2500
	Portland Bill	21.9	+2	ENE	4	c	44	92	42	7	5	-	-	10	10	2500
	Plymouth	22.7	-4	EN	2	c	46	75	37	8	5	7	5	4-6	9	3000
	The Lizard	21.3	0	ENE	5	c-bc	46	75	38	8	8	6	-	7-8	7-8	1500
	Scilly (St. Mary's)	21.5	+6	ENE	5	bc	49	75	40	8	5	-	-	4-6	4-6	1600
	Guernsey															
6	Pembroke	23.9	+2	NE'E	3	c	46	75	38	7	5	-	-	10	10	2600
7	Holyhead (Valley)	23.6	-4	E	1	c	47	75	40	7	5	-	-	9+	9+	4000
	Chester (Sealand)	23.4	-6	-	0	zo	43	55	30	6	5	-	-	9+	9+	3000
8	Manchester	23.1	-6	NE'E	2	zo	41	65	31	6	5	-	-	4-6	4-6	4000
10	Spurn Head	21.8	-4	NW	4	c	43	75	37	7	8	-	-	9+	9+	1500
	Catterick	23.3	-4	NNW	2	c-bc	40	65	29	7	7	3	-	4-6	7-8	3500
	Tynemouth	22.5	-10	NW	3	c	40	75	32	6	5	-	-	9	9	2400
11	St. Abbs Head	21.7	-6	WNW	3	c-bc	39	65	28	7	5	-	-	7-8	7-8	2500
	Leuchars	21.9	-16	W	3	b-bc	37	75	30	7	1	4	5	Tr	2-3	3000
12	Renfrew (Abbots I.)	22.8	-14	W'N	1	zo	39	75	32	6	5	7	-	9	10	2500
	Eskdalemuir	23.1	-14	WNW	1	c	36	75	27	8	5	-	-	9	9	2500
	Point of Ayre	23.6	+2	SE	2	c	43	75	36	8	5	-	-	9+	9+	4500
13A	Tiree	24.5	-12	N'W	3	bc	43	65	33	9	5	-	-	4-6	4-6	3800
13B	Stornoway	22.1	-26	W	4	c	42	75	35	8	5	3	-	1	9+	3500
15	Dalwhinnie	22.2	+8	NW	2	c	32	75	23	8	5	-	-	9	9	2500
	Aberdeen	21.0	-18	WNW	4	c	38	65	28	8	5	-	-	9+	9+	2500
	Wick	19.1	-30	NW	3	prso	37	92	34	8	8	-	-	10	10	3000
16	Sumburgh	15.0	-38	NW	4	prso	38	75	32	8	8	-	-	9+	9+	2000
17	Blacksod Point	25.7	-10	-	0	c/d	49	97	48	8	8	-	-	9	9	1500
18	Malin Head	24.6	-8	N'E	2	c-bc	45	75	39	8	8	-	-	7-8	7-8	2500
	Aldergrove	24.2	-10	NW	2	bc	44	75	36	7	5	-	-	4-6	4-6	2000
19	*Birr Castle	25.2	-2	NNW	1	iro	44	97	43	7	5	-	-	10	10	1500
20	Valentia Obsy.	24.4	-12	E'N	4	b	47	75	40	9	7	-	-	1	1	4000
	Roches Point	24.8	-2	NNE	3	c	45	85	41	8	5	-	-	9+	9+	2500

OBSERVATIONS at 18h. G.M.T. 28th 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)	°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)
London (Kew)	21.4	+4	NNW	2	zo	42	75	34	5	5	-	-	10	10	2500	1	*
Croydon	21.6	0	NNW	2	m	46	85	41	4	5	-	-	10	10	4000	1	*
S. Farnborough	21.7	+2	NNW	2	zo	41	75	35	5	5	-	-	10	10	3200	0	*
Boscombe Down	22.6	+6	N'W	1	zo	37	85	33	6	5	-	-	4-6	4-6	3000	0	*
Thorney Island	21.3	0	N'W	2	m	40	85	36	4	5	-	-	9+	9+	4000	1	*
Lympne	20.7	+6	NW'W	2	b-bc	37	85	34	7	5	-	-	2-3	2-3	6000		1
Manston	20.6	+8	N	2	c	42	65	33	8	5	-	-	2-3	10	2500	1	*
Shoeburyness	21.1	-2	N'E	5	c	41	85	36	7	5	-	-	10	10	4000	1	*
Felixstowe	20.9	-10	W'N	3	ido	42	75	36	6	5	-	-	10	10	2500	1	2
Gorleston	19.5	0	NW	2	c-bc/d	41	97	40	7	5	-	-	7-8	7-8	1500	1	3
Mildenhall	20.6	-2	NW'W	2	zo	40	85	36	6	5	-	-	10	10	3000	1	*
Cranwell	21.2	-2	W'N	3	zo	38	75	32	5	5	7	-	4-6	9+	2900	1	*
Birmingham	21.9	-2	NW	2	zo	39	65	28	5	5	-	-	10	10	1500	1	*
Upper Heyford	22.0	+2	N'W	2	zo	37	75	31	7	5	-	-	2-3	2-3	5700	0	*
Ross-on-Wye	22.4	0	SSW	1	zo	40	85	35	5	5	-	-	10	10	2000	1	*
Hartland Point	22.2	+4	ENE	3	c	43	75	36	6	5	2	-	7-8	10	2500	0	3
Bristol	23.1	+2	-	0	of+	40	85	35	3	5	-	-	10	10	3500	1	*
Portland Bill	21.9	+4	NE	4	c-bc	44	92	42	7	5	-	-	7-8	7-8	4000	1	4
Plymouth	23.0	+8	E	2	zo	44	85	40	5	5	2	-	9	10	2000	0	2
The Lizard	21.8	0	NNE	4	o	45	75	38	8	5	-	-	10	10	1500	0	4
Scilly (St. Mary's)	21.8	+4	ENE	3	c	46	75	38	7	5	-	-	10	10	1500	0	3
Guernsey																	
Pembroke	23.1	0	SE'S	2	c	46	75	35	7	5	-	-	10	10	2500	0	2
Holyhead (Valley)	22.0	-4	NW'N	3	zo	46	85	43	6	5	-	-	7-8	10	1500	0	2
Chester (Sealand)	21.4	-14	-	0	zo	41	75	32	5	5	-	-	10	10	3400	0	*
Manchester	21.5	-8	SSW	2	m	38	85	33	4	5	-	-	10	10	3300	1	*
Spurn Head	20.8	0	WNW	5	bc	40	75	32	6	7	1	-	4-6	4-6	2500	0	4
Catterick	20.4	-18	SW	1	zo	37	75	30	6	5	-	-	10	10	3200	1	*
Tynemouth	19.7	-18	W	3	zo	39	75	31	5	5	-	-	9+	9+	2500	1	4
St. Abbs Head	17.3	-20	WNW	4	c-bc	37	85	32	7	5	-	-	7-8	7-8	2500	0	4
Leuchars	17.6	-28	W	3	bc	35	75	29	8	5	4	-	1	4-6	5000	0	
Renfrew (Abbots I.)	19.9	-14	WNW	4	bc	37	75	31	7	5	-	-	4-6	4-6	3000	1	*
Eskdalemuir	19.7	-14	W'S	3	bc	34	85	28	7	5	-	-	4-6	4-6	1800	0	*
Point of Ayre	20.8	-14	N	5	b-bc	44	85	38	8	5	-	-	2-3	2-3	2000	0	4
Tiree	20.5	-22	WNW	2	c/r	45	85	40	8	5	-	-	9+	9+	2000	0	2
Stornoway	16.2	-24	W	5	roro	42	92	44	6	5	-	-	10	10	600	1	*
Dalwhinnie		-22	W	3	c	35	85	29	8	5	3	-	7-8	10	2500	0	
Aberdeen	15.2	-26	WSW	2	c	38	75	30	6	5	1	7	1	10	4000	1	2
Wick	12.2	-32	SW'W	4	roro	38	92	34	7	5	-	-	10	10	1500	1	
Sumburgh	06.1	-58	NW	7	c	44	85	40	8	5	7	-	7-8	10	2500	1	4
Blacksod Point	24.6	-2	-	0	c-bc/d	46	97	45	8	6	-	-	7-8	7-8	2500	1	1
Malin Head	22.3	-14	NW	3	c	45	85	41	8	8	-	-	9+	9+	1500	1	3
Aldergrove	22.6	-10	WNW	3	c	42	75	35	7	5	-	-	9+	10	2000	1	*
*Birr Castle	24.0	-2	NW	1	c	43	97	42	7	5	-	-	10	10	1500	1	*
Valentia Obsy.	24.4	+6	ENE	2	b	39	85	35	8	5	-	-	Tr	Tr	2500	1	2
Roches Point	24.5	+2	NNE	3	c	45	85	41	8	5	-	-	9+	9+	1500	1	3

PAST 24 HOURS.

