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.		
2 ...	1 tenth.	8 ...	10 tenths.
3 ...	2, 3 tenths.	9 ...	Sky obscured by fog, dust storm or other phenomenon.
4 ...	4, 5, 6 tenths.		
5 ...	7, 8 tenths.		
6 ...	9 tenths.		

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

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

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

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

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

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

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

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

Cloud Form Abbreviations

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

Cloud Amount — Columns 13, 14, 28, 29

Columns 13, 28. The figures in these columns indicate the amount of cloud at the height given in Columns 15, 30.
Columns 14, 29. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6 tenths; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies sky covered but with a few small openings.

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

	Objects not visible at
0 Dense fog	55 yards
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1½ miles
5 Poor visibility	2½ ,,
6 Moderate ,,	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.

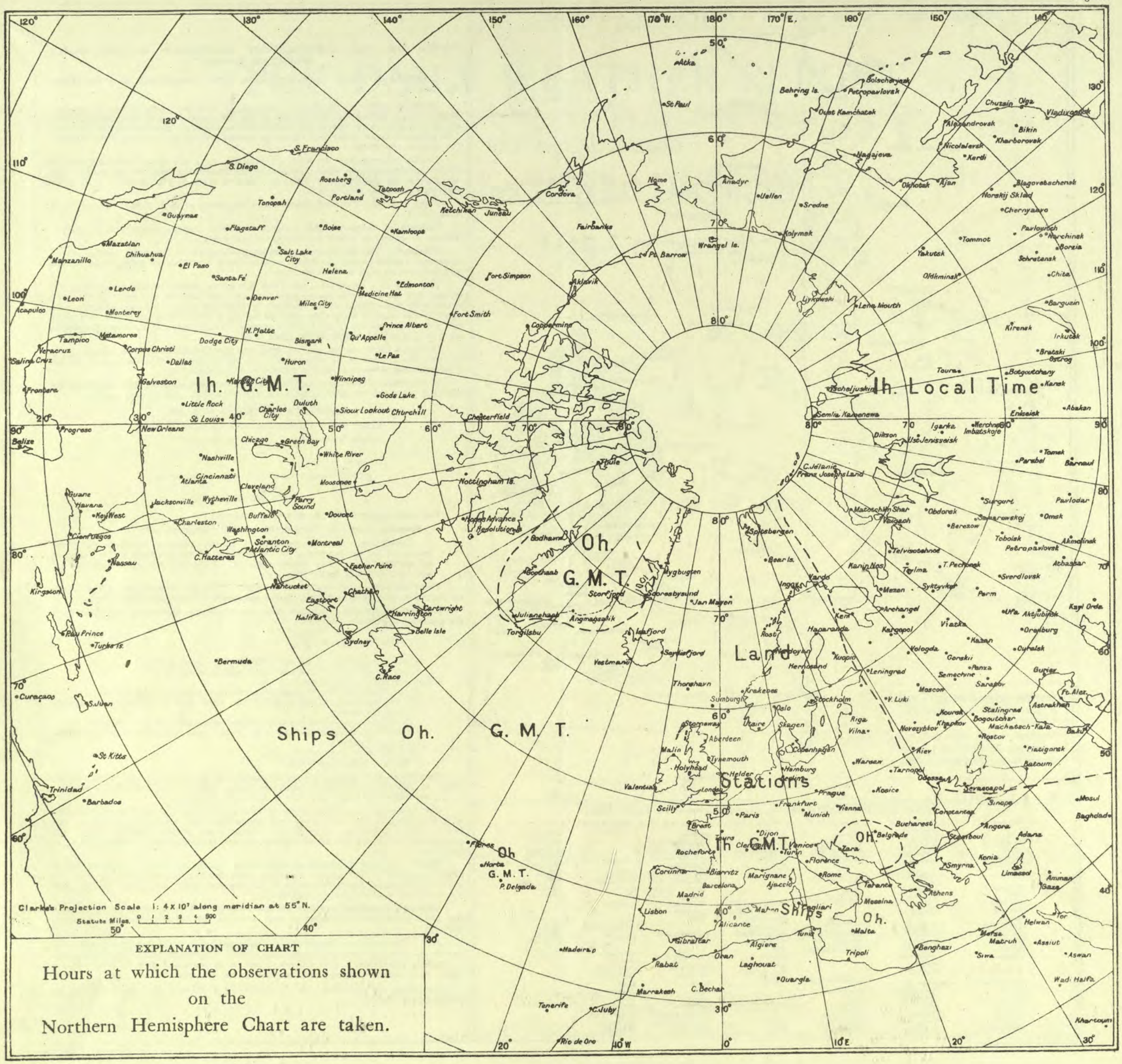
For gales commencing from East or West the South Cone will be hoisted if the gale is expected to change to a Southerly direction.

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.

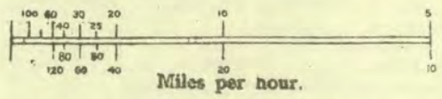
The wind at a height of 1,500–2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the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

December 1942 No. 312

Mainly unsettled, stormy and mild.

A small anticyclone developed over the British Isles during the early days of the month and then receded eastwards. A cold spell during this period produced maximum readings within the 34°-38°F range, at a number of stations on the 2nd and 3rd, and a low value of 27°F at Renfrew. 30°F at Dalwhinnie and 33°F at Aberdeen were also recorded on the 1st. Night minima were also below 30°F at a number of places, with a particularly low reading of 13°F (grass min. 7°F) at Eskdalemuir on the 4th.

On the 5th a series of Atlantic depressions or associated fronts continued to influence the country until the 24th, these systems recording some very low barometer values. Mild stormy conditions caused gales at numerous places, and few indeed were the days when warnings were not in operation. Among the highest gusts were 95 and 93 mph at Valentia on the 14th and Stornoway reported whole gales on several days. Day maxima of 55°F or above were common and Hartland Point recorded 59°F on the 13th. High night minima readings above 50°F were also frequent.

Between the 25th-28th high pressure was built up over the southern half of the country and persistent fog occurred at many stations. Colder conditions returned and a number of stations failed to reach a maximum of 40°F during the day, the lowest being 34°F at Croydon on the 26th.

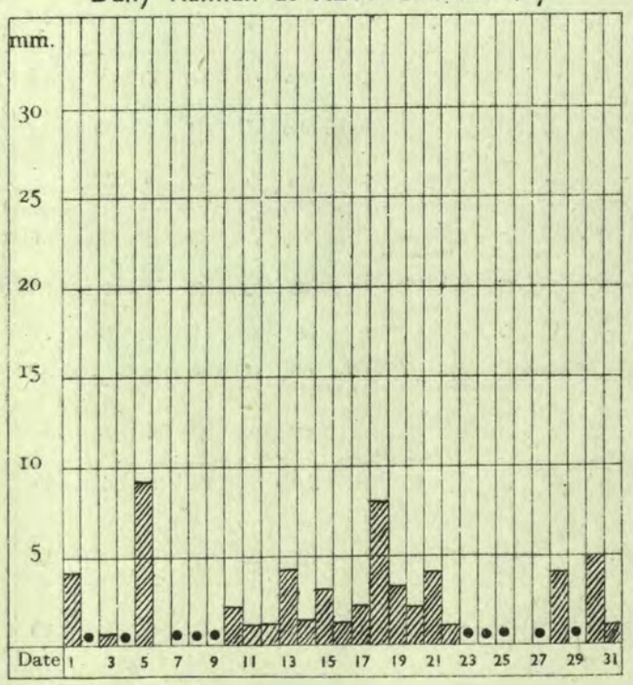
The movement of an anticyclone to west of the British Isles on the 29th-30th brought an air stream of polar origin with strong winds or gales and snowfall to many areas. Thunderstorms occurred at Felixstowe and Gorleston. Again, a number of places reported day maxima below 40°F, Dalwhinnie 28°F on 29th and Eskdalemuir 33°F on the 30th. Night minima also fell below 30°F generally, Dalwhinnie recording 25°F on the 30th. Slowly moderating winds and milder conditions occurred on the 31st.

Sunshine was mainly about average for the month, although the London area and a few stations in the Southeast were in excess.

Rain was above normal in Central and Western Scotland, some heavy falls being 40mm at Eskdalemuir and 41mm at Blacksod Point during the day and night of 10th and 21st respectively.

Temperature generally was above average.

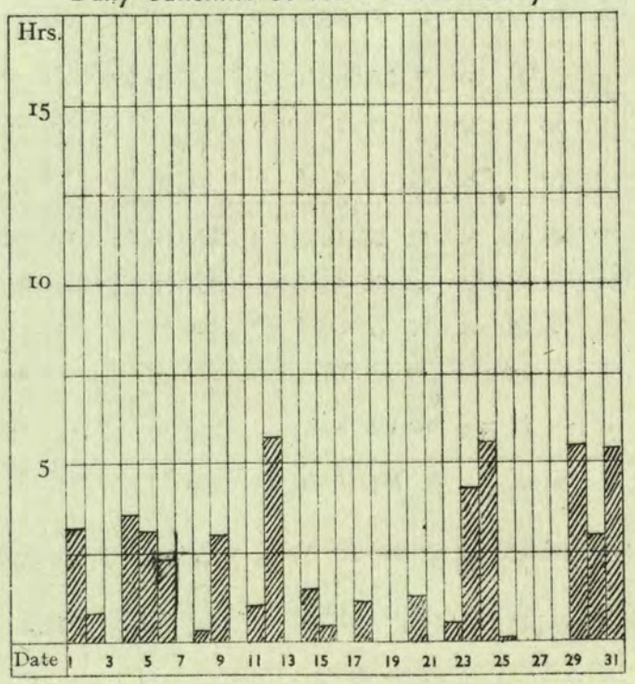
Daily Rainfall at KEW Observatory.



● = less than 0·5 mm.

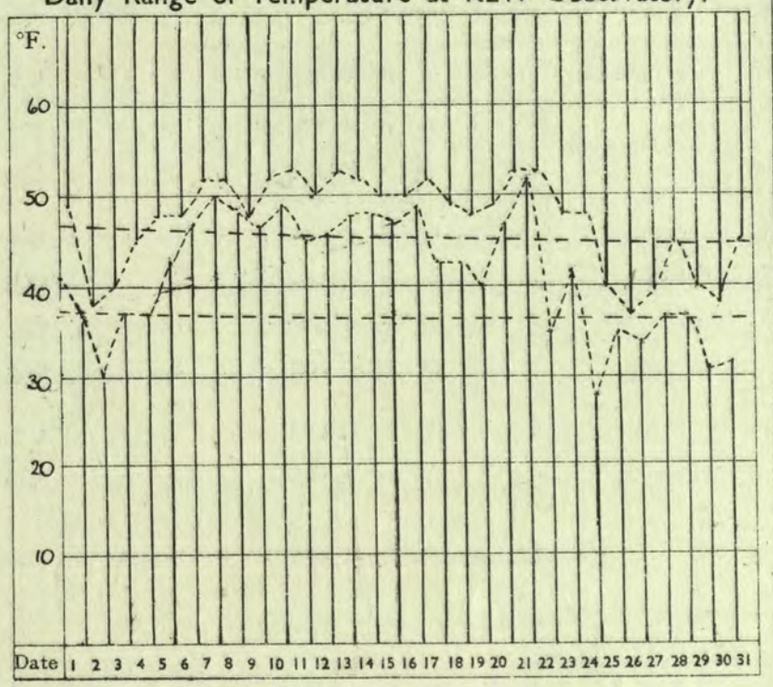
RAINFALL. Total for Month. 57 mm.

Daily Sunshine at KEW Observatory.



SUNSHINE. Total for Month. 51 hrs.

Daily Range of Temperature at KEW Observatory.



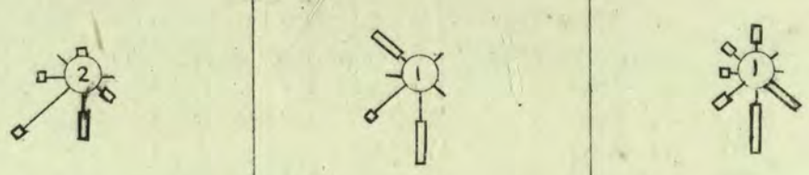
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.*

Stations.	Pressure Mean	Pressure Difference from average	Temperature Mean	Temperature Difference from average
	mb	mb.	°F.	°F.
Kew	1015·6	+1·9	43·6	+2·2
Aberdeen	1005·2	−1·7	42·3	+2·2
Valentia	1007·3	−3·4	48·8	+2·7

* Pressure—The mean is for the 24 hours. It is derived from values at 7 h. and 18 h. daily 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 ...	6,977
Aberdeen ...	7,496
Lerwick ...	16,886
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. 9 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	7	15	9	0	44.8	0	4	10	16	1	38.0	53	11,13, 21,22	37	26	52	22	28	25	8	1	26	0	6	19	0	5	23	0	0	1	2	1	3	0	1	2	2	2
	Croydon ...	0	7	9	15	0	44.4	0	4	10	16	1	37.5	55	8	34	26	51	22	27	3	5	9	18	1	6	20	1	9	17	0	0	0	2	10	1	0	0	2	4	4
	Thorney Island	0	3	8	20	0	46.6	0	6	7	17	1	39.6	54	4,8, 11,22	35	26	51	22	29	3	8	1	24	0	0	27	0	2	23	1	0	0	0	1	8	0	0	0	1	23
	Lympne ...	0	6	9	16	0	43.4	0	4	11	16	0	36.3	56	12	36	2	49	8	25	3	7	6	20	1	10	13	0	6	14	0	0	0	0	0	8	0	0	2	2	15
2	Shoeburyness...	0	7	14	10	0	44.7	0	4	10	17	0	36.1	55	8	37	2, 30	50	22	26	3	9	1	27	0	0	23	0	0	23	0	0	0	1	1	1	0	0	1	1	13
	Gorleston ...	0	7	15	9	0	44.1	0	5	11	15	0	37.6	55	21	38	3	50	8	28	3	5	6	22	0	3	21	0	7	18	0	0	0	0	0	17	0	0	0	0	17
	Cranwell ...	0	6	17	8	0	42.7	0	6	15	10	0	35.2	55	13	35	3	50	22	26	2, 3	8	7	13	0	11	12	0	7	9	1	3	0	3	2	3	0	1	0	2	10
3	Birmingham ... (Edgbaston)	0	4	21	6	0	42.6	0	4	12	14	1	36.3	55	13	35	3, 30	51	22	29	30	7	8	14	0	2	24	0	3	19	0	1	1	2	4	11	0	0	0	3	13
4	Ross-on-Wye...	0	4	14	13	0	44.7	0	1	11	17	2	37.3	56	13	38	30	52	10	32	30	7	4	22	0	5	25	0	5	24	0	0	0	3	1	20	0	0	0	1	22
5	The Lizard ...	0	1	6	24	0	*	0	1	3	24	3	*	56	3	41	30	53	10	32	31	*	0	31	0	2	29	0	3	28	0	0	0	0	0	25	0	0	1	1	27
7	Holyhead ... (Valley)	0	2	11	18	0	46.9	0	0	7	23	1	42.5	55	13	41	29, 30	51	7	35	3, 30	1	3	27	0	4	27	0	6	24	0	0	0	0	0	23	0	0	0	1	25
8	Chester ... (Sealand)	0	3	14	14	0	45.2	0	3	11	13	4	37.1	57	9,10, 13,21	37	3	53	7	28	2	6	0	23	1	2	27	0	0	25	3	0	1	2	1	15	0	0	1	0	17
10	Tynemouth ...	0	6	17	8	0	44.4	0	4	12	15	0	38.4	56	7	36	2	50	22	27	4	3	0	22	0	0	27	0	1	23	0	0	0	2	4	5	0	0	4	5	1
11	Leuchars ...	0	7	16	8	0	43.5	0	4	16	10	1	35.6	55	7	35	29	51	22	26	2, 4	12	2	22	1	2	24	1	1	19	0	0	0	0	1	20	0	0	0	1	20
12	Renfrew ...	1	5	16	9	0	43.6	2	3	12	13	1	35.8	55	7,13, 21	27	3	51	24	20	4	8	1	27	0	5	24	0	4	25	0	0	1	2	1	4	0	0	4	0	14
	Eskdalemuir ...	0	8	20	3	0	40.7	2	5	15	9	0	33.5	51	7	33	30	48	22	13	4	7	9	20	0	14	14	0	12	18	0	0	0	0	1	15	0	0	0	0	17
13B	Stornoway ...	0	4	15	12	0	44.9	0	5	10	16	0	38.5	54	9	36	29	49	17, 24	26	2	*	2	28	0	6	24	0	5	25	0	0	0	0	0	26	0	0	0	0	21
15	Aberdeen ...	0	7	17	7	0	43.4	0	7	11	13	0	36.9	56	7	33	1	48	22, 24	28	3	10	1	25	1	3	21	0	5	17	1	0	0	0	1	17	0	0	1	3	11
18	Aldergrove ...	0	3	18	10	0	43.9	0	5	12	13	1	36.7	55	7	36	30	51	9	27	25	9	0	26	2	6	23	1	4	23	0	0	1	1	0	23	0	0	0	0	24
19	Birr Castle ...	0	2	14	15	0	45.8	0	3	13	13	2	37.8	56	10, 21	39	30	53	7	29	25	3	6	21	0	7	22	0	7	17	0	0	0	1	0	30	0	0	0	0	31
20	Valentia ... (Cahirciveen)	0	0	7	24	0	49.1	0	0	6	20	5	43.0	55	7,8,9, 10,14, 20,21	45	29	53	7	35	25	1	5	26	0	6	25	0	7	24	0	0	0	0	0	24	0	0	0	0	24

UPPER AIR TEMPERATURE.

Pressure mb.	Normal Height Feet.	Normal Temp. °F.	Bircham Newton. Mean °F.	No. of Reports.	Aldergrove. Mean °F.	No. of Reports.	Penzance. Mean °F.	No. of Reports.
950	1730	38.1	41.2	62	39.1	62	45.0	31
850	4640	31.7	32.6	62	33.9	62	37.0	31
750	7870	23.6	24.8	62	25.0	62	29.0	31
650	11490	12.4	13.4	62	13.4	62	18.1	31
550	15620	-1.7	-1.2	62	-1.6	62	3.8	31

UPPER WINDS.

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

Station.	Lympne. *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Plymouth (Mt. Batten). *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Holyhead (Valley). *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Renfrew. *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Station.
	kilometres per hour.						kilometres per hour.						kilometres per hour.						kilometres per hour.						Height. Metres.
500 above ground	13	2	5	6	0	0	22	6	11	5	0	0	11	1	5	5	0	0	3	0	3	0	0	0	500 above ground.
1000 above M.S.L.	8	1	4	3	0	0	7	2	4	1	0	0	6	1	4	1	0	0	0	0	0	0	0	0	1000 above M.S.L.
2000 " "	5	2	2	1	0	0	4	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2000 " "
3000 " "	1	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3000 " "
4000 " "	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4000 " "

† The readings and averages used, are the maximum for the period 7 h.–18 h. and the minimum for the period 18 h.–7 h. Averages are for periods of at least 10 years (See M.O. 364).

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

METEOROLOGICAL OFFICE, AIR MINISTRY, KINGSWAY, LONDON, W.C.2.
N. K. JOHNSON, D.Sc., A.R.C.S., Director

SUNSHINE, RAINFALL, AND HUMIDITY ..... December ..... 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).	11	12	8	0	0	5·7	12	1427	-42	51	+14	1880	72	1886	0	1890	11	6	12	2	0	0	9	5	573	-33	57	-1	1856	162	1914	6	1926	0	3
	Croydon ...	12	12	4	3	0	6·2	24	1548	+23	55	+17	1922	58	1929, 1936	19	1930, 1934	11	4	9	7	0	0	11	5	703	+24	85	+16	1921	174	1929	8	1926	0	3
	Thorney Island **	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11	2	10	8	0	0	10	17	661	-32	88	+12	1881	224	1934	10	1926	0	2
	Lympne ...	13	8	7	3	0	6·7	4	1732	-33	58	+4	1921	85	1926	19	1934	13	4	9	4	1	0	17	18	668	-56	80	-2	1920	181	1929	14	1932	0	3
2	Shoeburyness ...	13	11	6	1	0	6·5	4	1603	-113	51	+2	1919	77	1936	20	1934	13	7	8	3	0	0	10	30	546	+43	51	+4	1920	94	1937	5	1932	0	3
	Gorleston ...	12	9	8	2	0	6·8	2	*	*	63	+22	1908	67	1936	20	1934	13	10	6	1	0	0	20	18	618	-4	58	-4	1871	151	1914	12	1932	1	3
	Cranwell ...	10	17	4	0	0	6·0	2	1510	-28	37	-10	1921	62	1929	30	1934	14	10	5	2	0	0	6	4	561	-29	29	-27	1917	105	1938	9	1933	0	3
3	Birmingham ... (Edgbaston)	15	13	3	0	0	5·0	23	1301	-3	25	-10	1887	90	1891	5	1890	10	3	10	8	0	0	12	16	683	+9	91	+23	1893	155	1914	11	1926	0	3
4	Ross-on-Wye ...	10	15	6	0	0	5·1	23	1438	-47	36	-12	1915	73	1929	30	1915, 1927	12	5	8	5	1	0	21	16	609	-108	102	+26	1859	196	1929	11	1926	1	2
5	Falmouth ... (Observatory)	8	17	6	0	0	6·0	1	1642	-68	50	-3	1881	82	1886	19	1890	5	6	12	5	3	0	24	15	954	-153	133	-26	1871	280	1915	21	1926	0	0
7	Holyhead (Valley)	*	*	*	*	*	*	*	*	*	*	*	1914	71	1916	15	1931	3	9	10	8	1	0	25	24	887	0	130	+24	1871	241	1934	21	1926	1	2
8	Chester ... (Sealand)	12	15	4	0	0	4·5	2	1406	+30	40	-1	1923	76	1929	23	1927	11	5	9	6	0	0	12	4	593	-45	79	+16	1922	114	1929	13	1933	0	1
10	Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	1935	*	*	*	*	10	8	10	3	0	0	12	29	527	-94	57	+2	1915	136	1937	7	1941	0	2
11	Leuchers ...	14	12	4	1	0	6·7	2	1577	+107	41	-3	1922	66	1929	16	1934	14	9	5	3	0	0	9	10	566	-87	43	-20	1922	95	1929	8	1926	0	3
12	Renfrew ...	14	14	3	0	0	5·3	2	1172	-21	29	+2	1921	46	1938	9	1939	7	7	5	10	1	1	30	10	1042	+103	158	+45	1921	230	1929	15	1933	0	2
	Eskdalemuir ...	18	7	5	1	0	6·6	2	1262	+61	33	+1	1910	60	1935	3	1912	5	3	8	11	3	1	40	10	1508	+79	235	+57	1910	339	1932	37	1933	0	5
13B	Stornoway ...	19	12	0	0	0	2·9	1	1115	-100	16	-6	1881	54	1935	6	1884	3	7	10	6	4	1	37	4	1141	-60	196	+45	1870	378	1898	30	1927	0	4
15	Aberdeen ...	15	12	4	0	0	5·0	12	1285	-44	31	-6	1881	68	1891	7	1903	11	9	9	2	0	0	12	10	744	-4	52	-30	1871	227	1876	20	1905	0	4
18	Aldergrove ...	16	12	3	0	0	4·6	22	1303	-23	31	-10	1927	70	1935	19	1941	5	11	7	8	0	0	14	10	971	+133	97	+10	1926	145	1929	28	1926	0	2
19	Birr Castle ...	16	11	4	0	0	4·4	2, 17	1216	-90	30	-13	1881	68	1881	22	1884, 1939	7	10	8	6	0	0	15	20	932	+105	94	+10	1862	165	1929	24	1885	*	*
20	Valentia ... (Cahirciveen)	15	13	3	0	0	3·8	19	*	*	27	-12	1880	76	1938	14	1931	3	4	15	7	2	0	18	15	*	*	153	-16	1866	345	1934	37	1926	*	*

MINIMUM SURFACE HUMIDITY.

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

Stations.	95 to 100 %	90 to 94 %	80 to 89 %	70 to 79 %	60 to 69 %	50 to 59 %	40 to 49 %	30 to 39 %	20 to 29 %	0 to 19 %
London (Kew) ...	0	1	9	10	8	3	0	0	0	0
Ross-on-Wye ...	0	1	3	21	3	3	0	0	0	0
Falmouth (Obsy.)	3	5	15	6	2	0	0	0	0	0
Renfrew ...	0	3	8	14	4	1	1	0	0	0
Eskdalemuir ...	0	1	14	10	2	4	0	0	0	0
Aberdeen ...	0	2	6	4	13	5	1	0	0	0
Valentia ...	0	4	15	5	6	1	0	0	0	0

STATE OF GROUND AT 18 h.

No. of Days each Type was recorded

Stations.	0	1	2	3	4	5	6	7	8	9
London (Kew)...	0	31	0	0	0	0	0	0	0	0
Ross-on-Wye ...	0	31	0	0	0	0	0	0	0	0
Renfrew ...	0	18	10	2	0	0	1	0	0	0
Eskdalemuir ...	1	25	1	2	1	0	0	0	1	0
Aberdeen ...	0	24	0	0	3	0	2	2	0	0
Valentia ...	0	31	0	0	0	0	0	0	0	0

CODE for State of Ground.

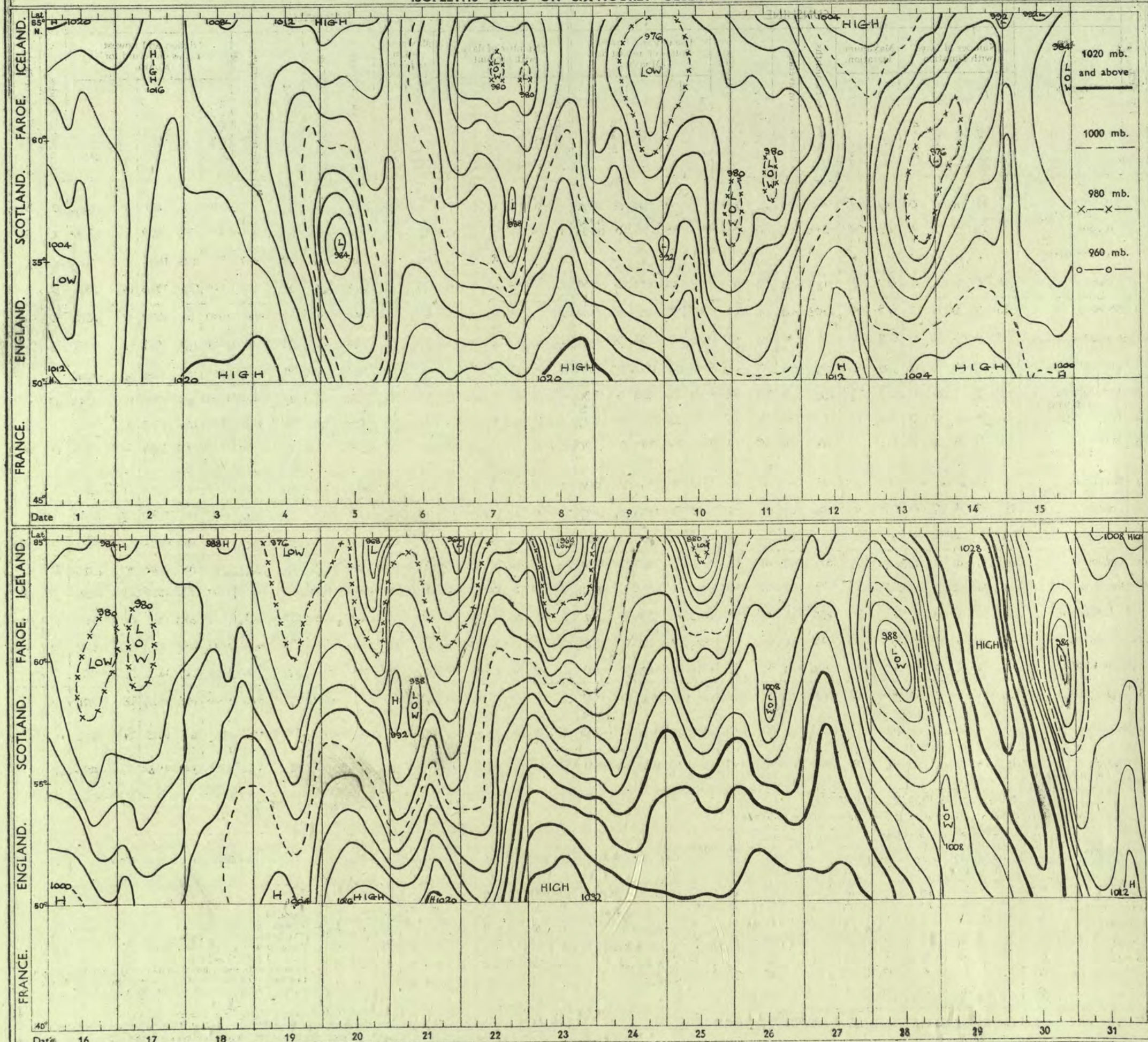
0 Dry.
1 Wet.
2 Flooded.
3 Frozen hard and dry
4 Partly covered with snow or hail.
5 Covered with ice or glazed frost
6 Covered with thawing snow.
7 Covered with snow, less than 6 in., but ground not frozen
8 Covered with snow, less than 6 in., and ground frozen.
9 Covered with snow, greater than 6 ins.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

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

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

PRESSURE: ICELAND TO GULF OF LIONS December 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.

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

Ps.393/4384. Wt.8142. D2558. Gp.948/3. 375. 1/42.

SECRET

Page 1

BRITISH SECTION

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

Tuesday 1st December 1942

No. 2952

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	19·6	0	W	1	Z_0	42	85	28	5	-	-	-	0	0	·
	Croydon ...	19·7	-2	-	0	f	40	85	36	3	·	-	-	10	10	<150
	S. Farnborough	19·2	-4	N'W	1	Z_0	45	66	35	6	5	7	-	4-6	9+	2000
	Boscombe Down	19·3	+2	-	0	Z_0	40	75	35	6	5	7	-	9	9+	4000
	Thorney Island	18·9	-2	W	1	Z_0	46	85	41	6	5	-	-	9+	9+	2500
	Lympne ...	18·6	+6	NW'W	1	bc	42	65	29	7	-	-	4	0	4-6	—
	Manston ...	18·5	-2	NW'W	3	bc	40	85	29	7	-	3	6	0	4-6	—
2	Shoeburyness ...	18·8	-4	NW	2	bc	43	65	31	6	-	7	1	0	4-6	·
	Felixstowe ...	18·3	+2	W'N	3	Z_0	41	65	31	6	-	7	2	0	7-8	·
	Gorleston ...	16·9	0	NW'W	2	Z_0	41	75	32	6	5	3	-	2-3	4-6	1000
	Mildenhall ...	18·2	-2	NNW	2	Z_0	39	75	31	6	-	3	1	0	4-6	-
	Cranwell ...	17·0	-6	NW'N	2	Z_0	40	65	29	5	-	-	9	0	2-3	—
3	Birmingham ...	18·1	-4	W	2	bc	42	68	32	6	1	-	-	4-6	4-6	2500
	Upper Heyford	18·5	+2	SW	2	Z_0	40	75	32	6	5	-	8	4-6	4-6	3000
4	Ross-on-Wye	18·2	-6	SW'S	1	c	43	85	37	6	5	-	1	9	9+	3000
5	Hartland Point	18·4	-6	N	2	c-bc	48	75	39	8	3	-	-	7-8	7-8	2000
	Bristol ...	19·4	-4	SSE	1	Z_0	45	75	38	6	5	-	-	9+	9+	4000
	Portland Bill ...	19·3	-2	E	2	c	48	75	41	8	2	4	-	9	9	220
	Plymouth ...	19·4	-4	NW	1	Z_0	48	85	46	5	5	7	·	7-8	9+	5000
	The Lizard ...	19·0	-4	-	0	c	49	75	42	8	8	3	-	7-8	9+	1500
	Scilly (St. Mary's)	20·1	-2	NW'W	2	c	50	85	48	8	8	3	-	4-6	9+	1200
	Guernsey ...															
6	Pembroke ...	19·1	+4	N	1	c-bc	47	85	43	8	2	6	-	4-6	7-8	2500
7	Holyhead (Valley)	17·9	-10	WSW	3	c-bc	47	85	34	9	7	-	5	10	7-8	4000
	Chester (Sealand)	17·7	-8	W	1	Z_0	44	75	35	5	8	-	-	9+	9+	3500
8	Manchester ...	17·7	-10	SSE	3	m/f	40	75	34	4	-	3	1	0	2-3	-
10	Spurn Head ...	17·2	0	W'N	3	c-bc	40	85	30	6	5	5	-	2-3	7-8	2500
	Catterick ...	16·2	-10	WSW	2	c-bc	39	55	27	8	-	7	-	0	7-8	-
	Tynemouth ...	16·4	-16	W	3	Z_0	38	75	29	5	5	4	-	7-8	9	2000
11	St. Abbs Head	13·9	-14	SW	2	c	38	75	30	7	5	4	-	9	9+	3000
	Leuchars ...	12·9	-26	SW	4	Z_0	37	75	31	6	-	7	-	0	9+	-
12	Renfrew (Abbots I.)	14·4	-26	SW	3	Z_0	41	75	33	5	5	7	-	1	10	5000
	Eskdalemuir ...	15·2	-20	SSW	4	c-bc	37	75	29	8	5	4	2	1	7-8	2800
	Point of Ayre ...	16·8	-10	SW'N	2	c	43	75	36	8	4	7	9	2-3	9+	3000
13A	Tiree	12·1	-36	W'S	4	iR	45	92	43	7	9	7	-	7-8	9+	1500
13B	Stornoway ...	07·7	-42	WSW	4	c/f	45	85	42	7	5	7	-	4-6	10	1000
15	Dalwhinnie ...	12·0	-24	WSW	3	0	36	75	28	8	5	1	-	7-8	10	2500
	Aberdeen ...	11·3	-44	WSW	3	c	36	75	38	7	-	2	-	0	10	-
	Wick ...	10·5	-30	SSW	1	ss	33	97	33	4	5	-	-	10	10	800
16	Sumburgh ...	07·9	-20	WNW	5	c'S	35	75	28	8	6	2	-	7-8	10	1500
17	Blacksod Point	17·5	-14	W	3	c/pr	49	75	41	8	8	3	6	4-6	9+	1500
18	Malin Head ...	14·6	-22	S	3	c	43	85	39	8	8	2	-	7-8	9+	2500
	Aldergrove ...	16·9	-18	SW'S	2	Z_0	39	85	36	5	5	7	-	9	9+	3000
19	Birr Castle ...	18·4	-10	WSW	2	c	45	85	41	7	5	-	-	9	9	2500
20	Valentia Obsy.	20·3	-10	-	0	c/pr	47	92	45	8	8	7	4	7-8	9	2500
	Roches Point	20·0	-6	SE	1	bc	48	85	44	8	2	3	-	1	4-6	2500

OBSERVATIONS at 18h. 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)	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)	16·6	-12	SW	1	ct	41	85	34	3	5	-	6	7-8	9	4000	1	*
	Croydon ...	17·8	-12	W	1	c-bcf	39	83	34	3	5	-	-	7-8	7-8	3000	1	*
	S. Farnborough	16·9	-10	SW	2	m	40	83	36	4	5	-	-	9+	9+	5000	0	*
	Boscombe Down	17·3	-12	0	3	Z_0	42	85	37	6	5	-	-	10	10	2500	0	*
	Thorney Island	17·3	-10	-	0	Z_0	39	97	39	5	5	3	-	4-6	9+	6100	1	*
	Lympne ...	17·6	-12	-	0	Z_0	33	83	30	5	5	-	-	4-6	4-6	6000	1	§
	Manston ...	17·2	-10	WSW	1	Z_0	32	92	30	6	-	3	-	0	Tr	-	1	*
2	Shoeburyness ...	17·7	-12	NW	2	m	34	85	30	4	-	7	-	0	2-3	-	0	*
	Felixstowe ...																	
	Gorleston ...	15·8	-8	W	2	Z_0	36	75	28	6	5	-	-	2-3	2-3	1500	0	3
	Mildenhall ...	15·0	-14	SW	3	Z_0	35	75	28	6	-	-	-	0	0	-	1	*
	Cranwell ...	14·4	-10	SW'W	2	Z_0	34	85	31	5	-	7	1	0	7-8	—	0	*
3	Birmingham ...	15·3	-16	SSW	2	Z_0	39	92	37	6	5	-	-	9	9	1500	1	*
	Upper Heyford	16·5	-12	SW	2	c/d	39	85	35	5	5	-	-	10	10	2000	0	*
4	Ross-on-Wye	15·9	-10	SW	2	c-bc	41	85	37	6	5	4	1	2-3	2-3	2500	1	*
5	Hartland Point	16·8	-8	NW	2	c	47	75	41	8	3	7	-	2-3	9+	2000	1	3
	Bristol ...	17·1	-6	SW	1	Z_0	42	92	40	6	5	-	-	2-3	2-3	4000	1	*
	Portland Bill ...	17·0	-6	SW	2	c	48	75	41	7	5	-	-	10	10	4000	1	3
	Plymouth ...	17·9	-6	—	0	z	45	85	41	4	5	-	-	9+	9+	5000	1	1
	The Lizard ...	17·9	-4	NW	3	c	47	75	39	8	8	3	-	7-8	9+	1500	0	3
	Scilly (St. Mary's)	18·0	+8	WNW	2	c	47	85	43	8	8	3	-	4-6	9+	1000	1	2
	Guernsey ...																	
6	Pembroke ...	16·7	-8	WNW	2	c	47	85	43	8	8	-	-	9+	9+	4000	1	2
7	Holyhead (Valley)	14·7	-18	WSW	3	c-bc	45	75	38	8	7	-	-	7-8	7-8	2800	1	1
	Chester (Sealand)	14·7	-18	SW	1	c	41	75	34	5	5	-	-	10	10	3000	0	*
8	Manchester ...	14·1	-20	S	3	cf	38	85	34	4	5	-	-	10	10	3100	1	*
10	Spurn Head ...	14·2	-10	SW	3	Z_0	38	75	31	5	5	3	-	4-6	10	1500	0	3
	Catterick ...	11·8	-20	S'W	2	Z_0	39	75	32	6	5	7	-	4-6	10	7400	1	*
	Tynemouth ...	11·3	-20	W	3	Z_0	39	75	32	6	5	-	-	9	9	2500	1	3
11	St. Abbs Head	07·2	-30	SW	3	c	37	86	33	7	5	-	-	10	10	2500	0	3
	Leuchars ...	05·5	-42	SW	4	c/f	39	85	34	6	5	2	-	7-8	10	2700	0	*
12	Renfrew (Abbots I.)	08·1	-30	SW'S	3	c/f	43	92	41	6	5	2	-	4-6	10	3000	1	*
	Eskdalemuir ...	09·8	-26	SW	4	c	36	85	30	7	5	-	-	9+	9+	2800	0	*
	Point of Ayre ...	11·7	-22	W	4	c	44	85	39	8	8	1	-	9	10	1800	0	3
13A	Tiree	07·5	-28	W'N	5	r	46	85	43	7	2	2	-	7-8	10	1800	1	3
13B	Stornoway ...	04·6	-22	NW	2	c	43	92	41	6	5	2	-	9+	10	1200	1	-
15	Dalwhinnie ...	04·7	-20	WSW	3	if	38	92	36	7	5	-	-	7-8	7-8	1500	1	*
	Aberdeen ...	03·2	-42	SW	2	m	37	75	32	4	5	-	-	2-3	2-3	4000	4	2
	Wick ...	03·7	-18	NNE	3	prs	36	85	32	6	5	-	-	10	10	1000	1	*
16	Sumburgh ...	04·0	-14	NNE	4	s	31	92	29	5	-	2	-	10	10	800	1	3
17	Blacksod Point	14·3	-8	N	3	c	47	85	43	8	5	-	-	9+	9+	2500	1	3
18	Malin Head ...	09·4	-28	W'N	4	c	47	75	40	8	5	-	-	10	10	1500	1	3
	Aldergrove ...	12·3	-22	SW	3	Z_0	41	97	39	6	5	2	-	9	10	1000	1	*
19	Birr Castle ...	15·3	-14	WSW	2	D	42	92	40	8	-	-	-	0	0	-	0	*
20	Valentia Obsy.	17·9	-10	—	0	bc	42	92	40	9	3	-	-	4-6	4-6	2500	1	0
	Roches Point	17·3	—	W'N	2	c-bc	46	85	42	8	5	-	-	7-8	7-8	2500	1	3

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 30th (39)	Weather. 13h.—18h. 30th (40)	Weather. 18h. 30th to 1h. 1st (41)	Weather. 1h.—7h. (42)
1	London (Kew)	bcbz$_0$j	Z_0cmfw	cr$_0$c$_0$bm$_0$	bm$_0$ocw
	Croydon ...	cmbf	cfcf	cfir$_0$cm	cmcm$_0$
	S. Farnborough	cmbpcz$_0$	cz$_0$cm	cmidm$_0$cc	ocm$_0$ir$_0$c
	Boscombe Down	cmwc	cm$_0$cm$_0$	cr$_0$m$_0$c	bcm$_0$w
	Thorney Island	bmcm$_0$	cmbcm$_0$	cm$_0$	cm$_0$bcm$_0$
	Lympne ...	bm$_0$bz$_0$	bcym$_0$	cmir$_0$cm$_0$	cm$_0$
	Manston ...	cbcbm$_0$bc	bcbm$_0$	cm$_0$cir$_0$	cm$_0$c.
2	Shoeburyness ...	bcm$_0$bz$_0$	bcz$_0$bcm	c	bcm$_0$
	Felixstowe ...	bcm$_0$cm$_0$		bcm$_0$	becbcm$_0$
	Gorleston ...	cz$_0$	bcz$_0$	bccz$_0$	cz$_0$pr$_0$x
	Mildenhall ...	bcmxcbcm$_0$	bczbz$_0$	cir$_0$m$_0$cm$_0$	cbccm$_0$c
	Cranwell ...	cm$_0$bcm$_0$	cm$_0$	cm$_0$b	cm$_0$
3	Birmingham ...	Pbc	bccpr$_0$	cbc	bccpr$_0$
	Upper Heyford	bcmbcz$_0$	bczcm$_0$id$_0$	cm$_0$bcm$_0$	cm$_0$bcm$_0$
4	Ross-on-Wye	c	c	bc	bc
5	Hartland Point	c	c	cbccpr	cpr
	Bristol ...	cmm$_0$	cm$_0$bm$_0$	cm$_0$	cm$_0$bcir$_0$
	Portland Bill ...	c	c	c	c
	Plymouth ...	cmcm$_0$	cm$_0$z$_0$z	cmcm$_0$	cm$_0$bc
	The Lizard ...	c	c	cbc	bcpr$_0$c
	Scilly (St. Mary's)	cp$_0$c	cp$_0$c	cp$_0$bc	bcpc
	Guernsey ...				
6	Pembroke ...	cpr$_0$	c	cpr$_0$q	cq
7	Holyhead (Valley)	c	c	cir$_0$cbc	bcir$_0$c
	Chester (Sealand)	cfbcf	cz$_0$	cz$_0$m$_0$pr$_0$	bz$_0$c
8	Manchester ...	[illegible]	cz$_0$cff	cm$_0$ir$_0$	cr$_0$r$_0$m$_0$
10	Spurn Head ...	cz$_0$	cm$_0$	cm$_0$	cm
	Catterick ...	cz$_0$bccy	cpcz$_0$	cm$_0$	ir$_0$cm$_0$bc
	Tynemouth ...	bccm$_0$	cm	c	c
11	St. Abbs Head	bcccm$_0$	cm$_0$	cm$_0$rrc	cr$_0$rrr
	Leuchars ...	ccm$_0$	cm$_0$ir$_0$m	crrm$_0$	crrm$_0$bc
12	Renfrew (Abbots I.)	cm$_0$	cir$_0$cm$_0$	rrr$_0$r$_0$c	ccm$_0$
	Eskdalemuir ...	bcxbc	bcc	crm$_0$	crrm$_0$
	Point of Ayre ...	c	pr$_0$c	cprc	cprbc
13A	Tiree	crcirR	prcprr$_0$	r$_0$cprr	r$_0$irprc
13B	Stornoway ...	cm$_0$r$_0$c	cm$_0$r$_0$cm$_0$	cr$_0$s$_0$s$_0$	cpr$_0$s$_0$cpsbc
15	Dalwhinnie ...	occ	oir$_0$c	*	cir$_0$ps
	Aberdeen ...	bcc	or$_0$s$_0$bcbz	bzcr$_0$rf	cs$_0$s$_0$ps$_0$
	Wick ...	css	csscrs$_0$	cs$_0$s$_0$	cs$_0$s$_0$ps$_0$c
16	Sumburgh ...	cpshis$_0$m$_0$	cis$_0$s$_0$s$_0$	cs$_0$s$_0$is$_0$bc	cis$_0$m$_0$s
17	Blacksod Point	pr	c	bc	c
18	Malin Head ...	c	pr	r	r
	Aldergrove ...	cxcm$_0$	cid$_0$m$_0$	cm$_0$r$_0$r$_0$	cr$_0$r$_0$bcir$_0$
19	Birr Castle ...	c	bc	*	r
20	Valentia Obsy.	pr	pr	pr	pr
	Roches Point	c	c	bc	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 1st December 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	Fresh westerly winds, veering northwest or north, cloudy at first; a belt of rain moving southwards across area, followed by mainly bright conditions, but with some wintry showers on east and west coasts; rather cold becoming colder with keen frost locally at night.
8 N.W. England ↑ 9 N. Midlands ... 10 N.E. England ↑ 11 S.E. Scotland ↑ 12 S.W. Scotland & Isle of Man ↑ 13A W. Scotland ... ↑ 13B N.W. Scotland ↑ 14 Mid Scotland 15 N.E. Scotland ↑	Fresh or strong north or northwest winds, moderating; occasional wintry showers, more especially in North and East Scotland where they will be of snow, some bright intervals; very cold with keen or hard frost locally well inland.
16 Orkneys and Shetlands ↑ 17 N.W. Ireland 18 N.E. Ireland ↑	As 8-15
19 S.E. Ireland 20 S.W. Ireland	As 1-7

GENERAL INFERENCE

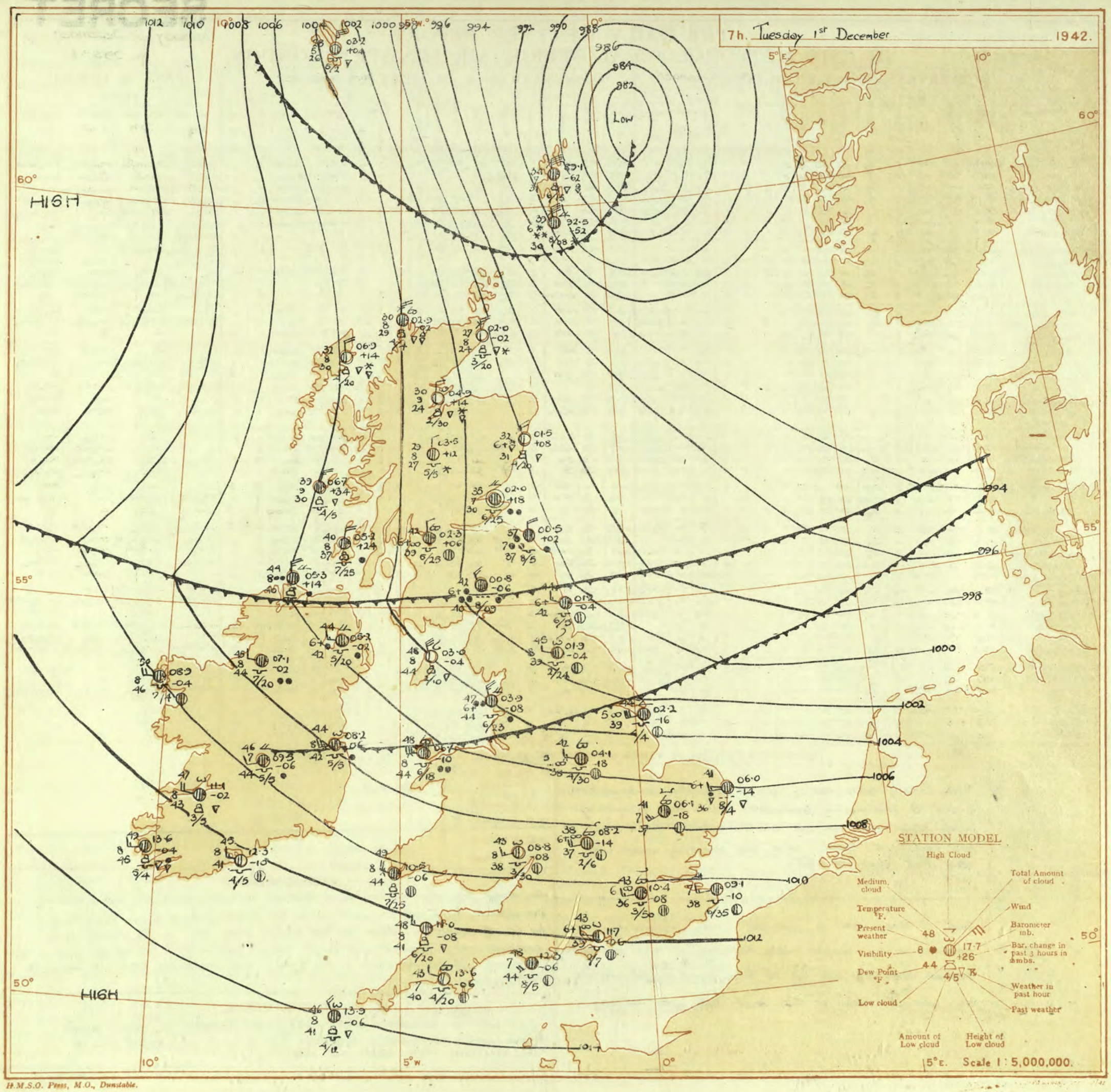
An intense depression centred east of Shetland is moving southeast, and a trough of low pressure lying east - west across the British Isles is moving south. There will be cloudy conditions ahead of the trough, some rain in its vicinity and occasional wintry showers and bright intervals behind it; it will be very cold in the north and will become colder in the south; rather widespread frost with occur at night.

FURTHER OUTLOOK

Cold north or northwest winds with wintry showers in many places.
↑ Gale warning in operation in districts 2, 8, 10, 11, 12, 13 (a & b) 15, 16 & 18
Time of issue 0600 + 0805 on 1/12/42.

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.

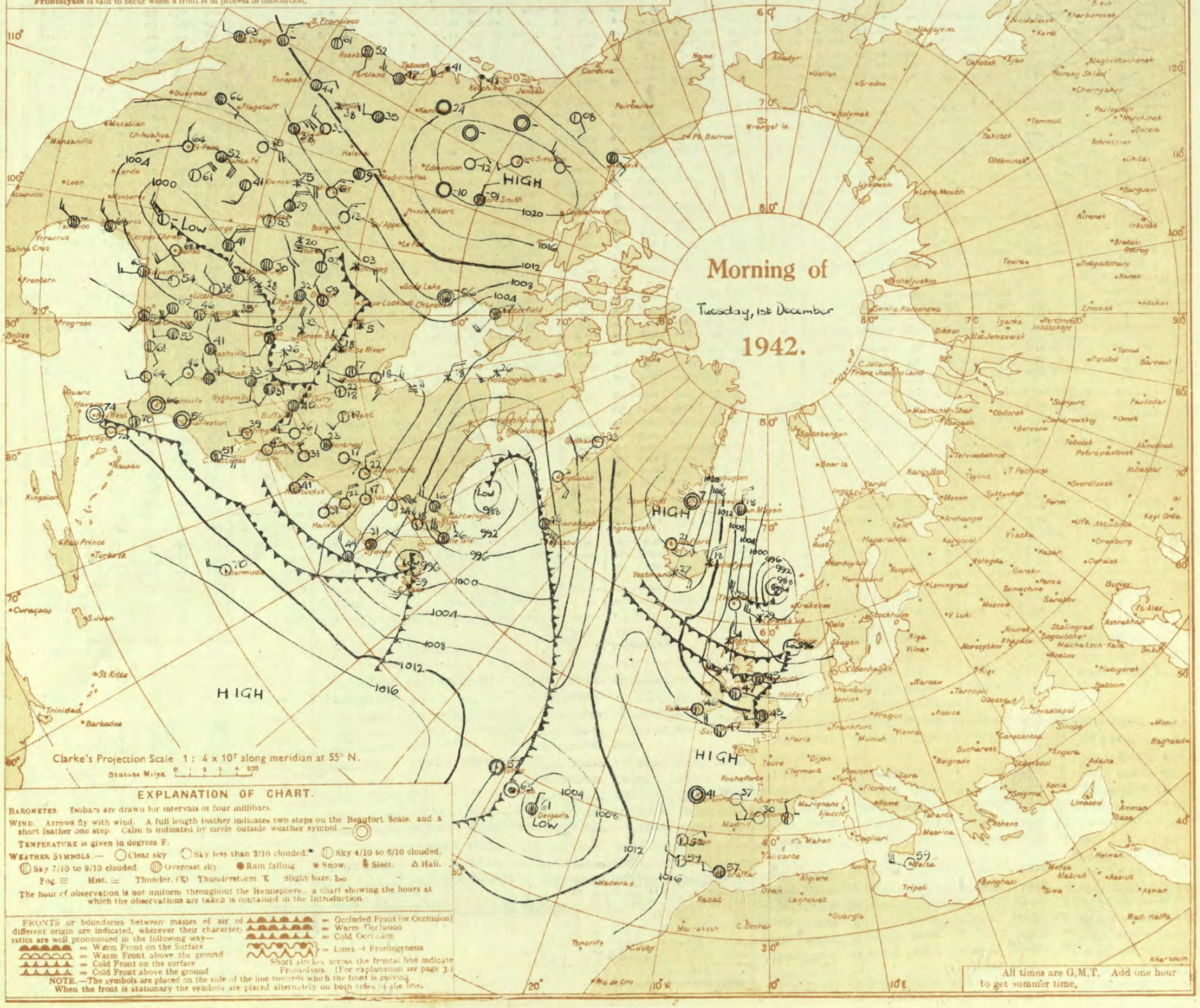
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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.

Tuesday 1st December 1942

No. 29594

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Med (11)	High (12)	Amount Low 0–10 (13)	Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	42	*	*	*	*	*	*	*	*	*
	Croydon	290	13·3	-18	WSW	3	m	43	85	39	4	5	–	–	10	10	4000
	S. Farnborough	226	13·0	-18	WNW	3	z_0	42	92	39	6	5	–	–	10	10	5000
	Boscombe Down	417	14·0	-18	W	3	z_0	41	92	39	6	5	–	–	9+	9+	3700
	Thorney Island	10	13·7	-12	W'N	3	z_0	43	92	40	6	–	2	–	0	10	–
	Lympne	283	12·8	-24	S	1	z_0	42	92	40	6	–	3	–	0	9+	–
	Manston	154	12·3	-22	W'S	3	z_0	41	97	39	6	5	1	–	2-3	10	3500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	12·4	-18	SW'S	4	z_0	40	85	36	5	–	7	–	0	4-6	–
	Gorleston	5	10·5	-28	WSW	3	z_0	37	85	33	5	5	–	–	10	10	1500
	Mildenhall	15	10·0	-26	SW'S	3	z_0	39	85	36	6	5	–	–	10	10	5200
	Cranwell	203	07·9	-28	WSW	4	z_0	40	85	37	6	6	7	6	4-6	9	4000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	11·8	-24	SW	3	z_0	38	97	37	5	5	–	–	10	10	4800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	13·9	-16	WNW	3	c	46	85	41	8	8	–	–	9+	9+	1500
	Bristol	209	14·6	-14	SSW	2	z_0	43	85	39	6	5	–	–	4-6	4-6	5700
	Portland Bill	32	15·0	-10	SW	4	c	47	85	43	7	5	–	–	10	10	2500
	Plymouth	82	15·5	-14	–	0	z_0	42	92	40	6	5	7	–	2-3	7-8	4000
	The Lizard	240	15·5	-12	NW'W	2	bc	46	75	39	8	6	–	–	4-6	4-6	1500
	Scilly (St. Mary's)	163	15·6	-18	W'N	4	bc	47	75	41	8	8	–	–	4-6	4-6	1500
	Guernsey	175															
6	Pembroke	142	13·0	-14	WNW	4	c-bcq	48	75	41	8	8	–	–	2-3	7-8	3000
7	Holyhead (Valley)	32	09·7	-26	W	5	bc	47	92	46	8	8	7	–	4-6	4-6	4000
	Chester (Sealand)	16	09·9	-18	WSW	3	bc	45	75	38	6	5	–	6	2-3	4-6	3500
8	Manchester	235	08·9	-22	SSW	4	r_0r_0	41	92	39	5	5	–	–	10	10	1700
10	Spurn Head	29	06·5	-34	WSW	6	z_0	41	76	34	5	5	–	–	9+	9+	1500
	Catterick	175	03·8	-32	WSW	4	z_0	45	85	39	6	5	7	–	2-3	9	1500
	Tynemouth	108	03·2	-26	WSW	5	c	45	85	41	7	5	–	–	9+	9+	2500
11	St. Abbs Head	280	00·2	-20	W	4	r_0r_0	45	86	42	7	5	–	–	9+	9+	1600
	Leuchars	36	00·4	-14	W	3	bc/d	40	97	39	7	5	7	–	2-3	4-6	3500
12	Renfrew (Abbots I.)	19	03·0	-12	W'S	3	c	44	85	40	7	5	7	–	7-8	9	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	05·6	-24	WNW	6	c/pr	47	85	43	8	8	2	–	7-8	10	2000
13A	Tiree	44	03·4	-14	NW	5	ir	45	97	43	7	2	2	–	4-6	10	2500
13B	Stornoway	15	05·2	+6	N	4	s_0s_0	34	97	33	6	5	–	–	10	10	1000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	00·9	-6	NW'N	3	ir_0	35	92	33	8	5	7	–	7-8	9+	3000
	Wick	114	02·8	-2	N	3	s_0s_0	32	85	29	7	5	–	–	10	10	1700
16	Sumburgh	19	99·7	-14	N'W	5	bc/s	28	85	25	8	2	–	–	4-6	4-6	1500
17	Blacksod Point	18	10·6	-14	W	3	c-bc	50	85	46	8	8	–	–	7-8	7-8	2500
18	Malin Head	84	04·9	-18	W'N	4	r_0r_0	47	85	43	7	6	2	–	7-8	10	1500
	Aldergrove	268	06·8	-26	SW	3	r_0r_0	42	97	41	6	5	–	–	10	10	1400
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	15·2	-14	W'S	3	b-bc	46	85	42	9	7	–	–	2-3	2-3	2500
	Roches Point	22	15·0	-10	NW'W	3	bc	43	85	39	8	5	3	–	2-3	4-6	2500

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

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)	09·2	-12	SW	2	bc	42	85	37	7	–	4	1	0	4-6	–	1	*
Croydon	10·4	-8	W'S	3	z_0	43	75	36	6	5	7	1	2-3	9+	5000	1	*
S. Farnborough	09·5	-10	SW'W	4	c-bc	41	85	37	7	5	4	–	2-3	7-8	2500	0	*
Boscombe Down	11·2	-8	SW	3	z_0	40	92	38	6	5	7	–	4-6	7-8	3500	0	*
Thorney Island	11·7	-6	W	3	z_0	43	86	39	6	6	3	–	1	4-6	5700	0	
Lympne	10·1	-6	WSW	2	z_0	40	92	38	6	5	3	–	9	9+	4500	1	§3
Manston	09·1	-10	WSW	3	c	41	85	38	7	5	–	–	9	9	3500	1	*
Shoeburyness	10·1		SW	3	z_0	43		38	6	5	–		4-6	4-6	4000	1	*
Felixstowe	08·3	-6	SW	4	z_0	42	85	38	8	5	3	6	4-6	4-6	4000	0	3
Gorleston	06·0	-14	W'S	3	pr	41	85	36	6	6	–	–	10	10	1500	0	3
Mildenhall	06·1	-18	SW'W	5	c	41	85	37	7	–	7	7	0	10	–	1	*
Cranwell	04·3	-18	WSW	4	z_0	42	85	39	6	–	7	–	7-8	9+	3000	0	*
Birmingham	07·5	-6	WSW	3	z_0	42	85	38	6	5	–	–	7-8	9+	2500	1	*
Upper Heyford	08·2	-14	WSW	4	z_0	38	97	37	6	5	7	8	1	7-8	4000	0	*
Ross-on-Wye	08·8	-8	WSW	3	bc	43	85	38	8	5	3	–	2-3	4-6	3000	1	*
Hartland Point	11·0	-8	WNW	3	c	48	75	41	8	8	–	–	9	9	2000	1	4
Bristol	11·2	-10	WSW	4	c-bc/r	44	92	42	7	5	3	–	7-8	7-8	4000	1	*
Portland Bill	12·3	-6	SW	4	c	48	85	44	7	5	–	–	10	10	2500	1	4
Plymouth	13·6	-6	WNW	2	bc	43	86	40	7	5	7	–	4-6	4-6	2000	1	1
The Lizard	13·5	-12	NW	5	c-bc/pr	46	85	42	8	3	–	–	7-8	7-8	1500	1	4
Scilly (St. Mary's)	13·9	-6	NW'W	4	c	46	85	41	8	8	3	–	4-6	9+	1200	1	4
Guernsey																	
Pembroke	10·5	-6	WNW	5	cq	49	85	44	8	8	–	–	9+	9+	2500	1	3
Holyhead (Valley)	06·7	-10	W'S	7	c/r	48	88	44	8	5	7	–	9	10	1800	1	3
Chester (Sealand)	06·4	-14	W	3	r_0r_0	47	85	41	7	5	2	–	2-3	10	3000	1	*
Manchester	05·3	-14	SW'S	4	ir_0	44	92	42	6	5	–	–	10	10	2500	1	*
Spurn Head	02·2	-16	WSW	6	z_0	44	85	39	5	5	1	–	4-6	10	1500	0	4
Catterick	01·9	-4	WNW	1	bc	45	86	39	8	5	3	5	1	4-6	2400	1	*
Tynemouth	01·2	-4	WNW	3	c	44	92	42	6	5	–	–	9	9	2500	1	3
St. Abbs Head	00·5	+2	NNW	4	rr	37	97	37	7	5	–	–	10	10	2500	1	3
Leuchars	02·0	+18	–	0	c/r	35	75	30	7	5	2	–	9	10	2500	1	*
Renfrew (Abbots I.)	02·3	+6	NNW	1	z_0	42	92	39	6	5	7	–	7-8	9+	2500	1	*
Eskdalemuir	00·8	-6	NW'W	4	rr	42	92	40	6	6	–	–	10	10	900	1	*
Point of Ayre	03·0	-4	NW	6	b-bc	48	85	44	8	2	4	–	1	2-3	1000	1	5
Tiree	06·7	+34	N'E	5	c	39	75	30	9	8	–	–	4-6	9+	2500	1	4
Stornoway	06·9	+14	NNW	4	bc/ps	32	92	30	8	2	–	–	4-6	4-6	2000	4	*
Dalwhinnie	03·5	+12	NNW	1	c-bc	29	92	27	8	5	–	–	7-8	7-8	2500	4	*
Aberdeen †	01·5	+8	NW'N	4	ps	32	97	31	6	3	–	–	4-6	4-6	2000	4	2
Wick	02·0	-2	NNW	5	b-bc/s	27	85	24	8	8	–	–	2-3	2-3	2000	7	*
Sumburgh	92·5	-52	NW'N	8	ss	39	75	30	6	–	2	–	10	10	800	8	5
Blacksod Point	08·9	-4	W	4	c	50	85	46	8	5	–	–	9+	9+	1500	1	3
Malin Head	05·3	+14	NNW	5	r_0r_0	44	85	40	8	8	2	–	4-6	10	1500	1	3
Aldergrove	05·2	-2	W	3	ir_0	44	92	42	6	5	2	–	7-8	10	2000	1	*
Birr Castle	09·5	-6	WSW	2	c	46	92	44	7	5	2	–	7-8	9+	2500	1	*
Valentia Obsy.	13·6	-4	W	3	c-bc/pr	49	85	45	8	8	–	–	7-8	7-8	1500	1	3
Roches Point	12·3	-10	WNW	3	bc	45	85	41	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)	Night 18h–7h mm. (37)	Sunshine 30th Hrs. (38)
London (Kew)	42	41	35	–	Tr	3·7
Croydon	45	39	37	–	Tr	0·0
S. Farnborough	45	40	36	–	Tr	2·5
Boscombe Down	47	40	36	–	Tr	0·6
Thorney Island	47	39	37	–	–	*
Lympne	42	33	29	–	0·1	5·4
Manston	42	31	25	–	0·1	4·5
Shoeburyness	45	32	22	–	0·4	4·3
Felixstowe		36	31		Tr	3·3
Gorleston	41	33	30	Tr	Tr	2·3
Mildenhall	42	34	26	–	Tr	2·7
Cranwell	41	32	24	–	–	2·8
Birmingham	42	36	32	0·1	Tr	0·8
Upper Heyford	44	34	30	Tr	–	*
Ross-on-Wye	44	38	33	–	–	0·1
Hartland Point	48	43	41	–	3	0·4
Bristol	46	39	29	–	Tr	0·4
Portland Bill	49	44	*	–	–	*
Plymouth	48	41	32	Tr	–	0·0
The Lizard	49	40	*	–	0·5	0·0
Scilly (St. Mary's)	51	44	*	3	1	0·3
Guernsey						
Pembroke	48	45		1	–	1·4
Holyhead (Valley)	48	44	43	–	0·2	*
Chester (Sealand)	45	44	38	Tr	0·3	0·0
Manchester	40	37	34	–	0·5	*
Spurn Head	40	37	*	–	–	2·4
Catterick	40	39	35	–	Tr	2·2
Tynemouth	40	39	36	–	–	*
St. Abbs Head	38	36	*	–	5	*
Leuchars	40	35	33	Tr	2	0·0
Renfrew (Abbots I.)	43	41	36	0·6	2	0·0
Eskdalemuir	37	35	35	–	7	1·5
Point of Ayre	45	44	*	Tr	1	1·9
Tiree	47	38	*	4	4	0·0
Stornoway	45	30	28	4	1	0·0
Dalwhinnie	38	28	24	0·6	4	0·0
Aberdeen †	37	32	30	Tr	2	0·0
Wick	38	27	23	9	0·4	*
Sumburgh	35	26		3	2	0·0
Blacksod Point	49	45	*	1	3	*
Malin Head	47	43		1	5	0·0
Aldergrove	41	40	39	Tr	2	0·1
Birr Castle	46	40	37	–	0·3	0·2
Valentia Obsy.	48	39	35	2	1	3·5
Roches Point	50	40	*	–	–	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 30th November C_LC_M	wwVhNh	DDFWN	18h. G.M.T. C_LC_M	wwVhNh	DDFWN	01h. G.M.T. 1st December C_LC_M	wwVhNh	DDFWN	07h. G.M.T. C_LC_M	wwVhNh	DDFWN
109	02	74390	00078	02	23538	03378	3-	01763	29583	3-	01754	60574
115				52	52735	04468	82	10844	30388	37	27844	65586
203							8-	03948	32428			
206	62	68738	26268	51	02854	26476	57	02964	26227	23	26962	32183
210	02	68658	18278	02	61758	22468	86	02854	58327	5-	02746	30666
220	8.	25353	21388							51	02755	31428
230	5-	10968	18388	9-	25858	20388	5-	02968	28228	83	02953	28488
245	57	23851	23278	57	05651	24416	53	02851	24215	57	01851	26323
260	57	05664	22228	52	61655	51468	53	02762	28116	5-	62658	28468
278	53	02965	22247	52	02747	23428	54	01861	29452	8-	82647	59567
279	57	02763	18326	5-	02748	20428	53	01761	30155	5-	61754	55568
285	53	01854	28416									
288	03	02890	20216	52	05684	18428	00	05690	21200	03	01790	55364
575	5-	22858	00068	8-	81648	20388	00	09790	00014	5-	22857	24267
301	53	41473	14246	5-	05666	20226	26	05653	04215	52	62656	28568
321	00	41590	00043	03	08490	19324	5-	08466	26226	57	05656	24428
299	53	05654	26314	5-	05655	24315	8-	25755	24385	87	02755	24325
292	03	02790	21116	5-	45366	16146	00	00790	27220	5-	22746	25366
310	--	01643	24313	--	01636	24316				--	02638	20328
614	00	08490	22111				52	05556	30128	57	05564	57325

III	13h. G.M.T. 30th November C_LC_M	wwVhNh	DDFWN	18h. G.M.T. C_LC_M	wwVhNh	DDFWN	01h. G.M.T. 1st December C_LC_M	wwVhNh	DDFWN	07h. G.M.T. C_LC_M	wwVhNh	DDFWN
333	53	02661	26166	03	45378	20248	8-	02748	32328	57	22754	2256
334	-	02754	22213	--	02646	28216				--	61646	32287
340	53	41564	18146	5-	05565	22125	53	02656	28127	53	92764	24326
136	03	05690	26225	03	05690	20225	53	05652	25327	02	61690	21568
336				50	01753	24314				52	22644	24568
350	00	05690	00002	5-	61467	16267	5-	22548	10168	53	05673	20425
368	5-	05565	12128	03	05690	00003				54	25653	22283
379	5-	08447	28117	5-	22458	22228				53	05663	20425
390	00	05690	28114	0	45590	20344	5-	08468	26128	54	45671	22241
383	57	05575	00027	5-	22568	20168	57	22656	27368	07	01790	22413
438	54	05663	28113	50	05653	00023	5-	05648	30328	87	02765	24327
430	53	08456	24117	53	08464	30124	5-	05688	28228	5-	05684	24225
409	83	25856	31187	84	02854	25124	83	02864	29267	27	01954	26424

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 December.
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 *	$bcbz_0y$	zcmfw	crogbw
Croydon	cm_of	cfof	$cfgcm_o$
Greenwich	cbcm	bcmf	bfrcb
Camden Square	bc	c	*
Kensington	be	bcem	*
Hampstead	bcm	ccm	orbc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·9 Time 18h 30th. Min. 0·1 Time 3h 1st.

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	42	41	35	–	Tr	3·7	*	*
Croydon	45	39	37	–	Tr	0·0	*	*
Greenwich	41	39	26	–	Tr	0·9	86	80
Westminster	43	37	31	0·2			83	86
Regents Park	43	32	30	–	Tr		64	83
Camden Square	43	39	29	–	0·3	*	*	86
Kensington	44	40	28	–	0·1		71	83
Hampstead	41	31	28	–	0·4		*	90

SECRET

Page 1 BRITISH SECTION

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

Wednesday 2nd December 1942

No. 29595

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Amount Low 0–10 (13)	Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	07·6	-10	W'S	4	zo	49	75	40	6	5	4	-	9	9+	1500
	Croydon	09·2	-6	W'S	4	c	49	75	43	6	5	-	-	9+	9+	1400
	S. Farnborough	08·6	-10	W'S	4	c	49	75	42	8	7	7	8	7-8	9+	1300
	Boscombe Down	09·7	-10	W'S	6	c	48	85	44	8	8	3	8	7-8	9	3000
	Thorney Island	10·6	-6	WSW	4	zo	49	75	41	6	8	-	-	9	9	2500
	Lympne	08·3	-14	W'S	3	c-bc	49	65	40	8	2	3	-	4-6	7-8	2000
	Manston	08·5	-6	W'S	4	c	49	75	41	8	5	4	1	7-8	9	4000
2	Shoeburyness	07·9	-10	WSW	4	c/+	48	75	41	7	5	2	-	7-8	10	4000
	Felixstowe	06·3	+14	SW'W	4	toto	46	85	42	5	-	2	-	10	10	2900
	Gorleston	02·6	-22	W'N	4	c-bc	45	85	41	7	5	7	-	4-6	7-8	1000
	Mildenhall	04·8	-10	W'S	5	c/+	47	85	41	7	5	7	-	4-6	9+	2500
	Cranwell	04·0	-2	N'W	4	iro	45	85	41	6	5	-	-	7-8	10	1200
3	Birmingham	06·5	-2	W	3	c	47	85	43	7	6	7	-	4-6	9+	1500
	Upper Heyford	06·7	-8	W	5	c	47	85	42	7	5	9	2	4-6	9	1800
4	Ross-on-Wye	08·3	-6	W'S	3	c	49	75	41	8	5	7	2	7-8	9	3000
5	Hartland Point	10·8	-2	WNW	4	bc	50	75	43	8	2	4	-	2-3	4-6	2000
	Bristol	10·2	-6	W	4	c	50	85	46	7	5	9	-	7-8	9	2200
	Portland Bill	12·0	-2	W	5	c-bc	49	85	45	8	2	4	-	4-6	7-8	4000
	Plymouth	13·1	+4	W	4	c-bc	50	75	43	8	8	4	-	4-6	7-8	2000
	The Lizard	13·9	0	NW	4	bc	51	75	42	8	8	6	-	4-6	4-6	2000
	Scilly (St. Mary's)	14·3	-2	NW'W	4	bc	53	75	45	8	8	4	6	4-6	4-6	1200
	Guernsey															
6	Pembroke	10·2	-6	WNW	6	cq	50	85	46	8	8	-	-	9+	9+	3000
7	Holyhead (Valley)	07·4	+2	N'W	4	toto	46	85	43	8	5	2	-	9	10	1500
	Chester (Sealand)	05·8	+2	WNW	3	iro	47	85	44	6	5	-	-	10	10	2000
8	Manchester	06·0	+6	W'N	4	zo	45	85	41	6	2	2	-	4-6	10	1500
10	Spurn Head	03·3	+10	NW'N	4	c	42	92	40	7	8	6	-	7-8	9+	1500
	Catterick	05·5	+16	NW	2	c	35	75	31	7	5	7	1	4-6	9	2300
	Tynemouth	05·4	+18	NNW	4	c	38	85	33	8	8	-	-	9	9	2200
11	St. Abbs Head	04·7	+14	NW	4	b-bc	34	92	31	8	1	7	-	2-3	2-3	3500
	Leuchars	05·3	+12	WNW	3	b	35	85	30	8	5	4	5	Tr	1	2500
12	Renfrew (Abbots I.)	06·6	+14	NNW	2	bc	37	65	26	9	4	7	6	1	4-6	3000
	Eskdalemuir	06·2	+12	NNE	2	c-bc	32	75	24	8	5	7	1	4-6	7-8	1800
	Point of Ayre	06·5	+16	N	5	c	48	75	40	8	5	-	-	9+	9+	5000
13A	Tiree	08·9	+8	N	4	c	37	65	25	9	8	-	-	9	9	3000
13B	Stornoway	07·1	-2	WNW	4	bc	35	85	31	8	8	-	-	4-6	4-6	2200
15	Dalwhinnie	05·6	+2	NW	2	bc	28	85	24	8	8	-	9	1	4-6	4000
	Aberdeen	01·9	+4	NW'W	5	b	32	65	21	9	3	-	5	1	1	2500
	Wick	01·8	0	NW	5	c/ps	33	92	31	7	8	-	-	9	9	2000
16	Sumburgh	97·5	+60	NNW	5	c-bc	33	75	24	8	6	6	-	9+	9+	2000
17	Blacksod Point	09·4	+2	W'N	3	dodo	49	97	49	7	6	2	-	2-3	10	1500
18	Malin Head	08·9	+10	N'E	4	c	41	65	30	8	5	2	-	7-8	10	2500
	Aldergrove	09·0	+18	NNE	1	c	40	75	33	8	5	2	-	4-6	10	2500
19	*Birr Castle	09·3	-4	SW	2	ir	48	92	46	7	6	2	-	7-8	10	800
20	Valentia Obsy.	13·4	-2	W	4	c	51	85	47	8	8	2	-	9+	9+	4000
	Roches Point	11·8	-2	W	3	bc	50	85	46	8	2	3	-	1	4-6	2500

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

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)	08·2	+8	W'S	3	iro	48	85	44	5	5	2	-	9	10	1500	1	•
Croydon	09·0	+4	SSW	4	iro	48	85	43	4	3	-	-	10	10	1800	1	•
S. Farnborough	08·6	+6	WSW	4	iro	48	85	42	6	5	-	-	10	10	3000	1	•
Boscombe Down	09·7	+4	WSW	4	zo	46	92	44	6	5	-	-	9+	9+	6000	0	•
Thorney Island	10·0	+2	WSW	4	zo	49	85	43	6	5	4	-	4-6	7-8	2500	0	
Lympne	08·4	+2	W'S	3	iro	46	85	42	7	5	-	-	10	10	2000	1	4
Manston	08·0	+6	W	3	roro	46	92	44	6	5	-	-	10	10	2000	1	•
Shoeburyness	08·0	+4	WSW	3	roro	47	85	44	5	5	-	-	10	10	2500	1	•
Felixstowe	06·8	+10	NW'W	3	toto	44	92	42	6	5	-	-	10	10	2900	1	4
Gorleston	06·4	+18	N	1	c/pr	42	92	39	6	5	-	-	10	10	1500	1	1
Mildenhall	07·3	+2	NW	1	toto	41	92	40	6	5	-	-	10	10	3300	1	•
Cranwell	07·6	+22	NNW	2	c/d	38	97	36	6	5	-	-	10	10	800	0	•
Birmingham	08·6	+8	NW	3	toto	46	85	36	6	6	2	-	7-8	10	800	1	•
Upper Heyford	07·7	+12	NW	2	toto	43	92	41	5	6	2	-	7-8	10	1400	1	•
Ross-on-Wye	08·5	+4	W'S	2	iro	48	85	48	8	8	1	-	9	10	2000	1	•
Hartland Point	10·7	+2	WNW	4	c-bc	50	85	46	8	2	6	-	4-6	7-8	2500	1	4
Bristol	10·0	+2	W	4	iro	48	85	45	6	5	7	-	4-6	9+	4000	1	•
Portland Bill	11·5	+2	W	5	c	50	85	46	8	5	-	-	9	9	4000	1	5
Plymouth	12·9	+6	W	4	pr	49	85	45	8	8	6	-	4-6	4-6	2500	1	3
The Lizard	13·8	+4	WNW	5	c-bc	49	85	45	8	8	-	-	4-6	7-8	1500	1	4
Scilly (St. Mary's)	14·2	+6	W'N	4	c-bc	50	85	46	8	8	7	-	4-6	7-8	1200	0	4
Guernsey																	
Pembroke	09·7	0	WNW	5	c/pr	51	85	47	8	8	2	-	7-8	9+	3000	1	4
Holyhead (Valley)	09·1	+8	NNE	2	roro	42	85	35	6	-	2	-	10	10	1500	1	3
Chester (Sealand)	08·5	+24	NW	3	iro	41	75	35	6	-	2	-	1	2-3	1200	1	•
Manchester	08·4	+16	WNW	3	zo	40	75	33	5	5	2	-	2-3	10	2700	1	•
Spurn Head	06·7	+10	NW	4	c	38	65	29	7	5	4	-	4-6	9	2500	1	3
Catterick	08·3	+20	WNW	1	c-bc	31	75	25	7	5	3	-	1	7-8	3000	1	•
Tynemouth	07·5	+12	W	3	bc	32	65	21	6	2	3	-	2-3	4-6	2500	3	3
St. Abbs Head	05·6	+4	WNW	4	c-bc	35	97	35	7	5	-	-	7-8	7-8	4000	0	5
Leuchars	06·4	+8	W	3	bc	34	85	29	9	-	7	-	0	4-6	-	1	•
Renfrew (Abbots I.)	08·7	+14	W	1	c	33	65	25	8	5	3	-	4-6	9	2500	1	•
Eskdalemuir	08·3	+12	NW	3	c	29	75	20	7	5	7	-	4-6	9+	4000	1	•
Point of Ayre	09·0	+16	NNE	4	c	39	65	28	8	5	2	-	4-6	10	3000	0	4
Tiree	10·1	+12	NNW	2	c	37	65	29	9	8	3	-	7-8	9	3000	1	2
Stornoway	09·1	+14	NW	4	bc	33	97	31	8	8	-	-	4-6	4-6	2200	4	
Dalwhinnie	07·5	+8	NW	3	b-bc	30	85	27	8	5	-	-	2-3	2-3	4000	4	•
Aberdeen	04·7	+18	W'N	5	b-bc/ps	32	97	32	7	9	-	-	2-3	2-3	2500	7	•
Wick	04·0	+6	NNW	5	psh	32	92	30	6	9	-	-	4-6	4-6	1000	7	•
Sumburgh	00·8	+18	N'E	1	pso	31	92	29	5	5	-	-	10	10	1000	8	
Blacksod Point	09·3	+6	NNW	1	ido	43	92	46	8	6	2	-	4-6	10	1500	1	2
Malin Head	09·5	+6	N'W	3	c	40	65	29	8	5	2	-	7-8	10	2500	1	3
Aldergrove	10·4	+10	NNW	1	c/d	37	75	30	8	5	-	-	10	10	4500	1	•
*Birr Castle	08·8	0	W	2	ir	48	97	48	7	6	2	-	7-8	10	800	1	•
Valentia Obsy.	13·7	+6	WNW	4	c	51	85	47	8	8	-	-	9+	9+	1500	1	4
Roches Point	12·0	+6	W	3	c-bc	48	85	44	8	3	3	-	4-6	7-8	2500	1	3

PAST 24 HOURS. — WEATHER.