Stations	Weather 7h.–13h. 28th (39)	13h.–18h. 28th (40)	18h. 28th to 1h. 29th (41)	1h.–7h. 29th (42)
London (Kew)	cirocz o	cz o	cbcbz o	bcz o m o
Croydon	cmid o cz o	bcz o cz o cm	bmx	cmxid o bcm o
S. Farnborough	cmod o bcz o	bcz o cz o	cz o wbcmx	bcmxz o bcm o
Boscombe Down	cmo	cbcmo	bcm o	cbccmx
Thorney Island	ccircmo	bcmocmo	cm o bcmb	bcm
Lympne	cmoidoc	cbc	bc	bcxc
Manston	cmoc	c	cmz o	bcm
Shoeburyness	cmobcid o	cidoc	bc	cm o bc
Felixstowe	cmoc	cmocidmo	cmbm o cm o	bcm o cm o
Gorleston	cproido	cido	cz o	cz o z o
Mildenhall	ccproc	ccproc	cm o	cmbm o cm o
Cranwell	cmo	cmo	cbcm o	bccm o w
Birmingham	fc	cz	bbc	bcproc/
Upper Heyford	cfidomoc	bczoc	bcbcm o	cm o d o d o c
Ross-on-Wye	omcmo	cz	cm o	cbc
Hartland Point	cy	c	cbcc	circ
Bristol	cfrodocf	cfcmcf	cmm o m	cmm o bc
Portland Bill	c	c	c	c
Plymouth	cmoc	cmo	cm o bcm o	cm o xid o
The Lizard	c	co	cocz o	cz o c
Scilly (St. Mary's)	cbc	bcc	c	c
Guernsey				
Pembroke	c	c	cdd o	cpr o
Holyhead (Valley)	cmoc	cmo	cm o	cm o
Chester (Sealand)	cmmozo	zoc	czc	cpr o
Manchester	cmbczo	bcczocz	czbcc	cm o
Spurn Head	c	bc	c	cm o
Catterick	bcmobc	bcczo	bcz o cz o	bcc
Tynemouth	c	cmo	cbcq	bccqoir o
St. Abbs Head	c	c	cbcqc	cr o o
Leuchars	cbcbbc	cbccbc	bcc	ccir o
Renfrew (Abbots I.)	cmcmo	bc	bccm o i o cbc	bcm o irc
Eskdalemuir	clocc	cbc	bc	bcpr o c
Point of Ayre	c	cbcb	bbcc	d o d o prc
Tiree	bc	bccir o	pr o bccpr	cpr
Stornoway	c	cirocdocbc	r o s o cm o r o r o	cmr o r o cmc
Dalwhinnie	c	co		oir
Aberdeen	c	c	cir o ir	cprbc
Wick	cps.ccprs o	cprocroro	cpr	cphps o
Sumburgh	cprs o	c	cps o c	bcph o bc
Blacksod Point	d	d	r	pr
Malin Head	c	c	r	pr
Aldergrove	bmobc	bcc	cbccir o	cir o bcc
*Birr Castle	r	r	*	d
Valentia Obsy.	or	b	bc	c
Roches Point	c	pr	c	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 29th November 1942.

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Light to moderate west to northwest winds; fair at first in the South, becoming cloudy to overcast with some light rain or drizzle; perhaps local wintry showers near the coast of East Anglia later; cold.
5 S.W. England; 6 South Wales	Light to moderate northwest winds; mainly fair with some bright intervals; rather cold.
7 North Wales; 8 N.W. England	Moderate northwest winds, fresh locally on the coast; cloudy to overcast; some occasional light rain or drizzle; cold.
9 N. Midlands; 10 N.E. England; 11 S.E. Scotland	Moderate northerly winds; fresh locally on the coast, decreasing slowly, bright periods, wintry showers; cold.
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland	Moderate or fresh northwest winds, backing west later; mainly cloudy; occasional light rain or drizzle with a chance of sleet locally; cold.
14 Mid Scotland; 15 N.E. Scotland	Moderate northerly winds, falling light, snow and hail showers; bright intervals more cloud tomorrow; cold.
16 Orkneys and Shetlands	As 14-15.
17 N. W. Ireland	As 5-6
18 N. E. Ireland	As 12-13B
19 S. E. Ireland; 20 S. W. Ireland	As 5-6

GENERAL INFERENCE

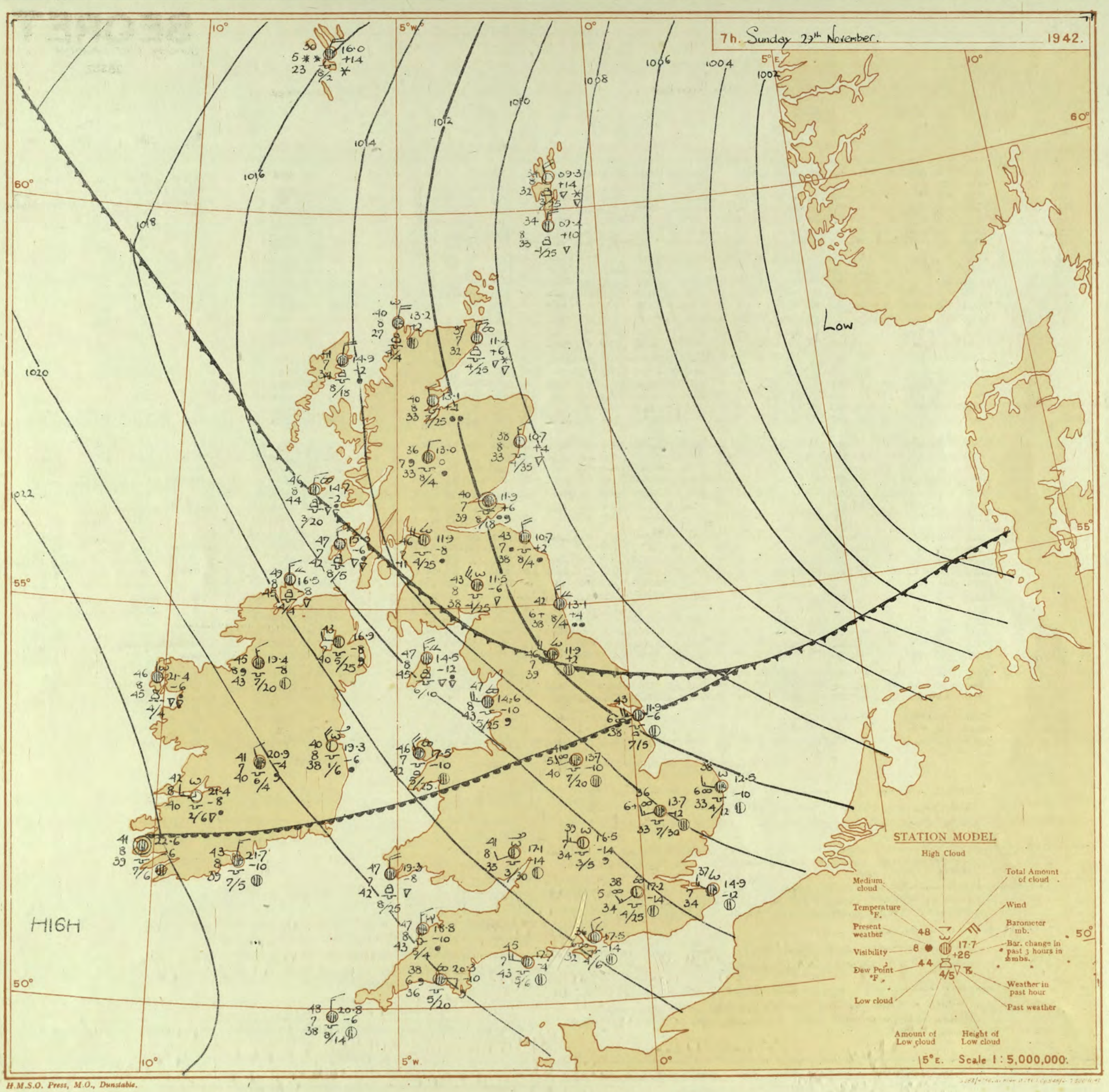
Pressure remains high to westnorthwest of the British Isles and a trough of relatively low pressure is moving slowly south of England but with decreasing speed. A small disturbance from the Icelandic area is expected to move toward northwest Scotland; in the Northeastern half of the country there will be wintry showers; some light rain will spread to the midlands east and Southeast England, conditions will be cold in most districts.

FURTHER OUTLOOK

Continuing cold with rather wintry conditions in the North east half of the country.

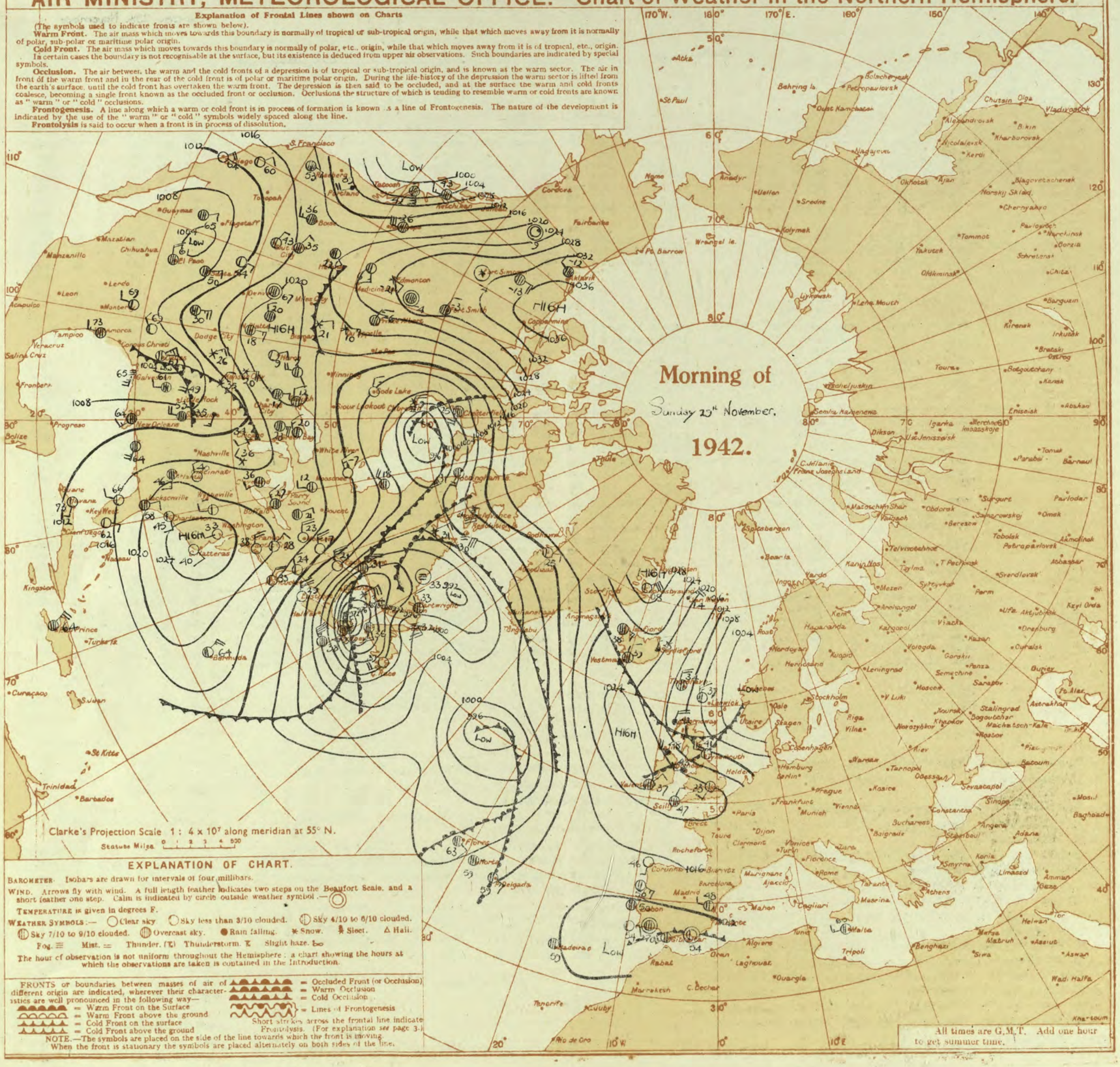
Forecasts issued at 10.30.