Stations	7h.—13h. 1st (39)	13h.—18h. 1st (40)	18h. 1st to 1h. 2nd (41)	1h.—7h. 2nd (42)
London (Kew)	bomoczo	czoiromo	iroc roro r	crrocmo
Croydon	cmbczcz	czoirom	crorom omoiro	cmorrcmoc
S. Farnborough	cbocbcr	ciromo	ciro rr RR mo	cRR ido mo
Boscombe Down	bcmo ccbc	czo	cmodoroc	crrmo cmo
Thorney Island	bccmo	cmo	cmo ido	dorrcmo
Lympne	cmo bcc	cciro	cmoiro ido	circmo
Manston	cbcc	airo	crorom orr	cmorrcmo
Shoeburyness	bcmocmiro	crrrmo	crrmo	cmo
Felixstowe	iro roromo	ciroororom	crorom crocm	roro bmox
Gorleston	broc	cprc	oroc	bbcx
Mildenhall	ccm airo	ccroro m	crorosoSomo	cbcbmox
Cranwell	cmo iro	cmoirocmo	cbcbmo	bmox
Birmingham	cpro	corro	ororoc	cbmo
Upper Heyford	bcmocmoc	crororomo	crorromo	rorocbmo
Ross-on-Wye	bcc	c	rcrr	roemrocmbf
Hartland Point	c	bcc	cbcc	cbccpro
Bristol	cmoc	c	crorompcirm	crorom cmdmc
Portland Bill	c	c	c	co
Plymouth	bcprmo	bcpro	bmo bcmo	cidomo
The Lizard	cbc	cbcc	cprbc	cprbc
Scilly (St. Mary's)	cpcbc	bcc	cbc	bccb
Guernsey				
Pembroke	bcq iroc	cproq	cproqoro	iroc
Holyhead (Valley)	ciro pr	croro prof	crorom o	ororomoc
Chester (Sealand)	ciroTro	tototzo	rorozoc	czob
Manchester	rrRR	cmopzo	zoiro	bmx
Spurn Head	cpr	c	bc	b
Catterick	crorocmo	cmobc	bcbzox	bzoxbx
Tynemouth	coirc	cbc	bcb	b
St. Abbs Head	orrcbc	bbcc	cb	b
Leuchars	cpsocbcb	bbccbc	bbc	b
Renfrew (Abbots I.)	cmo cbc	bcc	bcbmo	bmobx
Eskdalemuir	crooso	cbbcc	cbcb	bx
Point of Ayre	bproc	c	cbcb	bbc
Tiree	c	c	psbcpshb	bsjpps
Stornoway	bccp3bc	cmccphops	cbeps.	bepsobc
Dalwhinnie	cbc	bc		bcc
Aberdeen	bcpsob	bbcpsbc	bcpsbcb	bbc
Wick	cposh	cposcposh.	bc	cpsoc
Sumburgh	cisopsh	cpsopsps	ciso So So	cmo So So pSo
Blacksod Point	d	d	bc	c
Malin Head	r	r	c	pr
Aldergrove	ciroororoc	cidoc	cbcb	bbccb
*Birr Castle	r	r		r
Valentia Obsy.	c	pr	pr	bc
Roches Point	bc	bc	bc	bc

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

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands	Light variable winds, fine, much haze in industrial areas, thickening to fog at night, cold with hard frost at night in many places.
5 S.W. England	Light or moderate variable winds, cloudy with slight local rain; rather cold.
6 South Wales, 7 North Wales, 8 N.W. England, 9 N. Midlands	As 1-4.
10 N.E. England, 11 S.E. Scotland	Moderate northwest to light variable winds; mainly fair with considerable bright periods, but some local coastal snow showers at first; cold with hard frost in many places at night.
12 S.W. Scotland & Isle of Man, 13A W. Scotland	As 1-4
13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland	As 10-11
16 Orkneys and Shetlands	As 10-11
17 N.W. Ireland, 18 N.E. Ireland, 19 S.E. Ireland	Light variable to southerly winds, mainly cloudy, some slight rain later, rather cold or cold.
20 S.W. Ireland	As 5

GENERAL INFERENCE

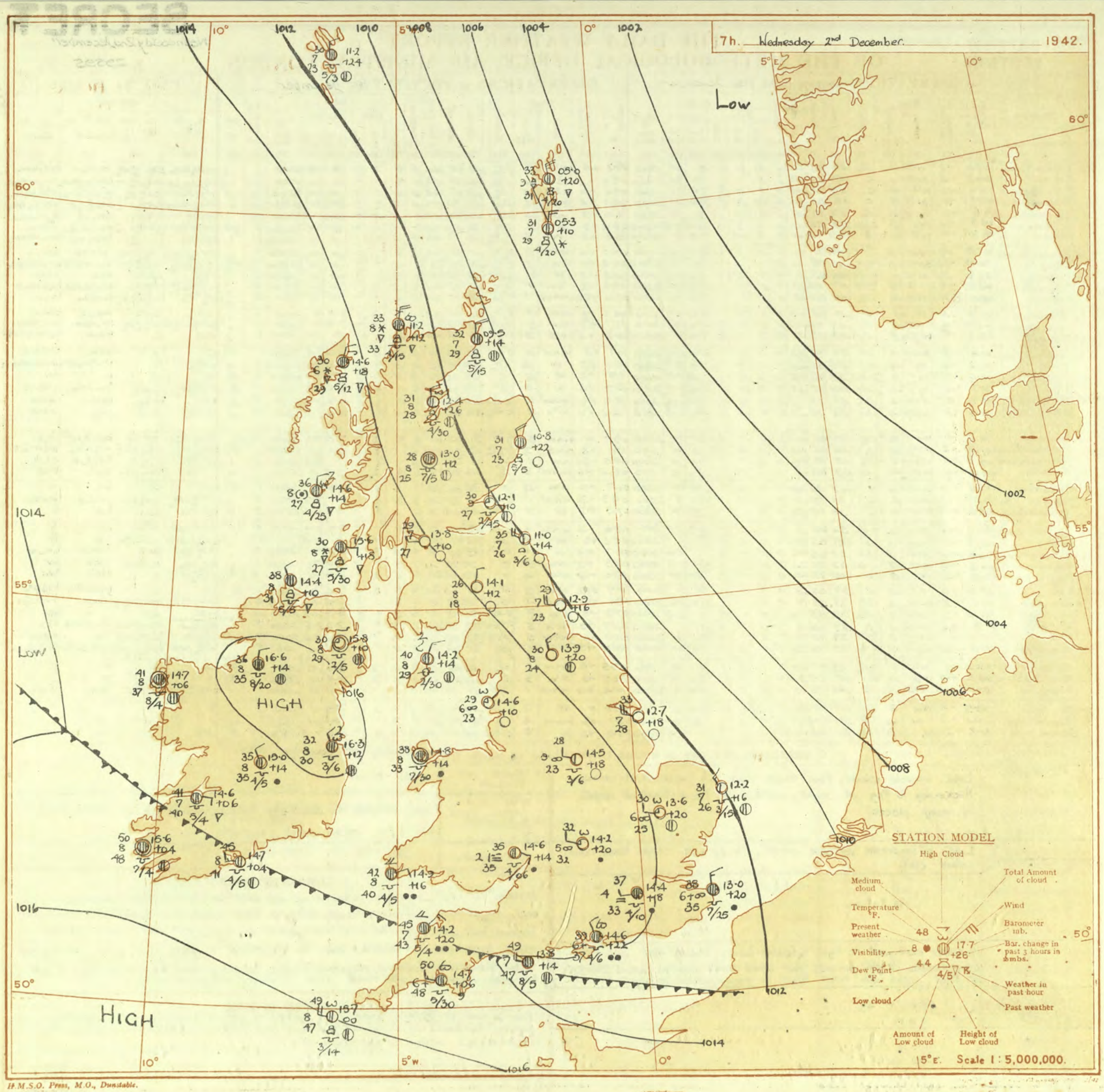
A ridge of high pressure is building up over the British Isles and moving east. An almost stationary trough extends from Southwest England to Southwest Ireland, but will begin to move northwards in the west later. There will be slight local rain in Ireland and in Southwest England, and some local coastal snow showers in Scotland; elsewhere it will be fair or fine, apart from local fog; it will be cold generally with hard frost in many places at night.

FURTHER OUTLOOK

Fair in east of Britain; some rain spreading northward in the west, probably turning to snow in Northwest England and Scotland; continuing cold in most districts, but milder in the southwest.

Forecasts issued at 10·30.

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



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

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

Explanation of Frontal Lines shown on Charts

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

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

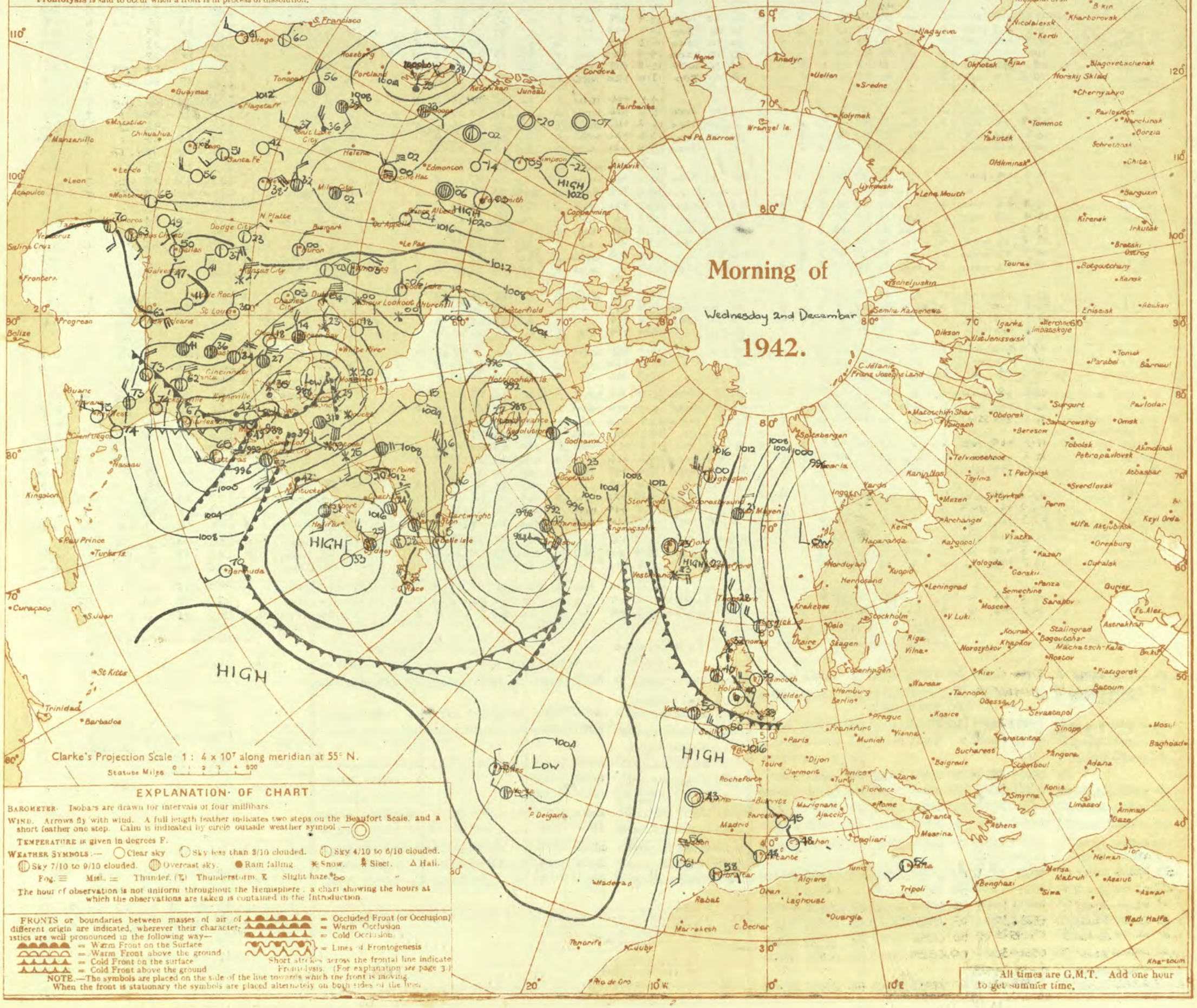
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

Page 4.

BRITISH SECTION

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

Wednesday 2nd December 1942

No. 29595

OBSERVATIONS at 1 hr. G.M.T. 2nd December | OBSERVATIONS at 7 hr. G.M.T. 2nd December | PAST 24 HOURS.

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Med. (11)	High (12)	Amount Low 0–10 (13)	Total 0–10 (14)	Height of Base (feet) (15)	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Med. (26)	High (27)	Amount Low 0–10 (28)	Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 1st Hrs. (38)
1	London (Kew)	18	*	*	*	*	*	40	*	*	*	*	*	*	*	*	*	14.6	+22	NW'N	1	z0	38	85	33	6	5	3	-	7-8	7-8	2500	1	*	49	37	34	Tr	4	3.2
	Croydon	290	11.6	+18	NW	3	rr	39	92	37	5	5	-	-	10	10	1500	14.4	+18	W'S	1	m	37	85	33	4	5	-	-	4-6	9+	1000	1	*	49	38	33	0.4	6	3.4
	S. Farnborough	226	11.6	+18	NNW	2	RR	40	97	39	6	6	-	-	10	10	800	14.5	+20	-	0	c	37	92	36	6	5	-	-	9+	9+	3500	1	*	51	37	35	-	3	4.3
	Boscombe Down	417	11.9	+18	N	4	r0r0	41	97	40	6	5	-	-	10	10	1000	15.3	+18		0	z0	37	97	35	6	5	3	-	4-6	9	3000	1	*	50	37	33	-	5	3.1
	Thorney Island	10	10.2	0	W	4	ir0	49	85	46	6	-	2	-	10	10	2200	14.6	+22	NW	1	c/r	39	92	37	6	5	7	-	4-6	9+	4000	1	*	51	39	37	-	2	
	Lympne	283	09.5	+12	NW	2	ir0	41	97	41	6	5	-	-	10	10	1000	12.8	+18	W	2	z0	36	85	33	6	5	-	-	9+	9+	5000	1	3 §	50	36	34	Tr	4	4.3
	Manston	154	09.8	+10	N'W	3	rr	41	97	40	6	5	-	-	9+	10	900	13.0	+20	NNW	2	z0	38	92	35	6	5	-	-	9+	9+	2500	1	*	50	37	36	0.2	4	2.4
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.1	+14	NNW	3	z0	35	92	33	5	5	-	-	9	9	4000	1	*	49	34	29	0.5	4	2.1
	Felixstowe	12	09.5	+12	NW	3	r0r0	38	97	36	5	-	2	-	10	10	2000	13.6	+16	WNW	2	z	34	85	30	5	-	7	-	0	2-3	-	1	2	47	33	30	1	4	0.1
	Gorleston	5	08.8	+8	NW	2	z0	37	85	31	6	5	-	-	10	10	1500	12.2	+16	NW'W	3	b-bc	31	85	26	7	5	-	-	2-3	2-3	1500	5	3	46	30	26	2	1	0.0
	Mildenhall	15	10.2	+14	W'S	2	c/s	35	92	33	6	5	-	-	10	10	3000	13.6	+20	WNW	2	z0	30	85	25	6	-	3	-	0	Tr	-	1	*	48	29	24	1	4	0.0
	Cranwell	203	10.5	+14	NW'N	2	z0	33	65	26	5	5	-	-	1	1	3000	14.0	+20	W'N	2	z0	28	85	23	5	-	3	-	0	Tr	-	3	*	46	26	16	Tr	-	0.4
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.8	+14	NNW	3	m	33	75	26	4	-	-	-	0	0	-	1	*	47	32	25	1	1	0.0
	Upper Heyford	408	11.2	+14	NW	3	r0r0	35	97	34	5	5	-	-	10	10	4800	14.2	+20	WNW	2	z0	32	97	32	5	-	3	-	0	1	-	1	*	48	32	28	2	3	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.6	+14	ESE	1	bcf+	35	97	35	2	5	-	-	4-6	4-6	600	1	*	49	35	29	Tr	5	0.5
5	Hartland Point	299	11.8	+4	NW	4	b-bc	50	85	46	8	1	-	-	2-3	2-3	2500	14.2	+20	NE	3	c/r	45	92	43	7	5	2	-	7-8	10	1500	1	4	50	45	43	-	1	1.2
	Bristol	209	12.4	+18	NNE	3	r0r0	39	97	39	4	6	2	-	9	10	1000	15.2	+6	-	0	z0	37	97	37	6	5	7	-	2-3	7-8	4000	1	*	51	37	34	-	6	1.3
	Portland Bill	32	12.2	+6	W	5	c-bc	47	85	43	7	5	-	-	7-8	7-8	4000	13.8	+14	W	4	o	49	92	47	7	5	-	-	10	10	2500	1	4	50	46	*	-	-	*
	Plymouth	82	13.8	+6	WNW	4	z0	49	92	46	6	8	-	-	2-3	2-3	2500	14.7	+6	W	3	id0	50	92	48	6	5	7	-	7-8	7-8	3000	1	2	52	47	43	Tr	Tr	4.2
	The Lizard	240	14.9	+6	WNW	5	bc	51	85	45	8	8	-	-	4-6	4-6	1500	15.9	+4	WNW	5	bc	50	92	48	8	8	6	-	4-6	4-6	1500	1	4	52	49	*	-	1	6.3
	Scilly (St. Mary's)	163	15.3	+6	WNW	5	b-bc	50	85	45	8	8	4	-	1	2-3	1500	15.7	0	W'N	5	bc	49	85	47	8	8	3	-	2-3	4-6	1400	1	4	54	49	*	Tr	*	6.6
	Guernsey	175																																						
6	Pembroke	142	13.0	+10	ENE	1	r0r0	44	97	42	8	8	2	-	7-8	10	2500	14.9	+16	ENE	2	c/r	42	92	40	8	5	3	-	4-6	9	2500	1	3	51	39		0.1	1	1.1
7	Holyhead (Valley)	32	12.2	-10	-	0	r0r0	40	92	38	6	-	2	-	10	10	2000	14.8	+14	-	0	c	38	85	33	8	5	-	-	9+	9+	3000	1	1	49	37	35	2	3	*
	Chester (Sealand)	16	11.7	+14	NW	2	c	39	75	31	6	5	2	-	7-8	10	2500	14.5	+14	-	0	b	29	65	19	6	-	-	1	0	Tr	-	3	*	49	29	22	5	1	1.4
8	Manchester	235	11.6	+10	NW	2	z0	30	85	26	5	-	-	-	0	0	-	14.4	+14	S'E	2	m	26	92	23	4	-	-	1	0	4-6	-	3	*	47	23	14	5	¬	*
10	Spurn Head	29	09.4	+10	NW'W	5	b	36	65	23	7	-	-	-	0	0	-	12.7	+18	WNW	5	b	33	75	28	7	-	-	-	0	0	-	3	4	46	30	*	3	*	0.0
	Catterick	175	11.1	+12	NW	3	z0	30	75	22	6	-	-	-	0	0	-	13.9	+20	NW	3	b	30	75	24	8	-	-	-	0	0	-	1	*	45	29	22	0.4	-	0.0
	Tynemouth	108	10.0	+8	W	4	b	30	65	19	6	-	-	-	0	0	-	12.9	+16	W	4	b	29	75	23	7	-	-	-	0	0	-	3	3	44	28	26	0.4	*	*
11	St. Abbs Head	280	08.7	+8	WNW	4	b	34	85	25	7	5	-	-	1	1	4000	11.0	+14	WNW	4	b.bc	35	75	26	7	1	-	*	2-3	2-3	4000	0	5	37	32		0.5	-	
	Leuchars	36	10.1	+16	W	2	b-bc	31	85	28	9	5	-	-	2-3	2-3	5000	12.1	+10	NNW	2	b	30	85	27	9	5	-	-	1	1	4500	4	*	37	26	17	Tr	-	5.5
12	Renfrew (Abbots I.)	19	11.4	+10	SSW	1	z0	30	85	25	6	5	-	-	Tr	Tr	2000	13.8	+10	W'S	1	b	29	92	27	7	-	-	-	0	0	-	1	*	42	26	19	-	-	2.7
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14.1	+12	N'W	1	b	26	75	18	8	-	-	-	0	0	-	3	*	43	24	14	Tr	-	1.3
	Point of Ayre	30	11.9	+14	N'E	3	b	37	65	27	8	*	*	*	0	0	-	14.2	+14	NNE	3	bc	40	65	29	8	4	4	6	1	4-6	3000	0	3	48	37	*	Tr	-	0.0
13A	Tiree	44	12.4	+10	N'W	4	bcjp	37	75	29	9	3	-	3	2-3	4-6	2000	14.6	+14	N'W	2	c-bcjp	36	65	27	8	2	6	6	4-6	7-8	2500	4		39	34		Tr	0.2	0.4
13B	Stornoway	15	11.9	+14	NW	3	ps	32	92	30	8	8	-	-	4-6	4-6	2000	14.6	+18	N	2	ps	30	97	29	6	3	-	3	7-8	9	1200	8		37	26	27	0.3	0.1	2.9
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13.0	+12	-	0	c	28	85	25	8	5	-	-	9+	9+	2500	4		30	25	19	-	-	1.9
	Aberdeen †	79	07.6	+14	W'N	4	b	29	85	27	8	5	4	-	1	1	2500	10.8	+22	NW	4	c-bc	31	75	23	7	3	-	-	7-8	7-8	2500	7	3	33	29	24	1	0.2	4.5
	Wick	114	06.2	+6	NW'N	4	b-bc	31	85	28	8	8	-	-	2-3	2-3	1500	09.5	+14	NNW	4	c-bc	32	85	29	7	8	-	-	7-8	7-8	1500	7	*	37	29	27	6	1	*
16	Sumburgh	19	03.3	+12	N	6	SoS0	30	97	28	6	-	2	-	10	10	1000	05.3	+10	N'E	4	bc	31	92	29	7	3	-	-	4-6	4-6	2000	8	4	38	30		2	6	0.8
17	Blacksod Point	18	13.6	+14	E'S	3	bc	43	85	39	8	5	-	-	4-6	4-6	1500	14.7	+6	-	0	c	41	85	37	8	5	-	-	10	10	1500	1	1	50	40	*	3	3	
18	Malin Head	84	12.3	+10	N	2	c-bc	40	55	26	8	5	-	-	7-8	7-8	2500	14.4	+10	NW	2	c-bc	38	75	31	8	8	-	-	7-8	7-8	2500	1	4	43	37		0.3	0.1	0.0
	Aldergrove	268	13.5	+14	-	0	b	33	92	30	7	-	-	-	0	0	-	15.8	+10	-	0	b	30	97	29	8	5	-	1	1	1	2500	1	*	45	30	22	1	Tr	0.0
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	15.0	+14	NW	2	bc	35	97	35	8	5	-	-	4-6	4-6	2500	1	*	45	35	22	1	0.6	0.0
20	Valentia Obsy.	30	15.2	+4	W	2	c-bc	50	92	48	9	2	-	1	4-6	7-8	1500	15.6	+4	-	0	c	50	92	48	8	5	-	-	9+	9+	1500	1		52	48	43	Tr	Tr	1.9
	Roches Point	22	14.1	+8	W	4	bc	47	85	43	8	5	-	-	4-6	4-6	2500	14.7	+4	W'	3	bc	45	85	41	8	5	-	-	4-6	4-6	2500	1	3	52	45	*	-	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

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

III	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN
109	36	27755	63785	3-	27766	61686	30	26853	60583	3-	01744	61684
115	37	88844	65586	37	00044	65586	37	10844	37586	87	83844	65586
203							80	83845	28685			
206	24	01953	60613	26	01804	26324	20	26863	30263	83	02864	30214
210	86	02855	25415	2-	01743	60483	2-	27745	26485	23	01853	24313
220	53	01854	29115							30	01644	02374
230				51	01864	28224	80	01862	30312	53	01861	30211
245	30	01951	63584	44	01961	27313	54	01961	24201	84	01952	28402
260	04	01890	61813	04	02790	28225	00	05590	28100	07	05590	20213
278	53	02964	29487	57	02954	28527	50	01853	30213	14	01752	26213
279	24	02944	31165	50	01864	30314	00	00890	28110	50	01761	00001
285	23	02854	30477	53	01744	30415						
28[illegible]	57	22655	29367	07	05590	23328	00	01790	20220	00	05690	19300
575	52	02957	30427	5-	52744	02268	50	01851	00001	5-	02858	32128
301	87	02766	30427	52	05542	30428	00	00790	12100	03	05690	04102
321	53	2654	30465	50	05654	32154	03	05690	26222	00	05590	242
290	5-	03748	26568	5-	05645	26415	50	01752	26312	20	01753	26203
292	62	05656	30467	53	05664	30126	00	05690	26100	00	00890	27100
310	--	02628	24568	--	0.638	24428						
614	53	22555	24367	5-	61498	02128	5-	08453	28143	50	05563	26103

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

III	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN	$C_L C_M$	$wwVhN_h$	DDFWN
333	52	62644	25468	57	22755	02368	51	61654	00068	57	02854	00066
334	--	64647	28368									
340	52	64743	26368	52	62653	30368	51	02665	28227	04	00590	00012
136	57	05665	22527	57	62855	28368	50	05665	27265	04	05690	26212
336	62	64526	28568									
350	5-	61657	26467	5-	62658	24268	07	22590	26267	54	05651	00012
368	83	02845	57417	83	61745	57467				5-	02648	28168
379	57	02752	2827	62	62626	24368				54	05654	32324
390	52	61557	28326	5-	62458	24368	5-	62458	28268	53	08461	28262
388	57	02753	25425	57	61675	23467	02	64648	00068	07	05690	00024
438	58	01762	22513	5-	02757	22527	5-	52538	04358	5-	02647	31227
430	5-	05656	20316	5-	22656	24467	5-	62548	22268	5-	05656	00026
40[illegible]	8-	02957	26427	5-	01854	25524	5-	02745	23515	23	02755	26427

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 December
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 *	bomoczo	czoir0m0	ir0cr0m0	Kew 24 hours ended 7h. Max. Time
Croydon	cmdbczobz	czoir0m	cbf0cmd	
Greenwich	bc	cid	idrrcbc	
Camden Square	b	c	*	
Kensington	bcc	bcdr	*	Min. Time
Hampstead	bc	or	bc	

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	49	37	34	Tr	4	3.2	*	*
Croydon	49	38	33	0.4	6	3.4	*	*
Greenwich	49	34	28	0.3	3.3	3.0	70	81
Westminster	50	34	30	4			77	88
Regents Park	50	33	28	-	1		71	84
Camden Square	49	34	29	0.5	3	*	*	83
Kensington	51	35	27	Tr	4		78	83
Hampstead	48	31	27	Tr	3		*	91

1r

SECRET

Page 1 BRITISH SECTION

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

Thursday 3rd December 1942

No. 29596

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	17·3	+4	NW	2	z0	36	55	25	6	-	4	6	0	9	-
	Croydon	17·5	+4	NW	2	m	27	92	21	4	-	-	6	0	10	-
	S. Farnborough	17·6	+6	NW'N	2	z0	33	92	30	[illegible]	-	7	7	0	10	-
	Boscombe Down	17·8	+6	N'W	3	c	41	75	33	8	0	7	-	2-3	10	4000
	Thorney Island	17·3	+6	NNW	1	c	42	65	31	7	-	-	8	0	9	-
	Lympne	16·9	+2	NW	2	z0	36	75	27	6	-	-	7	0	10	-
	Manston	16·6	+10	NW	3	c-bc	37	65	26	8	-	-	8	0	7-8	-
2	Shoeburyness	17·2	+8	NNW	2	c-bc	37	75	29	6	-	-	6	0	7-9	-
	Felixstowe	16·2	+2	W'N	3	z0	38	55	24	6	-	-	2	0	4-6	-
	Gorleston	15·2	+8	NW'N	2	bc	40	55	28	7	2	-	5	2-3	4-6	2200
	Mildenhall	16·6	+12	W'N	3	z0	36	75	28	6	-	-	6	0	4-6	-
	Cranwell	16·3	+6	W'N	2	m	37	65	27	4	-	-	1	0	1	-
3	Birmingham	17·7	+2	W	2	z0	37	55	23	5	-	5	2	0	4-6	-
	Upper Heyford	17·2	+2	NW	1	z0	35	85	29	5	-	3	8	0	7-8	-
4	Ross-on-Wye	17·5	+4	E	2	c	39	85	35	7	7	7	2	4-6	9	2500
5	Hartland Point	16·1	+2	NE	2	c	46	75	39	8	5	-	-	9+	9+	2500
	Bristol	18·1	+4	-	0	m	41	85	37	4	5	2	-	7-8	10	2500
	Portland Bill	17·6	+12	NW	4	c	43	75	36	8	5	-	-	10	10	4000
	Plymouth	16·9	+4	SW	2	z0	54	85	48	6	8	3	-	7-8	9	2000
	The Lizard	17·3	+6	WNW	4	c-bc	52	85	49	8	8	6	-	7-8	7-8	2000
	Scilly (St. Mary's)	17·4	+2	WNW	3	bc	55	85	49	8	8	4	-	2-3	4-6	1200
	Guernsey															
6	Pembroke	17·5	+8	SE	3	c	44	85	37	7	5	-	-	10	10	2000
7	Holyhead (Valley)	17·0	+2	-	0	c/jp	44	65	34	8	5	4	1	7-8	9	3000
	Chester (Sealand)	16·9	+6	-	0	c-bc	40	65	30	7	5	4	9	4-6	7-8	4000
8	Manchester	17·5	+4	S'E	2	m	35	75	27	4	-	-	1	0	4-6	-
10	Spurn Head	15·3	-6	NW'N	5	b-bc	37	65	25	7	2	3	-	2-3	2-3	4000
	Catterick	16·5	+8	W	2	b	37	65	33	6	-	-	-	0	0	-
	Tynemouth	15·9	+14	W	3	b-bc	35	65	24	6	2	-	-	2-3	2-3	2500
11	St. Abbs Head	14·4	+16	WNW	4	b	36	75	27	7	1	-	-	1	1	3000
	Leuchars	15·0	+14	W'N	3	b	38	65	26	8	5	-	-	Tr	Tr	3000
12	Renfrew (Abbots I.)	16·4	+8	-	0	b-bc	40	55	27	8	1	-	8	1	2-3	3000
	Eskdalemuir	16·2	+4	W'N	2	b	35	75	28	8	-	4	1	0	Tr	-
	Point of Ayre	17·[illegible]	+10	N'E	2	b-bc	40	65	27	8	1	-	5	2-3	2-3	4000
13A	Tiree	16·6	+4	E	1	cbcjp	40	75	33	9	8	6	6	4-6	7-8	2500
13B	Stornoway	16·0	-2	WNW	2	c-bc	34	85	29	8	2	6	2	4-6	7-8	3000
15	Dalwhinnie	15·6	+6	N	2	c	32	85	29	9	9	-	-	-	9	2500
	Aberdeen	13·8	+12	NW	3	bcps	34	75	26	9	8	-	-	2-3	2-3	2500
	Wick	13·2	+26	NW	4	c-bc	34	75	28	9	8	-	7	4-6	7-8	2500
16	Sumburgh	09·9	+22	NNW	4	ps0	32	65	25	6	9	-	-	9+	9+	1000
17	Blacksod Point	15·0	-6	SE'E	4	r0r0	42	85	38	7	-	2	-	10	10	2500
18	Malin Head	16·1	0	SSW	2	bc	40	75	34	8	8	-	-	4-6	4-6	2500
	Aldergrove	17·5	+2	S	1	c-bc	40	75	34	6	8	-	9	1	7-8	400
19	*Birr Castle	16·4	0	SSE	1	ir0	41	85	37	7	5	-	-	10	10	1500
20	Valentia Obsy.	16·5	0	SW'W	3	bc	52	85	48	8	2	-	-	4-6	4-6	1500
	Roches Point	16·6	+2	-	0	c-bc	51	85	47	8	5	3	-	4-6	7-8	2500

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

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)	19·0	+12	SSW	1	bf	33	85	28	3	-	-	-	0	0	-	1	•
Croydon	19·9	+14	WSW	1	c-mf	31	85	29	3	-	-	2	0	7-8	-	1	•
S. Farnborough	19·4	+8	W	1	z0	32	85	28	6	-	4	1	0	4-6	-	1	•
Boscombe Down	19·0	+4	NE	1	z0	37	75	28	6	5	-	-	4-6	4-6	6000	0	•
Thorney Island	11·9	+14	N'E	1	z0	35	75	29	6	-	5	-	0	4-6	-	1	•
Lympne	19·1	+6	NW	1	m	29	92	27	4	-	-	-	0	0	-	1	§/
Manston	18·5	+10	NW'W	1	z0	32	85	29	6	-	-	6	0	7-8	-	1	•
Shoeburyness	19·4	+14	NNW	1	m	30	85	27	4	-	-	6	0	4-6	-	0	•
Felixstowe	17·9	+10	W'N	2	z0	34	75	28	6	-	7	-	0	Tr	-	0	1
Gorleston	17·2	+16	WNW	2	m	33	75	28	6	-	4	-	0	2-3	-	3	3
Mildenhall	18·4	+14	WSW	3	m	30	*	*	4	-	-	-	0	0	-	1	•
Cranwell	18·1	+18	W'N	2	bf+	31	85	28	2	-	4	-	0	Tr	-	3	•
Birmingham	18·9	+10	WSW	1	bf+	32	85	28	3	-	-	1	0	1	-	1	•
Upper Heyford	18·7	+6	-	0	z0	31	85	28	6	-	-	1	0	4-6	-	1	•
Ross-on-Wye	18·5	+8	SE	1	c	37	85	33	6	5	7	-	7-8	9+	2500	1	•
Hartland Point	16·5	+4	SE	3	c	44	97	44	7	5	2	-	7-8	9+	2500	1	5
Bristol	19·2	+4	-	0	z0	39	85	36	5	5	2	-	4-6	10	4700	1	•
Portland Bill	18·7	+8	E	2	b	42	85	37	7	5	-	-	10	10	2500	1	4
Plymouth	17·7	+6	SSE	3	r0r0	45	97	45	5	5	2	-	7-8	10	2000	1	2
The Lizard	17·4	0	NW	3	c-bc	50	85	46	8	8	6	-	7-8	7-8	2000	0	3
Scilly (St. Mary's)	17·5	+4	W'N	2	bc	49	85	46	8	8	4	4	2-3	4-6	1400	1	3
Guernsey																	
Pembroke	17·4	0	SE	3	c	45	85	41	7	8	2	-	7-8	9+	2500	0	2
Holyhead (Valley)	17·6	+6	E	1	c	36	85	33	8	5	-	-	10	10	3800	1	1
Chester (Sealand)	18·2	+10	-	0	z0	31	92	29	4	5	-	-	1	1	5700	3	•
Manchester	18·7	+10	SSE	2	bf+	33	75	27	2	-	-	-	0	0	-	3	•
Spurn Head	17·3	+10	NW	4	z0	36	75	27	6	-	-	-	0	0	-	0	4
Catterick	18·4	+6	W'N	1	m	30	85	25	4	-	4	-	0	Tr	-	0	•
Tynemouth	17·7	+4	W	3	z0	32	85	29	5	2	-	-	2-3	2-3	2500	3	3
St. Abbs Head	15·6	+2	NW	3	bc	37	92	33	7	5	-	-	4-6	4-6	4000	0	3
Leuchars	16·5	-8	WNW	2	bc	32	75	25	9	-	4	8	0	4-6	-	1	•
Renfrew (Abbots I.)	17·6	+10	-	0	z0	30	85	28	6	5	3	2	2-3	4-6	3000	3	•
Eskdalemuir	16·5	+12	-	0	b	28	85	19	8	5	-	-	Tr	Tr	3800	3	•
Point of Ayre	17·4	+4	NE	1	b	39	65	28	8	4	4	-	Tr	1	3000	0	2
Tiree	17·0	+2	E'N	1	c	37	75	31	9	7	7	-	4-6	9	2500	1	1
Stornoway	17·3	+10	WSW	4	c	34	85	30	8	8	-	-	9+	9+	2500	7	*
Dalwhinnie	17·2	+6	S	1	b-bc	22	85	17	8	5	-	-	2-3	2-3	2500	4	•
Aberdeen	15·8	+10	WNW	3	b	31	75	24	6	8	-	8	Tr	1	2500	7	2
Wick	14·8	+8	WNW		c-bc	29	92	26	8	8	-	-	7-8	7-8	2500	7	•
Sumburgh	12·0	+14	N	2	bc	32	92	30	8	2	6	-	4-6	4-6	2000	8	3
Blacksod Point	13·6	-4	SE	3	c	46	92	44	8	6	-	-	9	9	1500	1	3
Malin Head	16·4	+2	S'E	3	c-bc	37	75	31	8	8	-	-	7-8	7-8	2500	1	3
Aldergrove	17·8	+8	-	0	z0	34	85	31	6	5	-	-	10	10	3000	1	•
*Birr Castle	15·0	-6	SSE	2	ir0	41	92	39	7	5	-	-	10	10	1500	1	*
Valentia Obsy.	16·0	0	S'W	3	c/pr	50	92	48	8	5	-	-	10	10	1500	1	3
Roches Point	15·9	0	ESE	3	bc	45	92	43	8	5	3	-	2-3	4-6	2500	1	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 2nd (39)	Weather 13h.—18h. 2nd (40)	Weather 18h 2nd to 1h. 3rd (41)	Weather 1h.—7h. 3rd (42)
London (Kew)	bxcz0	cbcbfx	bfofx	bfofx
Croydon	cmzcm	cmcf	f	bcfcf
S. Farnborough	bcmcm0	cz0bcm0	bcmbmbcfp	ofofzbmcm
Boscombe Down	cm0c	ccm0	bccm0	cm0cd0d0cm0
Thorney Island	cbcm0c	bcbcm0	bccm0	ois0id0cm0
Lympne	bm0cz0⊕	cz bmx	mbcffx	
Manston	cm0cy⊕	cz0m0	cm0bmff	cfx
Shoeburyness	bcm0cm0⊕	cz0bcm	bcm0	cfbcm0x
Felixstowe	bm0bcm0	bcz0ybz0	bm0	bcm0cmx
Gorleston	bcbbcy	bcz0x	bczmx	bcz0x
Mildenhall	bm0bcm0	bcm bmx	bcmbmx	b,cmx
Cranwell	bm0xbm	bm0bf	bcffx	bc,cfx
Birmingham	bmbcz	bczbf	bm0	bcm
Upper Heyford	cm0	cm0	bcm0cm0x	cm0xcm
Ross-on-Wye	cfr0c	c	c	cpoc
Hartland Point	cr0	cid0	cr0c	bc
Bristol	cm0	cm0	cm0c(s	cm0r0s0cwmd0
Portland Bill	c	0	0	c
Plymouth	cid0ir0	cpr0r0rm0	cr0r0m0cm	cbbcm0
The Lizard	bcc	bccbb	bcpr	bc
Scilly (St. Mary's)	bccb	cbcc	bcw	bcw
Guernsey				
Pembroke	c	c	cd0d0	cir0
Holyhead (Valley)	cir0c	bc	r0r0cir0m0	cr0r0c
Chester (Sealand)	bz0cbc	bcm0	b,cm	c
Manchester	bcmcmx	bcmfbfx	bcffx	cffmx
Spurn Head	bc	bb0	bcm0	bm0
Catterick	b	b	bmx bcmx	bcmjfs
Tynemouth	bbc	bcm0	bc	bcc
St. Abbs Head	bm0	bbc	bcbm0	bc
Leuchars	bbcb	bbcbc	bc	bc
Renfrew (Abbots I.)	bxy	bcbbcm0x	bf	bfx
Eskdalemuir	bxby	bvb	bx	bbccx
Point of Ayre	bbcb	c	bbcc	cir0c
Tiree	pshjp	jpbcc	cir0c	cir0c
Stornoway	cbccps0bc	cjpcps0c	cbc	bccps0c
Dalwhinnie	c	cbc		bcb
Aberdeen	bcpsbcjp	cpsbcbz0	bz0	bz0b
Wick	bcps0c	c	cbcpsbc	cps0bc
Sumburgh	bcps0	cps0s0bc	cps0	cpsbps0bc
Blacksod Point	↑	c	c	bc
Malin Head	c	c	c	c
Aldergrove	cxbcx	bcxcx	cm0	cidom
*Birr Castle	↑	↑	•	f
Valentia Obsy.	c	pr	r	r
Roches Point	bc	bc	f	d

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 3rd December 1942.

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Light variable wind; dull, occasional slight rain in west of area; fog in many places tonight and tomorrow; cold today, slight frost locally tonight.
5 S.W. England; 6 South Wales	Light southeast wind, variable cloud; mild.
7 North Wales; 8 N.W. England	Light variable wind, dull occasional rain; fog in places tonight and tomorrow, rather cold
9 N. Midlands; 10 N.E. England; 11 S.E. Scotland	As 1-4.
12 S.W. Scotland & Isle of Man	As 7-8.
13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland	Light south to southwest wind, variable cloud, occasional slight rain; rather cold during day slight frost tonight.
15 N.E. Scotland	Light or moderate northwest wind becoming northeast; cloudy
16 Orkneys and Shetlands	Some snow at first, wintry showers later; cold; frost at night.
17 N. W. Ireland	As 5-6
18 N. E. Ireland	As 7-8
19 S. E. Ireland; 20 S. W. Ireland	As 6

GENERAL INFERENCE

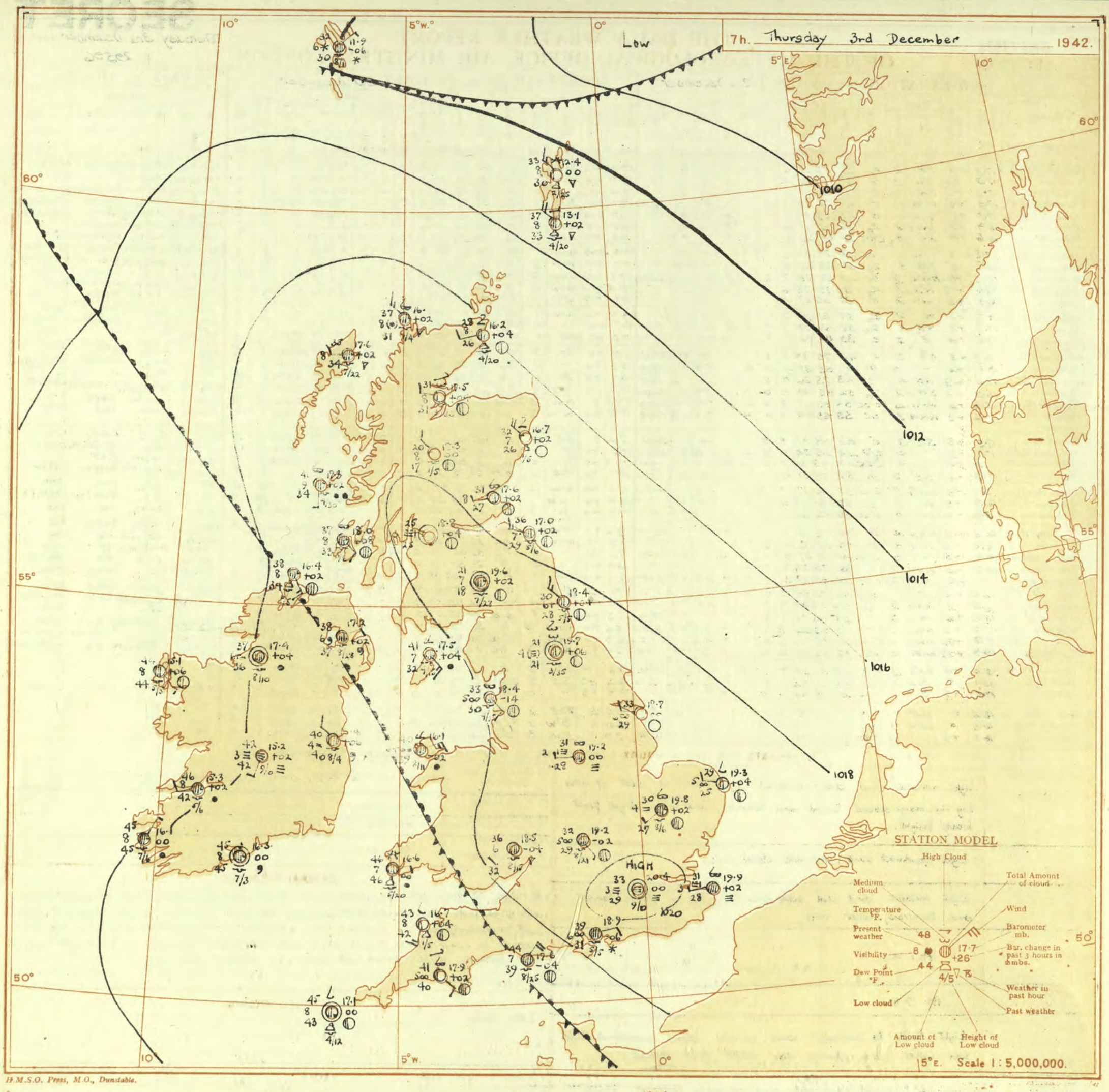
A ridge of high pressure covers Eastern Britain, and a feeble trough of low pressure with slight local rain almost stationary over the Irish Sea and Southern England, weather will be mainly dull in England and Scotland, with poor visibility, and fog will occur in many areas tonight, there will be bright intervals in Southwest England and Ireland; slight snow will occur in Northeast Scotland.

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).

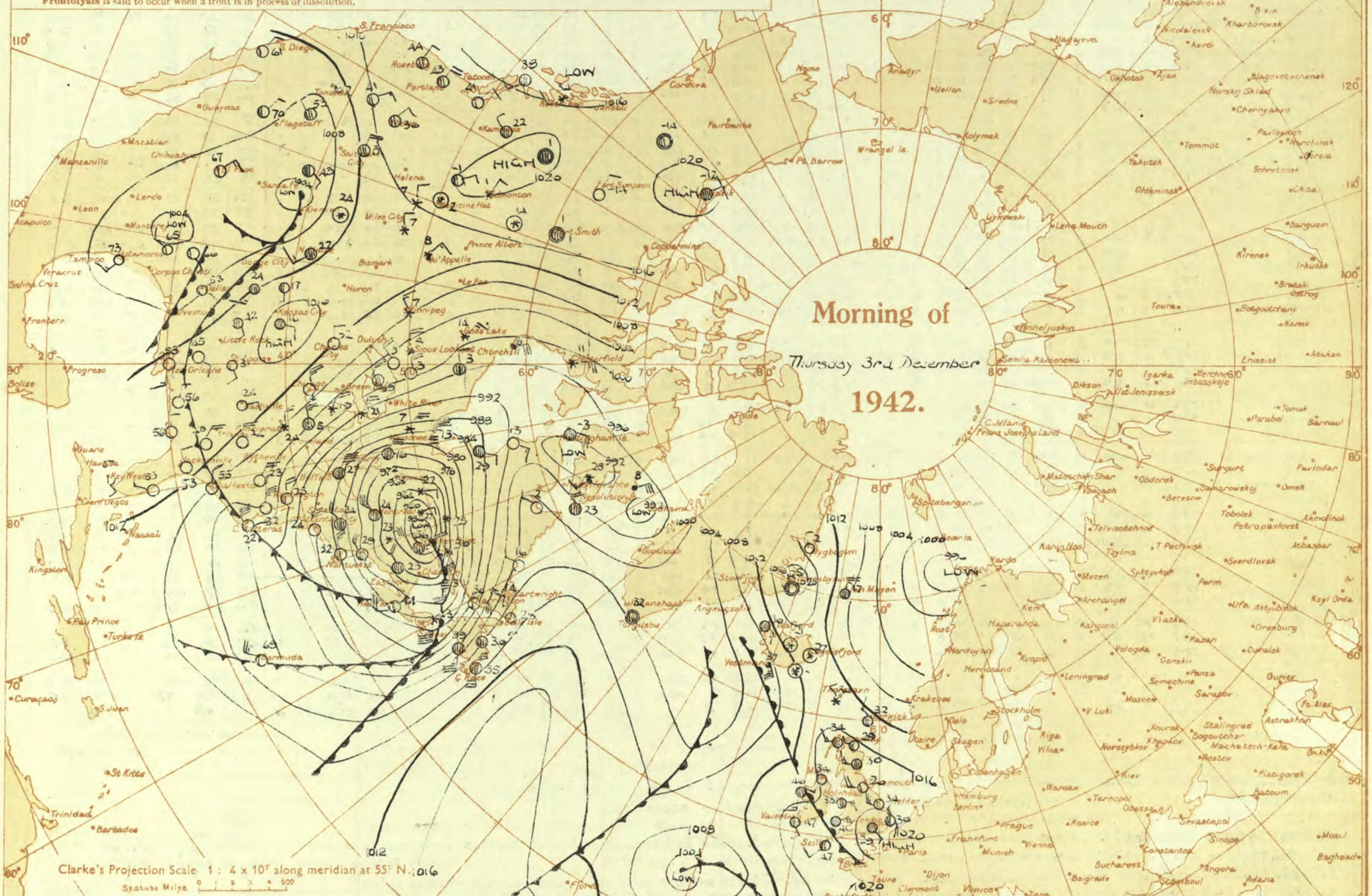
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



Clarke's Projection Scale 1 : 4 x 10^7 along meridian at 55° N.

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with 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.

Thursday 3rd December 1942

No. 29596

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	32	*	*	*	*	*	*	*	*	*
	Croydon	290	20.7	-2	SSE	1	cf+	29	85	27	3	–	–	7	0	10	–
	S. Farnborough	226	20.4	-2	–	0	f	29	92	27	3	–	–	–	10	10	<150
	Boscombe Down	417	19.9	+2	E'N	3	fZo	33	85	29	5	5	–	–	10	10	4000
	Thorney Island	10	19.6	-2	–	0	Zo	33	75	27	6	–	2	–	0	10	–
	Lympne	283	20.2	0	N	1	bf+	29	75	23	2	–	–	–	0	0	–
	Manston	154	19.8	-2	WNW	1	bf	29	92	27	3	–	–	–	0	0	–
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	20.0	+10	WSW	2	Zo	33	85	28	5	–	–	–	0	0	–
	Gorleston	5	18.9	+6	NW'N	2	m	30	85	24	4	5	–	–	4-6	4-6	800
	Mildenhall	15	19.9	+6	WSW	2	m	28	92	25	4	–	–	8	0	2-3	–
	Cranwell	203	19.4	+4	WSW	1	b-bcf-	29	92	28	3	–	3	–	0	2-3	–
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	19.7	0	–	0	Zo	31	97	30	6	5	–	–	10	10	5800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	16.5	-2	SSE	3	bc	45	97	44	7	5	–	–	4-6	4-6	2500
	Bristol	209	19.7	0	SSE	1	rs	37	85	33	5	5	–	–	10	10	2100
	Portland Bill	32	19.1	+2	ENE	4	o	43	85	38	7	5	–	–	10	10	2500
	Plymouth	82	18.3	-4	E	2	Zo	44	92	44	5	5	–	–	2-3	2-3	2000
	The Lizard	240	17.7	-2	W	2	pr	49	92	47	8	8	–	–	7-8	7-8	1500
	Scilly (St. Mary's)	163	17.4	-6	SW	2	bc	47	92	45	8	5	–	–	4-6	4-6	1200
	Guernsey	175															
6	Pembroke	142	16.9	+2	ENE	3	c	46	97	46	7	8	–	–	10	10	2500
7	Holyhead (Valley)	32	17.2	-8	E'N	3	c	38	92	36	7	5	–	–	10	10	2500
	Chester (Sealand)	16	18.7	-2	–	0	m	33	85	30	4	5	–	–	10	10	3500
8	Manchester	235	18.7	-2	E'S	2	c-bcf-	29	85	26	3	5	–	–	7-8	7-8	4000
10	Spurn Head	29	18.6	+2	WNW	5	Zo	34	75	28	6	1	–	–	2-3	2-3	4000
	Catterick	175	19.2	0	–	0	m	26	92	25	4	–	–	2	0	2-3	–
	Tynemouth	108	18.3	-2	W	4	b-bc	31	92	30	6	–	4	–	0	2-3	–
11	St. Abbs Head	280	17.0	+4	WNW	2	b-bc	35	75	27	7	5	–	–	2-3	2-3	4000
	Leuchars	36	17.6	0	N	1	bc	29	85	20	8	–	4	–	0	4-6	–
12	Renfrew (Abbots I.)	19	18.7	+4	–	0	bf+	22	97	20	3	5	–	–	Tr	Tr	3500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	17.5	0	SSE	4	e	41	65	32	8	5	2	–	4-6	10	2500
13A	Tiree	44	17.3	0	SSE	1	c	38	85	34	9	5	7	–	4-6	9	3000
13B	Stornoway	15	17.8	0	WSW	3	c-bc	34	92	31	7	5	–	–	7-8	7-8	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	16.9	+6	W'N	3	c	30	92	29	8	–	–	7	0	10	–
	Wick	114	15.8	-2	WSW	2	bc/ps	29	92	29	8	8	–	–	4-6	4-6	2000
16	Sumburgh	19	12.6	-2	N'E	4	c-bc/ps	33	85	30	8	3	–	–	7-8	7-8	2000
17	Blacksod Point	18	14.5	+4	S	3	c	46	92	44	8	6	–	–	9+	9+	1500
18	Malin Head	84	16.7	+2	S'W	2	b	34	75	28	8	–	–	–	0	0	–
	Aldergrove	268	17.2	-2	–	0	Zo	37	85	33	6	5	–	–	10	10	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	16.2	-2	S'E	2	c	47	97	46	8	5	–	–	9+	9+	1500
	Roches Point	22	16.3	0	SW	2	c	46	97	45	8	5	–	–	10	10	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	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)	19.8	+4	–	0	f	35	85	32	2	–	–	–	10	10	<150	1	*	38	30	14	Tr	Tr	0.8
Croydon	20.4	0	–	0	f	33	85	29	3	–	–	–	10	10	<150	1	*	38	27	23	–	Tr	0.0
S. Farnborough	20.0	+4	–	0	m	33	85	29	4	5	–	–	10	10	5500	1	*	39	26	15	–	–	0.7
Boscombe Down	19.4	-2	ENE	2	Zo	34	92	33	5	5	–	–	10	10	2100	0	*	41	34	25	–	0.1	0.8
Thorney Island	18.9	-6	ENE	2	Zo	39	75	31	6	5	–	–	7-8	10	2500	1	*	43	29	25	–	0.1	*
Lympne	20.2	+2	–	0	c/f	31	85	28	6	5	7	–	2-3	9+	6000	0	§ *	36	25	15	–	–	1.8
Manston	19.9	+2	N'S	1	cf-	31	85	28	3	–	7	–	0	10	–	3	*	39	28	23	–	–	1.4
Shoeburyness	20.6	+14	–	0	cf+	31	92	29	3	5	–	–	10	10	7200	3	*	37	27	15	–	–	2.9
Felixstowe	19.7	+2	W	1	m	33	85	29	4	–	7	–	0	7-8	–	0	1	38	29	26	–	–	5.1
Gorleston	19.3	+4	WNW	2	Zo	29	85	25	5	–	4	–	0	4-6	–	3	3	40	28	25	–	–	6.8
Mildenhall	19.8	+2	SW	1	m	30	85	27	4	5	7	–	2-3	9+	4000	3	*	37	25	20	Tr	Tr	5.7
Cranwell	19.0	-2	WSW	2	c-bcf	29	97	29	3	–	7	–	0	7-8	–	3	*	38	26	20	–	–	6.0
Birmingham	19.3	+4	S	2	iSo	33	75	25	4	–	–	–	10	10	800	1	*	38	21	18	–	Tr	2.2
Upper Heyford	19.2	-2	SE	1	Zo	32	92	29	5	5	–	–	10	10	2100	3	*	35	29	20	–	–	*
Ross-on-Wye	18.5	-4	SW	2	o	36	85	32	6	5	–	–	10	10	1500	1	*	39	35	30	0.2	0.1	0.1
Hartland Point	16.7	+4	SSW	3	bc	43	97	42	8	2	4	–	Tr	4-6	2500	1	3	47	43	41	0.3	Tr	0.0
Bristol	19.2	-2	–	0	%d	35	97	35	5	5	–	–	10	10	2000	1	*	42	34	34	–	2	0.1
Portland Bill	17.6	-4	NE'E	4	c	44	85	39	7	5	–	–	10	10	2500	1	4	50	39	*	–	–	*
Plymouth	17.9	+2	SE	2	Zo	41	97	41	5	–	7	1	0	2-3	–	1	2	55	41	32	3	1	0.8
The Lizard	16.9	-2	–	0	bc	46	92	44	8	8	–	–	4-6	4-6	2000	0	3	53	45	*	–	0.5	4.7
Scilly (St. Mary's)	17.1	0	–	0	bc	45	92	43	8	8	4	–	4-6	4-6	1200	0	2	55	45	*	–	–	4.8
Guernsey																							
Pembroke	16.6	0	E'S	2	c	46	97	46	7	8	6	–	7-8	10	2000	1	2	47	41	*	–	2	0.0
Holyhead (Valley)	16.1	-2	ENE	3	fofo	40	97	39	6	–	2	–	10	10	1100	1	3	45	35	35	–	1	*
Chester (Sealand)	17.9	0	SSE	2	%r	35	92	32	5	5	–	–	10	10	3000	1	*	41	31	21	–	Tr	4.5
Manchester	18.5	0	SSE	3	m	34	85	28	4	5	7	–	4-6	10	4000	3	*	35	26	18	Tr	–	*
Spurn Head	18.7	0	WNW	2	Zo	33	85	29	6	–	–	–	0	0	–	0	4	37	32	*	–	–	6.6
Catterick	19.7	+6	–	0	c-bgf	21	97	21	4	–	3	9	2-3	7-8	3500	3	*	39	20	12	–	–	6.8
Tynemouth	18.4	+4	NW	3	c-bc	30	92	28	6	5	–	–	7-8	7-8	2500	3	3	36	29	27	–	–	*
St. Abbs Head	17.0	+2	WNW	3	c-bc	36	75	29	7	5	–	–	7-8	7-8	4000	0	3	37	34	*	–	–	
Leuchars	17.6	+2	N	1	c-bc	31	75	27	8	–	7	–	0	7-8	–	3	*	38	27	19	–	–	*
Renfrew (Abbots I.)	18.5	+4	–	0	bf-	25	97	25	3	–	–	–	0	0	–	3	*	40	21	16	–	–	5.3
Eskdalemuir	19.6	+2	–	0	c	21	92	18	7	5	–	–	9+	9+	2800	3	*	36	14	8	–	–	6.6
Point of Ayre	17.5	+4	SE	3	c	41	65	32	7	6	2	–	4-6	10	1500	0	3	42	35	*	–	Tr	4.6
Tiree	17.3	+2	S	1	c/r	41	75	34	9	5	7	–	4-6	9+	3000	1	1	41	35	32	Tr	Tr	1.5
Stornoway	17.6	+2	W	2	c	35	97	34	8	5	–	–	9+	9+	2200	8		35	30	25	1	Tr	2.5
Dalwhinnie	18.3	0	NW	1	b	20	85	17	8	5	–	–	Tr	Tr	2500	4	*	32	19	10	–	–	0.9
Aberdeen †	16.7	+2	NW	4	b	32	75	26	7	2	–	6	Tr	1	2500	7	2	35	28	23	0.4	–	3.7
Wick	16.2	+4	WSW	2	bc	28	92	26	8	8	–	6	4-6	4-6	2000	7	*	35	27	24	0.2	1	*
Sumburgh	13.1	+2	NW	4	c-bc	37	85	33	8	8	–	8	4-6	7-8	2000	8	3	36	30	27	1	1	0.9
Blacksod Point	15.1	+6	SE	1	c-bc	44	97	40	8	5	–	–	7-8	7-8	2500	1	2	46	41	*	1	–	*
Malin Head	16.4	+2	SSE	3	c	38	85	34	8	8	–	–	9	9	2500	1	3	42	38	32	–	–	1.8
Aldergrove	17.2	+2	ENE	2	'do	38	97	37	6	5	–	–	10	10	2800	1	*	42	32	24	–	Tr	4.2
Birr Castle	15.2	+2	SSW	1	f	42	97	42	3	–	–	–	10	10	<150	1	*	41	40	39	1	3	0.0
Valentia Obsy.	16.1	0	NE'E	1	c	45	97	45	8	5	–	–	9+	9+	4000	1	0	53	45	43	Tr	3	2.5
Roches Point	16.3	0	–	0	c	45	97	45	8	5	–	–	9+	9+	800	1	3	52	48	*	–	0.1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 2nd December $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 3rd December $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	30	27854	27584	36	01754	27384	3-	01644	27314	37	02644	23287
115	82	02835	32488				37	10844	28486	57	10844	28387
203							80	01944	24324	80	02945	24825
206	23	01852	28284	83	02855	28317	5-	83858	28388	53	01863	26113
210	86	01963	29414	06	01890	22313	36	02863	23314	53	02864	22884
220	33	01854	02114	80	02457	10117	5-	02868	00028	80	02457	10117
230	5-	01963	30113	83	01963	00013	·			53	02865	17128
245	80	01963	26303	50	01861	28103	04	02890	00016	83	01851	23113
260	04	51590	24241	04	43390	30142	00	45290	24143	50	05568	24142
278	10	01852	00013	53	0653	00025	5-	02867	00027			
279	04	01790	00001	04	01690	11203	50	05573	05203	5-	03666	07226
285	10	00861	30400	50	00871	30301	·					
288	00	05690	24300	00	05690	19210	00	05690	18215	07	02890	24217
575	5-	02867	16127	5-	61748	12168	5-	02748	00068	5-	05648	00068
301	10	08461	02142	10	41461	12141	5-	08468	12228			
321	00	08490	25200	00	08490	26111	00	43390	00040	07	45390	00045
299	57	01753	26213	50	05653	26213	50	05655	26215	52	42735	2[illegible]16
292	50	01861	28101	00	00890	26100	04	05690	00011	03	05590	00002
310	--	01644	26314									
614	00	08490	24143	00	08490	26100	07	45390	22148	07	47290	24148

III	13h. G.M.T. 2nd December $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 3rd December $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	53	02864	00025	5-	02868	00028	5-	22858	12468	52	51531	12158
334	--	02753	02214	--	05554	02216						
340	00	01790	24114	04	01690	04113	5-	05508	14228	5-	71558	14378
136	00	05690	26313	00	05590	24100	50	08453	22143	03	43590	22143
336	53	01764	32315	*	02754	32328				62	62526	28368
350	00	05690	22125	90	20111	18330	5-	08475	16225	5-	05568	16128
368	57	64655	12228	52	61657	08268	02	62538	08268	5-	22648	08268
379	50	05662	28116	00	05690	28120	5-	05658	28128	5-	51648	20158
390	00	05690	24145	00	45390	27145	5-	08467	24127	5-	47358	24148
382	57	05673	29125	00	05690	00010	07	05530	00028	57	31553	14128
438				50	05563	32313	50	05663	32213			
430	00	05690	30227	04	05690	32124	53	05653	00028	5-	05608	12128
409	26	01853	24415	82	81854	26286	50	01744	14324	54	2744[illegible]	[illegible]

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 December
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 *	bcxcz	cbcb Fx	bFoFx
Croydon	cmzcm	cmcf	fbcfcf
Greenwich	bc ⊕	bchLobf	bcxff
Camden Square	bc	*	*
Kensington	bc	bc	*
Hampstead	bc	bcx	oFx

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 1.5, Time 20hrs 2nd. Min. 0.2, Time 11-14hrs 2nd.

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	38	30	14	Tr	Tr	0.8	*	*
Croydon	38	27	23	–	Tr	0.0	*	*
Greenwich	37	27	21	–	Tr	0.1	59	83
Westminster	39	29	24	Tr		*	68	71
Regents Park	37	29	19	–	–	*	60	70
Camden Square	38	30	22	–	–	*	*	72
Kensington	39	29	18	–	Tr	*	72	66
Hampstead	37	29	20	–	–	*	*	72

Page 1 **BRITISH SECTION**

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

SECRET

Friday 4th December 1942

No. 29597.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	19·6	-8	E'N	1	F+	39	75	31	1	-	-	-	10	10	<150
	Croydon	20·4	-6	SSE	1	f	38	75	32	2	-	-	-	10	10	<150
	S. Farnborough	10·6	-6	ENE	1	of	37	85	32	3	5	7	-	4-6	10	1100
	Boscombe Down	19·2	-6	SE	1	z_0	41	92	39	6	6	-	-	10	10	2000
	Thorney Island	19·0	-6	E'N	1	m/d	43	85	39	4	5	-	-	10	10	1500
	Lympne	20·0	-6	S	1	z_0	41	76	33	6	-	7	-	0	10	-
	Manston	20·1	-6	-	0	z_0	40	56	27	5	7	-	-	9	9	5000
2	Shoeburyness	20·5	-4	-	0	of	39	85	35	3	5	-	-	10	10	1500
	Felixstowe	20·0	-6	WNW	1	m	38	75	30	4	5	-	-	9+	9+	7000
	Gorleston	19·5	-6	W'N	2	z_0	38	65	28	5	5	-	-	2-3	2-3	2000
	Mildenhall	20·2	-2	SW'S	1	of	34	75	28	3	5	-	-	10	10	3500
	Cranwell	19·6	0	W'S	1	z_0	35	85	30	5	-	7	-	0	9+	-
3	Birmingham	19·3	-2	-	0	m	34	92	32	4	5	-	-	10	10	800
	Upper Heyford	19·1	-4	ESE	2	r_0r_0	33	92	31	4	5	-	-	10	10	800
4	Ross-on-Wye	18·8	0	NW'N	1	z_0	39	85	36	6	5	-	-	10	10	800
5	Hartland Point	17·5	+2	SW	3	bc	49	86	36	8	2	4	-	2-3	4-6	2000
	Bristol	19·1	+4	S	1	z_0	43	92	41	5	5	7	-	4-6	10	4000
	Portland Bill	18·2	-4	ENE	4	c	42	85	37	7	4	7	-	4-6	10	4000
	Plymouth	19·4	0	ESE	1	m	48	92	45	4	8	-	-	9+	9+	7000
	The Lizard	17·4	0	SSE	3	bc	56	76	48	8	-	4	-	4-6	4-6	2000
	Scilly (St. Mary's)	17·1	-4	SE'E	2	bc	54	65	44	8	8	4	5	2-3	4-6	1200
	Guernsey															
6	Pembroke	17·8	0	SW'W	3	c-bc	51	85	46	8	8	6	-	4-6	7-8	2000
7	Holyhead (Valley)	17·3	+2	E'N	1	z_0	44	92	42	6	8	7	-	9	9+	2000
	Chester (Sealand)	18·6	0	SE	1	o	36	85	32	5	5	-	-	10	10	800
8	Manchester	19·1	-2	SE'S	3	m/f	37	75	30	4	5	-	-	9	9	4000
10	Spurn Head	19·7	+4	NW'N	1	m	37	75	31	4	-	-	-	0	0	-
	Catterick	20·3	-2	-	0	z_0	34	85	30	5	-	3	9	0	7-8	
	Tynemouth	20·0	0	W	2	m	37	65	27	4	-	4	-	0	2-3	-
11	St. Abbs Head	18·1	0	WNW	2	b-bc	38	65	29	7	1	4	-	2-3	2-3	3500
	Leuchars	18·5	-2	WSW	2	b-bc	38	55	23	8	-	3	8	0	2-3	-
12	Renfrew (Abbots I.)	19·3	-2	-	0	bf+	26	97	26	2	-	-	-	0	0	-
	Eskdalemuir	19·5	-2	-	0	b	30	92	28	8	-	4	-	0	1	-
	Point of Ayre	18·4	-2	SE'S	4	b-bc	43	65	33	7	5	3	-	2-3	2-3	4000
13A	Tiree	17·4	-4	S	4	bc	44	65	33	9	7	4	2	1	4-6	3500
13B	Stornoway	16·4	-8	WSW	3	bc	39	75	32	8	2	3	5	1	4-6	2500
15	Dalwhinnie	18·0	0	SSE	1	c	32	85	29	8	5	5	-	1	9+	2500
	Aberdeen	17·6	+2	W'N	3	bc	36	65	25	6	8	-	6	1	4-6	4000
	Wick	16·3	+2	SW'W	3	c-bc	34	76	27	9	8	7	6	4-6	7-8	2500
16	Sumburgh	12·2	-6	WNW	6	c/ph	41	65	32	8	8	7	-	7-8	9+	1500
17	Blacksod Point	16·2	+2	ESE	2	c	47	92	45	8	5	-	-	10	10	2500
18	Malin Head	17·2	0	SSE	4	c	40	92	38	8	8	-	-	10	10	1500
	Aldergrove	18·5	-2	SE	2	z_0	41	75	32	6	5	-	-	10	10	1500
19	*Birr Castle	16·4	+2	ESE	1	c	45	97	44	7	5	-	-	10	10	2500
20	Valentia Obsy.	16·2	-6	NE'E	1	c	49	86	45	8	5	-	-	9+	9+	4000
	Roches Point	17·0	0	S	1	z_0	47	92	45	6	5	-	-	9	9	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	20·5	+10	NE'E	3	id_0	38	92	35	2	-	-	-	10	10	<150	1	•
Croydon	20·6	+6	E'N	2	m/f	37	92	35	4	5	-	-	10	10	1700	1	•
S. Farnborough	20·2	+10	NE'N	1	oF+	38	85	35	1	5	-	-	10	10	1500	1	•
Boscombe Down	15·3	0	E'N	2	m	41	97	41	4	5	-	-	10	10	1800	1	•
Thorney Island	19·1	+4	E	2	m	43	92	41	4	5	3°	-	4-6	7-8	4000	1	•
Lympne	20·1	+6	NW	1	id_0	38	85	34	5	5	7	-	7-8	10	3500	1	§ 1
Manston	20·7	+12	-	0	of	39	65	29	3	5	-	-	10	10	7200	1	•
Shoeburyness	21·3	+8	N'E	1	ir_0	37	85	33	5	5	-	-	10	10	1500	1	•
Felixstowe	20·8	+6	-	0	m	36	75	27	4	5	-	-	10	10	4000	0	1
Gorleston	21·1	+6	WNW	2	f	33	85	30	3	5	-	-	10	10	<150	3	2
Mildenhall	20·4	+6	SSE	2	of	34	75	28	3	5	-	-	10	10	1600	1	•
Cranwell	12·4	+10	SW	1	bf	29	97	28	3	-	-	-	0	0	-	3	•
Birmingham	20·0	+6	SSW	1	of	34	97	33	3	5	-	-	10	10	800	1	•
Upper Heyford	19·7	+2	ENE	2	of	34	97	33	3	5	-	-	10	10	400	1	•
Ross-on-Wye	19·2	+6	ENE	2	m	37	92	33	4	5	-	-	10	10	800	1	•
Hartland Point	17·5	+6	E	3	c	48	92	45	8	5	1	-	4-6	9	2500	1	3
Bristol	19·6	+4	-	0	c-bcf+	40	97	40	3	5	3	-	4-6	7-8	1600	1	•
Portland Bill	18·7	+6	NE	4	c	44	85	39	7	5	-	-	10	10	4000	1	4
Plymouth	18·5	+6	E	2	m	44	97	43	4	-	3	-	0	Tr	-	1	1
The Lizard	17·1	0	ESE	3	bc	49	85	46	8	8	-	-	4-6	4-6	2000	0	2
Scilly (St. Mary's)	16·2	0	SE	3	c-bc	49	85	44	8	8	3	-	4-6	7-8	1200	1	3
Guernsey																	
Pembroke	17·2	0	NE'E	2	c-bc	45	97	44	8	8	2	-	4-6	7-8	2000	1	2
Holyhead (Valley)	17·6	+4	SE	1	z_0	41	97	41	6	7	-	-	7-8	7-8	2000	1	1
Chester (Sealand)	19·2	+10	S	3	m	37	92	34	4	5	-	-	10	10	2200	1	•
Manchester	19·4	0	NE	2	m	31	85	28	4	-	-	-	0	0	-	1	•
Spurn Head	20·3	+6	-	0	z_0	35	85	29	5	-	-	-	0	0	-	0	2
Catterick	20·5	+2	-	0	bf+	25	97	25	2	-	-	-	0	0	-	3	•
Tynemouth	19·9	0	WSW	2	m	34	85	31	4	-	4	-	0	2-3	-	3	3
St. Abbs Head	18·0	0	SW	3	c-bc	35	75	29	7	5	-	-	7-8	7-8	4000	0	2
Leuchars	18·3	+4	W	1	b-bc	33	85	29	6	-	4	-	0	2-3	-	3	•
Renfrew (Abbots I.)	19·0	-2	-	0	bf-	23	97	23	2	-	-	-	0	0	-	3	•
Eskdalemuir	20·6	+10	-	0	b	20	85	15	8	-	-	-	0	0	-	3	•
Point of Ayre	18·3	0	SE'S	3	b	40	85	34	7	5	-	-	1	1	2000	0	3
Tiree	16·9	-2	S	5	c	44	85	40	8	8	-	-	10	10	2500	1	4
Stornoway	15·7	+2	SW	2	c-bc	37	85	33	9	5	3	6	4-6	7-8	4000	6	*
Dalwhinnie	18·0	0	SSE	1	b	29	92	27	8	1	-	-	Tr	Tr	4000	4	•
Aberdeen	17·2	0	W'S	2	z_0	35	65	25	6	5	3	-	Tr	10	4000	6	2
Wick	16·3	-2	SW	4	c	35	83	31	8	2	7	-	2-3	9+	2000	7	•
Sumburgh	11·0	-6	W	7	c/r	43	85	38	8	5	2	-	9	10	2000	6	
Blacksod Point	15·8	+2	ESE	2	c	46	97	45	8	5	-	-	10	10	2500	1	2
Malin Head	16·7	-2	S'W	2	c	41	92	39	9	8	-	-	9+	9+	1500	1	3
Aldergrove	18·1	+2	SSE	2	z_0	41	75	33	6	5	-	-	10	10	3000	1	•
*Birr Castle	16·4	+2	WNW	1	c	43	97	42	7	5	-	-	10	10	1500	1	•
Valentia Obsy.	15·7	+4	ESE	3	c/pr	48	85	44	8	9	-	-	9+	9+	2500	1	1
Roches Point	16·4	0	SSE	3	b-bc	45	92	43	8	5	-	-	2-3	2-3	1500	1	3

PAST 24 HOURS. — Weather.

Stations	7h.—13h. 3rd (39)	13h.—18h. 3rd (40)	18h. 3rd to 1h. 4th (41)	1h.—7h. 4th (42)
London (Kew)	$ofir_0F$	$offr_0d_0$	d_0off	$ofcm_0$
Croydon	$cmcfid_0of$	$cfocd_0d_0ofm$	$ofid_0gcm$	cm
S. Farnborough	id_0d_0rcf	cid_0fF	$coid_0ibcf$	$cF\omega mm_0$
Boscombe Down	$cm_0ir_0cm_0$	cm_0cm	$cmid_0f$	cfod fof
Thorney Island	$cm_0or_0d_0$	omr_0m_0cm	$cmcm_0$	$cm_0ir_0cm_0$
Lympne	cm_0cz_0	cz_0cm_0	id_0cm_0	cm_0
Manston	$cfx z_0y$	cz_0oczf	cf2m	cz_0m_0
Shoeburyness	cf	$cfcmcir_0m_0$	cm_0	cm_0
Felixstowe	cmxcmbcmcm	cz	cz	$czcm_0$
Gorleston	czbxm	cbcmff	bffx	$bczcmz_0$
Mildenhall	cmxofxcf	cfxcfw	cfwcmw	$cmcm_0ir_0w$
Cranwell	$cmxcm_0xcm_0$	cm_0, bffx	cfxcm	$cmfeir_0$
Birmingham	cbcb	omf	ofof	FF
Upper Heyford	$cm_0xcr_0r_0m$	cr_0r_0mcf	fir_0FoF	bfof
Ross-on-Wye	op_0o	p_0cm	om	omfe
Hartland Point	bcbc	bcc	cbccbc	bcbbc
Bristol	cm_0ir_0	cmcfm	bcfoF	ofd_0d_0cf
Portland Bill	c	c	oc	o
Plymouth	cm_0	cbm_0	bcm	$bmbcm_0bc$
The Lizard	bc	bc	bcc	cbcc
Scilly (St. Mary's)	bc	bcc	cbcc	c
Guernsey				
Pembroke	c	cbc	$cprm_0q$	$bccm_0$
Holyhead (Valley)	cm_0	cm_0	b,c	cir_0bc
Chester (Sealand)	$d_0d_0m_0o$	cir_0mo	b,cmof	ocm
Manchester	rzff	czm_0	bmfcfmx	ir_0m_0
Spurn Head	bcm	bm_0	bm_0	cm_0
Catterick	$bcmcm_0c$	cm_0bmfx	bfFx	oFx
Tynemouth	cm_0bcm	bcm	bcmbffm	bbcm
St. Abbs Head	bm_0	$bbccm_0c$	cb	bc
Leuchars	bcbbc	bccbc	bm_0xjf	$jfcm_0$
Renfrew (Abbots I.)	bfxbcfxcfx	bfx	bfx	bfxofx
Eskdalemuir	cbcbx	bx	bx	bbccx
Point of Ayre	os_0r_0m	b	bccff	dfdf
Tiree	cbc	bcc	co	oc
Stornoway	cbc	bcc	cbcc	c
Dalwhinnie	bc	cb		b,o
Aberdeen	$bbcz_0$	bcz_0cz_0	$cbcz_0$	$bcbz_0$
Wick	bbc	c	c	bc
Sumburgh	cps_0ph_0	zcr_0ir	cir_0rr ≡	crrbcc
Blacksod Point	c	c	c	bc
Malin Head	r	c	c	r
Aldergrove	cid_0cm_0	cm_0	cm_0	cm_0bcm_0
*Birr Castle	f	c		c
Valentia Obsy.	c	pr	bc	r
Roches Point	d	c	r	r

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

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Moderate south to south east wind; variable cloud, bright intervals, local mist or fog, milder than of late.
5 S.W. England; 6 South Wales	Fresh south west wind, strong on coast; cloudy, occasional rain; mild.
7 North Wales; 8 N.W. England	Moderate or fresh south wind; mainly cloudy; local mist; mild.
9 N. Midlands; 10 N.E. England; 11 S.E. Scotland	Light south wind; cloudy; fog in many places till tonight, clearing tomorrow; rather cold becoming milder.
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland	Moderate south wind; mainly cloudy but bright intervals, mild.
15 N.E. Scotland	Moderate west wind; cloudy occasional rain; rather cold becoming
16 Orkneys and Shetlands	milder.
17 N. W. Ireland	As 5-6.
18 N. E. Ireland	As 12-14.
19 S. E. Ireland; 20 S. W. Ireland	As 5-6.

GENERAL INFERENCE

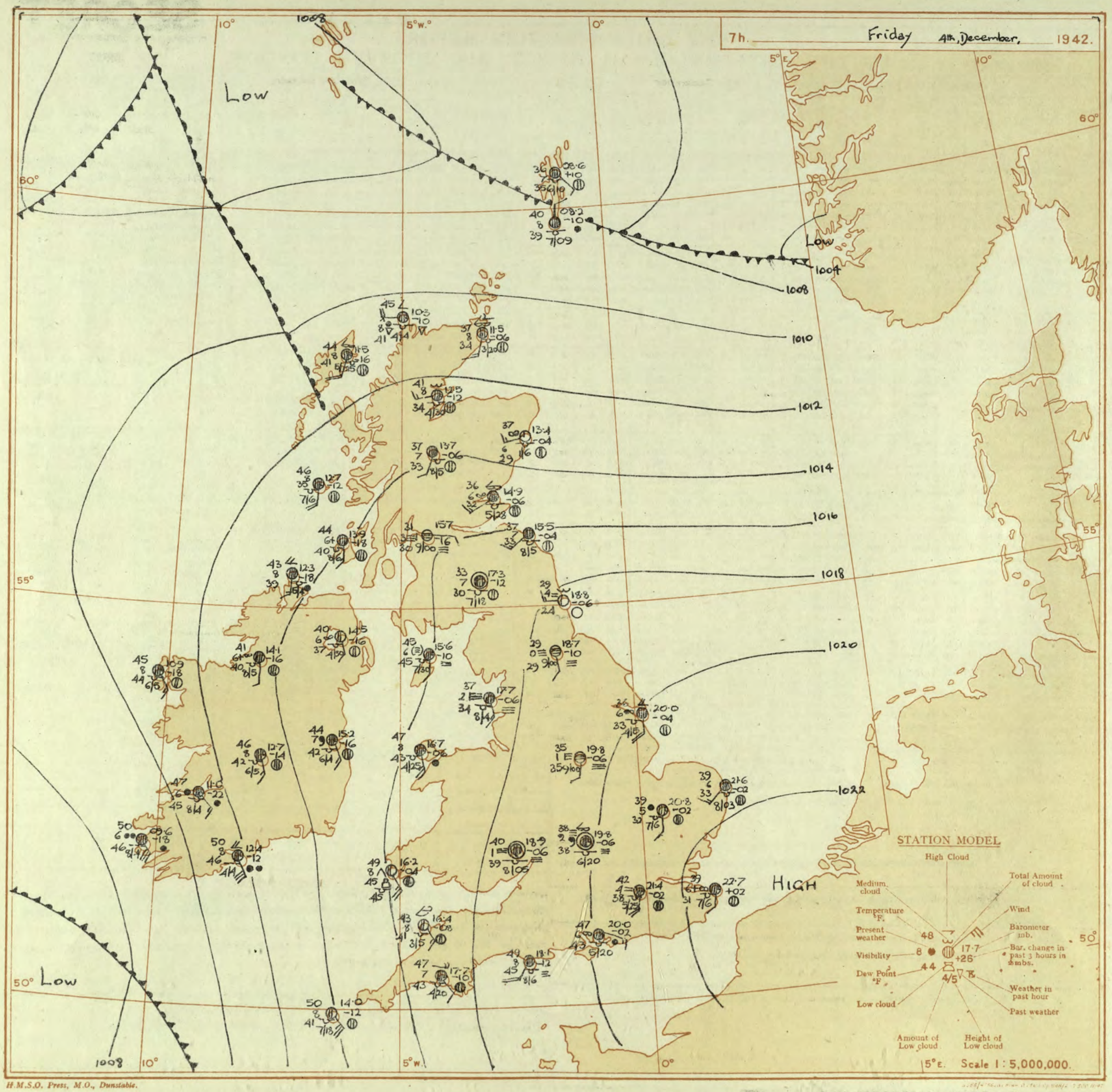
A ridge of high pressure over Eastern Britain is moving slowly east and weakening. A depression off Southwest Ireland is slowly extending its influence over south western districts of the British Isles. Weather will be mainly cloudy, and there will be occasional rain in the southwest. Fog will occur in places tonight especially in Northeast England. It will become milder generally.

FURTHER OUTLOOK

Mainly cloudy and mild; occasional rain especially in the west.

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.

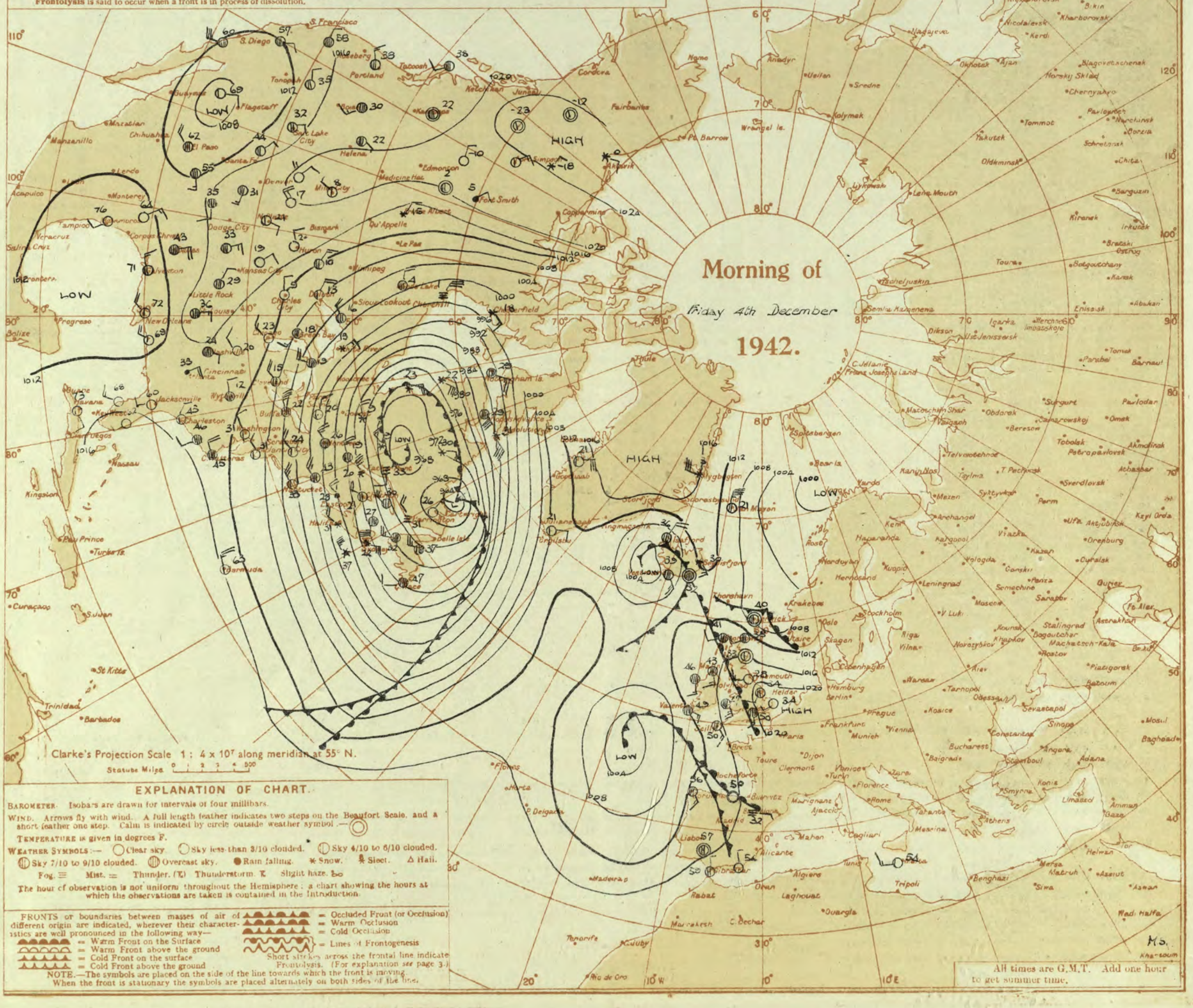
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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.



Page 4. BRITISH SECTION

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

Friday 4th December, 1942

No. 29,597.