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



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

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



Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS:— ◯ Clear sky. ◯ Sky less than 3/10 clouded. ◐ Sky 4/10 to 6/10 clouded. ◐ Sky 7/10 to 9/10 clouded. ◍ Overcast sky. ● Rain falling. ✱ Snow. Sleet. △ Hail. Fog. ≡ Mist. = Thunder. (℄) Thunderstorm. ⁓ Slight haze.

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

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

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

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

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

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

Page 4.

BRITISH SECTION

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

Sunday 29th November 1942

No. 29592

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	*	*	*	*	*	36	*	*	*	*	*	*	*	*	*
	Croydon	290	20·0	-18	SSW	2	m	33	85	29	4	-	4	-	0	1	-
	S. Farnborough	226	19·8	-14	W'S	2	z₀	31	85	28	6	-	5	-	0	4-6	-
	Boscombe Down	417	21·2	-10	SW	2	z₀	31	75	29	6	-	3	-	0	2-3	-
	Thorney Island	10	20·1	-12	W'N	2	b	35	85	31	7	-	-	-	0	0	-
	Lympne	283	18·9	-16	WSW	2	b	35	75	29	7	-	-	-	0	0	-
	Manston	154	16·0	-12	W	2	z₀	36	75	30	6	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	17·5	-10	WSW	4	z₀	39	75	31	5	-	7	9	0	9	-
	Gorleston	5	16·5	-20	W'S	3	z₀	34	85	30	6	5	-	-	9+	9+	1500
	Mildenhall	15	16·8	-24	SW'W	4	z₀	35	85	30	6	5	-	-	9+	9+	4200
	Cranwell	203	15·7	-22	W'S	4	z₀	36	85	33	5	-	3	-	0	4-6	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	19·5	-14	WSW	3	z₀	35	85	32	6	5	-	-	10	10	3100
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	20·4	-16	SSW	3	c-bc	44	75	35	7	5	3	-	2-3	7-8	2500
	Bristol	209	21·1	-10	-	0	m	40	85	35	4	5	-	-	9	9	4000
	Portland Bill	32	18·4	-14	W	4	c-bc	41	92	39	7	5	-	-	7-8	7-8	4000
	Plymouth	82	22·3	-6	ENE	2	z₀	39	75	32	6	-	4	-	0	2-3	-
	The Lizard	240	22·1	-2	NNE	3	c	43	85	37	7	5	2	-	9	10	1500
	Scilly (St. Mary's)	163	21·7	-6	NNE	1	c	47	65	36	7	5	-	-	10	10	1400
	Guernsey	175															
6	Pembroke	142	20·5	-6	NW'W	2	d₀d₀	41	97	40	7	5	-	-	9+	9+	2500
7	Holyhead (Valley)	32	20·0	-10	SW	2	z₀	43	85	38	6	5	7	-	4-6	9	2000
	Chester (Sealand)	16	18·3	-10	WNW	3	bc	42	85	37	7	2	6	6	2-3	4-6	2500
8	Manchester	235	18·0	-14	W'S	2	z₀	38	85	35	6	5	3	-	2-3	7-8	4000
10	Spurn Head	29	15·1	-20	W	6	c-bc	39	85	34	6	5	3	-	2-3	7-8	4000
	Catterick	175	13·9	-28	W'N	5	z₀	41	75	34	6	-	7	-	0	7-8	-
	Tynemouth	108	13·1	-24	W	6	b-bcq	41	85	36	7	-	4	-	0	2-3	-
11	St. Abbs Head	280	09·9	-10	W	5	c	45	85	40	7	5	-	-	9	9	2500
	Leuchars	36	10·6	-22	WNW	4	o	42	85	39	9	5	3	6	4-6	9+	4000
12	Renfrew (Abbots I.)	19	13·6	-22	W	3	c	45	85	41	7	5	7	-	4-6	4-6	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	17·1	-22	NW	6	c	46	85	42	8	5	-	*	9+	9+	3000
13A	Tiree	44	16·2	-14	NW	5	bc/pr	47	85	42	8	3	6	3	1	4-6	2000
13B	Stornoway	15	14·9	+2	N	4	r₀r₀	42	92	40	6	5	-	-	10	10	1200
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	10·8	+14	NNW	4	r₀r₀	39	65	31	8	5	-	-	10	10	2200
	Wick	114	10·5	+6	NNW	4	pR	39	92	37	6	8	7	-	7-8	9+	1000
16	Sumburgh	19	07·5	+10	N	5	bc/ps	35	75	28	8	8	4	2	2-3	4-6	2500
17	Blacksod Point	18	23·0	-10	NW	1	r₀r₀	45	97	44	8	6	2	-	4-6	9+	2500
18	Malin Head	84	18·3	-18	W'N	5	pr₀	48	85	44	8	8	2	-	7-8	10	1500
	Aldergrove	268	19·3	-16	W	3	ir₀	42	92	40	7	5	-	-	9+	9+	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	24·0	-6	NE	1	c	37	92	35	8	5	-	-	9+	9+	4000
	Roches Point	22	24·0	-6	N	3	c	44	85	40	8	6	3	-	4-6	9	2500