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

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	21·8	0	SSE	4	bc/d	41	92	39	4	5	–	–	4-6	4·6	1500
	S. Farnborough	226	21·0	–2	—	0	oF-	38	97	37	1	5	–	–	10	10	1900
	Boscombe Down	417	20·5	+2	E'N	3	of	40	92	39	3	5	–	–	10	10	800
	Thorney Island	10	20·4	+2	E'N	2	zo	45	92	43	5	5	–	–	10	10	3500
	Lympne	283	22·1	+6	SW	1	zo	39	75	31	5	5	–	–	7·8	7·8	1500
	Manston	154	22·2	+6	S'W	2	zo	40	75	32	5	5	1	–	4-6	10	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	21·6	–6	SE	1	m	41	65	31	4	5	–	–	10	10	2000
	Gorleston	5	21·9	+2	SW'N	1	b	34	75	28	5	–	–	–	0	0	–
	Mildenhall	15	21·3	+4	SE	2	m	35	75	29	4	5	–	–	10	10	1200
	Cranwell	203	20·7	–4	SE'S	2	m/f	33	92	31	4	5	–	–	10	10	500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	20·3	–2	—	0	F+	35	97	35	1	–	–	–	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	17·7	–4	S	3	bc	45	97	44	8	5	4	–	4·6	46	2500
	Bristol	209	20·5	–2	E	1	F	40	97	40	1	–	–	–	10	10	<150
	Portland Bill	32	18·8	0	S	3	c	50	85	46	7	5	–	–	10	10	2500
	Plymouth	82	18·8	+2	ESE	·1	m	43	97	43	4	5	–	–	1	1	4000
	The Lizard	240	17·0	–4	SE	5	c-bc	49	85	45	8	8	–	–	7·8	7·8	1500
	Scilly (St. Mary's)	163	16·0	–4	SE	3	c-bc	50	75	43	8	5	2	–	7·8	7·8	1000
	Guernsey	175															
6	Pembroke	142	18·1	–2	SE	5	cq	47	97	46	6	5	–	–	9	9	2500
7	Holyhead (Valley)	32	17·8	–4	S	3	zo	46	92	44	6	5	–	–	7·8	9	2700
	Chester (Sealand)	16	19·0	–6	SSE	1	m/f	37	92	35	4	5	–	–	10	10	600
8	Manchester	235	20·1	–2	SE	3	zo	30	92	29	5	–	7	–	0	10	–
10	Spurn Head	29	21·0	0	SSW	2	zo	34	75	29	6	7	–	–	4·6	4·6	2500
	Catterick	175	20·4	–2	SW	3	bf	22	97	22	2	–	–	–	0	0	–
	Tynemouth	108	19·9	–2	W	3	m	28	92	25	4	–	–	–	0	0	–
11	St. Abbs Head	280	16·8	–12	SW	3	b-bc	32	75	26	7	4	–	–	2-3	2-3	4000
	Leuchars	36	16·5	–10	SSW	2	bf	26	97	26	6	–	–	–	0	0	–
12	Renfrew (Abbots I.)	19	17·6	–14	—	0	bf-	28	97	28	2	–	–	–	0	0	–
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	17·7	–6	S'E	4	f	43	92	43	3	*	*	*–	10	10	<150
13A	Tiree	44	15·1	–12	SW	3	c	45	85	41	8	4	2	–	2-3	10	1500
13B	Stornoway	15	14·0	–8	WSW	2	c	41	85	37	8	5	–	–	10	10	3000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	15·1	–10	—	0	b-bc	33	85	29	8	–	7	1	0	2-3	–
	Wick	114	12·9	–12	SW'W	4	c-bc	37	85	34	7	5	–	–	7·8	7·8	2000
16	Sumburgh	19	06·6	–18	WSW	8	rr	46	92	45	6	5	2	–	9+	10	800
17	Blacksod Point	18	14·5	–14	SSE	3	c	46	97	45	8	5	–	–	10	10	2500
18	Malin Head	84	15·4	–8	SSE	3	c	43	85	39	8	8	–	–	10	10	1500
	Aldergrove	268	17·0	–10	SSE	2	zo	42	75	35	6	5	–	–	10	10	3700
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	13·5	–14	E'S	3	c-bc	49	75	41	8	5	–	–	7·8	7·8	2500
	Roches Point	22	15·3	–12	ESE	5	bc/r	49	92	47	8	6	2	–	4·6	4·6	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F (21)	Humid. % (22)	Dew Point °F (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	20·8	–4	ENE	1	zo	42	92	40	5	5	–	–	10	10	1500	1	*
Croydon	21·4	–2	S	4	m	42	85	38	4	5	–	–	7·8	9+	2500	1	*
S. Farnborough	20·4	–4	SE'S	3	zo	43	92	40	5	5	7	–	9+	10	1200	1	*
Boscombe Down	19·8	–2	E'S	3	of	42	97	42	3	5	–	–	10	10	400	0	*
Thorney Island	20·0	–2	ESE	3	zo	47	85	43	6	5	–	–	7·8	10	2000	1	*
Lympne	22·1	–4	SE	3	zo	39	75	32	6	5	3	–	2-3	4·6	2500	1	§3
Manston	22·7	+2	S'W	2	zo	39	75	31	6	5	–	–	9+	9+	4000	1	*
Shoeburyness	21·8	0	SSW	4	zo	41	85	36	5	5	–	–	7·8	7·8	2500	1	*
Felixstowe	22·0	+2	SE'S	3	zo	43	75	35	5	5	–	–	9+	9+	2500	0	2
Gorleston	21·6	–2	SW	3	c	39	75	33	6	5	–	–	10	10	800	0	2
Mildenhall	20·8	–2	S'E	2	iro	39	75	32	5	5	–	–	9+	9+	4000	1	*
Cranwell	20·2	–4	S'E	1	F	34	97	34	0	–	–	–	10	10	<150	1	*
Birmingham	19·3	–4	S	1	F-	37	97	36	0	–	–	–	10	10	<150	1	*
Upper Heyford	19·8	–6	—	0	dF	38	97	38	2	5	7	–	9	9+	2000	1	*
Ross-on-Wye	18·9	–6	—	0	oF	40	97	39	1	5	–	–	10	10	600	1	*
Hartland Point	16·4	–8	SE	3	bc	43	92	41	8	5	4	1	2-3	4·6	2500	1	3
Bristol	19·6	–2	—	0	bcf	43	97	43	2	5	–	–	4·6	4·6	450	1	*
Portland Bill	18·1	–12	SSW	4	c	49	85	45	8	5	–	–	10	10	4000	1	4
Plymouth	17·7	–10	SE'E	2	c	47	85	43	7	5	–	·2	4-6	9	2000	1	1
The Lizard	15·3	–10	SE	6	c	49	75	39	8	8	1	–	7·8	9+	1500	0	5
Scilly (St. Mary's)	14·0	–12	SE'S	5	c	50	75	41	8	5	–	–	9+	9+	1800	1	4
Guernsey																	
Pembroke	16·2	–4	SSE	5	bcq	49	85	45	8	8	–	–	4·6	4·6	2500	1	3
Holyhead (Valley)	16·7	–6	SSE	5	c	47	85	43	8	5	7	–	4·6	9+	2500	1	3
Chester (Sealand)	17·7	+8	SE	1	m	39	92	38	4	5	–	–	10	10	2000	1	*
Manchester	18·8	–8	SE'S	3	m	37	97	35	4	5	–	–	10	10	800	1	*
Spurn Head	20·0	–4	S'W	4	zo	36	85	33	6	5	2	–	4·6	10	2500	0	3
Catterick	18·7	–10	S	2	F	29	97	29	0	–	–	–	10	10	<150	3	*
Tynemouth	18·8	–6	W	3	m	29	85	24	4	–	3	–	0	2-3	–	3	3
St. Abbs Head	15·5	–4	SW	3	c	37	85	33	7	5	–	–	10	10	2500	0	3
Leuchars	14·9	–6	SW	3	zo	36	85	32	6	5	7	–	7·8	10	2800	3	*
Renfrew (Abbots I.)	15·7	–16	ESE	1	f-	31	97	30	3	–	–	–	10	10	<150	3	*
Eskdalemuir	17·3	–12	—	0	c	33	97	30	7	5	–	–	9+	9+	1800	3	*
Point of Ayre	15·6	–10	S'E	2	gf	45	97	45	6	5	–	–	9+	9+	3000	1	3
Tiree	12·7	–12	S'W	4	c	46	65	35	8	5	–	–	9+	9+	4000	0	4
Stornoway	11·5	–16	SSW	4	c	44	92	41	8	5	7	–	7·8	9+	2500	4	*
Dalwhinnie	13·7	–6	SSW	2	o	37	85	33	7	5	–	–	10	10	2500	4	*
Aberdeen †	13·4	–4	WSW	3	zo	37	75	29	6	5	–	–	Tr	Tr	4000	6	2
Wick	11·5	–6	SSW	3	cbc	37	92	34	8	5	7	5	2-3	7·8	2000	6	*
Sumburgh	08·2	–10	NNE	2	c	40	97	39	8	5	–	–	9+	10	900	1	4
Blacksod Point	10·9	–18	SE	3	c	45	97	44	8	8	–	–	9	9	2500	1	3
Malin Head	12·3	–18	S'E	3	c/r	43	85	39	8	5	2	–	7·8	10	1500	1	3
Aldergrove	14·5	–16	SSE	2	zo	40	92	37	6	5	–	–	4·6	4·6	3000	1	*
Birr Castle	12·7	–14	SSE	3	c	46	85	42	8	5	–	–	9	9	2500	1	*
Valentia Obsy.	09·6	–18	SE'S	6	roro	50	85	46	6	6	–	–	10	10	1500	1	4
Roches Point	12·4	–12	SE	6	c/r	50	85	46	8	6	2	–	4·6	9+	1500	1	5

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 3rd Hrs. (38)
London (Kew)	40	37	36	0·6	Tr	0·0
Croydon	40	37	37	0·4	Tr	0·0
S. Farnborough	39	37	36	Tr	Tr	0·0
Boscombe Down	43	38	31	0·1	Tr	0·0
Thorney Island	46	42	38	Tr	Tr	*
Lympne	42	38	33	Tr	Tr	0·0
Manston	41	37	35	–	–	0·0
Shoeburyness	39	36	35	Tr	–	0·0
Felixstowe	38	36	33	–	–	0·2
Gorleston	38	29	25	–	–	4·6
Mildenhall	35	33	30	Tr	Tr	0·0
Cranwell	35	27	17	–	Tr	0·2
Birmingham	38	34	30	0·1	Tr	0·0
Upper Heyford	34	34	34	1	Tr	*
Ross-on-Wye	39	37	37	0·3	0·1	0·0
Hartland Point	51	40	38	–	–	3·5
Bristol	43	37	29	Tr	Tr	0·0
Portland Bill	48	44	*	–	–	*
Plymouth	53	40	33	–	–	1·3
The Lizard	56	46	*	–	–	6·0
Scilly (St. Mary's)	54	48	*	–	–	5·1
Guernsey						
Pembroke	53	42	*	Tr	Tr	2·8
Holyhead (Valley)	46	36	31	0·2	0·3	*
Chester (Sealand)	37	32	30	0·6	–	0·0
Manchester	37	29	20	–	0·1	*
Spurn Head	39	33	*	–	–	1·8
Catterick	36	20	12	–	–	2·6
Tynemouth	37	27	24	–	–	*
St. Abbs Head	38	31	*	–	–	*
Leuchars	35	26	16	–	–	4·0
Renfrew (Abbots I.)	27	20	18	–	–	0·0
Eskdalemuir	34	13	7	–	–	3·6
Point of Ayre	43	39	*	–	Tr	1·8
Tiree	45	44	43	–	–	2·0
Stornoway	40	32	32	0·1	–	2·7
Dalwhinnie	34	23	15	–	–	0·5
Aberdeen †	38	31	23	–	–	3·5
Wick	35	35	21	–	–	*
Sumburgh	43	40	37	1	7	0·2
Blacksod Point	47	44	*	–	–	*
Malin Head	41	40	*	Tr	Tr	0·0
Aldergrove	41	37	29	0·1	–	0·0
Birr Castle	45	39	32	–	–	0·0
Valentia Obsy.	50	45	40	Tr	0·2	0·0
Roches Point	49	46	*	Tr	1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE.

III	13h. G.M.T. 3rd December $C_L C_M$	$wwVhN_h$	DDFWN	18h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN	01h. G.M.T. 4th December $C_L C_M$	$wwVhN_h$	DDFWN	07h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN
109	87	10854	24987	42	02754	23557	5-	02756	55656	8-	01754	23554
115	52	02844	24227	54	02844	24526	52	02845	58588	31	81844	57487
203												
206	57	02851	24227	50	01863	26435	50	01861	22413	53	02854	22326
210	23	02951	21327	54	02862	20224	50	01863	20303	5-	02868	20318
220	33	02865	12216	52	02445	12218				52	02645	18226
230	53	01962	00013	5-	05664	00024	5-	05654	00028	52	05665	00028
245	03	01890	23214	53	02961	24227	04	01790	26111	50	05651	26201
260	03	05690	24114	07	01790	24111	00	00790	24100	5-	05567	24127
278	--	02966	10227	5-	08458	16368	50	17763	14107	--	48529	18229
279	03	05690	02224	00	08490	06101	50	08471	06101	5-	68648	07278
285				53	00857	32212						
288	03	01790	16123	00	05590	16200	00	08490	21200	5-	43368	18348
575	5-	05648	00028	5-	05648	00028	5-	05658	14228	5-	05658	16128
301				00	41450	10240	5-	48358	12248	5-	47248	14348
321	5-	47274	04144	00	47190	00040	--	46209	14359	--	46209	18249
299	54	01753	26214	00	00790	24100	00	08490	20200	5-	45258	24348
292	03	05690	00025	00	05690	21113	07	08490	00028	--	48609	00049
310				--	01633	08313				--	46109	20449
614	07	48290	00048	--	48209	06149	5-	45248	18248	--	48109	18249

III	13h. G.M.T. 3rd December $C_L C_M$	$wwVhN_h$	DDFWN	18h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN	01h. G.M.T. 4th December $C_L C_M$	$wwVhN_h$	DDFWN	07h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN
333	5-	05635	12268	5-	05648	08128	5-	05634	18264	52	05655	14228
334				--	01753	28214				--	04447	00028
340	5-	05588	12328	5-	45328	15248				3-	45228	14348
136	03	08490	21201	00	47390	00000	5-	41448	16248	53	51546	20228
336	52	41426	28248							--	46309	32349
350	02	57328	12178							5-	43345	14248
368	5-	05565	04357	00	45390	04120	--	48309	06309	--	46109	08149
379	5-	67248	12168				--	46009	12149			
390	--	45268	00048	5-	57248	12258	5-	43348	12248	5-	47348	12248
382	02	62548	12168	--	48309	08149	--	46109	00049	--	44309	12149
438	5-	05658	16228	3-	05648	16228	50	05653	12263	50	05663	12313
430	5-	08448	06128	53	05545	08125	5-	05546	04128	5-	05648	04128
409	84	02855	04125	4-	02765	10325	5-	05663	06303	40	51652	13414

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

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

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 4th December, 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 *	ofiroF	offcodo	doffcm	Kew 24 hours ended 7h.
Croydon	cmcfido of	cfocd ofm	ofid ycm	Max. Time 1·5 15/16 hrs 3rd.
Greenwich	coff	oid ff	oidcmm	Min. Time 0·1 21/4 hrs 4th
Camden Square	o	o	*	
Kensington	om fd	cod	*	
Hampstead	offr	od	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	40	37	36	0·6	Tr	0·0	*	*
Croydon	40	37	37	0·4	Tr	0·0	*	*
Greenwich	37	37	28	Tr	0·3	0·0	79	76
Westminster	43	37	34	0·3		*	81	87
Regents Park	42	36	32	0·4	–	*	81	83
Camden Square	38	38	31	0·3	–	*	*	86
Kensington	40	37	35	Tr	0·5	*	*	
Hampstead	37	33	32	0·3	0·2	*	*	93

Page 1 BRITISH SECTION

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

SECRET

Saturday 5th December 1942

No. 29598

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18·8	-22	SSE	2	zo	45	75	38	6	1	3	6	Tr	7-8	4000
	Croydon	19·6	-18	SSE	3	bc	47	65	37	6	5	4	5	Tr	4-6	7000
	S. Farnborough	18·7	-18	SSE	3	zo	46	75	38	6	7	-	4	2-3	4-6	2000
	Boscombe Down	17·8	-18	SEE	5	c	45	85	41	7	5	-	-	9+	9+	600
	Thorney Island	18·5	-18	SE	3	c-bc	47	65	36	7	5	3	2	Tr	7-8	2500
	Lympne	20·4	-22	SE	3	b-bc	43	65	30	8	-	3	1	0	2-3	-
	Manston	20·6	-18	SSW	4	b-bc	43	55	29	8	5	-	5	1	2-3	4000
2	Shoeburyness	21·1	-20	SSE	3	bc	45	65	35	7	-	-	2	0	4-6	-
	Felixstowe	20·9	-10	SW	3	bc	46	55	31	7	-	-	2	0	4-6	-
	Gorleston	20·6	-14	SSW	3	bc	44	65	34	7	5	3	-	2-3	4-6	1500
	Mildenhall	19·2	-18	SE	3	zo	46	65	35	6	-	3	2	0	4-6	-
	Cranwell	17·7	-18	S	3	zo	42	92	40	5	5	3	2	2-3	7-8	1000
3	Birmingham	16·7	-18	SSE	3	zo	44	92	42	6	5	-	2	2-3	4-6	800
	Upper Heyford	18·4	-14	SSE	3	zo	43	85	39	6	5	-	-	9+	9+	1200
4	Ross-on-Wye	16·2	-24	SSE	3	c	47	85	42	6	5	-	-	10	10	2000
5	Hartland Point	13·8	-20	SE	3	c	46	85	42	8	5	1	2	9	10	1900
	Bristol	17·0	-22	SE	3	c	47	85	42	7	5	-	-	10	10	2500
	Portland Bill	17·0	-12	SE	5	c-bc	48	92	46	8	2	-	-	7-8	7-8	4000
	Plymouth	15·0	-22	S'E	4	c	49	85	45	7	5	-	-	10	10	2500
	The Lizard	13·4	-26	SE	5	o	48	85	44	8	8	-	-	10	10	1500
	Scilly (St. Mary's)	11·6	-18	SE'S	5	iro	49	92	46	6	5	-	-	10	10	800
	Guernsey															
6	Pembroke	13·6	-10	SSE	6	cq	48	97	46	8	5	-	-	9	9	2000
7	Holyhead (Valley)	13·3	-24	SSE	6	c	47	85	43	7	7	3	8	2-3	9	2500
	Chester (Sealand)	15·3	-22	SEE	3	c	45	85	40	5	5	7	8	4-6	9+	1500
8	Manchester	16·7	-14	SSE	4	f-	42	97	41	2	-	-	-	10	10	<150
10	Spurn Head	18·1	-10	S'W	3	c	41	85	37	5	5	-	-	9	9	4000
	Catterick	16·4	-20	S	3		34	97	34		-	-	-	10	10	
	Tynemouth	15·7	-20	SW	3	cf	37	92	34	3	5	-	-	9+	9+	2800
11	St. Abbs Head	12·8	-20	SW	3	zo	38	97	38	5	5	-	-	10	10	3000
	Leuchars	11·8	-26	WSW	2	zo	39	85	34	5	5	7	-	9	10	3000
12	Renfrew (Abbots I.)	11·5	-32	-	0	of-	37	92	34	3	5	-	-	10	10	2500
	Eskdalemuir	13·8	-28	-	0	o	31	97	30	6	5	-	-	10	10	200
	Point of Ayre	12·2	-28	SSW	4	c	48	85	44	8	8	7	6	2-3	9+	1800
13A	Tiree	09·1	-18	S'E	4	c/f	47	85	42	7	5	7	-	4-6	10	1500
13B	Stornoway	06·7	-28	SSW	5	iro	46	85	40	8	5	7	-	9	10	2200
15	Dalwhinnie	09·0	-18	SW	2	c	38	85	34	6	5	2	-	9	10	2500
	Aberdeen	11·1	-18	SW'W	3	zo	41	75	33	6	5	-	7	2-3	9+	4000
	Wick	09·7	-18	SW'S	3	c	40	92	36	8	5	7	-	1	10	3000
16	Sumburgh	07·2	-16	SW	2	ido	45	92	43	8	5	-	-	10	10	600
17	Blacksod Point	04·2	-42	SSE	4	dodo	50	97	49	7	6	2	-	4-6	10	1500
18	Malin Head	06·7	-38	S'E	4	c	47	85	43	8	5	2	-	7-8	9+	1500
	Aldergrove	10·2	-26	S	3	c	48	85	44	6	5	2	-	9+	10	2000
19	*Birr Castle	07·9	-34	S	3	c	50	85	46	8	5	7	-	7-8	9	2500
20	Valentia Obsy.	05·4	-30	SSE	5	jr	51	92	49	6	6	-	-	10	10	1500
	Roches Point	08·7	-24	S'E	5	iro	51	92	49	7	6	2	-	4-6	9+	1500

OBSERVATIONS at 18h. G.M.T. 4th December — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Weather 7h.–13h. 4th (39)	Weather 13h.–18h. 4th (40)	Weather 18h. 4th to 1h. 5th (41)	Weather 1h.–7h. 5th (42)
London (Kew)	15·2	-16	SE	2	zo	39	75	31	6	-	4	1	0	1	-	1	*	cmobczo	czoybbzox	xbcczo	ccirormo
Croydon	16·7	-4	SSE	1	zo	39	75	31	6	-	7	3	0	4-6	-	1	*	cmbczo	cmo	cmobcmo	crrQR, roro
S. Farnborough	14·8	-20	SE	4	zo	39	65	30	6	-	7	-	0	1	-	1	*	cbcmozo	bcbzo	b,czobecmo	idocirormo
Boscombe Down	13·9	-30	ESE	4	zo	40	75	34	6	-	7	1	0	4-6	-	0	*	ofcmoc	cbcmo	bccroromo	cRRmo
Thorney Island	14·9	-20	ESE	2	zo	42	75	36	6	-	3	-	0	7-8	-	1	*	cmbcmo	bc	bccmoc	ccmo
Lympne	17·0	-18	SE	2	zo	39	65	28	6	-	4	2	0	4-6	-	1	§4	bcmoby	bycmo	bczo	bezomoido
Manston	17·0	-18	S'E	4	c	39	55	26	7	-	7	6	0	9	-	1	*	czobcy	c	cybcc	cbc
Shoeburyness	17·9	-14	S'E	3	b-bc	40	75	42	7	-	4	-	0	2-3	-	1	*	cmobcmobc	bc	bcmo	cmo
Felixstowe	17·2	-18	SSE	3	bc	42	65	32	7	-	7	2	0	4-6	-	0	3	bmob	bcybcc	bcmo cmo	cmoiromo
Gorleston	17·0	-24	SW'S	3	zo	39	75	32	7	-	7	-	0	4-6	-	0	3	cbzoc	cmmocm	bczo	ciro
Mildenhall	15·3	-22	SE'S	3	zo	38	75	29	6	-	4	8	0	7-8	-	1	*	ciro zocbc	bcczo	czobzoc	ciroc, cmromo
Cranwell	13·6	-24	SSE	3	m	36	97	35	4	-	-	6	0	4-6	-	2	*	ofcidocmo	cmobcmw	bmo, cmofg	cmorroro
Birmingham	12·3	-30	SSE	4	bc	41	92	39	6	5	7	-	2-3	4-6	1500	1	*	pfoirbc	bc	bco	oRr
Upper Heyford	14·9	-6	SE	2	zo	38	85	34	5	-	7	2	0	4-6	-	1	*	fcmobmc	cmobcmo	bccmoiro	croro cmo
Ross-on-Wye	11·8	-24	SE'S	4	c	44	75	38	6	5	1	-	9	10	2000	1	*	ofomc	c	ccro	orir
Hartland Point	09·4	-26	S	4	c	47	85	43	7	8	6	-	4-6	9	1500	1	3	bcc	c	ciroc	cirrr
Bristol	13·3	-20	SE	3	c	44	85	39	6	5	-	-	10	10	8200	1	*	c	ccmo	cmororo, ir	cmocroiR
Portland Bill	13·3	-10	SE	4	o	49	85	45	8	5	-	-	10	10	2500	4		c	co	oc	o
Plymouth	11·6	-16	SE	2	zo	49	85	45	6	5	7	-	4-6	9	2000	0	2	c	cmo	cdodomo	cdodormo
The Lizard	10·4	0	SSE	4	roro	49	97	48	7	5	-	-	10	10	900	1	4	co	coro	orro	oiro
Scilly (St. Mary's)	08·3	-10	S'E	4	c/f	51	97	51	6	5	2	-	7-8	10	500	1	4	ciro	ciro	cir	cir
Guernsey																					
Pembroke	08·5	-22	SSE	6	cq	50	85	45	7	6	2	-	9+	10	1500	1	4	cq	cq	cprq	crrqcq
Holyhead (Valley)	07·6	-30	S'E	6	c	48	85	42	6	5	-	-	10	10	2500	1	5	c	c	croroRR	Rbepro
Chester (Sealand)	10·1	-34	SSE	2	m	44	85	39	4	5	-	-	10	10	1800	0	*	cmo	momc	mororoc	cmopr
Manchester	11·6	-30	SE'S	4	m	43	85	39	4	5	-	-	10	10	2000	1	*	ciro ff	ffcbcm	roromo	cRr
Spurn Head	14·1	-20	S	4	zo	40	85	36	6	2	-	-	2-3	2-3	4000		3	fm	cmo	como	orr
Catterick	11·2	-28	SSE	2	F	39	97	39	1	-	-	-	10	10	<150	1	*	oFxof	ofe	oFFRRm	roroiromo
Tynemouth	11·7	-16	SSW	3	cf	38	97	37	3	5	-	-	9	9	2500	1	3	cff	cbccff	cfforoo	ofro
St. Abbs Head	07·9	-14	ESE	4	c	39	92	37	7	5	-	-	4-6	9	2500	0	3	ccmo	cprmobc	orrmo	omoirc
Leuchars	06·4	-34	-	0	c/f	40	97	39	5	5	7	-	2-3	9	2000	4	*	cmo	iromfcmo	cRRmcrrm	crrmcmbc
Renfrew (Abbots I.)	05·0	-38	SE'S	3	ido	43	97	41	5	5	-	-	10	10	2500	1	*	cfxc	froroido	cmrrroro	roroprcmo
Eskdalemuir	07·9	-34	WSW	2	F	36	97	35	1	-	-	-	10	10	<150	1	*	cormo	ofF	ofrm	oRrrcbc
Point of Ayre	06·5	-38	SSW	5	iro	48	85	44	7	6	2	-	7-8	10	1800	1	4	roroc	ciro	RRrr	rrbcb
Tiree	99·3	-54	S	6	rr	47	92	45	6	6	2	-	7-8	10	800	1	5	cirrc	coro orr	rrofrpr	cprrrmo
Stornoway	00·6	-20	SSW	5	iro	47	85	45	6	5	2	-	9	10	1000	1	*	ciro	cir	cmroro crrcro	cidomc
Dalwhinnie	05·0	-28	NNE	1	ido	38	92	36	6	5	-	-	10	10	1500	1	*	o	oid	*	oirc
Aberdeen	06·6	-26	SSW	3	m/r	39	85	35	4	6	2	-	4-6	10	1500	4	2	c	czozrocz	cororr	orroilo
Wick	04·5	-30	NW	3	iro	41	85	37	6	5	2	-	4-6	9+	2000	6	*	c	ccmoiro	cmocrr	cmorr
Sumburgh	04·0	-20	SW	4	c	45	85	42	8	5	2	-	9	10	900	1	2	cido	cidoiroc	ciroroo	croromo
Blacksod Point	00·6	-10	WSW	3	RR	47	97	46	7	6	2	-	4-6	10	800	2	3	d	d	bc	pr
Malin Head	97·9	-54	S'E	4	rr	47	92	45	6	-	2	-	10	10	1500	1	3	r	r	r	r
Aldergrove	02·7	-38	SSE	5	rr	47	92	44	6	5	-	-	10	10	2100	1	*	cmo	ccrr	crriro	circbcb
*Birr Castle	02·1	-24	S	4	ir	49	97	48	7	6	2	-	7-8	10	800	1	*	c	r		bc
Valentia Obsy.	03·3	-4	SW	3	irq	52	97	51	7	6	-	-	10	10	800	1	3	r	r	pr	pr
Roches Point	04·2	-18	SSW	5	dd	51	97	51	6	5	-	-	10	10	450	1	5	r	r	r	c

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

Districts	Forecast
1 S.E. England; 2 E. England	Moderate or fresh southwest wind soon veering west northwest; cloudy with rain at first, fair periods and occasional showers soon spreading east; rather cold today, ground frost tonight.
3 E. Midlands; 4 W. Midlands; 5 S.W. England; 6 South Wales ↓	Moderate or fresh west northwest wind; fair periods, showers especially in the west; rather cold today, ground 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 ↓	Fresh squally northwest wind, gale at exposed places at first, moderating; frequent squally showers, rather cold during day, moderate temperature at night.
13A W. Scotland ↓	Fresh or strong north to northeast wind, gale at exposed places at first, cloudy, frequent squally showers, rather cold during day, moderate temperature at night.
13B N.W. Scotland	As 15-16
14 Mid Scotland	As 13A.
15 N.E. Scotland ↓	Fresh northeast wind, cloudy, rather prolonged rain at first; rather cold.
16 Orkneys and Shetlands ↓	during day moderate temperature at night.
17 N. W. Ireland	As 20
18 N. E. Ireland ↓	As 7-10
19 S. E. Ireland ↓	As 3-6
20 S. W. Ireland	Moderate northwest wind backing southwest tomorrow; showers and bright intervals today, cloudy with rain tomorrow; mild.

GENERAL INFERENCE

A deep and complex depression over Scotland is moving east or east southeast and a trough of low pressure over east and south England is moving southeast; there will be rain at first in the southeast and rather prolonged rain in north Scotland, elsewhere there will be fair periods and showers; rain associated with a trough of low pressure in Mid-Atlantic is expected to reach West Ireland tomorrow forenoon.

FURTHER OUTLOOK

Unsettled; rain spreading from west to most districts.

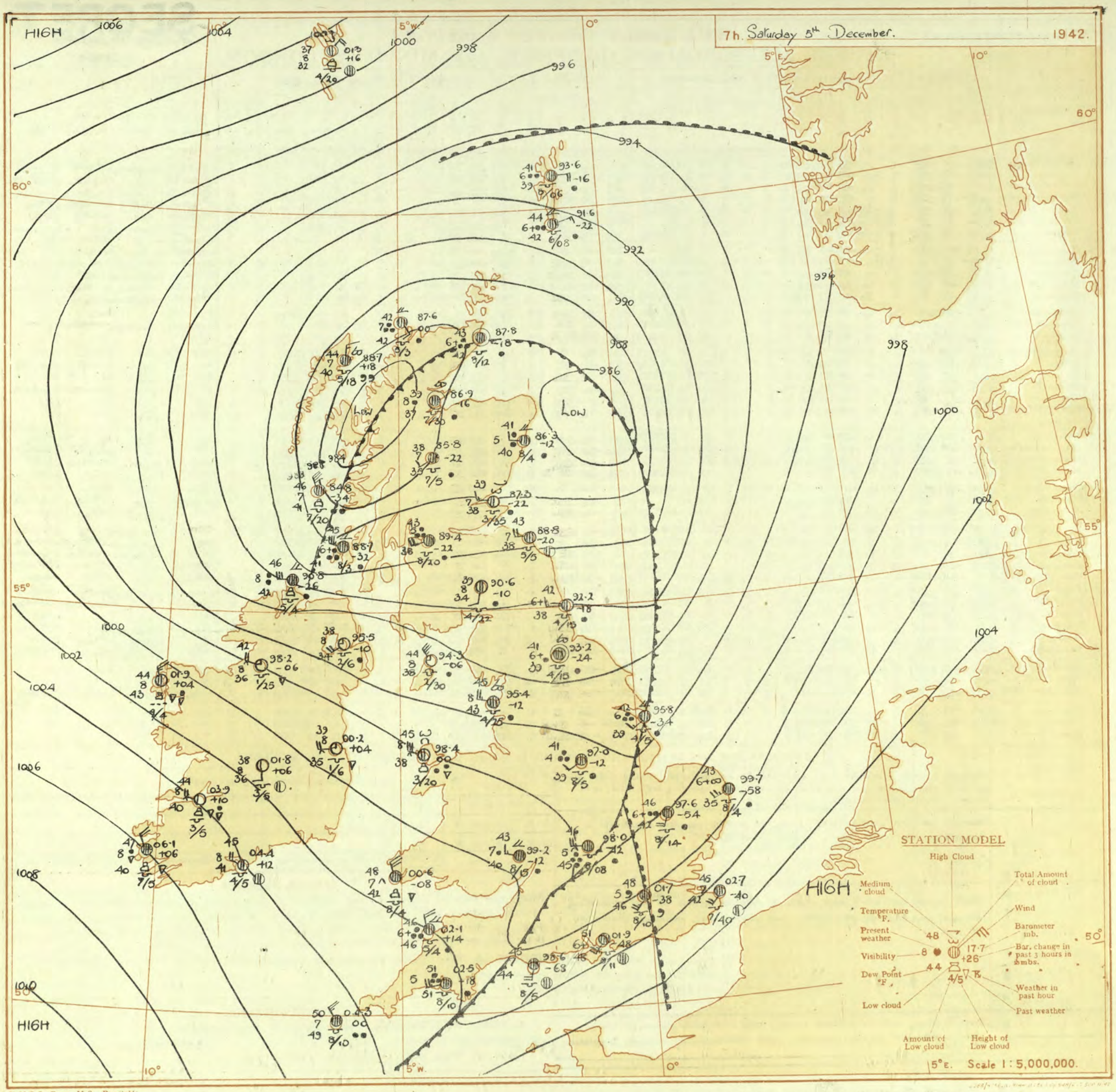
↓ Gale warning in operation districts 6, 7, 8, 10, 11, 12, 13, 15 part of 16, 18, 19, 17-30

Times of issue, 12·30 21·05 4/12. 08·30 - 5/12.

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).

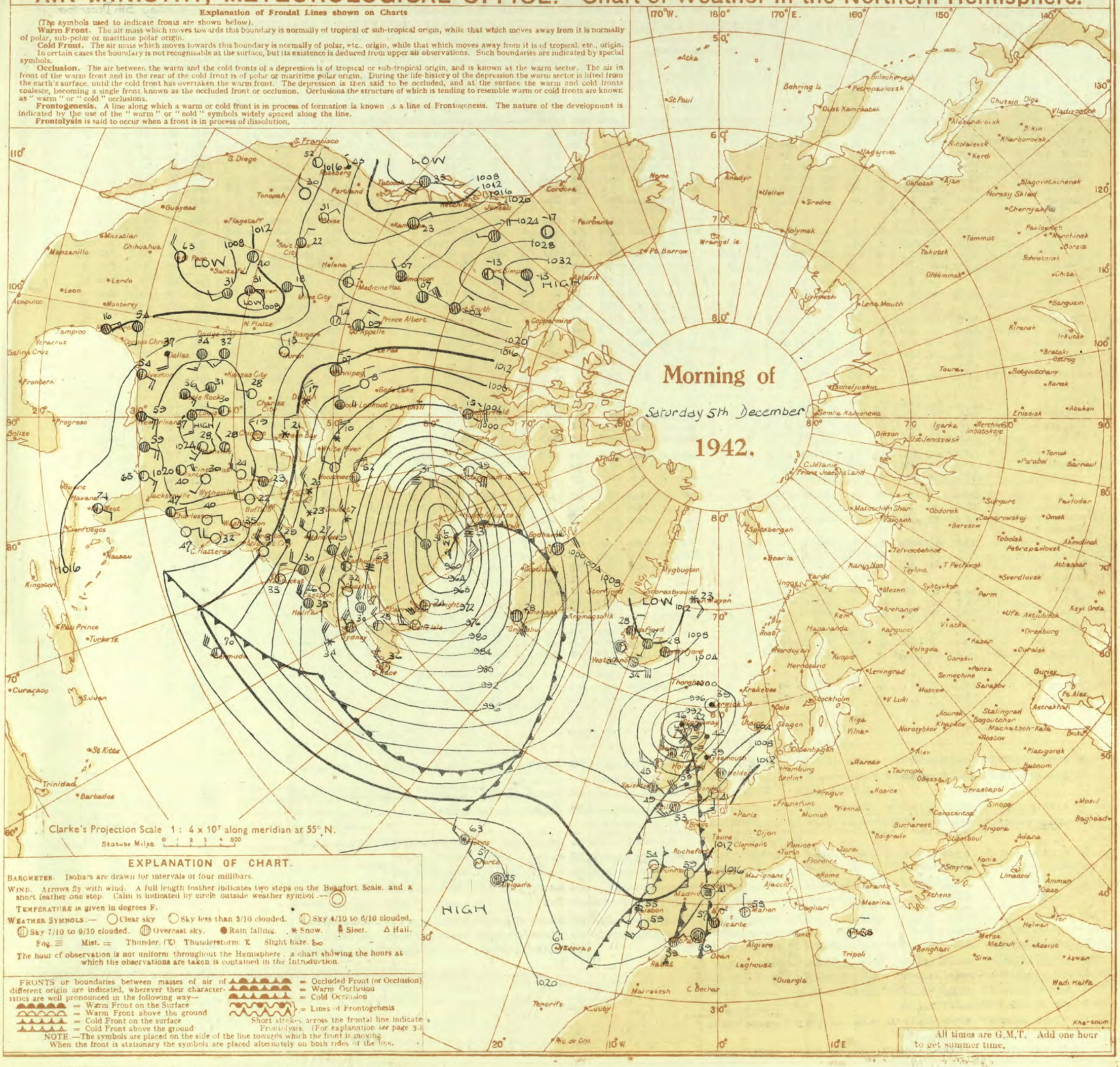
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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 5th December 1942

No 25958

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	41	*	*	*	*	*	*	*	*	*
	Croydon	290	09·0	-46	S'E	3	zo	41	75	34	5	5	-	-	2-3	2-3	5000
	S. Farnborough	226	07·7	-36	SSE	1	zo	42	85	37	6	5	7	-	9	10	4200
	Boscombe Down	417	07·8	-30	S'E	4	roro	45	92	42	6	5	2	-	9	10	3000
	Thorney Island	10	09·3	-34	SSW	3	c	48	75	40	7	5	-	-	10	10	4000
	Lympne	283	10·2	-38	SSE	3	zo	40	85	35	6	5	-	-	4-6	4-6	5700
	Manston	154	10·0	-40	S	4	c	39	75	32	7	5	-	-	9+	9+	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	09·2	-42	S	4	zo	42	75	34	6	5	7	-	4-6	9	5700
	Gorleston	5	09·2	-40	SW'S	5	zo	41	75	33	6	-	4	-	0	2-3	-
	Mildenhall	15	07·5	-38	S	4	e-bc	39	75	31	7	5	-	-	7-8	7-8	7100
	Cranwell	203	05·5	-38	S'E	4	ir	38	85	30	5	5	2	-	4-6	10	2500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	06·4	-40	S	2	roro	40	92	38	5	5	-	-	10	10	3600
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	03·3	-36	SW	5	o/r	51	97	51	6	5	2	-	7-8	9+	1500
	Bristol	209	06·9	-30	S'W	4	c	48	92	46	6	5	2	-	9	10	1800
	Portland Bill	32	08·4	-6	SSW	4	c	46	92	44	7	6	-	-	10	10	2500
	Plymouth	82	07·6	-22	SSW	4	dodo	51	97	51	4	5	-	-	10	10	1500
	The Lizard	240	07·1	-16	SW'S	5	o	53	97	53	7	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	05·8	-18	SW	5	o/r	53	97	53	6	5	-	-	10	10	800
	Guernsey	175															
6	Pembroke	142	02·4	-30	SW'W	7	RR	53	97	53	7	8	-	-	10	10	1500
7	Holyhead (Valley)	32	99·3	-36	W'N	6	RR	47	97	46	5	-	2	-	10	10	1100
	Chester (Sealand)	16	01·0	-42	SE	2	roro	44	92	41	6	5	-	-	10	10	2500
8	Manchester	235	01·3	-52	SSE	6	c/r	43	85	39	6	5	-	-	4-6	10	2100
10	Spurn Head	29	04·7	-46	S'E	5	oq	38	85	33	6	5	-	-	10	10	2500
	Catterick	175	00·0	-54	S'E	4	RR	42	97	37	4	-	-	-	10	10	<150
	Tynemouth	108	98·6	-54	SSW	4	roro	39	92	37	6	-	2	-	10	10	1500
11	St. Abbs Head	280	94·6	-72	S	4	ir	39	97	39	5	5	-	-	10	10	2500
	Leuchars	36	93·1	-70	S	4	ir	41	97	40	4	6	2	-	10	10	3600
12	Renfrew (Abbots I.)	19	93·1	-42	W'S	3	roro	44	92	42	4	6	2	-	9	10	1200
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	99·7	-42	NNW	5	rr	47	97	46	7	6	2	-	7-8	10	600
13A	Tiree	44	90·7	-26	W	6	ebc/pr	45	85	40	7	8	-	8	7-8	7-8	1500
13B	Stornoway	15	88·4	-54	SE	5	roro	46	92	44	6	5	-	-	10	10	800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	94·6	-60	S'W	4	rr	42	92	39	6	-	2	-	10	10	1100
	Wick	114	93·9	-50	S	4	rr	42	92	40	6	5	-	-	10	10	2200
16	Sumburgh	19	97·0	-38	S'E	3	roro	44	85	40	6	5	2	-	9+	10	600
17	Blacksod Point	18	00·6	+2	W	4	bc	45	97	44	8	9	-	-	4-6	4-6	1500
18	Malin Head	84	94·1	-12	WNW	5	c/r	47	75	39	8	6	2	-	7-8	10	1500
	Aldergrove	268	96·4	-10	SW'W	3	ir	43	97	43	8	5	-	-	10	10	2800
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	04·3	-2	NNW	4	c/pr	49	75	41	7	2	2	-	7-8	10	2500
	Roches Point	22	02·8	-6	W	4	c	49	92	47	8	5	-	-	9	9	1500

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

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)	99·0	-56	SSW	5	iro	48	92	45	6	5	-	-	10	10	1500	1	*
	Croydon	01·7	-38	SSW	5	ido	48	92	46	5	5	-	-	10	10	1000	1	*
	S. Farnborough	99·5	-46	SSW	5	iro	50	92	47	6	5	7	-	7-8	10	1100	1	*
	Boscombe Down	99·4	-52	SSW	6	RR	50	97	50	6	6	2	-	9+	10	500	1	*
	Thorney Island	01·9	-48	SSW	5	c	51	92	48	6	5	-	-	10	10	1100	0	*
	Lympne	03·1	-38	S'W	3	ido	46	92	44	6	5	-	-	4-6	9+	1500	1	§5
	Manston	02·7	-40	SSW	4	c	45	85	42	7	5	-	-	9+	9+	4000	1	*
2	Shoeburyness	02·2	-26	SSW	4	zo	45	92	43	5	5	-	-	9	9	4000	1	*
	Felixstowe	00·2	-50	SSW	4	iro	44	85	40	6	5	7	-	4-6	9+	4000	0	4
	Gorleston	99·7	-58	SW	5	zo	43	85	35	6	5	-	-	10	10	1500	1	4
	Mildenhall	97·6	-54	S'W	4	roro	46	85	42	6	5	-	-	10	10	1400	1	*
	Cranwell	96·7	-30	W	2	roro	45	92	41	6	6	2	-	9+	10	1200	1	*
3	Birmingham	98·1	-14	W	3	roro	43	92	41	5	6	-	-	10	10	800	1	*
	Upper Heyford	98·0	-42	W	5	RR	46	97	45	5	5	-	-	10	10	800	1	*
4	Ross-on-Wye	99·2	-12	W	3	iro	43	92	40	7	-	2	-	10	10	1500	1	*
5	Hartland Point	02·1	+14	NW	4	rr	46	97	46	6	5	2	-	7-8	10	1500	1	5
	Bristol	00·8	-16	W	4	rr	45	97	45	5	6	2	-	9+	10	800	2	*
	Portland Bill	98·6	-78	S	5	o	45	92	44	7	5	-	-	10	10	2500	*	4
	Plymouth	02·5	-18	WSW	5	rr	51	97	51	5	5	-	-	10	10	1000	1	3
	The Lizard	03·8	-8	W	6	c/r	52	97	52	6	5	-	-	10	10	1000	1	5
	Scilly (St. Mary's)	04·3	0	NW'W	5	o/r	50	97	49	7	5	-	-	10	10	1000	1	4
	Guernsey																	
6	Pembroke	00·6	-8	NW	6	cq	48	75	42	7	8	-	-	10	10	1500	1	5
7	Holyhead (Valley)	98·4	0	WNW	6	bc/pr	45	75	38	8	2	6	-	2-3	4-6	2000	1	4
	Chester (Sealand)	97·5	-12	NW	2	rr	45	85	40	5	6	2	-	7-8	9	2000	1	*
8	Manchester	93·8	-18	SW'S	5	ir	42	97	41	6	5	2	-	7-8	10	2100	1	*
10	Spurn Head	95·8	-34	SW'S	3	rr	42	92	39	6	5	2	-	4-6	10	2500	1	3
	Catterick	93·2	-24	-	0	iro	41	92	39	6	5	7	-	4-6	10	1500	1	*
	Tynemouth	92·2	-18	W	3	bc	42	85	38	6	5	-	-	4-6	4-6	2500	1	3
11	St. Abbs Head	88·8	-20	W	4	ebc	43	85	38	7	5	-	-	7-8	7-8	2500	0	3
	Leuchars	87·3	-22	W	3	bc	39	97	38	7	5	3	1	2-3	4-6	3500	2	*
12	Renfrew (Abbots I.)	89·4	-22	WSW	4	rr	43	85	38	5	5	-	-	10	10	2000	2	*
	Eskdalemuir	90·6	-10	S	2	bc	39	85	34	8	5	-	-	4-6	4-6	2200	1	*
	Point of Ayre	94·3	-6	NW'W	7	b	44	75	38	8	4	-	-	1	1	3000	1	5
13A	Tiree	84·8	-34	NW	8	c/r	46	85	41	7	8	-	-	9+	10	2000	1	7
13B	Stornoway	88·7	+18	N	3	c/d	44	85	40	7	5	7	-	7-8	10	1800	1	*
15	Dalwhinnie	85·8	-22	SW	2	c	38	92	35	7	5	-	-	9+	9+	2500	1	*
	Aberdeen †	86·3	-12	W'N	2	ir	41	92	40	5	-	2	-	10	10	1500	1	2
	Wick	87·8	-18	-	0	rr	43	97	42	6	5	-	-	10	10	1200	1	*
16	Sumburgh	91·6	-22	ENE	4	roro	44	92	42	6	5	2	-	9	10	800	1	3
17	Blacksod Point	01·9	+4	NW	5	bc/pr	44	97	43	8	9	-	-	4-6	4-6	1500	2	4
18	Malin Head	90·8	-26	W	6	ir	46	85	42	8	8	2	-	7-8	10	1500	2	4
	Aldergrove	95·5	-10	SW'W	4	b	38	85	34	8	5	-	-	1	1	4000	1	*
19	Birr Castle	01·8	+6	S	2	b-bc	38	92	36	8	5	-	-	2-3	2-3	2500	1	*
20	Valentia Obsy.	06·1	+6	NW'W	4	pr	47	75	40	8	8	-	-	9+	9+	2500	1	5
	Roches Point	04·4	+12	WNW	4	bc	45	85	41	8	5	-	-	4-6	4-6	2500	1	5

PAST 24 HOURS.

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

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 4th December $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 5th December $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	52	02755	17328	52	02655	16358	5-	62648	46468	5-	62558	04268
115	52	25845	53588	52	81845	16388	52	64735	12468	52	64735	12268
203							6-	66738	16468	5-	02838	08468
206	52	02853	24258	52	62757	22128	52	02855	10368	57	61867	00068
210	57	02865	20328	5-	22668	14268	52	02665	13468	02	62758	32168
220										51	02436	28768
230	5-	05658	00068	5-	21658	16258	62	61855	22467	62	62745	18367
245	30	05466	25118	5-	08458	00028	5-	64438	15568	57	05695	23266
260	5-	43368	00048	5-	05564	43424	5-	64468	49568	5-	01764	53234
278	52	22636	14368	5-	51638	47368	5-	22648	57468	54	01754	57564
279	57	08455	06177	57	04464	13247	02	64558	16668	50	21764	25364
285	03	05634	12326	5-	05527	18327				20	81624	26584
288	5-	45858	20248	5-	41448	48448	5-	62688	48568	5-	05665	18327
575	52	61735	14168	62	64626	14368	5-	62648	24468	50	01851	59481
301	57	05564	14427	5-	41467	14447	5-	64638	47568	57	01854	26465
321	--	44309	15149	54	05553	15443	57	62656	31528	06	64645	21308
299	5-	45148	24348	5-	41444	20441				5-	22548	24568
292	--	67109	14149	5-	43318	12246	02	64668	14868	57	05654	19226
310	--	46109	16349	--	02628	24428						
614	5-	41436	14146	00	08490	13438	52	62555	49468	5-	64458	20268

III	13h. G.M.T. 4th December $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 5th December $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	05	02790	15326	52	02753	47528	6-	66528	18568	5-	02754	26465
334	--	02744	16215	--	01752	20213						
340	--	44205	14248	5-	05548	16428	5-	02656	51468	50	64645	22267
136	53	05690	18327	07	05690	17324	53	05684	18526	02	64648	53568
336	57	02656	12828							57	22656	28468
350	50	05644	12325	04	08490	14221	5-	61568	14428	57	64646	51468
368	53	02747	10348	57	05554	10268	52	05537	14268			
379	5-	05048	14328	50	05654	14314	--	62548	47468			
390	00	05590	12245	00	08190	14213	03	05590	16444	5-	08438	49538
382	50	05646	14326	07	05690	14313	5-	62668	17368	5-	66548	35668
438	04	01790	14323	57	02753	52315	50	02763	24413	8-	05647	20487
430	53	05651	12324	04	05690	10224	53	05664	16326	5-	05638	16828
409				52	62766	14528	5-	05638	50558	5-	02658	58568

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 5th December
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 bczo	czoybbzx	xbccezo
Croydon	cmbczo	cmo	cm bcgr
Greenwich	bcbc	bc cb	bcrgRr
Camden Square	c	bc	*
Kensington	bc	bc	*
Hampstead	bc	bc	or

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0·5 Time 16-17h. 4th. Min. <0·1 Time 2-6h. 5th.

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h. % Yesterday	Humidity 9h % To-day
Kew	45	37	27	-	Tr	3·5	*	*
Croydon	48	38	34	Tr	-	6·1	*	*
Greenwich	47	37	28	-	9·4	4·7	68	93
Westminster	50	40	32	·	9·3		67	95
Regents Park	45	38	31	-	8·5	*	61	92
Camden Square	49	44	30	-	10·2	*	*	84
Kensington	47	38	27	-	8·0	*	77	96
Hampstead	45	37	32	-	11·5		*	97

Page 1 **BRITISH SECTION**

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

SECRET

Sunday 6th December 1942

No. 29599

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Med. (11)	High (12)	Amount Low 0–10 (13)	Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	99·2	+2	W	3	z.	46	75	38	6	8	4	-	7-8	7-8	2500
	Croydon	00·0	0	WSW	3	z.	47	85	43	6	2	-	-	4-6	7-8	500
	S. Farnborough	00·0	0	W	5	bc	46	75	40	8	7	7	-	4-6	4-6	1200
	Boscombe Down	01·4	+6	W	5	bc	46	65	36	8	1	-	-	4-6	4-6	2500
	Thorney Island	01·0	0	W	4	bc	47	75	41	7	5	7	-	2-3	4-6	2500
	Lympne	99·4	+16	WSW	2	c/d	43	97	43	7	9	2	-	9+	10	1700
	Manston	98·9	+10	WSW	3	z.	44	92	42	6	8	7	-	7-8	9+	800
2	Shoeburyness	99·4	0	W	2	bc	45	85	41	5	2	-	-	4-6	4-6	4000
	Felixstowe	96·5	-10	WSW	4	z.	45	85	41	6	5	-	-	4-6	4-6	1500
	Gorleston	94·7	-12	WNW	3	c-bc/r	44	85	41	6	5	3	-	4-6	7-8	1200
	Mildenhall	95·7	-6	W'S	5	bc	46	85	40	7	1	4	1	2-3	4-6	2500
	Cranwell	94·5	-10	W'S	5	c	43	75	37	7	5	7	-	7-8	9+	2500
3	Birmingham	97·1	-12	W	5	c-bc	44	65	33	8	5	2	-	2-3	7-8	1500
	Upper Heyford	97·7	-4	WSW	5	bc	46	65	36	8	1	3	1	4-6	4-6	2500
4	Ross-on-Wye	00·0	+4	W'S	4	bcq	46	55	30	8	1	4	-	4-6	4-6	3500
5	Hartland Point	03·8	+4	NW	5	c-bc	48	65	35	8	2	6	-	2-3	7-8	1500
	Bristol	02·1	+2	W	4	b-bc	46	75	40	8	1	-	-	2-3	2-3	2500
	Portland Bill	02·7	+2	WNW	5	c-bc	49	85	45	8	2	-	-	7-8	7-8	4000
	Plymouth	05·1	+8	NW	5	bc	49	65	43	8	7	-	-	4-6	4-6	2500
	The Lizard	06·1	+12	NW	5	c-bc	49	75	42	8	2	6	-	7-8	7-8	1500
	Scilly (St. Mary's)	06·9	+6	NW'W	4	bc	52	65	41	8	8	4	5	4-6	4-6	1200
	Guernsey															
6	Pembroke	03·3	+6	NW	5	bcq	48	75	39	8	1	-	5	4-6	4-6	3000
7	Holyhead (Valley)	97·0	-16	SE'S	7	c	47	75	40	8	8	7	-	2-3	9	2500
	Chester (Sealand)	94·8	-22	WNW	5	c	44	75	37	7	5	-	-	10	10	1500
8	Manchester	94·2	-22	SSW	5	rr	40	85	42	6	9	-	-	10	10	2000
10	Spurn Head	91·9	-20	SWW	3	c-bc	43	75	37	7	7	3	2	4-6	7-8	4000
	Catterick	87·5	-52	SSW	5	ir	40	85	35	8	5	-	-	10	10	1000
	Tynemouth	87·7	-30	SSW	3	pr	43	75	36	6	8	-	-	9	9	2500
11	St. Abbs Head	87·9	+4	W	4	c	39	92	36	7	5	4	-	9+	9+	3000
	Leuchars	87·4	+8	WNW	2	ir	41	97	40	7	5	-	-	9+	9+	2500
12	Renfrew (Abbots I.)	90·7	+58	WSW	2	c-bc	46	75	39	8	2	6	-	4-6	7-8	2500
	Eskdalemuir	86·6	-10	N'W	3	c	39	36	92	8	5	-	1	9	9+	1800
	Point of Ayre	90·8	-10	NNW	8	c-bcjp	49	85	44	8	8	-	-	7-8	7-8	1500
13A	Tiree	94·8	+36	N'W	5	bc/pr	47	85	43	7	8	6	8	2-3	4-6	2000
13B	Stornoway	95·4	+24	N	4	bc	46	85	42	8	8	6	-	4-6	4-6	1600
15	Dalwhinnie	91·0	+18	NW	3	pr	38	92	35	7	5	-	-	9+	9+	1500
	Aberdeen	86·4	0	NNW	4	r.r.	39	97	38	6	6	2	-	2-3	10	1000
	Wick	90·3	+18	NNE	5	ir.	45	85	42	7	5	-	-	10	10	1800
16	Sumburgh	91·8	+6	NE'E	6	ir.	42	85	39	8	6	2	-	7-8	10	1000
17	Blacksod Point	04·9	+14	WNW	4	c	48	97	47	8	8	-	-	10	10	4000
18	Malin Head	96·8	+38	N'W	6	c	49	85	45	8	6	2	-	7-8	9+	1500
	Aldergrove	95·1	+18	WNW	5	c/r	47	85	43	6	6	-	-	9+	9+	1000
19	Birr Castle	03·8	+10	WNW	3	c	47	75	40	8	5	-	-	9	9	2500
20	Valentia Obsy.	08·4	+10	NW'W	4	c	49	85	45	8	6	2	-	7-8	9+	1500
	Roches Point	06·6	+6	NNW	5	b-bc	48	75	41	8	3	-	1	1	2-3	2500

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

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)	99·9	-10	W'S	4	z.	46	65	35	6	5	-	-	4-6	4-6	4000	1	*
Croydon	01·2	+12	WSW	6	z.	45	65	34	6	5	-	1	4-6	4-6	3000	1	*
S. Farnborough	00·9	+10	WSW	6	bc	45	65	35	7	5	-	-	4-6	4-6	2500	1	*
Boscombe Down	03·1	+16	W	6	bc	45	75	36	8	5	-	-	4-6	4-6	3500	1	*
Thorney Island	03·5	+22	W	5	c-bc	46	65	36	8	5	-	-	7-8	7-8	3600	1	*
Lympne	99·7	+2	W'S	5	bc	42	75	34	7	-	3	1	0	4-6	-	1	§3
Manston	98·3	+2	W'S	5	bc	44	65	34	7	-	7	-	0	4-6	-	1	*
Shoeburyness	99·1	0	WSW	5	bc	45	75	36	6	5	-	-	4-6	4-6	4000	1	*
Felixstowe	95·5	-6	WSW	6	z.	45	65	36	6	5	-	-	10	10	4000	1	4
Gorleston	92·3	-14	WNW	5	r.r.	43	75	36	6	5	-	-	10	10	1500	1	3
Mildenhall	94·2	-2	W	6	c	46	75	38	8	5	-	-	10	10	2200	1	*
Cranwell	95·0	+30	NW'W	5	z.	46	75	37	6	5	-	-	4-6	10	4000	1	*
Birmingham	98·7	+18	W	5	ir.	46	85	42	7	6	-	-	10	10	800	1	*
Upper Heyford	98·9	+14	W	5	ir.	45	75	39	8	5	-	-	9+	9+	2200	1	*
Ross-on-Wye	01·8	+14	W'S	5	cq	48	65	39	8	5	-	-	9+	9+	3000		*
Hartland Point	07·0	+4	NW	5	c-bc	49	75	40	8	8	4	-	4-6	7-8	1500	0	5
Bristol	04·0	+16	W	6	c	45	85	40	7	5	-	-	9	9	3100	1	*
Portland Bill	05·0	+14	WNW	5	bc	48	85	44	8	5	-	-	4-6	4-6	4000	1	5
Plymouth	09·2	+22	WNW	3	b-bc	47	75	39	7	5	-	-	2-3	2-3	2000	1	3
The Lizard	09·9	+18	NW	6	bc	48	75	39	8	8	-	-	4-6	4-6	2000	1	4
Scilly (St. Mary's)	10·2	+22	WNW	5	c-bc	49	75	40	8	8	4	2	4-6	7-8	1000	1	4
Guernsey																	
Pembroke	07·9	+20	WNW	5	bbcq	49	75	39	8	2	-	-	2-3	2-3	2500	1	4
Holyhead (Valley)	02·4	+42	NW'W	7	bc	49	75	42	8	8	-	-	4-6	4-6	1500	1	5
Chester (Sealand)	98·3	+74	W'N	7	ir.	49	75	43	6	5	2	-	7-8	10	1000	1	*
Manchester	97·3	+42	W'N	5	z.	47	92	45	6	2	7	-	7-8	10	1700	1	*
Spurn Head	91·9	+44	WNW	6	cq	42	85	37	7	8	-	-	9+	9+	1500	1	5
Catterick	99·9	+40	NW	3	bc	43	75	36	7	5	4	-	4-6	4-6	2800	1	*
Tynemouth	92·1	+44	NNW	6	c	44	75	37	6	8	-	-	9+	9+	2600	1	3
St. Abbs Head	92·5	+32	WNW	5	c	45	85	40	7	5	-	-	10	10	2500	1	4
Leuchars	95·5	+38	WNW	2	id.	46	75	39	8	6	2	-	7-8	10	2500	1	*
Renfrew (Abbots I.)	98·8	+42	WNW	3	c-bc	44	85	39	8	5	-	-	7-8	7-8	2500	2	*
Eskdalemuir	96·1	+56	NW'W	5	c-bc	42	75	34	8	8	-	-	7-8	7-8	2300	1	*
Point of Ayre	97·8	+46	NNW	7	b	48	85	44	8	4	-	-	Tr	Tr	2000	1	5
Tiree	02·1	+38	NNW	4	b-bc	46	75	40	8	5	3	5	1	2-3	3000	1	4
Stornoway	01·1	+22	NNW	2	bc/pr	44	85	39	8	5	-	-	4-6	4-6	1800	1	*
Dalwhinnie	98·5	+42	N	3	bc	39	85	35	7	5	-	-	4-6	4-6	1500	1	*
Aberdeen	94·1	+54	NNW	4	ir.	43	85	38	7	5	-	-	7-8	7-8	2000	1	3
Wick	98·0	+46	NNE	6	c	42	92	40	7	5	-	-	10	10	1000	1	*
Sumburgh	97·6	+38	E'N	5	bc	39	65	28	8	5	-	-	4-6	4-6	2500	1	3
Blacksod Point	07·9	+22	WNW	3	c	48	97	47	7	8	-	-	9+	9+	1500	1	3
Malin Head	02·6	+46	N'W	5	bc	49	85	45	8	8	-	-	4-6	4-6	1500	2	4
Aldergrove	02·9	+46	WNW	5	c	46	85	41	7	5	-	-	10	10	4000	1	*
Birr Castle	08·1	+28	SSW	2	c-bc	45	75	39	8	5	-	-	7-8	7-8	2500	1	*
Valentia Obsy.	11·5	+22	WNW	3	pr	50	75	43	8	5	7	-	4-6	10	2500	1	3
Roches Point	10·1	+34	WNW	4	c	47	75	40	8	5	7	-	4-6	9	1500	1	4

PAST 24 HOURS.

Stations	Weather 7h.—13h. 5th (39)	13h.—18h. 5th (40)	18h. 5th to 1h. 6th (41)	1h.—7h. 6th (42)
London (Kew)	qRrcz.	bcebcz.	ccir.z.	cm.w
Croydon	cmr.r. cm	bcm.z.	cr.r.cm.ir.	cm.ir.cm.
S. Farnborough	cir.m.R bc	bc	bccr.z.m.	cbcm.c
Boscombe Down	cbc	bcebc	bcc	bc
Thorney Island	cm.rrbc	bcb	bcr.bc	bcbbc
Lympne	rm.iRhr	cbbc	bccbc	bccbc
Manston	cir.rrm.	bc	bcir.cm.	cb
Shoeburyness	cRR m.bcm.	bcm.bcz.	bcm.	bccpr
Felixstowe	crrm.bm.	cir.cm.	cir.m.cm.	cm.cbcm.
Gorleston	cr.r.c	cr.r.	or.ir.cq	cqc
Mildenhall	crrm.bc	bccir.c	ccir.c	cb,cbc
Cranwell	cm.or.r.bcm.	cir.bcm.	bcm.bm.	bcm.bm.
Birmingham	oirbc	cir.	or.c	cbc
Upper Heyford	crrm.bbc	bccir.	cir.bcc	cir.bcbc
Ross-on-Wye	r.cbbc	bcqcq	cqc	c
Hartland Point	rrcbcc	c	cbc	bcc
Bristol	cm.irbcb	bbcc	cdocbcm.	bcbm.
Portland Bill	c	cbc	bcc	bcc
Plymouth	cid.bc	bc	bccbbc	cidoc
The Lizard	c	cp-bc	bccbc	bcco
Scilly (St. Mary's)	bc	c	cbc	bcc
Guernsey				
Pembroke	bcq	prq	bcq	bcqc
Holyhead (Valley)	bcc	c	cbc	c
Chester (Sealand)	cm.berr	errir	m.c	cm.pr.c
Manchester	irpr.h	crrm.	cm.bcb	bcm.
Spurn Head	c	cq	c	bc
Catterick	bccir	bc	bcz.	bcz.m.
Tynemouth	bccp.	cpc	cbc	bcc
St. Abbs Head	cr.c	crp	oc	c
Leuchars	bccir	cir.cid.	cid.pr.c	cbcc
Renfrew (Abbots I.)	crrr.r.bcc	cpr.c	bcm.cm.	bcr.r.d.d.
Eskdalemuir	cirrrfc	cpr.bc	bc	bccpr
Point of Ayre	rr.r.r.y	cbcb	bbcc	cbbcc
Tiree	cirpr	cbc	bccir.	cr.bcc
Stornoway	cm.or.r.cbc	cpr.bc	bcbcw	bcwidom.z.e
Dalwhinnie	copre	cpr.bc	*	cidoo
Aberdeen	oir.scir.m.	cr.r.m.bcir.	bcid.c	bc
Wick	errir.	c	cbccbc	cbcc
Sumburgh	cm.or.r.ir.	cir.cbc	cpr.bc	bc
Blacksod Point	c	c	c	c
Malin Head	r	pr	d	d
Aldergrove	bbccr.r.m.c	bcc	cbcb	bcid.c
Birr Castle	c	c	*	c
Valentia Obsy.	pr	pr	pr	d
Roches Point	bc	bc	c	d

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 6th December 1942

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Light to moderate west to southwest winds; bright intervals at first, cloudy later with slight local rain; rather cold becoming mild.
4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England	Moderate to fresh west to southwest winds; cloudy with slight local rain or drizzle, more especially on coasts; mild.
9 N. Midlands; 10 N.E. England; 11 S.E. Scotland; 12 S.W. Scotland & Isle of Man	Light west to southwest wind, freshening; cloudy with slight local rain or drizzle; rather cold becoming mild.
13A W. Scotland ✝; 13B N.W. Scotland ✝; 14 Mid Scotland; 15 N.E. Scotland	Freshening southwesterly winds, increasing to gale locally on coasts; cloudy with periods of rain, local showers and bright intervals later; mainly mild, but cold in the Northeast at first.
16 Orkneys and Shetlands ✝; 17 N.W. Ireland	As 13A-15.
18 N.E. Ireland; 19 S.E. Ireland; 20 S.W. Ireland	As 4-8.

GENERAL INFERENCE

A depression South of Iceland and another in mid Atlantic are both moving northeast. It will become mild generally with much cloud and with slight local rain or drizzle in the South but with periods of more general rain in the North.

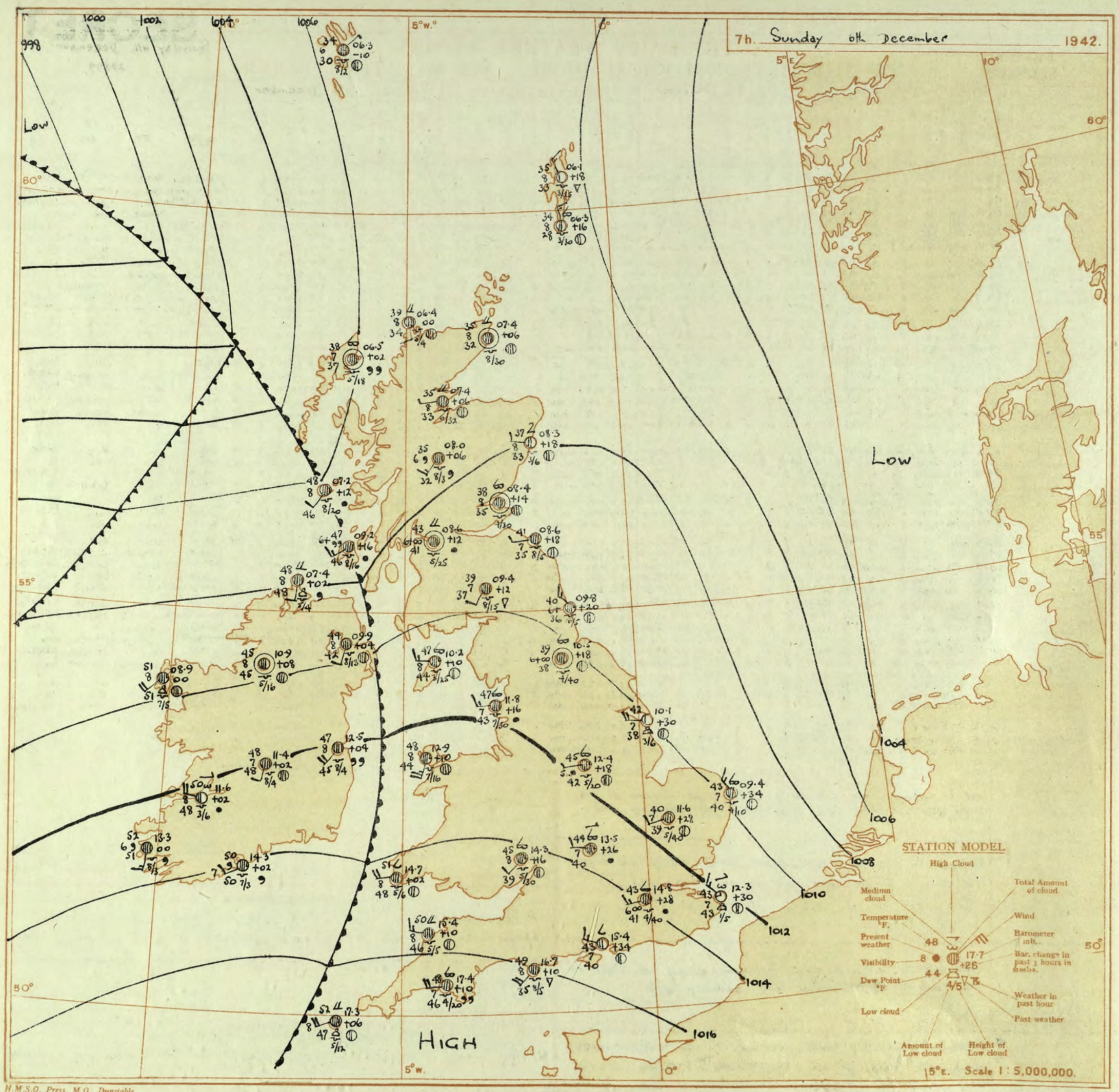
FURTHER OUTLOOK

Mild unsettled Southwesterly type.

✝ Gale warning in operation in districts 13(A+B) + 16. Time of issue 1200h on 6·12·42

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.

8.369/8372. M.3144. D.2560. 6p.344/2.7380. 12/42.

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).

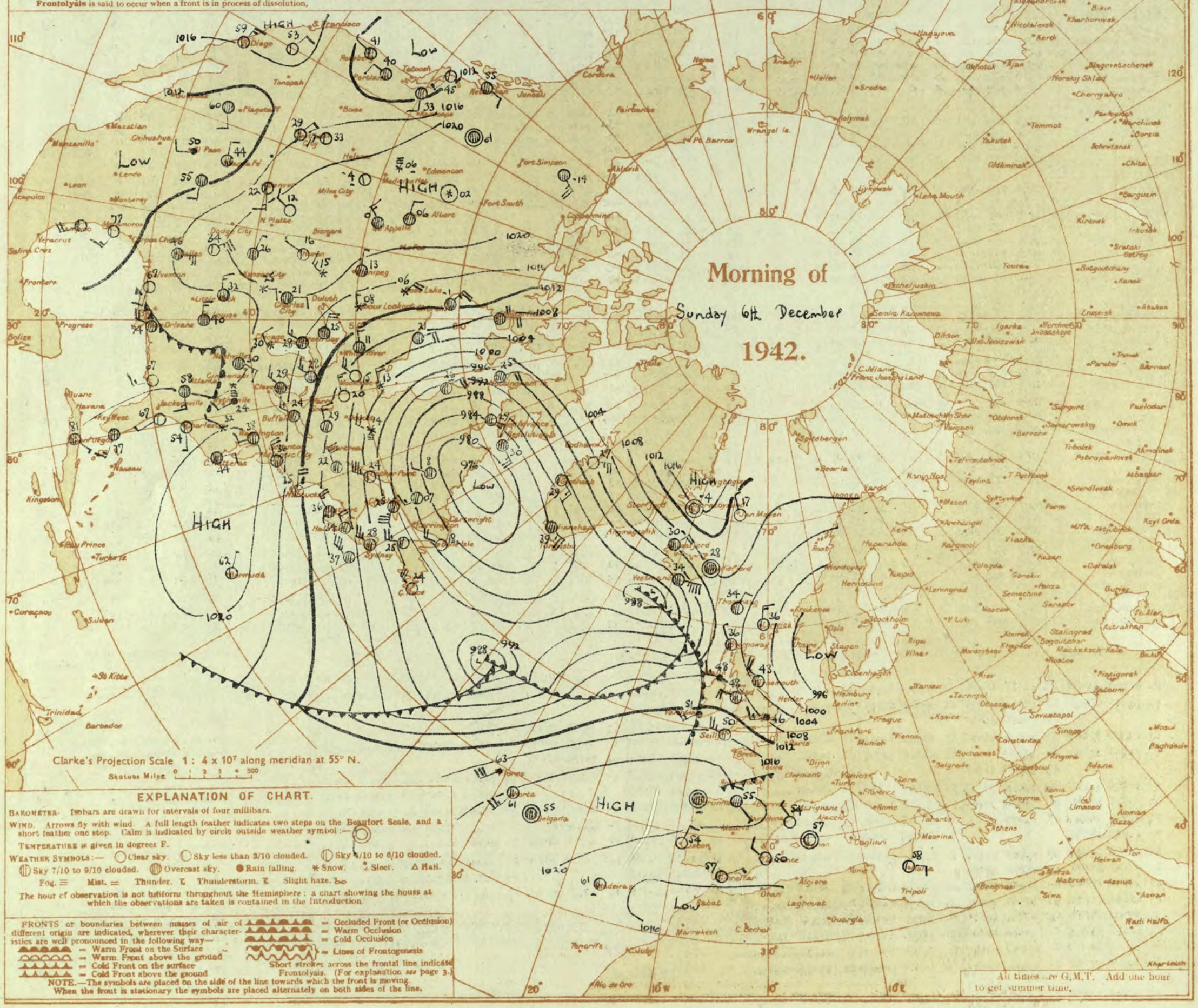
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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 3/10 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 6th December 1942

No. 29599

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Med. (11)	High (12)	Amount Low 0–10 (13)	Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	47	*	*	*	*	*	*	*	*	*
	Croydon	290	08·3	+10	W	3	ifo	46	85	42	6	5	-	-	7·8	10	1900
	S. Farnborough	226	08·6	+30	W'S	4	Zo	45	85	40	6	5	7	1	7·8	9+	3500
	Boscombe Down	417	09·5	+20	W	5	c	45	85	40	7	5	2	-	4·6	9+	5000
	Thorney Island	10	08·7	+18	WNW	4	e-bc	46	85	41	7	-	3	-	0	7·8	-
	Lympne	283	06·3	+30	WNW	4	b-bc	43	85	40	7	5	-	-	2·3	2·3	4000
	Manston	154	05·4	+34	NW'W	4	c	46	85	41	7	5	-	-	9+	9+	3000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	03·9	+36	W'N	5	Zo	46	75	39	6	5	-	-	10	10	2500
	Gorleston	5	01·4	+38	NW'N	4	Zo	45	75	38	6	5	-	-	9+	9+	1500
	Mildenhall	15	04·4	+38	W'N	5	c	46	75	39	7	5	-	-	9	9	4800
	Cranwell	203	05·3	+46	WNW	3	Zo	43	85	38	6	5	-	-	1	1	3500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	07·2	+30	W'N	5	ifo	46	85	41	7	5	-		10	10	2800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	12·2	+18	NN'W	4	bc	49	75	42	8	1	-	-	4·6	4·6	2500
	Bristol	209	10·4	+20	WSW	4	Zo	45	85	42	6	5	3	-	2·3	2·3	4000
	Portland Bill	32	10·8	+14	WSW	5	e-bc	49	85	45	6	5	-	-	7·8	7·8	2500
	Plymouth	82	14·3	+18	W'S	4	e-bc	46	85	42	7	5	-	-	7·8	7·8	2500
	The Lizard	240	14·6	+10	NW'W	4	bc	49	85	45	8	8	-	-	4·6	4·6	2000
	Scilly (St. Mary's)	163	14·6	+8	WNW	5	bc	50	85	45	8	8	-	-	4·6	4·6	1500
	Guernsey	175															
6	Pembroke	142	13·3	+8	SW	4	b-bcq	49	75	42	8	-	4	-	0	2-3	-
7	Holyhead (Valley)	32	09·6	+30	WNW	4	bc	47	85	43	8	5	-	-	4·6	4·6	3800
	Chester (Sealand)	16	07·5	+30	WNW	3	Zo	48	85	43	6	5	7	-	7·8	10	3900
8	Manchester	235	06·7	+30	W	3	bc	44	92	42	7	4	-	1	4·6	4·6	2500
10	Spurn Head	29	02·2	+44	WNW	5	c	44	75	38	7	7	-	-	9	9	1500
	Catterick	175	04·9	+38	WNW	2	Zo	43	75	35	6	5	1	8	1	4·6	4000
	Tynemouth	108	02·5	+36	NNW	4	bc	43	75	36	6	2	-	-	4·6	4·6	2500
11	St. Abbs Head	280	03·5	+38	N	4	ebc	43	85	38	7	5	-	-	7·8	7·8	2500
	Leuchars	36	04·8	+38	WNW	2	c	38	92	34	8	4	7	5	2·3	9+	2500
12	Renfrew (Abbots I.)	19	05·8	+26	SW	1	Zo	43	85	38	6	5	1	-	7·8	10	4000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	07·0	+26	NW	5	e	49	92	47	8	8	*	6	7·8	9+	2000
13A	Tiree	44	05·6	+12	SW	1	ifo	45	92	43	7	5	-	-	10	10	2000
13B	Stornoway	15	05·8	+22	NNW	1	bc	36	97	35	8	8	-	-	4·6	4·6	2200
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	03·7	+30	NW'N	3	c	38	85	33	6	5	-	-	9	9	2500
	Wick	114	04·6	+24	-	0	bc	37	85	34	8	5	-	-	4·6	4·6	3000
16	Sumburgh	19	03·3	+20	N'W	3	bc	35	85	31	8	5	-	-	4·6	4·6	3000
17	Blacksod Point	18	08·7	+2	W	2	c/r	51	97	50	8	8	-	-	9	9	1500
18	Malin Head	84	06·6	+18	W	3	id	48	85	44	8	8	2	-	7·8	10	1500
	Aldergrove	268	08·4	+22	W	3	b-bc	44	85	40	8	5	-	-	2·3	2·3	3500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	13·2	+10	SW'S	3	dodo	51	92	49	6	5	-	-	9+	9+	1500
	Roches Point	22	13·6	+16	W	2	c	44	85	40	8	5	2	-	9	9	1500

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

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)	14·4	+28	SW'W	2	Zo	43	92	41	6	-	5	1	0	7·8	-	1	*
Croydon	14·8	+28	NSW	3	Zo	43	92	41	6	5	7	-	4·6	9	4000	1	*
S. Farnborough	14·6	+26	NSW	3	c	43	92	40	8	-	7	-	0	9+	-	1	*
Boscombe Down	15·4	+26	WSW	4	b-bc	41	92	39	8	5	7	-	1	2·3	2500	0	*
Thorney Island	15·4	+34	WNW	3	bc	43	85	40	7	-	4	-	0	4·6	-	1	*
Lympne	13·7	+34	W'N	3	bc	41	92	39	7	-	4	2	0	4·6	-	1	*
Manston	12·3	+30	NW'W	3	b	43	92	43	7	2	3	1	Tr	1	2500	1	§ *
Shoeburyness	12·5	+22	WNW	3	bc	43	85	39	6	-	4	1	0	4·6	-	1	*
Felixstowe	11·6	+34	W'N	3	Zo	43	85	39	6	-	4	-	0	2·3	-	1	3
Gorleston	09·4	+34	NW'N	3	ebc	43	75	36	7	5	7	-	4·6	7·8	1000	1	3
Mildenhall	11·6	+28	W'S	2	e-bc	40	97	39	7	5	-	-	7·8	7·8	4000	1	*
Cranwell	11·1	+22	W	3	Zo	41	92	39	6	5	3	2	Tr	4·6	3500	1	*
Birmingham	13·2	+18	W	2	ebc	43	85	39	7	-	7	-	0	7·8	-	0	*
Upper Heyford	13·5	+26	W'N	2	c	44	85	40	7	-	7	8	0	9	-	1	*
Ross-on-Wye	14·3	+16	SW	2	c	45	75	39	8	5	7	-	7·8	9+	3000	1	*
Hartland Point	15·4	+10	WNW	3	c	50	85	36	8	5	2	-	7·8	10	2500	1	4
Bristol	16·0	+20	WSW	2	Zo	44	85	41	6	5	7	-	2·3	9+	4000	1	*
Portland Bill	16·7	+10	SW	4	c	49	65	35	8	5	-	-	10	10	2500	1	4
Plymouth	17·4	+10	W'S	4	e-bc/d	48	92	46	7	5	7	-	4·6	7·8	2000	1	3
The Lizard	17·5	+12	E	2	o	50	92	48	7	5	-	-	10	10	1000	0	3
Scilly (St. Mary's)	17·3	+6	W'S	4	c	52	85	47	8	8	2	-	7·8	10	1200	1	4
Guernsey																	
Pembroke	14·7	+2	W	4	ebc	51	85	48	8	5	4	-	7·8	7·8	4000	1	4
Holyhead (Valley)	12·9	+10	SSW	5	c	48	85	44	8	5	-	-	9+	9+	1600	1	4
Chester (Sealand)	12·0	+12	W	1	c	46	75	40	7	-	7	7	0	9+	-	1	*
Manchester	11·9	+18	WSW	3	bc	44	92	42	7	5	3	-	4·6	4·6	2500	1	*
Spurn Head	10·1	+30	W'N	4	b-bc	42	85	38	7	2	-	-	2·3	2·3	4000	0	4
Catterick	10·5	+18	-	0	Zo	39	97	38	6	5	7	-	4·6	7·8	4000	1	*
Tynemouth	09·8	+20	NW	3	c	40	85	36	6	5	-	-	9	9	2500	1	3
St. Abbs Head	08·6	+18	W	1	c	41	85	36	7	5	-	-	10	10	2500	0	3
Leuchars	08·4	+14	-	0	c	38	92	35	8	5	7	-	4·6	10	3000	1	*
Renfrew (Abbots I.)	08·6	+12	-	0	Zo	43	92	41	6	5	2	-	7·8	10	2500	1	*
Eskdalemuir	09·4	+12	SW	2	c	39	92	37	7	5	-	-	10	10	1500	1	*
Point of Ayre	10·2	+10	W'N	3	c	47	85	44	8	5	7	-	2·3	9+	2500	1	3
Tiree	07·2	+12	SW	2	c	48	92	46	8	5	-	-	10	10	2000	1	2
Stornoway	06·5	+2	-	0	r/d	38	97	37	7	5	7	-	7·8	10	1800	1	*
Dalwhinnie	08·0	+6	SW	3	ido	35	92	32	6	5	-	-	10	10	800	1	*
Aberdeen †	08·3	+18	WNW	2	bc	37	85	33	8	5	-	6	2·3	4·6	4000	1	2
Wick	07·4	+6	-	0	c	35	92	32	8	5	2	-	10	10	3000	1	*
Sumburgh	06·3	+16	N'W	3	bc	34	75	28	8	5	7	-	2·3	4·6	3000	3	3
Blacksod Point	08·9	0	SW	4	c	51	97	50	8	8	-	-	9+	9+	2500	1	3
Malin Head	07·4	+2	S'W	2	c	48	97	47	8	8	2	-	7·8	10	1500	2	3
Aldergrove	09·9	+4	SSW	2	c	44	92	42	8	5	-	-	10	10	1300	1	*
Birr Castle	11·4	+2	SSW	2	c	48	97	48	7	5	-	-	10	10	1500	1	*
Valentia Obsy.	13·3	0	S'W	3	ido	52	97	51	6	5	-	-	10	10	800	1	4
Roches Point	14·3	+2	WSW	2	ido	50	97	49	7	5	-	-	9+	9+	800	1	4

PAST 24 HOURS.

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

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 5th Dec. $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 6th Dec. $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	52	51745	02668	52	02755	35658	50	02844	03454	51	02753	26116
115	82	02745	08467	82	02845	32488	52	25845	08387	52	02845	16228
203				6-	03848	32528						
206	53	02845	32467	57	21854	28455	53	02863	26125	52	02866	24128
210	62	22745	32468	57	05665		51	02764	30218	53	02863	16128
220				50	01645	29215				52	03645	15268
230	83	02855	30225	80	01852	28512	5-	02858	26288	5-	22858	00058
245	51	61755	21636	3-	25646	30386	50	01754	22184	57	02764	24116
260	57	02763	24265	57	02754	61325	52	05664	28228	52	05655	28228
278	8-	02846	59966				8-	81648	27488	5-	02754	22388
279	54	02746	61467	57	02655	61426	50	01754	22314	7-	05645	22325
285	6-	69527	24577	23	01744	32574						
288	52	64645	51468	5-	17658	58468	00	05690	26320	52	05665	18228
575	8-	25846	61586	8-	25847	61487	52	21846	24358	50	01845	00025
301	9-	64625	57788	50	05661	28561	50	02763	59316	57	02767	24368
321	52	05665	22468	5-	05665	26465	50	05663	25313	57	05665	15115
299	36	05654	22414	8-	02647	22427	80	14744	24614	40	02654	24314
298	52	62845	52568	5-	02856	59466	50	01964	26444	51	02764	24126
310												
614	57	05644	22966	5-	22546	26466	5-	05666	57316	57	61555	24127

III	13h. G.M.T. 5th Dec. $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 6th Dec. $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	5-	02855	56628				5-	02753	59415	53	02765	22328
334	--	56537	28558									
340		81856	59527	5-	81758	28488	53	01764	30314	53	01764	24214
136	20	05652	55464	5-	02747	58668	5-	02767	59527	50	01763	28213
336	23	01753	28614	62	81546	28688						
350	24	02854	58565	5-	25846	57688	5-	02764	24417	50	01754	24314
368	20	01954	57564				57	01954	57404	52	02754	24151
379	23	01843	57614	5-	02847	59527	5-	05668	24368	5-	02765	24425
390	10	05655	57465	5-	61668	57528	5-	05678	57528	50	05663	24413
382	53	01853	58525	57	02858	58428	5-	02868	26328	07	02890	26317
438	87	02745	24516	10	02753	24613	50	02745	22515	57	02753	24325
430	5-	01763	22423				53	02763	28427	04	01790	26314
409	10	01854	26514	44	01854	28414	20	0853	59403	5-	51748	25458

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 6th December
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	qRrcz.	bcebez.	cir. z. cm. w
Croydon	cm. r. r. cm	bcm. z.	er. r. cm. r.
Greenwich	rc	beyc	cbcm
Camden Square	or	c	*
Kensington	bc	obc	*
Hampstead	orbc	bc	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·2 Time 9-10h 5th. Min. <0·1 Time 0-5h 6th.