OBSERVATIONS at 7 hr. G.M.T. 29th 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)	16·3	-10	WSW	2	z₀	38	85	34	6	-	5	1	0	7-8	-	1	*
Croydon	17·2	-14	SW	3	z₀	38	85	34	5	5	7	-	4-6	4-6	2500	1	*
S. Farnborough	16·8	-14	W	3	z₀	37	85	32	6	-	7	-	0	2-3	-	0	*
Boscombe Down	18·1	-10	W	3	z₀	34	97	33	6	-	7	6	0	9+	-	0	*
Thorney Island	17·5	-14	NW	1	z₀	36	85	32	6	5	4	-	4-6	7-8	4000	4	*
Lympne	16·0	-18	W'N	3	o	36	85	32	7	-	7	-	0	9+	-	1	3
Manston	14·9	-12	WNW	3	c	37	92	34	7	-	5	-	0	9	-	1	*
Shoeburyness	15·7	-12	W'N	3	z₀	37	85	33	6	-	1	-	0	7-8	-	0	*
Felixstowe	15·5	-6	W	3	z₀	39	65	28	5	-	7	6	0	7-8	-	0	1
Gorleston	12·5	-10	W'N	3	z₀	38	85	33	6	5	3	-	4-6	9	1200	0	3
Mildenhall	13·7	-12	WSW	3	z₀	36	92	33	6	5	-	-	9+	9+	3000	1	*
Cranwell	13·2	-10	W'S	3	z₀	37	92	35	5	5	7	-	4-6	7-8	800	0	*
Birmingham	15·9	-14	W	3	c	41	75	37	6	5	-	-	9+	9+	1500	1	*
Upper Heyford	16·5	-14	W	3	bc	39	85	34	7	5	3	-	2-3	4-6	2500	0	*
Ross-on-Wye	17·1	-14	SW'W	2	bc	41	75	35	8	5	3	2	2-3	4-6	3000		*
Hartland Point	18·8	-10	NNW	3	c	47	85	43	8	4	6	-	7-8	9	1500	1	3
Bristol	18·7	-10	WSW	2	bc	39	92	37	7	5	4	1	2-3	4-6	4000	1	*
Portland Bill	17·7	-4	W	4	c-bc	45	92	43	7	5	-	-	7-8	7-8	4000	1	4
Plymouth	20·3	-10	E	2	id₀	38	92	36	6	5	7	-	7-8	9+	2000	1	2
The Lizard	20·5	-6	NW	3	o	46	65	36	6	5	-	-	10	10	1500	0	3
Scilly (St. Mary's)	20·8	-6	NNW	3	c	48	65	38	7	5	-	-	10	10	1400	0	3
Guernsey																	
Pembroke	19·3	-8	NNW	4	c	47	85	42	7	8	-	-	10	10	2500	0	3
Holyhead (Valley)	17·5	-10	NW'W	4	c	46	85	42	7	7	7	-	7-8	9+	2500	0	3
Chester (Sealand)	15·4	-12	WNW	4	c/pr	46	85	41	8	8	6	-	4-6	9	2000	1	*
Manchester	14·8	-14	W	4	z₀	45	85	41	6	5	7	-	7-8	10	1300	0	*
Spurn Head	11·9	-6	W'S	5	z₀	43	85	38	6	7	-	-	9+	9+	2500	0	4
Catterick	11·9	+2	WNW	4	c	46	75	39	7	-	3	-	0	9	-	1	*
Tynemouth	13·1	+4	NNW	3	o/r	42	97	41	6	-	2	-	10	10	1500	1	3
St. Abbs Head	10·7	+2	NW	4	ir₀	43	85	38	7	5	-	-	10	10	1500	1	4
Leuchars	11·9	-6	-	0	o/d	40	97	39	7	5	-	-	10	10	1800	1	*
Renfrew (Abbots I.)	11·9	-8	WNW	4	c-bc	46	85	41	7	5	3	-	4-6	7-8	2500	1	*
Eskdalemuir	11·5	-6	WNW	5	c	43	85	39	8	5	3	-	4-6	9	2500	1	*
Point of Ayre	14·5	-12	NW'N	5	c/pr	47	92	45	8	8	2	-	9	9+	1000	1	4
Tiree	14·7	-2	N	3	c-bc/pr	46	92	44	8	8	7	3	2-3	7-8	2000	1	4
Stornoway	14·9	-2	N	4	c	41	75	34	7	8	-	-	10	10	1800	1	*
Dalwhinnie	13·0	0	N	2	id₀	36	92	33	7	5	-	-	10	10	1500	1	*
Aberdeen †	10·7	+4	NW'N	3	bc	38	85	33	8	5	-	-	4-6	4-6	3500	1	3
Wick	11·4	+6	N'W	4	c-bc/ps	37	85	32	7	8	7	-	4-6	7-8	2500	1	*
Sumburgh	09·4	+10	N	5	bc	34	97	33	8	2	-	-	4-6	4-6	2500	4	4
Blacksod Point	21·4	-6	NNW	2	c/pr	46	97	45	8	9	3	-	4-6	9+	1500	1	2
Malin Head	16·5	-8	NNW	3	c-bc	49	85	45	8	8	2	-	4-6	7-8	1500	1	3
Aldergrove	16·9	-8	W	3	c-bc	43	85	40	7	5	-	-	7-8	7-8	2500	1	*
Birr Castle	20·9	-4	NW	1	c	41	97	40	7	5	-	-	9	9	1500	1	*
Valentia Obsy.	22·6	-6	-	0	o	41	92	39	8	5	-	-	9+	9+	4000	1	0
Roches Point	21·7	-10	N	3	c	43	85	39	8	5	-	-	9+	9+	2500	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 28th Hrs. (38)
London (Kew)	44	35	23	Tr	-	1·2
Croydon	47	30	28	-	-	0·8
S. Farnborough	46	31	18	-	Tr	0·6
Boscombe Down	43	30	19	Tr	Tr	0·4
Thorney Island	45	33	27	-	-	*
Lympne	45	33	28	Tr	-	0·4
Manston	45	33	30	Tr	-	0·0
Shoeburyness	46	36	26	Tr	Tr	0·7
Felixstowe	44	36	31	Tr	Tr	0·0
Gorleston	45	34	31	0·1	-	0·0
Mildenhall	43	33	27	Tr	Tr	0·3
Cranwell	41	34	32	-		0·0
Birmingham	42	35	28	-	Tr	0·1
Upper Heyford	43	30	23	-	Tr	*
Ross-on-Wye	43	36	30	-	-	0·0
Hartland Point	46	41	37	-	1	0·0
Bristol	43	38	28	Tr	-	0·0
Portland Bill	45	38	*	-	-	*
Plymouth	48	34	25	-	Tr	0·8
The Lizard	48	42	*	-	-	3·4
Scilly (St. Mary's)	49	45	*	-	-	1·6
Guernsey						
Pembroke	46	41	*	-	Tr	0·0
Holyhead (Valley)	47	42	36	-	-	*
Chester (Sealand)	43	41	37	-	0·3	0·0
Manchester	42	37	30	-	-	*
Spurn Head	44	37	*	Tr	-	0·1
Catterick	40	34	28	-	-	3·1
Tynemouth	41	36	34	-	0·3	*
St. Abbs Head	39	41		-	1	
Leuchars	39	35	31	-	0·5	3·6
Renfrew (Abbots I.)	40	37	35	-	Tr	0·3
Eskdalemuir	37	33	28	-	0·2	2·4
Point of Ayre	45	42	*	-	0·5	0·6
Tiree	46	41	*	Tr	1	1·7
Stornoway	47	40	38	2	3	0·5
Dalwhinnie	35	35	28	-	3	0·7
Aberdeen †	38	38	35	-	2	0·0
Wick	39	36	34	*	3	*
Sumburgh	44	32	29	Tr	5	0·0
Blacksod Point	49	42	*	1	1	*
Malin Head	49	48	44	-	3	1·3
Aldergrove	44	40	36	-	0·1	4·7
Birr Castle	45	40	37	0·3	0·4	0·0
Valentia Obsy.	48	34	29	Tr	Tr	5·3
Roches Point	47	38	*	Tr	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

IIII	13h. G.M.T. 28th November C_LC_M	wwVhNh	DDFWN	18h. G.M.T. C_LC_M	wwVhNh	DDFWN	01h. G.M.T. 29th November C_LC_M	wwVhNh	DDFWN	07h. G.M.T. C_LC_M	wwVhNh	DDFWN
109	5-	10867	26587	5-	58638	22468	5-	25764	62684	53	87754	28385
115	52	81845	08483				62	81734	65587			
203	53	02845	24426							5-	03848	32428
206	57	02856	28227	51	61855	57668	52	62368	26368	5-	22857	28267
210	5-	02868	23328	5-	02857	55527	5-	22748	58468	26	81755	30428
220	53	01854	27515							53	02745	27116
230	53	02863	28325	5-	51858	20258	8-	81858	61488	5-	02365	26325
245	54	02855	26215	54	02764	24317	5-	61747	28267	57	02844	28266
260	5-	05667	20127	50	05663	28243	03	02790	56615	5-	52648	24258
276	52	02857	10228	53	02854	28425	57	02854	58567	81	02857	27588
279	5-	02867	10127	5-	01765	24325	5-	02857	22427	57	02865	25427
285	13	01854	30215									
288	5-	17666	26326	50	01754	24214	57	02763	56425	57	02855	25427
575	5-	02851	00027	5-	02857	04157	53	02854	28225	5-	01857	26317
301	5-	02777	08227	5-	05557	00027	02	51758	28328	57	02855	24558
321	53	02765	28326	--	05590	24210				53	05654	27324
299	8-	02755	30565	8-	02747	24327	51	01753	24314	5-	02766	24416
292	53	05666	29227	53	05664	20117	55	05663	27327	5-	05676	27226
310	--	01645	04415									
614	57	05653	32225	5-	08457	30127	07	08490	24224	5-	05557	22227

IIII	13h. G.M.T. 28th November C_LC_M	wwVhNh	DDFWN	18h. G.M.T. C_LC_M	wwVhNh	DDFWN	01h. G.M.T. 29th November C_LC_M	wwVhNh	DDFWN	07h. G.M.T. C_LC_M	wwVhNh	DDFWN
333	5-	09767	08127	5-	22744	28168	5-	02858	32228	83	02856	24468
334	--	08437	06128	--	04347	00028						
340	5-	05667	32127	5-	05568	24128				53	21654	22357
136	5-	02767	01387	5-	81657	28487	00	05590	23325	07	05690	24327
336	52	02656	04328	50	05658	32328						
350	5-	05667	01327	5-	05668	28128				53	05654	22324
368	5-	05558	04228	5-	05558		57	05664	32117	57	25655	28228
379	5-	05651	02424	57	08463	30223	07	05590	30327	53	05655	30227
390	8-	61658	32428	5-	05568	29268	03	45330	24326	03	45390	20324
382	57	05663	02224	5-	05656	00026	5-	05367	23327	07	05690	26214
438	52	05645	32427	5-	01744	30314	40	01753	20213	5-	02647	26427
430	5-	05648	02328	5-	05558	32128	00	05690	32---	5-	05666	28126
409	5-	02767	09327	5-	02766	00026	53	05663	16125	54	10755	26366

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.

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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	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew *	Cir₀ cz₀	cz₀	bccz₀m₀	Kew 24 hours ended 7h.
Croydon	cmid₀cz₀	cz₀, cm	cmxid₀bcm₀	
Greenwich	cm₀bc	bcc	cbcbcmf	Max. 0·3 Time 7-9h 28th
Camden Square	o	bc	*	
Kensington	c	c	*	Min. 0·1 Time 0-4h 29th
Hampstead	bcp	bc	bc	

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	44	35	23	Tr	-	1·2	*	*
Croydon	47	30	28	-	-	0·8	*	*
Greenwich	44	34	25	-	-	0·7	73	81
Westminster	46	34	27	-			85	91
Regents Park								
Camden Square	45	36	29	-	-	*	*	87
Kensington	46	35	22	-	-		78	87
Hampstead	43	33	27	Tr	-		*	92

SECRET

Page 1 BRITISH SECTION

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

Monday 30th November 1942

No. 29593

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)	15.0	-10	NW	3	zo	47	75	38	6	7	3	-	9	9+	2500
	Croydon	15.8	-10	NW	3	zo	47	75	40	5	5	-	-	10	10	2000
	S. Farnborough	15.6	-10	NW	3	c-bc	49	75	39	7	7	7	-	4-6	7-8	2000
	Boscombe Down	16.7	-12	W'N	4	c-bc	46	85	41	8	5	-	-	7-8	7-8	5700
	Thorney Island	16.2	-14	WNW	3	zo	48	75	40	6	1	3	-	Tr	4-6	2500
	Lympne	14.7	-10	W'N	3	c/r	43	92	37	6	5	-	-	9+	9+	3800
	Manston	13.9	-10	NW'W	3	zo	44	85	40	5	5	-	-	9+	9+	3500
2	Shoeburyness	14.7	-6	W'N	3	c	46	85	41	6	5	-	-	9+	9+	4000
	Felixstowe	14.0	-2	WNW	4	zo	46	75	40	6	5	-	-	10	10	4000
	Gorleston	12.0	+4	NW'N	2	ido	43	92	40	6	5	-	-	10	10	800
	Mildenhall	13.0	-2	W'N	4	zo	47	85	42	6	5	-	-	7-8	9+	2500
	Cranwell	13.3	+2	NE	3	dodo	43	92	40	4	5	-	-	7-8	10	200
3	Birmingham	15.0	-2	WNW	3	c/r	46	85	42	6	6	-	-	10	10	1500
	Upper Heyford	15.5	-14	WNW	4	c	46	85	41	9	5	-	-	7-8	9+	1800
4	Ross-on-Wye	15.3	-8	WNW	3	c	49	65	39	8	7	-	-	9+	9+	3000
5	Hartland Point	18.3	-8	NNW	4	c	48	75	40	8	8	-	-	9	9	1600
	Bristol	17.4	-10	WNW	3	c-bc	47	85	43	7	5	-	-	7-8	7-8	5700
	Portland Bill	17.6	-8	WNW	3	c	48	75	41	8	2	4	-	4-6	9	4000
	Plymouth	19.6	-6	WNW	1	zo	51	75	43	6	7	7	-	7-8	7-8	3000
	The Lizard	20.2	-4	NW	4	c-bc	48	85	44	8	8	3	-	7-8	7-8	1500
	Scilly (St. Mary's)	21.1	-2	NWW	3	c	50	65	39	8	8	7	-	7-8	9+	1200
	Guernsey															
6	Pembroke	19.0	-4	NW	4	c-bc	48	85	43	8	8	-	-	7-8	7-8	1600
7	Holyhead (Valley)	17.1	-2	NW	5	c	48	85	43	7	7	-	-	9+	9+	6000
	Chester (Sealand)	15.1	0	NW	4	c	49	75	42	7	8	-	-	7-8	9+	2000
8	Manchester	14.1	-2	W	4	iro	47	85	43	6	5	-	-	10	10	1500
10	Spurn Head	12.7	+2	NW	4	roro	42	92	40	7	8	2	-	7-8	10	1500
	Catterick	14.2	+6	NW	2	iro	41	85	37	7	5	7	-	7-8	10	1800
	Tynemouth	13.8	+4	NNW	4	c-bc	43	75	37	6	8	-	-	7-8	7-8	1800
11	St. Abbs Head	12.2	+4	NNW	5	c	42	65	31	7	5	4	-	7-8	9	2500
	Leuchars	13.8	-2	NNW	2	c	41	75	32	8	8	3	9	4-6	9	2500
12	Renfrew (Abbots I.)	14.0	+8	-	0	m	45	75	39	4	5	1	-	4-6	9+	2500
	Eskdalemuir	13.8	+4	E	2	c/d	39	92	36	8	5	-	-	9+	9+	2200
	Point of Ayre	14.8	0	NNW	5	bc	50	85	46	8	8	6	-	2-3	4-6	1000
13A	Tiree	16.5	+10	N'E	4	roro	44	85	39	8	6	2	-	4-6	10	1800
13B	Stornoway	16.8	+12	NE	4	c-bc	39	85	34	8	2	3	-	4-6	7-8	2200
15	Dalwhinnie	14.7	+6	NNW	3	c	35	85	30	8	8	-	-	9	9	2500
	Aberdeen	12.9	+8	WNW	3	bbcp	36	85	33	7	8	4	8	1	2-3	2500
	Wick	13.7	+12	N	3	bc	37	75	30	9	8	8	-	4-6	4-6	2000
16	Sumburgh	11.7	+8	N'W	4	c-bc/ps	32	85	29	8	8	6	5	4-6	7-8	2500
17	Blacksod Point	20.9	-2	WNW	3	c-bc	47	85	43	8	8	-	-	7-8	7-8	1500
18	Malin Head	16.7	+4	NNW	5	c/bc	49	65	38	8	8	-	-	9+	9+	2500
	Aldergrove	17.0	-2	WNW	3	pr	46	85	41	8	8	-	-	7-8	7-8	3500
19	*Birr Castle	20.1	-6	WNW	1	c-bc	48	75	41	8	5	-	-	7-8	7-8	2500
20	Valentia Obsy.	22.3	-6	NNE	2	bc/pr	46	92	44	8	8	-	-	4-6	4-6	2500
	Roches Point	21.5	-6	N	3	c-bc	47	85	43	8	5	-	5	4-6	7-8	2500

OBSERVATIONS at 18h. 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)	Weather 7h.–13h. 29th (39)	Weather 13h.–18h. 29th (40)	Weather 18h. 29th to 1h. 30th (41)	Weather 1h.–7h. 30th (42)
London (Kew)	14.7	+2	W	3	zo	46	85	41	5	5	-	-	10	10	2500	1	•	cbcczo	cmo	cmoiroc	ccirocmo