Stations	Temperature Day Max °F	Night Min °F	Min on grass °F	Rainfall Day mm	Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	9h % To-day
Kew	48	43	36	9	Tr	3·1	*	*
Croydon	50	43	40	11	0·2	2·8	*	*
Greenwich	47	42	35	2	-	2·0	57	89
Westminster	50	42	34		1		77	91
Regents Park	47	43	39	1	-			90
Camden Square	47	43	39	1	-	*	*	90
Kensington	49	43	35	1	Tr		65	90
Hampstead	45	40	35	1	-		*	94

SECRET

Monday 7th December 1942

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

No. 29600

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	17.4	0	SW	2	Z_0	47	75	41	6	0	3	6	0	9	-
	Croydon ...	17.8	+2	SW'W	2	Z_0	50	75	41	6	-	5	6	0	9+	-
	S. Farnborough	17.4	-1	SW'W	3	c-bc	50	75	42	7	-	7	-	0	7-8	-
	Boscombe Down	18.1	+2	SW'W	3	c	49	85	43	8	5	9	1	4-6	9+	2500
	Thorney Island	18.1	+2	W'S	2	c	50	75	43	7	-	7	-	0	9	-
	Lympne ...	17.8	+6	WNW	2	Z_0	48	75	42	6	-	-	2	0	7-8	-
	Manston ...	16.9	+10	WNW	3	Z_0	49	75	41	4	-	7	6	0	7-8	-
2	Shoeburyness ...	17.2	+10	W	2	m	48	85	43	4	-	8	1	0	Tr	-
	Felixstowe ...	15.9	+6	W	2	Z_0	49	75	42	6	5	-	6	2-3	4-6	2500
	Gorleston ...	14.5	+6	NW	2	Z_0	48	75	40	6	-	7	-	0	4-6	-
	Mildenhall ...	15.4	+2	WSW	4	c-bc	49	75	42	7	5	3	2	1	7-8	5000
	Cranwell ...	14.1	0	W'S	3	Z_0	47	85	43	6	-	7	-	0	9	-
3	Birmingham ...	14.6	0	SSW	2	c-bc	48	85	44	7	-	5	-	0	7-8	-
	Upper Heyford	16.1	+2	WSW	3	c	48	75	42	7	-	7	8	0	9	-
4	Ross-on-Wye	15.8	-6	SW	3	Z_0	51	75	44	6	7	5	-	2-3	4-6	3000
5	Hartland Point	16.5	-10	WSW	4	ir	51	97	50	7	5	4	-	9	9+	800
	Bristol ...	17.6	-2	SSW	3	c	50	85	46	7	5	4	-	9	9+	1500
	Portland Bill ...	18.5	+4	W	4	c	51	92	49	8	5	4	-	4-6	10	4000
	Plymouth ...	19.5	+2	W'S	4	c/+	51	97	51	6	5	7	-	7-8	9+	1000
	The Lizard ...	19.1	+2	W	4	0	52	92	50	8	5	-	-	10	10	1000
	Scilly (St. Mary's)	18.5	-4	SW	4	c-bc	52	85	51	8	8	4	3	4-6	7-8	1200
	Guernsey ...															
6	Pembroke ...	15.8	-6	WSW	5	id_0	51	97	51	6	5	-	-	10	10	2500
7	Holyhead (Valley)	12.9	-4	SSW	5	ir_0	52	85	49	8	5	7	-	9	10	2500
	Chester (Sealand)	13.1	-8	SW	1	c	55	75	46	8	5	3	6	7-8	9+	3000
8	Manchester ...	13.7	-2	SSE	3	Z_0	48	85	44	6	5	-	-	9+	9+	2500
10	Spurn Head ...	13.5	+2	S'W	2	Z_0	45	85	41	5	5	3	2	2-3	4-6	4000
	Catterick ...	11.6	-12	SSE	1	Z_0	45	85	41	5	5	7	-	4-6	9+	3200
	Tynemouth ...	11.4	-6	SW	2	m	45	85	41	4	5	-	-	9+	9+	2800
11	St. Abbs Head	08.5	-16	SSW	3	c	41	92	40	7	5	4	-	7-8	9+	3000
	Leuchars ...	08.4	-10	-	0	c/d	41	85	38	6	5	-	-	10	10	1200
12	Renfrew (Abbots I.)	00.8	+4	SW'S	3	Z_0	47	92	45	6	-	2	-	10	10	600
	Eskdalemuir ...	09.9	+9	S	2	0	41	97	40	6	5	-	-	10	10	220
	Point of Ayre...	10.5	-6	W'S	4	c	51	92	48	8	2	7	7	1	10	2500
13A	Tiree	05.3	+0	S'W	4	c	49	97	47	7	6	2	-	7-8	10	1200
13B	Stornoway ...	02.6	+4	SSW	6	r_0r_0	49	92	48	6	5	2	-	7-8	10	800
15	Dalwhinnie ...	06.5	-2	SW	3	ir_0	41	97	40	7	5	-	-	10	10	1500
	Aberdeen ...	08.3	+4	S'W	3	Z_0	41	75	33	6	5	5	7	2-3	7-8	4500
	Wick ...	06.7	-18	SSE	4	c	43	65	33	9	5	1	-	7-8	10	4000
16	Sumburgh ...	07.2	-6	E'N	1	c	35	85	30	9	-	7	5	2-3	9	3000
17	Blacksod Point	06.5	-10	WSW	3	d_0d_0	52	97	51	7	-	2	-	10	10	800
18	Malin Head ...	04.9	-12	SSW	5	c	50	85	46	8	8	-	-	10	10	1500
	Aldergrove ...	08.8	-4	SSW	3	c	49	85	45	8	5	1	-	10	10	800
19	Birr Castle ...	09.9	-4	SSW	4	c	55	85	51	8	5	2	-	7-8	10	2500
20	Valentia Obsy.	12.7	-6	SSW	4	d_0d_0	53	97	52	6	5	-	-	10	10	800
	Roches Point	14.4	-6	SW	4	dd	52	97	51	5	5	-	-	10	10	450

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

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)	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)	18.4	+12	SW	2	Z_0	47	85	42	6	5	-	-	10	10	2500	1	*
	Croydon ...	19.2	+12	S	2	Z_0	50	75	44	5	5	-	-	10	10	3500	1	*
	S. Farnborough	18.7	+8	SW'W	3	c	50	85	46	7	5	-	-	10	10	2400	1	*
	Boscombe Down	18.4	+2	SSW	3	c	49	92	47	8	5	-	-	10	10	1000	0	*
	Thorney Island	19.1	+10	W'S	3	c	50	92	48	7	5	-	-	10	10	2600	1	*
	Lympne ...	19.5	+4	SW	1	Z_0	44	92	42	6	-	7	-	0	4-6	-	1	3
	Manston ...	19.8	+2	SW'S	3	Z_0	44	85	39	6	-	7	-	0	9	-	1	*
2	Shoeburyness ...	19.7	+6	W	2	Z_0	46	85	42	5	-	3	-	0	7-8	-	1	*
	Felixstowe ...	17.9	+22	SW	2	Z_0	44	85	41	5	5	-	-	10	10	4000	0	2
	Gorleston ...	17.2	+12	WSW	2	Z_0	45	85	41	6	5	7	-	4-6	9	1500	1	2
	Mildenhall ...	16.6	+10	SSW	3	Z_0	46	85	42	6	5	4	6	2-3	4-6	4000	1	*
	Cranwell ...	14.3	0	SW	4	Z_0	45	92	43	5	5	1	-	4-6	9+	2500	1	*
3	Birmingham ...	15.5	+2	S	2	Z_0	49	85	45	6	-	1	-	0	9+	-	1	*
	Upper Heyford	16.6	+6	SW'S	2	Z_0	48	92	46	6	5	-	-	10	10	700	1	*
4	Ross-on-Wye	15.9	+4	SW'S	3	c	51	85	47	8	5	-	-	10	10	2500	1	*
5	Hartland Point	16.4	-2	WSW	8	c/+	51	92	49	7	5	2	-	7-8	10	800	1	5
	Bristol ...	18.1	+4	WSW	3	dr	50	97	50	6	5	-	-	10	10	2400	1	*
	Portland Bill ...	19.1	+4	S	4	c	50	92	48	8	5	-	-	10	10	2500	1	*
	Plymouth ...	19.8	+2	W	4	Z_0	52	85	48	6	5	7	-	7-8	10	1000	1	3
	The Lizard ...	19.2	-2	WSW	5	c	52	85	48	8	8	2	-	7-8	9+	1500	0	4
	Scilly (St. Mary's)	19.1	+4	SW'W	5	c	52	85	47	8	5	-	-	10	10	1000	1	4
	Guernsey ...																	
6	Pembroke ...	15.5	0	W'S	6	d_0d_0	51	92	50	6	5	-	-	10	10	400	1	4
7	Holyhead (Valley)	11.6	-4	SW'S	7	Z_0	52	92	51	6	5	-	-	10	10	500	1	5
	Chester (Sealand)	12.8	+2	SW'S	1	c-bc	53	85	49	7	5	-	-	7-8	7-8	2400	1	*
8	Manchester ...	13.2	-4	S'E	5	c	49	85	46	7	5	3	-	4-6	10	2000	1	*
10	Spurn Head ...	13.7	-4	S'W	4	Z_0	44	97	42	6	5	-	-	4-6	4-6	4000	0	3
	Catterick ...	10.7	-10	S	3	Z_0	47	85	44	6	5	7	-	4-6	10	1700	1	*
	Tynemouth ...	09.8	-20	S	3	m	49	85	45	4	5	-	-	9+	9+	2500	1	3
11	St. Abbs Head	06.2	-8	S	4	c	43	92	41	7	5	-	-	10	10	2500	0	3
	Leuchars ...	04.5	-20	-	0	Z_0	45	92	43	5	5	-	-	10	10	2200	1	*
12	Renfrew (Abbots I.)	05.0	-26	SW	4	++	50	92	49	5	5	-	-	10	10	800	1	*
	Eskdalemuir ...	06.9	-22	S'W	4	t_0t_0	45	97	43	4	-	2	-	10	10	200	1	*
	Point of Ayre...	08.5	-10	W'S	4	c	51	85	50	8	5	1	-	9	10	2000	0	3
13A	Tiree	00.9	-18	SW'S	6	d_0d_0	51	97	51	5	5	-	-	10	10	220	1	5
13B	Stornoway ...	97.0	-14	SSW	6	t_0t_0	50	97	49	6	5	-	-	10	10	600	1	*
15	Dalwhinnie ...	02.0	-26	SSW	3	ir_0	43	85	38	7	5	-	-	10	10	1500	1	*
	Aberdeen ...	04.0	-22	S	3	Z_0	41	97	40	5	-	7	-	0	9+	-	1	2
	Wick ...	00.4	-38	S'W	4	++	44	92	42	6	5	-	-	10	10	200	1	*
16	Sumburgh ...	03.3	-22	SSE	5	t_0r_0	41	75	33	7	5	2	-	9	10	1500	1	3
17	Blacksod Point	04.9	-4	WSW	5	d_0d_0	54	97	53	7	-	2	-	0	10	-	1	4
18	Malin Head ...	02.6	-14	SW	4	d+	52	97	51	6	6	2	-	4-6	10	1500	2	3
	Aldergrove ...	06.2	-12	SSW	3	ir_0	51	85	48	6	5	-	-	10	10	1300		*
19	Birr Castle ...	09.7	-2	WSW	4	c	54	85	50	7	5	-	-	10	10	1500	1	*
20	Valentia Obsy.	11.9	-4	SSW	5	d_0d_0	53	97	52	5	5	-	-	10	10	450	1	4
	Roches Point	14.0	0	SW	4	id	52	97	51	6	5	-	-	10	10	450	1	4

PAST 24 HOURS.

District	Stations	Weather. 7h.–13h. 6th (39)	Weather. 13h.–18h. 6th (40)	Weather. 18h. 6th to 1h. 7th (41)	Weather. 1h.–7h. 7th (42)
1	London (Kew)	mb ccm$_0$w	cm$_0$	cm$_0$	cm$_0$
	Croydon ...	ebcm$_0$	cm$_0$	cm$_0$cm$_0$	cm$_0$
	S. Farnborough	cbcc	cbcc	cbccm$_0$	cm$_0$c
	Boscombe Down	c	c	c	c
	Thorney Island	cm$_0$bcc	ccm$_0$	cid$_0$bc	bcc
	Lympne ...	bcm$_0$	bcz$_0$c	bccm$_0$d$_0$	cm$_0$id$_0$m$_0$
	Manston ...	bbcm$_0$	cm$_0$	cm$_0$om$_0$	bcc
2	Shoeburyness ...	bcm$_0$	cm$_0$	cm$_0$	cm$_0$
	Felixstowe ...	cm$_0$bcm$_0$	bcm$_0$cm$_0$	bccm$_0$	cm$_0$
	Gorleston ...	bcc	cz$_0$	bccm$_0$	c
	Mildenhall ...	cm$_0$c	cz$_0$bcm$_0$	bcm$_0$bm$_0$c	c
	Cranwell ...	bcm$_0$cm$_0$	cm$_0$	cm$_0$bcm$_0$c	bcm$_0$cm$_0$
3	Birmingham ...	bcc	c	ir$_0$c	c
	Upper Heyford	c	bcc	od$_0$d$_0$id$_0$m$_0$	id$_0$m$_0$c
4	Ross-on-Wye	cbc	bcc	c	c
5	Hartland Point	cid$_0$ir$_0$	ir$_0$irc	c	c
	Bristol ...	cm$_0$	cir$_0$cid$_0$m$_0$	cm$_0$cd$_0$d$_0$	od$_0$d$_0$c
	Portland Bill ...	c	co	c	co
	Plymouth ...	cd$_0$ir$_0$m$_0$	cm$_0$d$_0$d$_0$cm$_0$	cm$_0$c	cid$_0$c
	The Lizard ...	cid$_0$	oc	coc	co
	Scilly (St. Mary's)	c	c	c	c
6	Pembroke ...	cid$_0$m$_0$	cqidm$_0$	c	cid$_0$d
7	Holyhead (Valley)	cbcc	r$_0$odm$_0$	om$_0$	om$_0$d$_0$d$_0$
	Chester (Sealand)	c	c	cbcc	cbc
8	Manchester ...	bccm$_0$	cm$_0$bcc	cbcm$_0$c	cbcw
10	Spurn Head ...	bcm$_0$	bcm$_0$	om$_0$	c
	Catterick ...	cm$_0$	cm$_0$ccm$_0$	ir$_0$id$_0$m$_0$id$_0$m$_0$id$_0$	
	Tynemouth ...	c	cm	cm$_0$irc	cp$_0$
11	St. Abbs Head	cr$_0$oc	c	cr$_0$bc	cbc
	Leuchars ...	m$_0$o	cmcfcm$_0$	od$_0$d$_0$m$_0$c	cir$_0$rr
12	Renfrew (Abbots I.)	cmr$_0$r$_0$om$_0$pid$_0$++		cm$_0$r$_0$r$_0$	cm$_0$r$_0$r$_0$x
	Eskdalemuir ...	coir$_0$	pr$_0$m	or$_0$	or$_0$
	Point of Ayre...	c	c	c	cbbxcc
13A	Tiree	r$_0$r$_0$cir$_0$c	od++r$_0$t$_0$	oddrr	oRRrr
13B	Stornoway ...	cr$_0$r$_0$m$_0$	crrr$_0$r$_0$m$_0$	cr$_0$r$_0$d$_0$d$_0$c	cr$_0$r$_0$r$_0$
15	Dalwhinnie ...	Oci$_0$r$_0$O	oir$_0$		oir
	Aberdeen ...	pcm fz$_0$	ci$_0$z$_0$c	coid$_0$r$_0$c	cm$_0$cm
	Wick ...	cp	cir$_0$r$_0$rr	crr cbc	cir$_0$cr$_0$r$_0$
16	Sumburgh ...	bcc	cir$_0$r$_0$	crrd$_0$cm$_0$	cm$_0$c
17	Blacksod Point	d	d	r	r
18	Malin Head ...	c	+	r	r
	Aldergrove ...	cmc	cid$_0$ir$_0$	cir$_0$crrcm$_0$d$_0$d$_0$c	
19	Birr Castle ...	c	c		r
20	Valentia Obsy.	d	d	d	d
	Roches Point	d	d	d	d

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 7th December, 1942.

Districts	Forecast
1 S.E. England; 2 E. England ...; 3 E. Midlands ...; 4 W. Midlands	Fresh southwest winds; cloudy or dull; slight occasional drizzle locally; mild and close.
5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England; 9 N. Midlands ...	Fresh to strong southwest winds, approaching gale locally on coasts; dull; occasional drizzle especially near the coasts; some hill fog; mild.
10 N.E. England; 11 S.E. Scotland	Fresh southwest winds; cloudy; some occasional drizzle; mild and close.
12 S.W. Scotland & Isle of Man; 13A W. Scotland ...; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Fresh to strong mainly southwest winds, gale locally on coast at times; dull; occasional rain or drizzle; hill fog; mainly mild.
16 Orkneys and Shetlands; 17 N. W. Ireland; 18 N. E. Ireland	As 12-15.
19 S. E. Ireland	As 5-9.
20 S. W. Ireland	As 12-18.

GENERAL INFERENCE

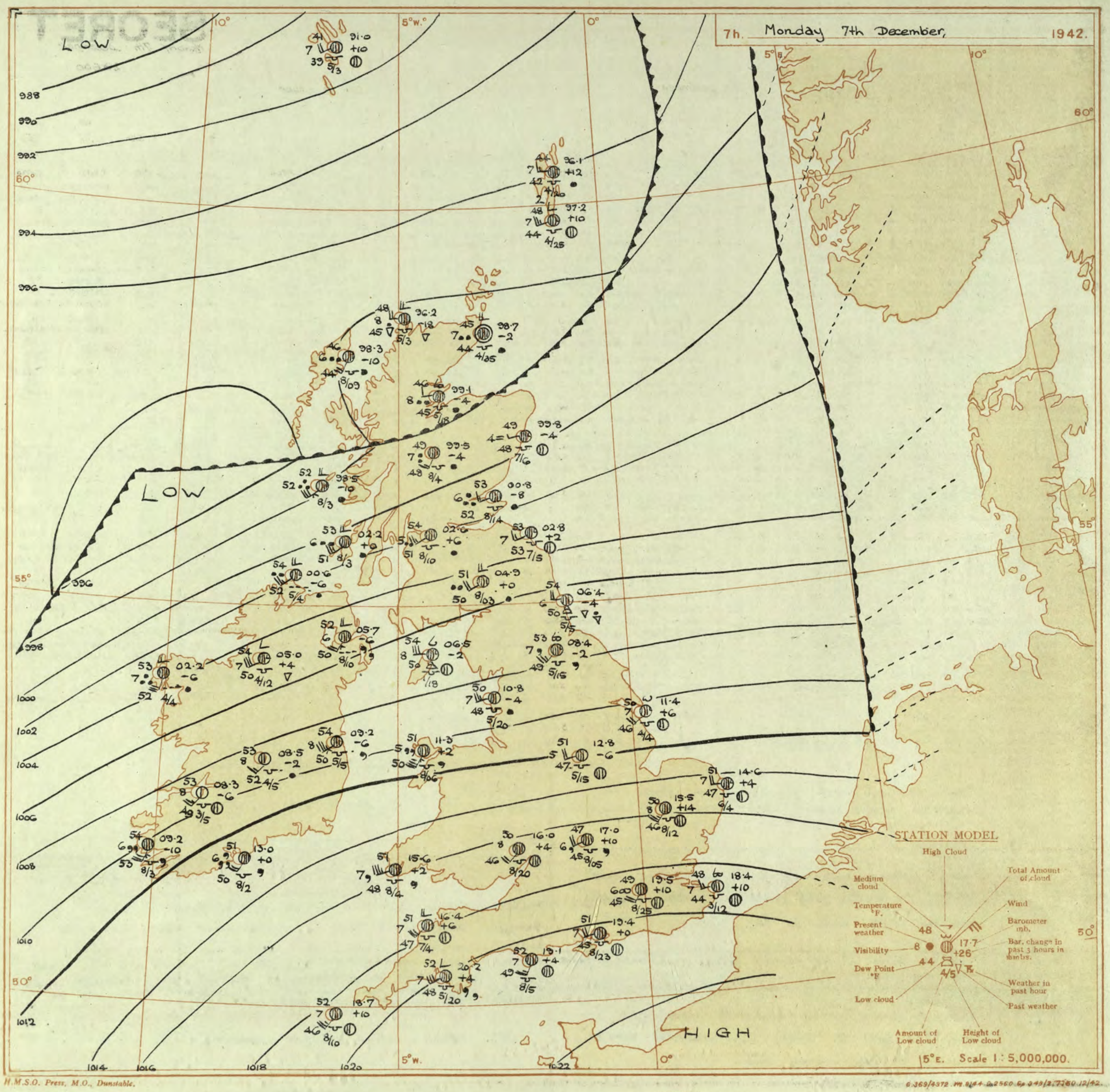
Pressure is high southward of the British Isles. A deep depression south of Iceland is moving rather slowly eastwards, and active secondary disturbances will continue to move quickly Northeast over or near northern and extreme western districts. Mild weather will prevail in practically all districts with southwest winds reaching gale locally near the northwest seaboard. There will be occasional rain in the west and north.

FURTHER OUTLOOK

Mild, rather unsettled weather 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.

6.369/4372 m.8/44 Q2560 G.949/2.7260 12/42.

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).

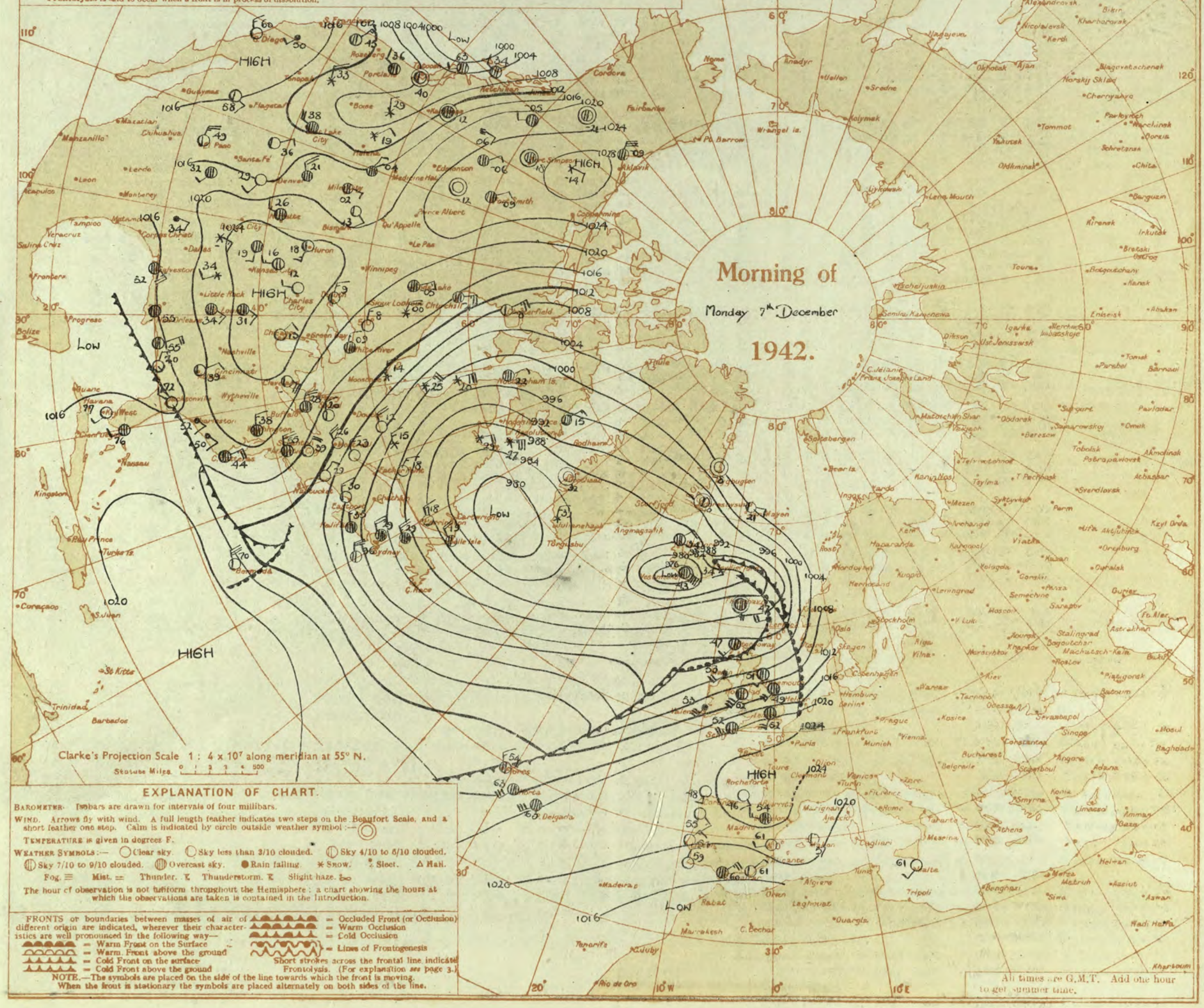
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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 7th DECEMBER 1942

No. 29600

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

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	*	*	*	*	*	49	*	*	*	*	*	*	*	*	*
	Croydon ...	290	18·4	−2	S	4	2o	52	85	46	6	5	2	-	7·8	7·8	2500
	S. Farnborough	226	18·0	−2	SW	4	2o	50	85	46	6	5	-	-	10	10	1700
	Boscombe Down	417	18·3	+2	SW	4	c	49	85	46	7	5	1	-	7·8	10	1400
	Thorney Island	10	19·0	−2	SW'W	4	bc	51	85	47	7	5	-	-	4·6	4·6	1700
	Lympne ..	283	19·1	−6	WSW	3	c/d	50	92	48	6	5	-	-	9+	9+	1000
	Manston ...	154	17·4	−12	WSW	4	bc	50	92	48	7	5	-	-	4·6	4·6	800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	16·2	−8	SW	4	2o	47	97	46	5	5	-	-	10	10	1500
	Gorleston ...	5	15·1	−6	SW'W	4	2o	48	85	43	5	5	-	-	9+	9+	1500
	Mildenhall ...	15	14·5	−4	SW	5	c	51	85	47	7	5	-	-	10	10	1200
	Cranwell ...	203	11·9	−2	SW'W	6	2o	50	92	48	6	5	-	-	7·8	7·8	2500
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	15·8	−2	SW	5	id.	48	97	47	5	5	-	-	10	10	400
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	16·4	+2	WSW	6	c	51	92	48	7	5	2	-	9	10	1500
	Bristol ...	209	17·9	+2	SSW	4	o/d	49	97	48	6	5	-	-	10	10	1200
	Portland Bill ...	32	19·0	−6	SSW	5	c-bc	48	92	46	8	5	-	-	7·8	7·8	2500
	Plymouth ...	82	20·3	−2	WSW	4	c	52	85	48	7	5	7	-	7·8	10	2500
	The Lizard ...	240	19·9	−6	WSW	6	c	51	85	47	8	5	2	-	9	10	1500
	Scilly (St. Mary's)	163	18·7	−10	SW'W	5	c	52	75	46	8	5	-	-	9+	9+	1200
	Guernsey ...	175															
6	Pembroke ...	142	15·8	+2	WSW	6	c	51	92	49	7	5	-	-	10	10	1500
7	Holyhead (Valley)	32	11·5	−2	SSW	7	2o	52	97	51	6	5	-	-	10	10	800
	Chester (Sealand)	16	11·0	−4	WSW	4	c	54	85	50	8	5	1	-	4·6	9	4500
8	Manchester ...	235	11·9	−4	S'E	4	c	51	85	47	8	5	-	-	9	9	2400
10	Spurn Head ...	29	10·6	−6	SW	4	2o	49	92	47	6	5	-	-	10	10	2500
	Catterick ...	175	08·7	−2	S	2	id.	52	92	50	6	5	7	-	7·8	9	1100
	Tynemouth ...	108	06·5	+2	S	3	c	51	92	48	7	5	-	-	9+	9+	2500
11	St. Abbs Head	280	03·2	+2	W	3	bc/pr	54	92	52	7	5	-	-	4·6	4·6	2500
	Leuchars ...	36	01·3	−6	W	5	2o	52	92	50	6	5	-	-	9	9	1600
12	Renfrew (Abbots I.)	19	03·6	+2	SW	4	r o/r o	54	92	51	5	5	-	-	10	10	1000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	06·8	−2	W	6	c	54	97	53	8	5	2	6	4·6	9	3000
13A	Tiree	44	00·3	−4	SW	4	rr	51	97	51	6	-	2	-	10	10	450
13B	Stornoway ...	15	99·5	+10	SSW	3	c	47	92	45	7	5	-	-	9+	9+	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	00·1	−4	WSW	3	c	49	85	45	6	5	2	-	2-3	10	2500
	Wick ...	114	98·1	+6	SSW	2	bc	47	92	45	8	5	-	-	4·6	4·6	3000
16	Sumburgh ..	19	94·5	−26	SW'S	5	c/d	48	97	47	6	5	-	-	9	9	600
17	Blacksod Point	18	03·5	−18	SSW	5	r o/r o	55	97	54	7	6	2	-	4·6	10	800
18	Malin Head ...	84	02·4	−6	SW'S	4	ir o	53	92	51	8	6	2	-	4·6	10	1500
	Aldergrove ...	268	06·1	0	SW'S	4	c/r	53	97	52	5	6	2	-	10	10	500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	11·1	−10	SSW	5	id.	53	97	52	6	6	-	-	10	10	800
	Roches Point	22	13·7	−6	SSW	5	dd	52	97	51	6	5	-	-	10	10	450

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

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 0–9 (31)	Sea 0–9 (32)
1	London (Kew)	18·8	+8	WSW	4	2o	49	85	44	6	5	-	-	10	10	1500	1	*
	Croydon ...	19·5	+10	SSW	4	2o	49	85	45	6	5	-	-	10	10	2500	1	*
	S. Farnborough	18·7	0	SW'W	3	c	50	85	44	8	5	-	-	10	10	1800	1	*
	Boscombe Down	19·0	+2	SW'W	5	c	49	85	45	7	5	7	-	7·8	10	1500	0	*
	Thorney Island	19·4	0	WSW	4	c	51	75	5	7	5	-	-	10	10	2500	1	*
	Lympne ..	19·7	+10	WSW	4	c	49	8	44	7	5	-	-	9+	9+	1400	1	§3
	Manston ...	18·4	+10	WSW	3	c-bc	48	1	44	7	5	7	-	2-3	7·8	1200	1	*
2	Shoeburyness ...	18·1	+6	WSW	4	c	49	8	44	6	5	-	-	9	9	1500	1	*
	Felixstowe ...	16·8	+8	WSW	4	2o	49	85	45	6	5	-	-	10	10	2000	0	
	Gorleston ...	14·6	+4	W	4	c	51	85	47	7	5	-	-	9	9	1500	1	3
	Mildenhall ...	15·5	+14	SW	5	c	50	85	46	8	5	-	-	10	10	1200	1	*
	Cranwell ...	12·8	+6	WSW	6	2o	50	92	48	6	5	3	2	2-3	9	4500	0	*
3	Birmingham ...	15·1	+2	SSW	3	c	50	85	46	8	5	-	-	10	10	1500	1	*
	Upper Heyford	17·0	+10	WSW	4	id.	47	97	45	6	5	-	-	10	10	500	1	*
4	Ross-on-Wye	16·0	+4	SW	4	c	50	85	46	8	5	-	-	10	10	2000	1	*
5	Hartland Point	16·4	+6	WSW	6	c	51	85	47	7	5	2	-	9+	10	1500	1	2
	Bristol ...	18·8	+8	SSW	3	2	48	85	45	6	5	2	-	9	10	2000	1	*
	Portland Bill ...	19·1	+4	SSW	5	c	52	92	49	7	5	-	-	10	10	2500	1	5
	Plymouth ...	20·2	+4	WSW	6	c-bc/d	52	85	48	7	5	1	-	7·8	7·8	2000	1	4
	The Lizard ...	19·4	+4	WSW	6	0	52	85	46	7	5	-	-	10	10	1500	0	5
	Scilly (St. Mary's)	18·7	+10	SW	5	c	52	75	46	7	5	-	-	10	10	1000	1	4
	Guernsey ...																	
6	Pembroke ...	15·6	+2	WSW	7	id.	51	92	48	7	5	-	-	10	10	1500	0	5
7	Holyhead (Valley)	11·3	+2	SSW	8	d.d.	51	97	50	5	5	-	-	10	10	600	1	5
	Chester (Sealand)	11·2	−2	WSW	5	bc	53	85	48	7	5	7	6	1	4·6	3000	0	*
8	Manchester ...	11·6	−4	S	5	b-bc	50	85	47	8	5	-	-	2-3	2-3	2500	1	*
10	Spurn Head ...	11·4	+6	SW'W	4	c	50	85	46	7	5	3	-	4·6	9	1500	1	3
	Catterick ...	08·4	−2	SW	5	id.	53	85	49	7	5	7	-	7·8	9	1500	1	*
	Tynemouth ...	06·4	−4	W	4	c-bc/pr	54	85	50	6	8	-	-	7·8	7·8	2500	1	3
11	St. Abbs Head	02·8	+2	SW	3	c	53	97	53	7	5	-	-	9+	9+	2500	0	3
	Leuchars ...	00·8	−8	SW	3	rr	53	97	52	6	5	-	-	10	10	1400	1	*
12	Renfrew (Abbots I.)	02·6	+6	SW	5	r o/r o	54	92	51	5	5	-	-	10	10	1000	1	*
	Eskdalemuir ...	04·9	0	SW	4	r o/r o	51	97	50	5	-	2	-	10	10	300	1	*
	Point of Ayre...	06·5	−2	W	6	c	54	85	50	8	8	4	-	Tr	9	1800	0	4
13A	Tiree	98·5	−10	SW'S	6	rr	52	97	52	6	-	2	-	10	10	800	2	5
13B	Stornoway ...	98·3	−10	SSW	4	r o/r o	46	92	44	6	5	-	-	10	10	900	1	*
15	Dalwhinnie ...	99·5	−4	SSW	3	ir	49	92	48	7	5	-	-	10	10	1500	1	*
	Aberdeen † ...	99·8	−4	W'S	1	m	49	97	48	4	5	-	-	9+	9+	4000	1	2
	Wick ...	98·7	−2	—	0	r o/r o	45	97	44	7	5	2	-	4·6	10	3500	1	*
16	Sumburgh ..	97·2	+10	WSW	5	c	48	85	44	7	5	1	6	4·6	9+	2500	1	4
17	Blacksod Point	02·2	−6	SSW	6	rr	53	97	52	7	6	2	-	4·6	10	1500	2	5
18	Malin Head ...	00·6	−6	SW'S	5	r o/r o	54	92	52	8	6	2	-	7·8	9+	1500	2	4
	Aldergrove ...	05·7	−6	SSW	4	c/d	52	92	50	6	6	2	-	10	10	1000	1	*
19	Birr Castle ...	08·5	−2	SW	3	bc	53	97	52	8	5	-	-	4·6	4·6	2500	1	*
20	Valentia Obsy.	09·2	−10	SSW	6	d.d.	54	97	53	6	5	-	-	10	10	800	1	5
	Roches Point	13·0	0	SW'S	4	dd	51	97	50	6	5	-	-	10	10	450	1	*

PAST 24 HOURS.

District	Stations	Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 6th... Hrs. (38)
1	London (Kew)	48	47	48	-	-	2·3
	Croydon ...	50	48	47	-	-	2·7
	S. Farnborough	50	50	46	-	Tr	1·5
	Boscombe Down	50	44	41	-	-	0·6
	Thorney Island	52	49	47	-	Tr	*
	Lympne ..	49	43	38	-	Tr	3·7
	Manston ...	50	43	41	-	-	3·1
2	Shoeburyness ...	49	44	42	-	-	2·1
	Felixstowe ...	50	43	42	-	-	2·4
	Gorleston ...	48	42	38	-	-	2·7
	Mildenhall ...	50	45	38	Tr	-	1·6
	Cranwell ...	48	45	43	-	-	1·5
3	Birmingham ...	49	48	45	-	0·4	0·2
	Upper Heyford	48	46	45	-	Tr	*
4	Ross-on-Wye	52	50	49	-	-	2·1
5	Hartland Point	51	50	49	1	-	0·2
	Bristol ...	51	48	46	0·1	0·6	0·9
	Portland Bill ...	51	46	*	-	-	*
	Plymouth ...	52	52	50	Tr	Tr	0·2
	The Lizard ...	52	49	*	0·5	-	0·0
	Scilly (St. Mary's)	54	51	*	-	-	1·4
	Guernsey ...						
6	Pembroke ...	51	*	*	1	-	0·0
7	Holyhead (Valley)	53	51	50	0·4	Tr	*
	Chester (Sealand)	56	53	48	-	-	2·1
8	Manchester ...	50	48	45	Tr	-	*
10	Spurn Head ...	46	42	*	-	Tr	1·3
	Catterick ...	50	47	45	-	1	1·4
	Tynemouth ...	49	45	46	-	0·4	*
11	St. Abbs Head	46	45	*	Tr	Tr	*
	Leuchars ...	45	45	43	Tr	1	0·0
12	Renfrew (Abbots I.)	50	50	48	10	3	0·0
	Eskdalemuir ...	45	43	39	1	*	0·0
	Point of Ayre...	54	52		-	-	0·0
13A	Tiree	51	51	50	1	22	0·0
13B	Stornoway ...	50	45	43	7	1	0·0
15	Dalwhinnie ...	43	42	37	0·3	6	0·0
	Aberdeen † ...	42	41	41	0·4	0·1	0·2
	Wick ...	45	43	39	5	3	*
16	Sumburgh ..	41	39	28	0·2	8	1·4
17	Blacksod Point	54	52	*	1	9	*
18	Malin Head ...	52	51		2	4	0·0
	Aldergrove ...	51	49	48	0·3	4	0·0
19	Birr Castle ...	55	53	50	-	2	0·1
20	Valentia Obsy.	54	53	52	0·4	0·6	0·0
	Roches Point	53	51	*	1	1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

Station	13h. G.M.T. 6th December			18h. G.M.T.			01h. G.M.T. 7th December			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-	02867	13327	62	64657	14468	51	01654	23558	52	02655	17328
115				52	64735	20568	52	02844	20467	52	81835	24488
203	6-	62835	16528	6-	61838	16568				6-	62838	12168
206	52	62644	28168	52	62645	00068	57	61853	24465	57	62845	24268
210	57	02865	11168	02	61778	13368	02	22865	20368	5-	62748	00068
220	52	63635	18428	32	64226	15468				5-	58438	12368
230	52	21845	16168	5-	62548	20268	02	64638	52368	62	64645	50468
245	57	02854	00028	5-	08458	17358	5-	05545	04155	62	61634	20258
260	57	02765	20258	5-	51668	53428	5-	21638	51558	5-	62648	53468
278	52	02843	10228	5-	61848	18268	5-	51628	24068	52	61747	53458
279	5-	52625	19358	52	51635	52658	52	05646	53558	5-	05635	53828
285				57	02726	20428				5-	05627	24767
288	07	02850	14327	52	02755	16428	50	05663	56563	5-	02845	51655
575	5-	51848	20358	5-	51748	20358	02	22748	20368	51	02744	53686
301	57	03647	14327	5-	05628	18428	6-	53638	23668	5-	01755	22565
321	53	05654	21327	07	05690	16428				57	05673	20418
299	5-	05647	24127	5-	08437	22347	50	05645	22315	5-	02748	24428
292	52	05556	14128	5-	45358	14248	5-	51644	21354	5-	05647	19267
310										--	02621	20528
614	57	05664	22226	5-	08458	22228	50	05534	55424	50	05545	22425

Station	13h. G.M.T. 6th December			18h. G.M.T.			01h. G.M.T. 7th December			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-	54328	16358	5-	52638	19558	5-	52538	53758	5-	52538	54658
334										--	53537	22188
340	83	02835	22227	5-	02848	20228	5-	01854	55514			
136	5-	05546	20227	57	05664	21325	5-	05635	53468	5-	05634	20426
336										57	02654	20528
350	53	02764	23327	50	05664	18224	5-	02638	51428			
368	57	21646	22417	52	21615	54558	5-	05648	22558	5-	05648	20428
379	57	02753	20328	5-	05638	20428				5-	21638	53458
390	03	05690	20325	57	45366	22148	5-	41447	20457	5-	47346	20596
382	07	02750	22326	52	01845	21228	52	01748	22428	5-	51748	21358
438	52	01663	23414	50	02765	22415				5-	03748	22528
430	07	03650	22326	5-	52545	22228	5-	05657	22317	52	05646	22428
409	5-	54628	21568	57	02747	20427	5-	02745	53515	5-	21758	52558

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 7th December
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	mbccmow	cmo	cmo	
Croydon ...	cbccmo	cmo0cmo	cmo	
Greenwich ...	bcbm	bcmc	c	
Camden Square	c	bc	*	Kew 24 hours ended 7h. Max. 0·6 Time 10h 6th. Min. 0·4 Time 0-5h 7th
Kensington ...	bc	bc	*	
Hampstead ...	bc	od	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 13h % Yesterday	Humidity 9h % Today
Kew	48	47	48	-	-	2-3	*	*
Croydon ...	50	48	47	-	-	2-7	*	*
Greenwich ...	50	49	44	-	-	2·0	75	76
Westminster ...	52	43	42	-			73	80
Regents Park ..	51	44	40	-	-		72	75
Camden Square	50	43	39	-	-	*	*	79
Kensington ...	50	43	37	-	Tr		92	79
Hampstead ..	49	46	42	-	-	Tr	*	85