Croydon	15.8	0	W	2	m	46	85	41	4	5	-	-	7-8	10	2200	1	•	bcmocmzo	czocm	cmcmo	cmoiroc
S. Farnborough	15.7	+2	W'S	2	o/r	45	85	41	7	5	-	-	10	10	4000	1	•	bcmobc	bccirocc	cmow	cmowccmo
Boscombe Down	16.7	-10	W	4	zo	44	85	41	6	5	-	-	10	10	3500	0	•	c	ccmo	ciromocmo	cmow
Thorney Island	16.2	0	WNW	2	zo	46	85	42	6	5	-	-	10	10	6100	0	•	bcbbcmo	cmo	cmo	cbcbmo
Lympne	14.8	0	W'N	1	zo	44	85	40	5	5	-	-	9	10	1800	1	§3	bmocmoiro	cirom o	cmoiromo	cbcbmo
Manston	14.1	+4	WNW	3	iro	46	85	43	4	5	-	-	10	10	2800	1	•	cbcmo	cmor	cmoiro	irocmo
Shoeburyness	15.2	+2	W'N	3	m	46	85	42	4	5	-	-	10	10	4000	0	•	cmoc	cmocm	cdocmo	bcmo
Felixstowe	13.9	+4	NW	2	zo	42	92	40	5	5	-	-	10	10	2400	1	•	cmo	cidomocmo	omiromcm	mcmbcmo
Gorleston	13.5	+6	WNW	2	zo	42	85	37	5	5	-	-	10	10	800	:	2	bczoidoc	cidozo	ciproc	cbcproc
Mildenhall	14.8	+12	NW	2	c	41	92	39	7	5	-	-	10	10	3000	1	•	cmo	cmocircc	ciromo	cbcbmox
Cranwell	14.9	+6	NWN	1	ido	40	85	37	5	5	-	-	10	10	2900	1	•	cmoidodom	cmidocmo	cidomcmo	cmocxo
Birmingham	15.5	+4	WNW	3	zo	45	97	44	5	5	-	-	10	10	450	1	•	c	oiro	ocpr	cbcf
Upper Heyford	15.2	+6	WNW	3	zo	44	92	41	6	5	-	-	9	9	3800	0	•	bcc	cciroc	cmoirocmo	cmo
Ross-on-Wye	15.3	0	W	2	c/pr	46	85	40	8	5	-	-	9+	9+	3000	1	•	cbcc	ccpo	cpoc	cbc
Hartland Point	18.7	+6	NW	4	ir	47	65	37	8	8	2	-	7-8	9+	1500	1	3	circ	circ	circ	c
Bristol	17.6	+2	W'N	2	zo	45	92	43	6	5	-	-	9+	9+	5700	1	•	bccmo	ccmo	cmommo	cmobcmo
Portland Bill	17.5	+2	NW	3	c	49	75	40	8	2	-	-	10	10	4000	1	3	c	c	c	c
Plymouth	19.5	-2	NW	2	pr	46	85	42	5	8	7	-	7-8	9	2500	1	2	idomobcm	cpromocm	cmo	cmopro
The Lizard	20.3	+4	NW'N	4	c	45	85	40	8	8	2	-	7-8	9+	1500	1	3	prbcc	prbcc	cpr	c
Scilly (St. Mary's)	20.6	+2	NW'N	3	c-bc	46	85	41	8	8	8	-	4-6	7-8	1200	0	3	c	bcpoc	cpo	cpoq
Guernsey																					
Pembroke	18.7	+4	NNW	4	c-bc	49	75	42	8	8	5	-	7-8	7-8	2500	0	3	c	c	prc	cxbcpro
Holyhead (Valley)	17.0	+2	NW	5	c	48	85	42	8	5	7	-	9+	10	2500	0	4	c	c	cbcciro	cirohro
Chester (Sealand)	15.4	+4	NW	2	c	47	85	43	6	5	-	-	9+	9+	2900	0	•	cmoc	cpromo	moirc	cmobcmo
Manchester	14.9	+8	W'N	3	zo	45	92	43	6	5	3	-	4-6	10	4300	1	•	iromo	iromo	cbcmo	bcmobff
Spurn Head	14.0	+4	NW	4	zo	42	92	38	6	8	2	-	7-8	10	1500	1	4	croro	cmo	bc	c
Catterick	15.3	+6	NW	1	zo	40	75	33	6	5	2	-	9	10	2800	1	•	roromiro	cirocmo	bcbmo	bcczox
Tynemouth	14.9	+6	NNW	4	c	41	75	34	6	5	-	-	10	10	2500	1	4	oiroc	co	obc	bcc
St. Abbs Head	13.9	+8	NNW	4	bc	40	65	37	7	5	-	-	4-6	4-6	2500	0	4	orbc	cbc	bcbcc	bcbcc
Leuchars	15.5	+14	-	0	b-bc	37	75	29	7	5	3	-	2-3	2-3	4500	1	•	c	cbc	bbcc	c
Renfrew (Abbots I.)	15.8	+14	-	0	m	40	92	37	4	5	1	-	9	10	3200	1	•	cbccz	cmidocm	cmbfcn	cmcmobcmx
Eskdalemuir	15.3	+10	-	0	c	36	85	30	8	5	-	-	9+	9+	2500	1	•	proldoc	cidoc	c	cbcx
Point of Ayre	15.2	+4	N	4	b-bc	47	85	43	8	4	-	-	2-3	2-3	2500	1	4	prcbc	cbcb	bbccb	cbbcc
Tiree	16.3	+14	N	4	c-bc	41	65	30	8	4	7	8	7-8	7-8	2500	1	3	cdodroro	cror oc	bccprc	cbcc
Stornoway	18.1	+10	N	2	bc/ps	33	97	32	8	3	6	3	2-3	4-6	2500	1	*	c	cjpbcps	bcc	cbcc irov
Dalwhinnie	16.0	+10	NNE	2	c	32	92	29	8	5	-	-	9	9	2500	1		oprsoc	cpso		cbco
Aberdeen	15.0	+14	WNW	3	ps	34	85	30	5	8	-	-	4-6	9	2500	1	2	cprsobcb	bcps	bcps	bcpsb
Wick	15.1	+4	NNW	4	bc/ps	35	85	29	8	9	-	-	4-6	4-6	1000	1	•	cpsoc	cpso	cpsoc	cpsoc
Sumburgh	12.7	+6	NW	5	bc	31	75	25	8	3	6	2	4-6	4-6	2000	1	3	cpsobcc	cpsobc	cpshpso	cpshc
Blacksod Point	20.2	-2	NNW	1	c-bc	46	85	42	8	8	-	-	7-8	7-8	2500	1	2	bc	c	pr	c
Malin Head	17.6	+14	N	3	iro	45	85	41	8	8	2	-	4-6	9+	1500	1	4	r	r	r	c
Aldergrove	17.6	+6	WNW	1	ido	44	92	41	7	5	-	-	9+	9+	2100	1	•	cprobc	bccido	idocrobcc	cbccx
*Birr Castle	19.6	-2	WNW	1	bc	40	92	38	8	5	-	-	4-6	4-6	2500	1	•	c	bc		r
Valentia Obsy.	21.8	+2	NNE	1	bc	44	92	42	8	8	-	-	4-6	4-6	2500	1	1	pr	pr	pr	pr
Roches Point	20.8	+2	NW	3	bc	45	85	41	8	5	3	-	2-3	4-6	1500	1	3	c	pr	bc	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 30th November 1942

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands; 5 S.W. England; 6 South Wales	Light variable westnorthwest winds mainly fair with some bright intervals; some local fog, mainly in industrial areas; rather cold with slight local frost at night.
7 North Wales; 8 N.W. England; 9 N. Midlands; 10 N.E. England	Light to moderate west northwest winds; fair at first, but occasional slight rain spreading east across area later; rather cold.
11 S.E. Scotland; 12 S.W. Scotland & Isle of Man; 13A W. Scotland	Moderate to fresh west to northwest winds; occasional sleet or snow spreading from northwest followed by some bright intervals; cold or rather cold.
13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Variable winds finally becoming fresh northeast to north; cloudy with snow at times; cold or very cold
16 Orkneys and Shetlands	As 13b-15
17 N.W. Ireland; 18 N.E. Ireland	Moderate to fresh northwest winds; fair at first; showers and bright intervals later; rather cold.
19 S.E. Ireland; 20 S.W. Ireland	Light to moderate west northwest winds; fair; rather cold.

GENERAL INFERENCE

An elongated anticyclone extends northwestwards from the Bay of Biscay. A depression northwest of Scotland is moving southeast; weather will be mainly fair in the south, but in the north there will be some wintry precipitation; it will be cold in the extreme north, rather cold elsewhere

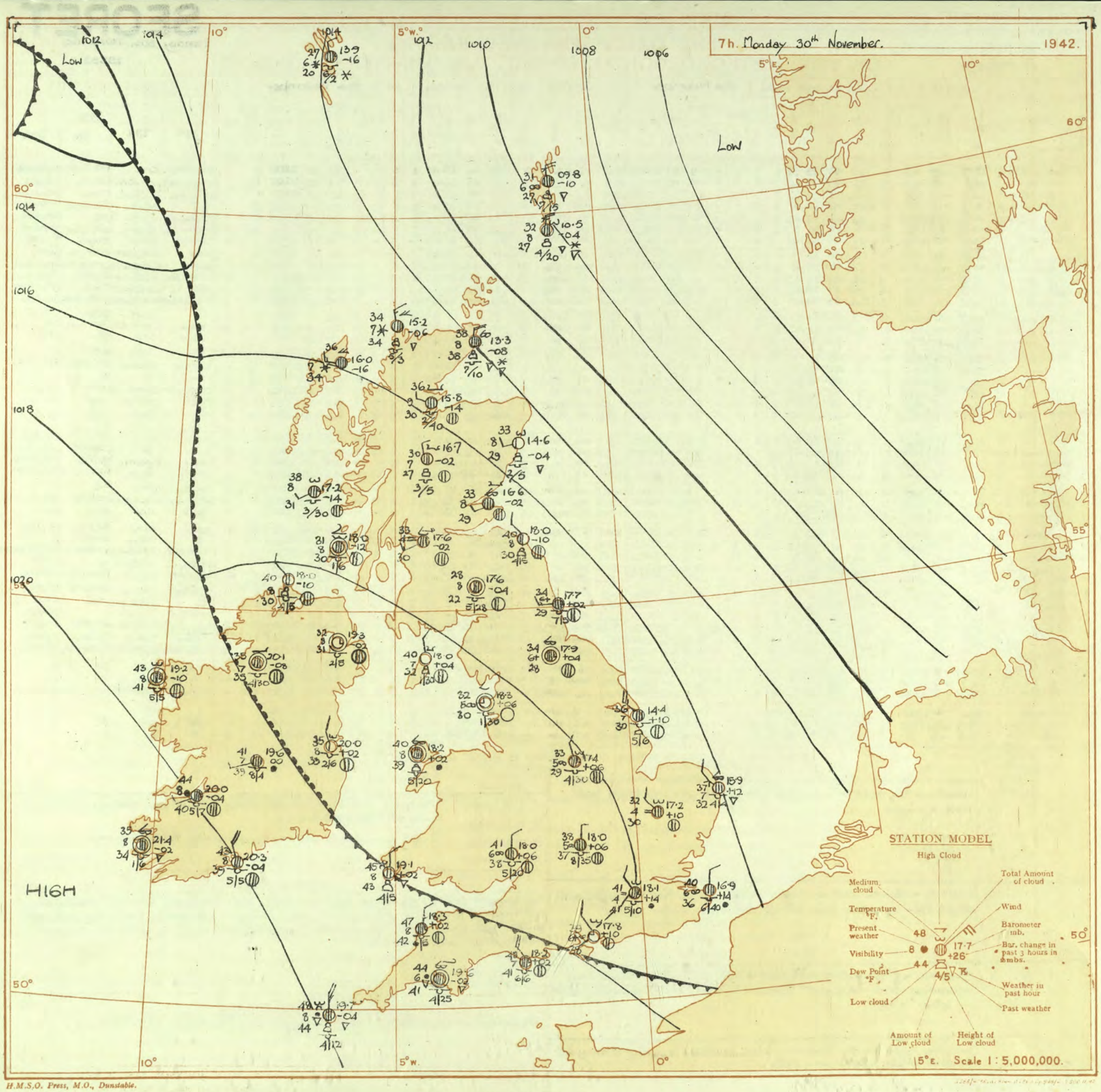
FURTHER OUTLOOK

Occasional wintry showers in north and northwest. Mainly fair elsewhere

Forecasts issued at 1030

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

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



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

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

Explanation of Frontal Lines shown on Charts

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

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

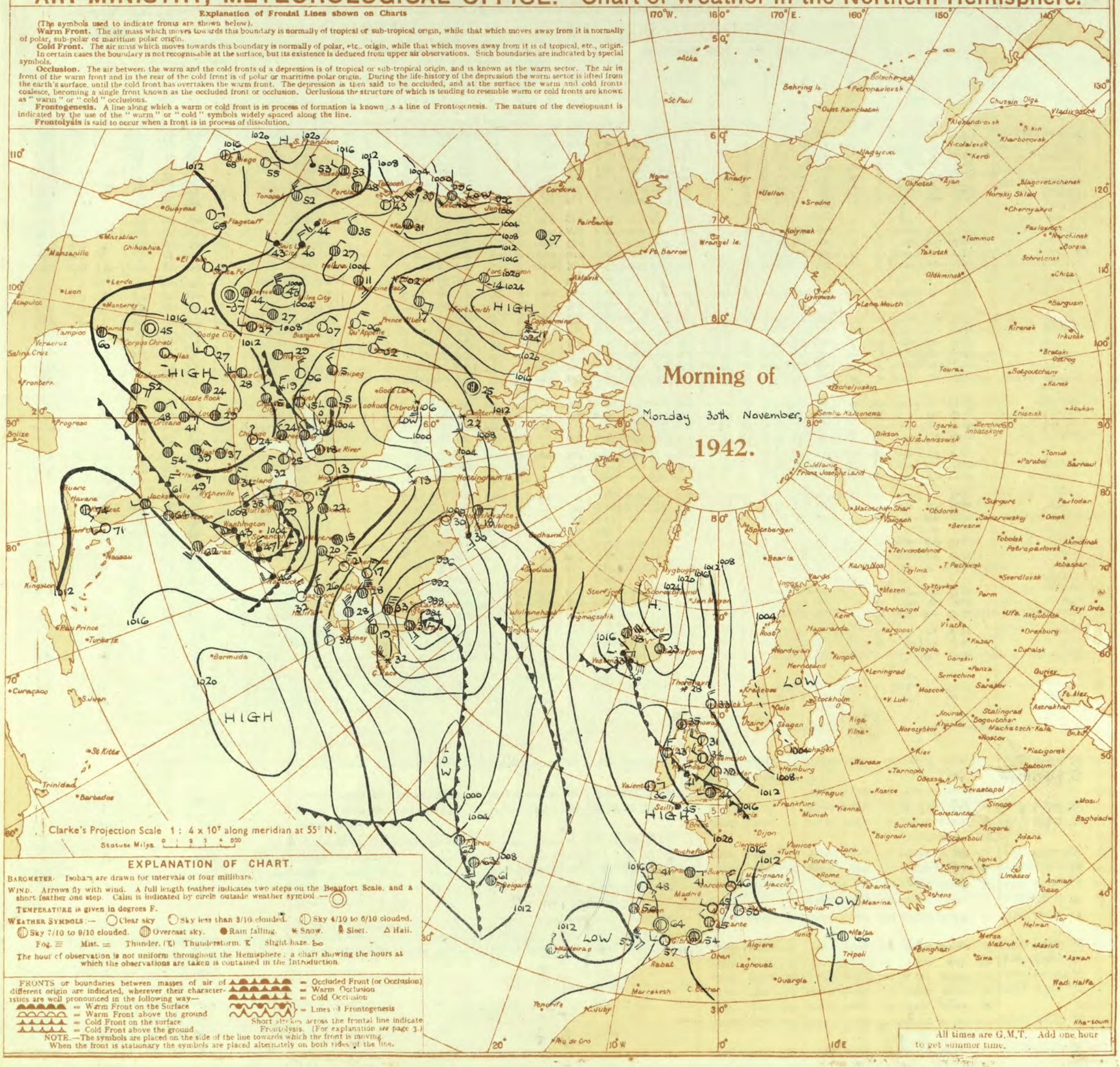
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

BRITISH SECTION

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

Monday 30th November 1942

No. 29593

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)	°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	*	*	*	*	*	44	*	*	*	*	*	*	*	*	*
	Croydon ...	290	16·1	0	WSW	1	Zo	44	92	42	5	5	–	–	9	10	1500
	S. Farnborough	226	15·9	–2	WNW	3	Zo	43	85	40	6	5	7	–	7·8	10	3200
	Boscombe Down	417	16·9	–2	W	3	Zo	42	92	41	6	5	–	–	10	10	5000
	Thorney Island	10	16·3	–2	W'N	3	Zo	44	85	41	6	5	3	–	7·8	10	3800
	Lympne ..	283	15·6	+4	NW	2	Zo	40	92	38	6	5	–	–	9+	9+	3500
	Manston ...	154	15·2	+8	N'W	2	c/r	41	92	40	6	5	–	–	10	10	2800
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	15·0	+2	WNW	3	m	41	85	37	4	5	–	–	10	10	3500
	Gorleston ...	5	14·5	+2	NW	2	c	40	85	35	7	5	–	–	9+	9+	800
	Mildenhall ...	15	15·4	–2	NW'W	2	Zo	39	92	37	6	5	–	–	10	10	4500
	Cranwell ...	203	15·9	0	WNW	2	Zo	37	92	35	6	5	–	–	9+	9+	6000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	15·5	–2	WNW	3	c/r	43	92	40	6	5	–	–	9	9	3100
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	18·3	–2	NW	2	c	46	85	42	8	5	–	–	9	9	1500
	Bristol ...	209	17·6	–4	–	0	Zo	42	92	40	5	–	3	–	0	7·8	–
	Portland Bill ...	32	17·6	+2	NW	4	c	48	85	44	7	5	–	–	10	10	4000
	Plymouth ...	82	19·4	–2	WNW	2	Zo	43	85	41	6	5	3	–	4·6	9+	2500
	The Lizard ...	240	19·7	–4	NW	2	pr	45	92	43	8	8	6	–	7·8	7·8	1000
	Scilly (St. Mary's)	163	20·7	+2	NW'W	4	pr	45	97	43	8	8	6	–	7·8	9+	1200
	Guernsey ...	175															
6	Pembroke ...	142	18·8	–2	NNW	3	c	47	85	42	8	8	–	–	9+	9+	1500
7	Holyhead (Valley)	32	17·5	+4	N	3	ir₀	41	85	37	7	5	7	–	9	10	2900
	Chester (Sealand)	16	16·6	+8	NW	1	c	43	85	38	6	5	–	–	9+	9+	2500
8	Manchester ...	235	16·8	+12	N	2	Zo	35	85	32	5	5	3	–	4·6	7·8	4000
10	Spurn Head ...	29	14·9	+2	NW	4	b-bc	39	75	32	7	1	–	–	2·3	2·3	4000
	Catterick ...	175	17·5	+12	W'N	1	Zo	33	85	29	6	–	–	–	0	0	–
	Tynemouth ...	108	16·6	+4	NW	3	b-bc	34	85	29	7	–	4	–	0	2·3	–
11	St. Abbs Head	280	15·0	0	NW	4	bc	38	65	26	7	1	–	–	4·6	4·6	2500
	Leuchars ...	36	16·8	+2	NW	2	c	33	75	28	8	5	3	–	2·3	9+	5500
12	Renfrew (Abbots I.)	19	17·7	+4	–	0	m	31	92	29	4	–	3	–	0	10	–
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	19·0	+4	NE'N	4	b-bc	43	75	36	8	4	4	–	1	2·3	1800
13A	Tiree	44	19·0	+2	NNW	3	c-bc/pr	39	85	34	8	8	–	–	7·8	7·8	2500
13B	Stornoway ...	15	18·7	–2	N	1	c-bc	35	85	32	8	5	3	–	4·6	7·8	2200
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	15·5	0	WNW	4	b-bc/ps	31	92	29	8	8	–	–	2·3	2·3	2500
	Wick ...	114	14·7	–6	N'W	3	c	34	92	33	8	8	–	–	9+	9+	2000
16	Sumburgh ..	19	12·0	–6	N'W	4	ps	28	85	24	8	3	6	3	9	9	1800
17	Blacksod Point	18	20·3	+2	–	0	c-bc/pr	46	92	44	8	9	–	–	7·8	7·8	2500
18	Malin Head ...	84	18·7	+2	N	3	bc	43	65	32	8	8	–	–	4·6	4·6	2500
	Aldergrove ...	268	19·1	+6	–	0	c-bc	36	92	33	7	5	3	–	2·3	7·8	2500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	22·0	–2	NE'E	1	b-bc	36	97	35	8	8	–	–	2·3	2·3	2500
	Roches Point	22	20·9	0	NW	4	bc	43	85	39	8	5	–	–	4·6	4·6	2500

OBSERVATIONS at 7 hr. G.M.T. 30th 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)	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 0–8 (31)	Sea 0–9 (32)
1	London (Kew)	17·8	+12	NNW	1	c/r	41	85	36	6	5	–	–	9+	9+	1500	1	*
	Croydon ...	18·1	+14	NW'N	2	m	41	97	41	4	5	3	–	7·8	9+	1000	1	*
	S. Farnborough	17·5	+10	N	1	Zo	42	92	40	5	5	3	–	9	9+	1300	0	*
	Boscombe Down	18·1	+6	NNW	2	Zo	41	92	39	6	5	–	–	7·0	7·8	5000	0	*
	Thorney Island	17·8	+10	NW	2	Zo	39	97	38	6	–	3	–	0	Tr	–	0	*
	Lympne ..	17·5	+14	WNW	1	Zo	36	97	35	6	5	–	–	2·3	2·3	4000	1	*
	Manston ...	16·9	+14	N	2	Zo	40	85	36	6	5	–	–	9	10	4000	1	*
2	Shoeburyness...	17·3	+12	N'W	2	Zo	36	92	34	5	–	1	–	0	4·6	–	1	*
	Felixstowe ...	16·4	+14	W'N	3	m	38	85	32	4	–	7	–	0	2·3	–	1	1
	Gorleston ...	15·9	+12	NW'W	2	c-bc	37	85	32	7	5	7	–	4·6	7·8	1500	1	3
	Mildenhall ...	17·2	+10	NW'N	2	m	32	92	30	4	–	3	–	0	7·8	–	1	*
	Cranwell ...	17·4	+6	NW'W	2	m	34	85	30	4	–	7	–	0	9+	–	0	*
3	Birmingham ...	18·4	+10	–	0	cf	35	97	34	3	5	–	–	9+	9+	1500	1	*
	Upper Heyford	17·8	+12	N	1	Zo	38	97	37	5	5	–	–	10	10	3500	0	*
4	Ross-on-Wye	18·0	+6	N	2	Zo	41	85	38	6	5	–	–	7·8	7·8	2000	1	*
5	Hartland Point	18·3	+2	N	2	c	47	85	42	8	5	–	–	9	9	2500	1	3
	Bristol ...	18·8	+6	–	0	m	42	97	41	4	5	–	–	9+	9+	4000	1	*
	Portland Bill ...	18·2	+2	NW	4	c	48	75	41	7	5	–	–	9	9	4000	1	3
	Plymouth ...	19·6	–2	–	0	pr	44	85	41	6	5	7	1	4·6	10	2500	1	1
	The Lizard ...	19·6	–4	NW'N	3	c	44	92	42	8	5	2	–	7·8	9+	1500	1	3
	Scilly (St. Mary's)	19·7	–4	N'W	5	pr	48	85	44	8	8	6	–	4·6	7·8	1200	1	3
6	Pembroke ...	19·1	+2	N'W	2	bc	45	92	43	8	2	6	–	4·6	4·6	2500	0	2
7	Holyhead (Valley)	18·2	+2	–	0	c	40	92	39	8	8	7	–	7·8	10	2000	1	1
	Chester (Sealand)	18·0	+6	N	1	bc	35	92	33	5	5	7	–	4·6	4·6	3500	1	*
8	Manchester ...	18·1	+4	–	0	bcf	29	97	29	2	5	3	–	4·6	4·6	2500	1	*
10	Spurn Head ...	14·4	+10	NW'N	5	c-bc	36	75	30	7	7	–	–	7·8	7·8	4000	0	4
	Catterick ...	17·9	+4	–	0	c	34	75	28	6	–	7	–	0	9+	–	1	*
	Tynemouth ...	17·7	+2	N	3	c	34	85	29	6	5	–	–	9+	9+	2500	3	3
11	St. Abbs Head	15·8	0	WNW	3	bc	37	75	34	7	5	–	–	4·6	4·6	3000	0	4
	Leuchars ...	16·6	–2	SW	1	c	33	85	29	8	–	7	7	0	10	–	1	*
12	Renfrew (Abbots I.)	17·6	–2	SW	3	m	33	85	30	4	–	4	2	0	7·8	–	1	*
	Eskdalemuir ...	17·6	–4	–	0	c-bc	28	85	22	8	5	–	–	7·8	7·8	2800	0	*
	Point of Ayre...	18·0	+4	NNW	2	c	40	75	32	7	2	–	7	Tr	10	3000	0	3
13A	Tiree	17·2	–14	SW	1	c	38	75	31	8	5	3	–	2·3	9	3000	1	2
13B	Stornoway ...	16·0	–16	W	3	rs	36	92	34	7	–	2	–	0	10	–	1	
15	Dalwhinnie ...	16·7	–2	NW	1	c	30	85	27	7	8	–	7	2·3	10	2500	3	*
	Aberdeen † ...	14·6	–4	WSW	2	b-bc	33	85	29	8	8	3	–	1	2·3	2500	7	2
	Wick ...	13·3	–8	N'W	4	c/ps	38	97	38	8	8	7	–	9+	10	1000	6	*
16	Sumburgh ..	10·5	–4	NNW	5	c/ps	32	75	27	8	2	3	–	4·6	9+	2000	8	
17	Blacksod Point	19·2	–10	–	0	c	43	92	41	8	5	3	–	7·8	9	2500	1	2
18	Malin Head ...	18·0	–10	NW'W	2	bc	40	65	30	8	8	–	–	4·6	4·6	2500	1	3
	Aldergrove ...	19·3	–2	–	0	b	32	97	31	8	5	–	–	1	1	2500	1	*
19	Birr Castle ...	19·6	0	NSW	1	c	41	92	39	7	5	–	–	10	10	1500	1	*
20	Valentia Obsy.	21·4	–2	–	0	c-bc	35	97	34	8	5	7	–	Tr	7·8	4000	1	1
	Roches Point	20·3	–4	NNW	4	c-bc	43	85	39	8	5	–	–	7·8	7·8	2500	1	3

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 29th Hrs. (38)
1	London (Kew)	47	41	34	–	Tr	1·3
	Croydon ...	47	41	39	–	0·1	1·5
	S. Farnborough	49	41	35	Tr	–	4·0
	Boscombe Down	47	40	31	–	–	0·6
	Thorney Island	49	38	27	–	–	*
	Lympne ..	46	35	31	Tr	Tr	3·5
	Manston ...	46	39	37	–	0·1	0·8
2	Shoeburyness...	47	35	26	–	Tr	0·5
	Felixstowe ...	47	35	33	0·5	0·3	0·2
	Gorleston ...	44	36	33	Tr	0·6	0·3
	Mildenhall ...	47	31	27	Tr	0·1	0·4
	Cranwell ...	46	33	30	0·2	0·2	0·2
3	Birmingham ...	46	35	27	0·4	1	0·7
	Upper Heyford	47	38	36	Tr	0·1	*
4	Ross-on-Wye	48	41	35	Tr	0·1	2·3
5	Hartland Point	48	45	42	1	2	0·2
	Bristol ...	48	41	31	–	–	1·0
	Portland Bill ...	50	46	*	–	–	*
	Plymouth ...	51	41	34	0·2	0·1	1·7
	The Lizard ...	49	43	*	0·5	2	0·7
	Scilly (St. Mary's)	51	44	*	Tr	2	1·5
6	Pembroke ...	49	41		Tr	Tr	2·0
7	Holyhead (Valley)	49	39	35	–	1	*
	Chester (Sealand)	49	34	25	Tr	2	0·0
8	Manchester ...	48	29	20	Tr	–	*
10	Spurn Head ...	44	34	*	0·3	Tr	0·0
	Catterick ...	46	33	24	0·6	Tr	0·0
	Tynemouth ...	43	33	30	0·3	–	*
11	St. Abbs Head	43	36	*	Tr	–	
	Leuchars ...	41	31	20	Tr	–	0·6
12	Renfrew (Abbots I.)	46	30	24	Tr	–	0·0
	Eskdalemuir ...	45	28	24	0·2	–	0·0
	Point of Ayre...	50	39	*	1	–	1·4
13A	Tiree	46	36	*	0·1	Tr	0·0
13B	Stornoway ...	42	33	29	Tr	Tr	1·0
15	Dalwhinnie ...	38	28	21	0·3	–	0·5
	Aberdeen † ...	38	31	28	1	0·4	1·4
	Wick ...	38	31	27	0·1	2	*
16	Sumburgh ..	34	28	26	0·4	1	1·1
17	Blacksod Point	50	41	*	1	2	*
18	Malin Head ...	55	39		0·3	0·1	0·2
	Aldergrove ...	47	32	33	0·1	0·2	0·8
19	Birr Castle ...	48	38	31	–	0·4	2·3
20	Valentia Obsy.	48	34	31	1	Tr	2·1
	Roches Point	48	42	*	0·1	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

	13h. G.M.T. 29th November IIIC_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
109	30	01854	29584	3–	26744	29584	82	10844	30388	02	23657	28577
115	37	83844	04386							82	68735	28388
203				8–	02846	32586	8–	03948	32428			
206	83	01864	29184	83	26856	30287	57	02964	26227	50	02862	26128
210	26	10854	31486	8–	87867	28387	86	02854	58327	50	02853	22228
220				50	01654	31314						
230	83	02956	26427	8–	01964	28324	5–	02968	28228	51	02963	18128
245	84	26965	28385	80	01862	30302	53	02851	24215	07	02850	23217
260	57	02844	23267	5–	05664	30224	53	02762	28116	57	05664	20124
278	86	02955	28527	52	02847	30327	54	01861	29452	50	17664	00014
279	8–	02847	10327	8–	52747	08287	53	01761	30155	53	01863	31124
285												
288	5–	22654	23367	5–	05668	26326	00	05630	21200	03	05650	23227
575	8–	02847	28287	50	01851	28211	00	03750	00014	50	01764	00025
301	57	05644	28427	57	05645	28328	26	05653	04215	54	05861	00001
321	67	22631	32368	57	61454	29168	5–	08466	26226	53	08464	24127
299				50	02746	30416	8–	25755	24386	54	02754	26315
292	5–	05658	26268	57	05665	25268	00	00750	27220	05	02750	31127
310												
614	57	05645	28226	57	08458	32168	52	05656	30128	53	05564	30127

	13h. G.M.T. 29th November IIIC_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	53	02844	28427	57	02744	28328	8–	02748	32328	53	02855	00067
334												
340	87	22855	28367	50	05652	28222	53	02656	28127	53	08463	00025
136	5–	62634	30468	52	61635	26368	53	05652	28327	53	05652	26323
336										57	02654	28316
350	57	05555	26427	5–	61434	06168	5–	22548	10168	57	05556	26127
368	5–	81658	24288	50	02765	24385				53	02763	00015
379	54	01863	26313	50	02754	26227				5–	08447	28257
390	53	05654	24326	5–	22448	24268	5–	08468	26128	53	41465	27246
382	57	02865	26416	57	61764	25325	57	22656	27368	5–	05657	00027
438	5–	05657	26227	52	05655	26328	5–	05648	30328	8–	02646	28316
430	53	01742	22214	5–	61658	28228	5–	05688	28228	50	05663	28123
409	87	22955	19848	86	02656	28327	83	02364	29267	52	64755	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).

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

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 30th November
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Station	Weather Morning	Weather Afternoon	Weather Night
Kew *	cbcz₀	cm₀	cm₀ iron₀
Croydon ..	ocm₈m₂	cz₀ cm	cm ir₀
Greenwich ..	cf	cfm	crobcum
Camden Square	c	c	*
Kensington ..	bcz	cm	*
Hampstead ..	bc	or	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. Time 0·5 8–9h on 29th. Min. Time 0·1 0–3h on 30th

Stations.	Temperature Day Max °F	Temperature Night Min °F	Temperature Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	47	41	34	–	Tr	1·3	*	*
Croydon ..	47	41	39	–	0·1	1·5	*	*
Greenwich ..	47	37	30	–	0·3	0·7	78	77
Westminster ..	48	37	33		1		75	83
Regents Park ..	47	37	32	0·2	1·4		77	95
Camden Square	47	38	31	–	1	*	*	81
Kensington ..	48	38	*	–	1·3		74	84
Hampstead	46	35	29	–	1		*	89