SECRET

Page 1 **BRITISH SECTION**

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

Tuesday 8th December 1942

No. 2960

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18.8	-6	SW'W	3	c	51	75	44	7	5	-	-	10	10	1500
	Croydon	19.8	-10	SW	4	c	53	75	45	1	5	-	-	10	10	2200
	S. Farnborough	19.0	-12	SW'W	5	c	53	78	48	8	5	7	-	9+	9+	1400
	Boscombe Down	19.4	-6	SW	5	c	51	85	45	8	5	-	-	9+	9+	2000
	Thorney Island	20.3	-6	WSW	4	c	52	85	48	8	5	-	-	4-6	10	2500
	Lympne	20.0	+4	SSW	3	dd	49	97	49	4	5	-	-	10	10	<150
	Manston	18.9	-10	WSW	5	c	52	85	48	7	5	-	-	9+	9+	1500
2	Shoeburyness	18.8	-8	WSW	4	c	52	75	45	8	5	-	-	10	10	2500
	Felixstowe	17.5	-12	SW'W	5	zo	51	75	45	6	5	-	-	9+	9+	1800
	Gorleston	16.4	+6	WNW	4	bc	50	75	43	7	8	7	-	2-3	4-6	1600
	Mildenhall	16.4	-6	SW'W	5	c	50	75	43	8	5	3	-	9	9+	2500
	Cranwell	13.5	-2	SW'W	2	zo	50	85	46	6	5	-	-	4-6	10	1500
3	Birmingham	15.1	-2	SSW	4	c	49	86	45	8	5	-	-	10	10	1500
	Upper Heyford	17.2	-4	SW'W	5	c	49	75	42	8	5	-	-	10	10	2000
4	Ross-on-Wye	16.3	0	SW	5	c	51	75	42	8	5	-	1	9+	9+	2500
5	Hartland Point	15.9	-12	W	5	c/d	50	97	49	8	5	-	-	9	9	2000
	Bristol	18.5	-6	SW	3	c	52	75	46	8	5	-	-	9+	9+	2500
	Portland Bill	19.0	-6	SW	5	c-bc	53	85	49	8	2	4	-	4-6	7-8	4000
	Plymouth	20.2	-4	SW'W	5	c/d	52	97	51	7	5	7	-	7-8	9+	1500
	The Lizard	18.9	-8	SW	6	c-bc/pr	51	97	51	7	8	3	-	7-8	7-8	1500
	Scilly (St. Mary's)	17.8	-8	SSW	5	c/d	52	92	50	8	8	-	9	7-8	9+	1000
	Guernsey															
6	Pembroke	14.9	-2	WSW	7	cjp	53	85	46	7	5	-	-	10	10	2000
7	Holyhead (Valley)	10.8	-10	SSW	8	dodo	51	92	48	6	5	-	-	10	10	200
	Chester (Sealand)	11.6	-12	WSW	4	c	55	75	46	8	5	-	9	2-3	9+	2500
8	Manchester	12.6	0	S'E	5	c-bc	51	85	47	9	5	-	9	7-8	7-8	1500
10	Spurn Head	12.2	-4	S'W	4	zo	52	75	46	6	7	-	-	7-8	7-8	2500
	Catterick	09.2	+2	WSW	4	c-bc	54	75	47	7	5	-	9	7-8	7-8	900
	Tynemouth	07.1	+4	WSW	4	c-bc	55	85	49	6	2	3	1	4-6	7-8	1500
11	St. Abbs Head	00.6	0	SSW	5	c-bc	54	92	52	7	5	4	-	4-6	7-8	3000
	Leuchars	99.9	-10	SW	5	c	54	85	51	6	5	2	-	9+	10	1200
12	Renfrew (Abbots I.)	02.1	-10	SW'S	5	roro	53	85	49	6	6	2	-	7-8	10	500
	Eskdalemuir	05.0	+2	SW	6	roro	49	92	47	6	-	2	-	10	10	400
	Point of Ayre	06.2	-14	SW'W	6	c	55	85	51	8	6	7	-	1	9+	1000
13A	Tiree	97.2	-10	SSW	6	c/+	53	92	52	7	5	-	-	10	10	800
13B	Stornoway	93.2	-26	SSW	3	++	46	97	46	5	5	2	-	7-8	10	800
15	Dalwhinnie	98.8	-10	SW	3	c	50	92	47	7	5	-	-	9+	9+	2500
	Aberdeen	90.6	-16	SSW	3	c	55	85	50	7	5	4	8	2-3	9	2500
	Wick	96.6	-8	—	0	++	45	97	45	6	5	2	-	9+	10	800
16	Sumburgh	97.2	-4	SW'S	4	c	47	92	46	7	5	2	-	4-6	10	2500
17	Blacksod Point	98.7	-24	S	6	DR	53	97	52	6	-	2	-	0	10	-
18	Malin Head	97.6	-18	SSW	7	c-bc	54	85	50	8	5	-	2	4-6	7-8	1500
	Aldergrove	03.9	-14	SW'S	4	c	54	85	49	9	5	2	-	9+	10	1000
19	Birr Castle	06.7	-14	SW	4	c	54	85	50	8	8	2	-	7-8	10	1500
20	Valentia Obsy.	07.4	-14	SSW	6	DR	54	97	53	6	6	-	-	10	10	800
	Roches Point	11.2	-14	SW'S	5	c	52	92	50	7	5	-	-	9+	9+	800

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

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)	18.0	-2	SW	3	c/+	50	92	47	7	5	-	-	10	10	1500	1	•
Croydon	19.2	+2	S'W	4	ido	52	85	47	6	5	-	-	9+	9+	1300	1	•
S. Farnborough	18.2	-2	SW	4	ido	51	92	48	6	5	-	-	10	10	1100	1	•
Boscombe Down	18.6	-2	SW	4	iro	50	92	48	6	6	2	-	7-8	9+	700	0	•
Thorney Island	20.2	-2	WSW	4	c/d	51	92	48	6	5	-	-	4-6	10	1600	1	•
Lympne	19.7	-2	NW	4	zo	49	97	49	6	5	-	-	10	10	200	1	4
Manston	18.6	0	SW'W	4	c/d	50	92	47	7	5	7	-	9	10	700	1	•
Shoeburyness	18.6	0	SW'W	3	c-bc	51	85	47	7	5	-	-	7-8	7-8	2500	1	•
Felixstowe	17.9	+6	SW'S	4	zo	50	85	45	5	5	-	-	10	10	3000	0	3
Gorleston	15.4	-2	WSW	4	bcq	51	73	43	7	5	-	-	4-6	4-6	2500	0	3
Mildenhall	15.4	-6	SW'S	4	c	51	75	44	7	5	-	-	10	10	2800	1	•
Cranwell	12.5	-4	SW'W	5	zo	49	85	44	6	5	7	-	2-3	4-6	2500	0	•
Birmingham	14.6	-4	SSW	4	bc	49	85	45	8	5	-	-	4-6	4-6	1500	1	•
Upper Heyford	16.0	-10	SW'S	4	c	50	85	45	8	5	-	-	10	10	2900	1	•
Ross-on-Wye	15.0	-10	SW	4	c	51	85	46	8	5	-	-	9+	9+	2000	1	•
Hartland Point	14.6	0	WSW	5	dodo	51	97	50	5	5	2	-	9+	10	800	1	5
Bristol	17.2	-6	SW	3	c	62	85	48	7	5	-	-	10	10	3500	1	•
Portland Bill	18.4	-4	SW	5	dd	50	92	48	7	5	-	-	10	10	2500	1	5
Plymouth	19.1	-2	WSW	6	roro	52	97	52	6	5	-	-	10	10	1000	1	4
The Lizard	18.1	0	SW'W	6	c	52	92	50	7	5	2	-	7-8	10	1500	1	5
Scilly (St. Mary's)	16.7	-4	SW'S	5	c	52	92	50	8	5	7	-	4-6	10	1200	1	4
Guernsey																	
Pembroke	13.2	0	SW'W	7	cq	53	92	51	7	5	-	-	10	10	2000	1	5
Holyhead (Valley)	09.0	-6	SSW	8	zo	52	92	50	6	5	-	-	10	10	1000	1	6
Chester (Sealand)	10.9	-2	W	4	c	53	75	46	8	8	4	-	9	10	2000	0	•
Manchester	11.3	-8	S	3	c-bc	50	85	44	8	5	7	-	2-3	7-8	2000	1	•
Spurn Head	11.6	+2	SW'S	4	zo	49	85	43	6	7	7	-	4-6	7-8	2500	0	3
Catterick	07.9	-6	SSW	3	zo	51	85	45	6	5	-	-	10	10	1400	1	•
Tynemouth	04.2	-10	SW	8	bcq	52	85	48	7	2	-	-	4-6	4-6	2500	1	4
St. Abbs Head	99.0	-14	SSW	C	c-bcq	51	92	50	7	5	-	-	7-8	7-8	2500	0	5
Leuchars	97.1	-30	SW	7	c-bc	54	85	50	8	5	-	-	7-8	7-8	1900	1	•
Renfrew (Abbots I.)	98.6	-26	SSW	6	iro	54	85	50	6	6	-	-	9	9	1000	2	•
Eskdalemuir	03.0	-6	SW'S	7	roro	47	97	46	4	-	2	-	10	10	200	1	•
Point of Ayre	03.5	-20	SW'W	6	c	55	85	50	7	6	7	-	7-8	9+	1000	0	4
Tiree	89.4	-54	SSW	8	c/+	52	85	48	7	6	2	-	9	10	1000	1	7
Stornoway	87.6	-22	S	6	roro	62	92	49	7	5	7	-	7-8	10	900	1	*
Dalwhinnie	94.0	-20	SW	4	++	50	92	47	7	5	-	-	10	10	1500	1	
Aberdeen	95.2	-12	SSW	3	c	55	75	48	7	5	-	-	9+	9+	2500	1	2
Wick	92.0	-18	S	3	bc/+	48	92	46	7	5	-	-	4-6	4-6	1500	1	•
Sumburgh	93.5	-18	S	4	roro	45	97	43	6	-	2	-	10	10	700	1	4
Blacksod Point	03.1	+6	W	5	bc	51	97	50	8	8	-	-	4-6	4-6	1500	2	4
Malin Head	95.6	+8	SW	8	c-bc	52	85	50	8	9	-	-	7-8	7-8	1500	2	5
Aldergrove	00.9	+2	SW'W	7	c-bc	54	75	46	8	5	-	-	7-8	7-8	1200	1	•
Birr Castle	06.6	+8	SW	4	b-bc	53	85	49	8	3	-	-	2-3	2-3	1500	1	•
Valentia Obsy.	10.2	+24	SW'W	5	c-bc	52	85	48	8	5	7	8	2-3	7-8	2500	1	5
Roches Point	09.7	+2	WSW	5	bc/d	52	97	51	8	5	-	5	2-3	4-6	800	1	5

PAST 24 HOURS.

Stations	Weather 7h.—13h. 7th (39)	13h.—18h. 7th (40)	18h. 7th to 1h. 8th (41)	1h.—7h. 8th (42)
London (Kew)	czo c	ciro c	cirodo cbc	bccro bc
Croydon	cmo zo	cmczom	cidobccmo	cidomobc
S. Farnborough	cido c	iroidom	cidodoromo	bmocrob
Boscombe Down	c	cid romo	ciromocroro	cdodoc
Thorney Island	cidoc	cidoc	mocido	idocmo
Lympne	+ fodod	maddodom		cdodomoc
Manston	bcc	cirodo	bcidomoc	ccmoc
Shoeburyness	cmo	c	cidomoc	cmoc
Felixstowe	cmo	cmo	cbccmo	cmobcmo
Gorleston	cbco	cbcq	bcc	cprobc
Mildenhall	c	c	cb,cido	cidomb,c
Cranwell	cmo	cmo bccmo	cmobcmo	bcmobmobc
Birmingham	c	cp	coir	oc
Upper Heyford	idomoc	c	ccroro	rorobbcmo
Ross-on-Wye	cqc	cdoc	docdod	c
Hartland Point	cidoc	cbc	cddoc	dcbccbc
Bristol	cmoc	c	cdorododomo	bc
Portland Bill	oc	odd	o	bcirc
Plymouth	crodod	crorocmo	cmododo	cmo
The Lizard	cprc	cprc	oiddo	oddmo
Scilly (St. Mary's)	cpoc	cidoc	cidoiroc	c
Guernsey				
Pembroke	cq	cq	qiro	cbc
Holyhead (Valley)	odod mo	opdodomoc	cb	b
Chester (Sealand)	bcc	c	ctroc	b,c
Manchester	bccmoc	c	ciro	bcb
Spurn Head	cmo	cqmo	cqmo	bc
Catterick	cidomoc	czomo	czobczoc	cprobc
Tynemouth	c	cbcq	bcq	bcq
St. Abbs Head	crocpc	cqc	cbcbq	bqprb
Leuchars	ciromoc	cbc	bcpro	bbpro
Renfrew (Abbots I.)	cmorrroro	cmocmoiro	cmoirobc	bcprcpro
Eskdalemuir	rodo	orrm	oropr	cbc
Point of Ayre	c	c	cb	bcbc
Tiree	orrirc	oidirc	bccpropr	bcpRprbc
Stornoway	crorododo	cidororomo	cdodororo	crroiR
Dalwhinnie	oirc	crro		oirbc
Aberdeen	cmc	cqc	bbcb	bbcc
Wick	crrmo	crorormoc	bccroro	bc
Sumburgh	c	crrcrrorr+	cmororo	cmorrcbc
Blacksod Point	d	bc	bc	bc
Malin Head	+	c	r	b
Aldergrove	cidoc	c	cbccbcb	bcPRbc
Birr Castle	+	+		c
Valentia Obsy.	+	+	pr	bc
Roches Point	d	d	br	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 8th December

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands	Moderate west winds early, soon backing southwest freshening; becoming cloudy or dull with a period of drizzle; some local fog on South Coast hills; mild.
4 W. Midlands	As 6.
5 S.W. England	Fresh southwest winds, strong locally on the coast; dull; occassional drizzle; some hill and coast fog; mild and close.
6 South Wales, 7 North Wales, 8 N.W. England	Freshening southwest wind becoming strong to a gale locally on coast; dull; a short period of rain this afternoon; some coast and hill fog; mild and close.
9 N. Midlands, 10 N.E. England	Winds backing southwest to south increasing fresh to strong with gale on West coasts; becoming dull with rain at times; close.
11 S.E. Scotland, 12 S.W. Scotland & Isle of Man	Fresh westerly wind, backing southwest to south, strong locally later; fair early; occassional rain later; becoming mild.
13A W. Scotland	As 7-9.
13B N.W. Scotland, 14 Mid Scotland, 15 N.E. Scotland	Fresh westerly winds backing South increasing again strong to gale; showers and bright intervals today; dull; raining tomorrow;
16 Orkneys and Shetlands	rather cold becoming milder.
17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland, 20 S. W. Ireland	Strong to gale southwest winds, veering west moderating tomorrow, probably only temporarily; dull, rain at times; some brighter intervals tomorrow; close.

GENERAL INFERENCE

A ridge of high pressure is moving East across the British Isles and decreasing in intensity whilst a deepening depression will move quickly northeast over the Northeast Atlantic. Weather will become generally dull and mild again with some rain in the Northwest half of the country and coastal gales in the West.

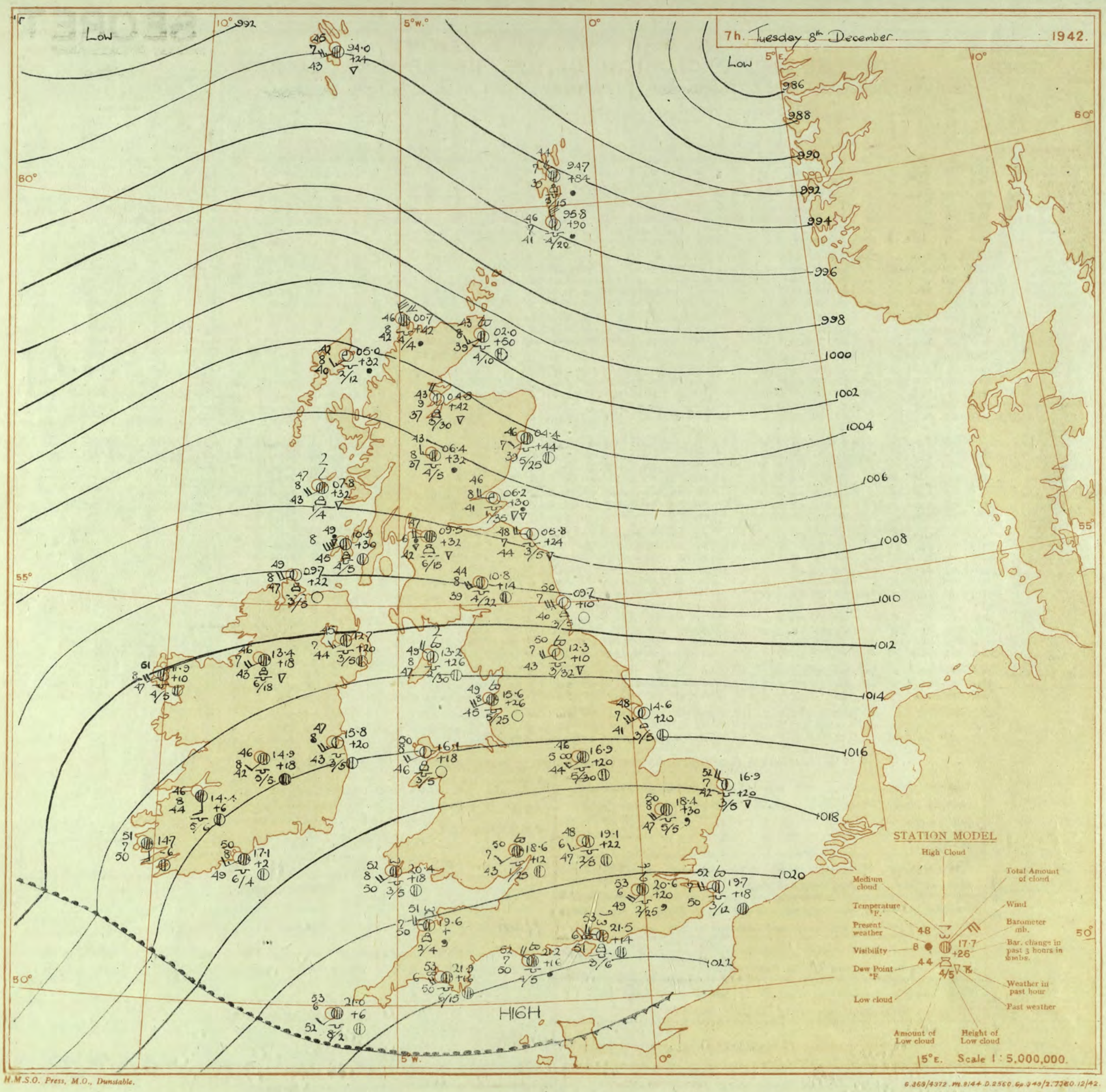
FURTHER OUTLOOK

Continuing mainly mild, rather stormy and unsettled.

Gale warning issued in districts. 6,7,8,12, 13A, 13B, 16, and 17-20. at 0945.

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.

6.369/4372. M.8144. D.2560. Gp.949/2.7780.12/42.

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

Explanation of Frontal Lines shown on Charts

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

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

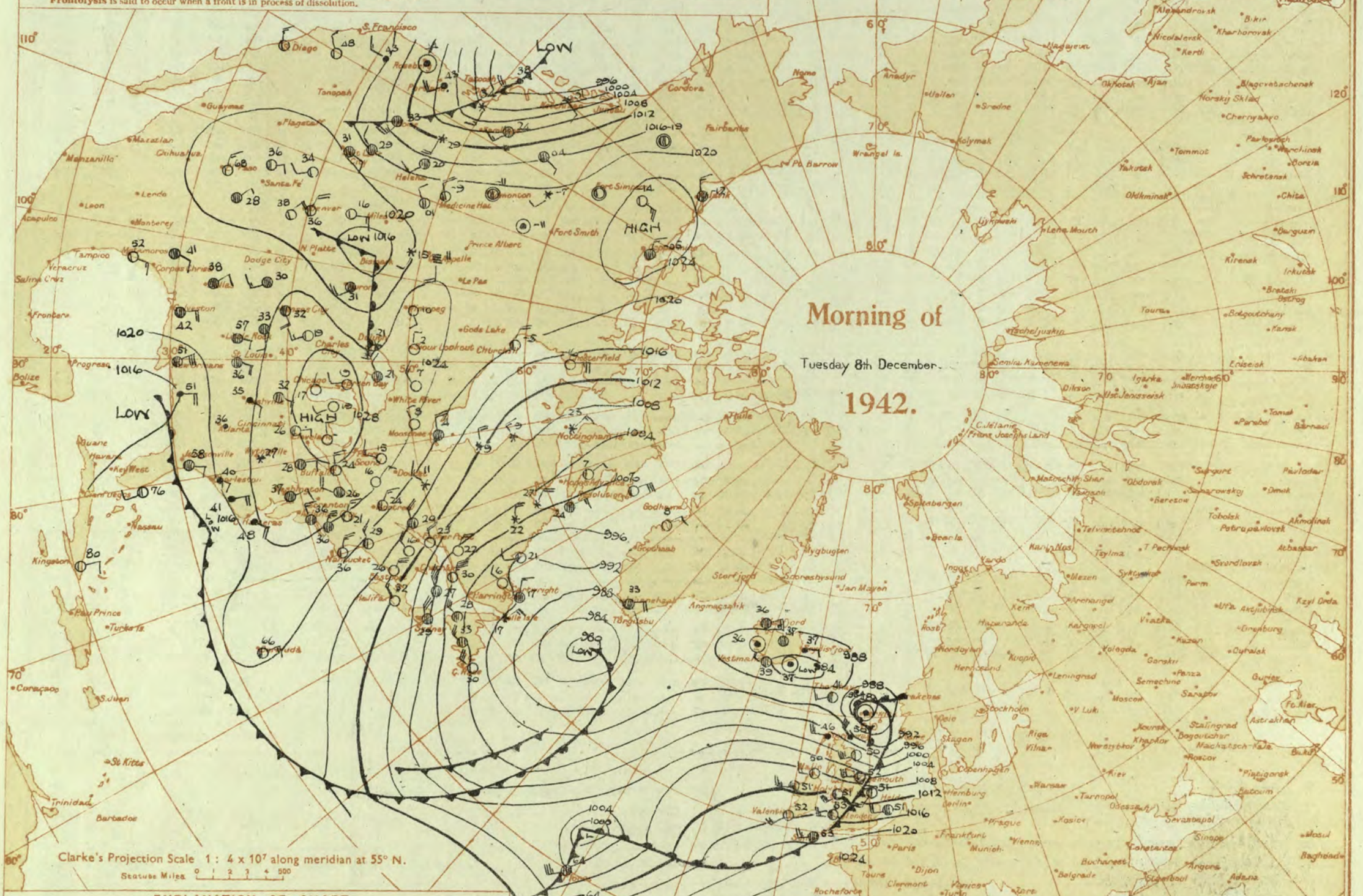
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

Page 4.

BRITISH SECTION

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

Tuesday 8th December 1942

No. 23601

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

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	*	*	*	*	*	53	*	*	*	*	*	*	*	*	*
	Croydon	290	18·3	+2	SW'S	6	zo	53	85	49	6	5	-	-	9+	9+	1500
	S. Farnborough	226	18·9	+10	SWW	4	dr	52	92	50	3	5	-	..	10	10	1000
	Boscombe Down	417	18·4	+4	SWS	5	roro	51	97	50	7	5	-	-	4-6	10	600
	Thorney Island	10	18·8	+6	WSW	4	ido	53	97	52	6	5	-	-	10	10	1800
	Lympne	283	19·2	-6	SSW	3	ido	50	97	49	6	5	/	-	10	10	1200
	Manston	154	17·6	-6	NSW	5	bc	51	92	49	7	5	-	-	4-6	4-6	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	16·6	0	SW	4	zo	50	85	47	5	5	-	-	7-8	7-8	2500
	Gorleston	5	14·6	0	W'S	4	c	51	85	46	7	5	-	..	10	10	1500
	Mildenhall	15	14·6	+2	SW	5	ido	52	85	48	6	5	-	-	10	10	4800
	Cranwell	203	12·1	+10	SWW	6	zo	52	92	49	6	5	-	-	4-6	4-6	2500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	15·8	+6	WSW	5	roro	50	97	50	7	5	-	-	10	10	600
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	16·2	+14	WSW	3	dd	52	97	52	3	5	2	-	9+	10	1500
	Bristol	209	17·4	+4	SSW	4	dodo	52	97	51	5	6	2	-	9	10	1800
	Portland Bill	32	19·0	+10	WSW	5	o	48	92	46	7	5	-	-	10	10	2500
	Plymouth	82	19·3	+2	SWW	5	ido	53	97	53	6	5	-	-	10	10	1000
	The Lizard	240	19·0	+6	NSW	5	o/d	53	97	53	7	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	19·1	+14	WSW	5	c	53	97	52	6	5	-	-	10	10	1000
	Guernsey	175															
6	Pembroke	142	16·1	+20	W	5	bc	53	97	52	9	5	-	-	4·6	4-6	2500
7	Holyhead (Valley)	32	12·4	+18	SW'S	3	b	51	85	46	8	5	-	-	Tr	Tr	4000
	Chester (Sealand)	16	12·0	+10	SWS	1	c	53	85	48	7	8	2	-	9	10	2500
8	Manchester	235	11·8	+8	SW	4	c-bc	51	85	46	7	5	-	-	7-8	7-8	2500
10	Spurn Head	29	10·3	+4	SW	5	cq	51	85	47	6	8	7	-	4-6	9+	2500
	Catterick	175	08·4	+20	W'S	3	bc	51	75	43	7	5	-	-	4-6	4-6	2500
	Tynemouth	108	06·0	+24	WSW	6	b-bcq	52	75	44	7	2	-	-	2-3	2-3	2500
11	St. Abbs Head	280	99·7	+18	W	5	b-bcq	50	85	46	7	5	-	-	2-3	2-3	2500
	Leuchars	36	99·4	+32	W	7	b	49	85	43	8	-	4	-	0	Tr	-
12	Renfrew (Abbots I.)	19	03·9	+22	SW	4	bc/r	47	85	43	7	5	-	-	4-6	4-6	1400
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	08·9	+20	W'N	5	b	49	85	46	8	*	*	*	*	*	*
13A	Tiree	44	02·2	+18	W	3	pr	47	97	45	7	8	-	-	4-6	4-6	1500
13B	Stornoway	15	98·0	+18	W	5	ifo	46	85	43	6	5	-	-	10	10	1000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	93·7	+34	W'S	8	b	50	65	39	8	5	-	-	1	1	3000
	Wick	114	87·3	+18	NW	8	roro	50	92	43	7	5	2	-	7·8	10	800
16	Sumburgh	19	82·8	-30	SW	5	roro	48	97	48	6	5	-	-	10	10	1500
17	Blacksod Point	18	09·4	+22	WSW	5	c-bc	51	85	47	8	8	-	-	7-8	7-8	2500
18	Malin Head	84	04·8	+32	W'S	4	b-bc	50	85	46	8	9	-	-	2-3	2-3	2500
	Aldergrove	268	08·1	+22	SW	3	b;p	46	85	42	7	5	-	-	Tr	Tr	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	15·0	+14	SW	4	b-bc/pr	52	85	48	7	2	-	-	2-3	2-3	2500
	Roches Point	22	15·7	+20	WSW	3	b-bc	50	92	48	8	5	.	-	2-3	2-3	2500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Med. (26)	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)	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 Hrs. (38)
London (Kew)	26·2	+20	SW	3	zo	52	92	49	6	5	-	1	4-6	4-6	2500	1	*	52	50	47	Tr	0·4	0·0
Croydon	20·6	+20	SW'S	4	c-bc	53	85	49	6	5	4	2	1	7-8	2500	1	*	53	50	47	Tr	0·3	0·0
S. Farnborough	20·6	+18	SW'W	3	b-bc	51	92	48	8	-	4	-	0	2-3	-	1	*	53	50	45	Tr	0·6	0·0
Boscombe Down	21·0	+20	SW'W	3	c-bc	49	92	47	7	5	-	-	7-8	7-8	2500	1	*	52	49	42	Tr	1	0·0
Thorney Island	21·5	+14	W	4	zo	53	92	51	6	8	3	1	2-3	4-6	4000	1		53	50	47	4	1	*
Lympne	21·3	+18	SW	2	c	50	97	50	7	5	-	-	9	9	1200	1	§5	52	49	47	0·3	0·3	0·0
Manston	19·7	+18	W'S	4	bc	52	92	50	7	5	7	-	2-3	4-6	1200	1	*	52	50	48	Tr	-	0·0
Shoeburyness	19·8	+20	WSW	4	c	51	85	47	7	5	--	-	9	9	1500	1	*	53	49	45	-	Tr	0·0
Felixstowe	19·0	+22	WSW	4	zo	50	92	46	6	5	-	2	4-6	7-8	2500	0	3	52	47	44	-	Tr	0·0
Gorleston	16·9	+20	WNW	4	b-bc	52	65	42	7	5	-	-	2-3	2-3	2500	0	3	52	50	47	-	Tr	2·4
Mildenhall	18·4	+30	SW'W	4	c-bc	50	92	47	8	5	-	-	7-8	7-8	4000	1	*	51	50	42	-	Tr	0·0
Cranwell	16·0	+26	W'S	4	zo	47	92	45	6	-	3	1	0	7-8	-	0	*	51	47	43	-	-	0·2
Birmingham	18·4	+24	SW	2	c-bc	48	88	44	8	-	1	2	0	7-8	-	1	*	51	47	43	-	1	0·0
Upper Heyford	19·1	+22	WSW	3	b-bc	48	97	47	6	5	-	6	1	2-3	2500	1	*	50	48	44	Tr	0·5	*
Ross-on-Wye	18·6	+12	SW'W	2	c	50	75	43	7	5	7	-	Tr	9	2500	1	*	51	50	44	Tr	0·1	0·0
Hartland Point	19·6	+20	W	4	bc	51	97	50	7	2	6	-	1	4-6	1500	1	4	51	50	49	Tr	3	0·0
Bristol	20·6	+20	W	3	zo	50	97	49	6	5	-	-	4-6	4-6	2500	1	*	52	49	46	-	0·3	0·1
Portland Bill	21·2	+16	W	4	c	52	92	50	7	5	7	-	4-6	10	2500	1	5	53	47	*	10	2	*
Plymouth	21·9	+16	WSW	4	zo	53	92	50	6	5	-	-	9	9	1300	1	3	54	51	49	0·3	1	0·5
The Lizard	21·7	+8	W	3	o	52	97	52	5	5	-	-	10	10	1000	1	4	54	51	*	1	2	1·1
Scilly (St. Mary's)	21·0	+6	SW'S	2	c	53	97	52	6	5	-	-	10	10	450	1	4	53	52	*	0·1	1	0·6
Guernsey																							
Pembroke	20·4	+18	SW'W	4	bc	52	92	50	8	5	3	-	2-3	4-6	2500	1	3	55	50	*	Tr	1	0·0
Holyhead (Valley)	16·1	+18	SW'S	4	b-bc	50	85	46	8	8	-	-	2-3	2-3	2500	1	4	54	49	46	0·2	-	*
Chester (Sealand)	15·9	+14	SSW	4	c-bc	51	75	43	7	5	6	8	2-3	7-8	4000	1	*	56	48	36	-	Tr	2·6
Manchester	16·2	+22	S'E	3	c-bc	45	85	42	8	5	-	-	7-8	7-8	2500	1	*	51	44	38	-	0·4	1·*
Spurn Head	14·6	+20	WSW	5	b-bc	48	75	41	7	1	-	-	2-3	2-3	2500	0	3	52	47	*	-	-	1·7
Catterick	12·3	+10	W'S	4	b-bc	50	75	43	7	5	7	-	2-3	2-3	3200	1	*	54	49	43	0·1	0·5	1·1
Tynemouth	09·7	+10	WSW	6	b-bcq	50	75	40	7	2	-	-	2-3	2-3	2500	0	4	56	49	44	-	-	*
St. Abbs Head	05·8	+24	W	5	b-bc	48	85	44	7	5	-	-	2-3	2-3	2500	0	5	54	41	*	0·1	0·2	
Leuchars	06·2	+30	W	4	b/pr	46	75	41	8	5	-	-	Tr	Tr	3500	1	*	55	46	41	0·5	Tr	0·0
Renfrew (Abbots I.)	09·5	+32	W'S	4	pr	47	85	42	6	9	-	-	9	9	1500	2	*	55	44	41	6	7	0·0
Eskdalemuir	10·8	+14	WSW	4	bc	44	85	39	8	5	-	-	4-6	4-6	2200	1	*	51	43	41	4	5	0·0
Point of Ayre	13·2	+26	W'N	4	bc	49	92	47	8	5	7	6	1	4-6	3000	0	3	56	48	*	-	-	1·8
Tiree	07·8	+32	WSW	4	c-bc	47	85	43	8	8	4	6	Tr	7-8	1500	1	4	55	45	36	6	2	0·0
Stornoway	05·0	+32	SW	3	b	42	92	40	8	5	-	-	1	1	1200	1	*	53	41	35	14	9	0·0
Dalwhinnie	06·4	+32	W	3	bc	43	75	37	8	5	-	-	4-6	4-6	2500	1	*	51	41	37	15	4	0·0
Aberdeen †	04·4	+44	WSW	2	c-bc	46	75	39	7	5	-	-	7-8	7-8	2500	1	3	56	46	41	-	-	0·0
Wick	02·0	+50	WSW	3	bc	43	85	39	8	5	7	-	4-6	4-6	1000	1	*	48	43	29	12	5	*
Sumburgh	95·8	+90	NW	7	bc	46	88	41	7	5	-	-	4-6	4-6	2000	1	4	48	42	42	5	9	0·0
Blacksod Point	11·9	+10	WSW	4	bc	51	85	47	8	5	-	-	4-6	4-6	2500	1	3	56	49	*	5	-	
Malin Head	09·7	+22	W'S	4	b-bc	49	92	47	8	9	-	-	2-3	2-3	2500	2	4	55	48		1	Tr	0·5
Aldergrove	12·7	+20	WSW	3	bc	45	92	44	7	5	-	6	2-3	4-6	2500	1	*	55	44	41	Tr	0·5	0·0
Birr Castle	14·9	+18	SSW	2	c-bc	46	92	42	8	5	-	-	7-8	7-8	2500	1	*	54	45	41	1	-	0·2
Valentia Obsy.	14·7	-6	SSE	4	c	51	97	50	7	5	-	-	9	9	2500	1	4	55	50	46	3	Tr	0·1
Roches Point	17·1	+2	WSW	3	c	50	97	49	8	5	-	-	9	9	1500	1	5	53	48	*	1	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 7th December $C_L C_M$	$wwVhN_h$	DDFWN	18h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN	01h. G.M.T. 8th December $C_L C_M$	$wwVhN_h$	DDFWN	07h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN
109	52	22634	18168				5-	61648	19368	50	01653	24563
115	--	67109	08369	52	64635	16368	52	64734	35767	52	02844	35766
203	6-	62828	18568	6-	64728	18668						
206	52	63607	22168	50	22764	65764	20	81961	56781	20	01963	26483
210	59	22853	16266	5-	08862	19162	5-	02837	55817	20	25963	53493
220	5-	64618	20668	5-	63338	17768	.			50	81645	22588
230	62	63645	51468	5-	64648	18668	8-	22846	55566	8-	25846	55586
245	57	02844	99355	5-	02747	51627	54	00951	54501	60	01962	22302
260	57	02745	53527	57	02744	53525	50	01754	53664	5-	22655	53565
278	57	02846	19458	5-	02745	51525	50	02841	55521	54	01851	23413
279	52	62625	19768	5-	21648	53968	50	01762	53612	5-	01764	55564
285										27	81625	24687
288	5-	51647	27557	57	05652	51628	50	01851	53581	19	01851	55404
575	5-	51848	53468	5-	61738	51668	50	01843	22413	8-	02756	22486
301	5-	02835	53525	5-	02848	20628	00	00890	24520	57	02855	22407
321	5-	05655	20426	5-	02754	11524	22	02755	24317	53	05654	20325
299				54	05654	20815	2-	02754	22324	50	01753	24414
292	57	05645	21427	5-	05645	05115	50	05643	22453	50	01743	23313
310										--	01634	20314
614	57	05656	20327	5-	05556	55428	52	22537	55468	5-	05565	22115

III	13h. G.M.T. 7th December $C_L C_M$	$wwVhN_h$	DDFWN	18h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN	01h. G.M.T. 8th December $C_L C_M$	$wwVhN_h$	DDFWN	07h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN
333				5-	51638	18558	50	05663	21353	5-	02764	20827
334	--	53537	28388	--	58537	28387						
340	54	02844	53427	5-	02869	55528						
136	57	02734	54427	57	02744	21424	5-	51744	53628	04	01790	20513
336				57	02656	20428				53	01753	24415
350	5-	02857	54427	5-	02758	53427				50	05664	20324
368	5-	02754	20428	52	02745	20468	5-	61635	53468	24	01754	20384
379	5-	02838	53428	5-	02348	20428	5-	52628	55458	53	05·58	20415
390	5-	05545	02448	5-	05546	55427				5-	08444	20464
382	5-	02856	55428	5-	02848	55558	5-	52748	55468	07	01790	22815
438	5-	03538	22658	52	02631	22628	5-	03638	22558	5-	57138	24458
430				5-	51548	55468						
409	84	02835	19566	52	52727	20458	5-	05618	18468	52	05647	22327

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 8th December.
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	czoccirc	cirodobcc	cirodbc
Croydon	cmo zo	cmczm	cidmbc
Greenwich	c	c	cidc
Camden Square	c	c	*
Kensington	c	c	*
Hampstead	o	or	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·2 Time 16-20h 7th. Min. <0·1 Time 0-5h. 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	52	50	47	Tr	0·4	0·0	*	*
Croydon	53	50	47	Tr	0·3	0·0	*	*
Greenwich	53	50	43	-	0·3	0·0	70	86
Westminster	54	50	44	*	*	*	61	89
Regents Park	53	50	48	-	0·3	*	61	89
Camden Square	53	50	45	-	0·3	*	81	91
Kensington	54	51	45	-	0·3	*	81	91
Hampstead	51	48	44	0·4	-	*	*	93

SECRET

Page 1 BRITISH SECTION

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

Wednesday 9th December 1942

No. 29602

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	23·0	+14	SW	2	zo	52	85	48	6	7	7	-	7-8	10	4000
	Croydon	24·0	+14	SW	4	c	54	85	48	7	5	7	-	7-8	10	4000
	S. Farnborough	23·8	+10	SW	3	c	54	85	48	7	5	7	-	2-3	9+	2000
	Boscombe Down	23·2	-2	SWS	4	c	52	85	48	8	5	-	-	9+	9+	1600
	Thorney Island	24·2	+10	SW'W	3	ido	54	85	50	7	5	-	-	7-8	10	1500
	Lympne	24·3	+4	SW	2	c	53	92	51	7	5	7	-	2-3	10	500
	Manston	23·5	+12	WS	3	c	54	85	48	8	-	7	8	0	9+	-
2	Shoeburyness	23·1	+8	WSW	2	zo	53	85	48	6	5	7	-	4-6	9+	4000
	Felixstowe	22·1	+8	SWW	2	zo	52	85	47	6	5	7	-	7-8	9+	4000
	Gorleston	20·6	+10	WSW	3	c	52	85	47	7	5	-	-	9+	9+	2000
	Mildenhall	21·0	+2	SSW	2	zo	52	85	47	6	5	7	-	7-8	9+	4000
	Cranwell	19·8	+10	SWW	4	zo	50	85	46	6	-	3	2	0	9+	-
3	Birmingham	21·2	+10	SSW	2	c	50	85	46	8	5	7	-	7-8	9+	1500
	Upper Heyford	22·1	+14	SW	3	c	50	85	46	7	5	7	-	4-6	9+	1200
4	Ross-on-Wye	20·8	0	SSW	4	c	52	85	47	7	5	7	-	2-3	9+	2000
5	Hartland Point	20·6	-4	WSW	4	ido	53	92	51	4	5	-	-	10	10	1000
	Bristol	22·5	-8	WSW	3	c	52	85	48	7	5	7	9	2-3	9+	1500
	Portland Bill	23·6	+2	SW	4	c	53	85	49	7	5	3	-	10	10	2500
	Plymouth	23·7	0	SSW	4	dodo	53	97	53	4	5	-	-	10	10	100
	The Lizard	23·0	+2	WSW	4	df	53	97	53	2	5	-	-	10	10	200
	Scilly (St. Mary's)	21·8	-2	SSW	5	o/f	53	97	53	5	5	-	-	10	10	200
	Guernsey															
6	Pembroke	20·5	-8	SW	4	c	53	92	51	8	5	-	-	9+	9+	2500
7	Holyhead (Valley)	17·7	-2	SSW	6	c	52	85	49	7	5	1	-	9+	10	1000
	Chester (Sealand)	18·1	-6	W	3	c	54	75	45	8	5	4	6	4-6	9+	3500
8	Manchester	19·1	+8	SE	3	zo	51	85	45	6	5	3	2	2-3	9+	2500
10	Spurn Head	18·2	+12	SW'W	4	zo	49	85	43	6	7	2	-	7-8	10	2800
	Catterick	17·3	+10	W	3	c	52	75	43	7	5	7	8	4-6	9+	2000
	Tynemouth	15·9	+10	WSW	3	c-bc	51	75	43	6	5	3	-	4-6	7-8	2800
11	St. Abbs Head	12·3	-2	WSW	4	c	49	85	46	7	5	4	-	7-8	9	3500
	Leuchars	12·2	+22	SW	2	c	49	75	43	7	8	7	6	1	9	3500
12	Renfrew (Abbots I.)	12·7	+6	SSW	2	c	50	85	44	8	5	7	6	2-3	10	1200
	Eskdalemuir	14·7	+10	WSW	2	c	46	85	42	8	5	1	-	9	9+	1800
	Point of Ayre	15·2	-6	WSW	4	c	52	85	47	8	5	7	-	4-6	10	3000
13A	Tiree	09·7	0	S'W	4	c	50	92	47	7	6	2	-	10	10	7200
13B	Stornoway	07·1	+10	SSW	4	c	47	85	42	8	8	7	-	4-6	9+	2000
15	Dalwhinnie	10·5	+8	SW	3	bc	43	75	47	8	8	4	9	2-3	4-6	4000
	Aberdeen	11·1	+26	SW	2	z	47	65	36	4	-	5	-	0	9+	-
	Wick	07·5	+18	SSW	3	bc	44	85	41	9	8	4	4	2-3	4-6	2000
16	Sumburgh	04·0	+30	WN	6	c-bc	48	85	44	8	3	6	3	4-6	7-8	2000
17	Blacksod Point	06·0	-42	SE	5	rr	52	97	51	7	6	2	-	4-6	10	800
18	Malin Head	09·5	-10	S'W	5	c	50	75	42	8	5	2	-	7-8	10	1500
	Aldergrove	13·9	-6	SSE	3	roro	48	85	45	7	5	2	-	9+	10	800
19	Birr Castle	12·8	-22	SSE	4	c	51	92	49	7	6	2	-	7-8	10	800
20	Valentia Obsy.	11·6	-16	S'W	6	c	55	92	53	7	5	-	-	9+	9+	1500
	Roches Point	16·2	-10	SW'S	4	dd	52	97	51	5	5	-	5	10	10	450

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

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)	23·3	+2	SW	3	zo	52	92	50	5	5	-	-	10	10	800	1	*
Croydon	23·9	+2	SW'S	3	ido	53	92	51	5	5	-	-	10	10	500	1	*
S. Farnborough	23·3	0	SW	4	c	53	92	51	7	5	7	-	9	10	900	1	*
Boscombe Down	23·3	0	S'W	4	dodo	52	97	51	5	6	-	-	4-6	10	200	1	*
Thorney Island	24·2	+4	SSW	3	dodo	52	97	51	5	5	-	-	10	10	800	1	*
Lympne	24·9	+6	SW	3	dF	51	97	51	1	-	-	-	10	10	<150	1	§3
Manston	24·3	+10	SW	3	c	52	92	49	8	5	-	-	9	10	1000	1	*
Shoeburyness	23·4	+2	SW	3	zo	52	85	48	5	5	7	-	4-6	9	4000	1	*
Felixstowe	22·7	0	SSW	2	zo	47	97	46	5	-	7	-	0	2-3	-	0	2
Gorleston	22·4	+8	WSW	2	zo	49	85	46	6	5	-	-	9	9	1500	0	3
Mildenhall	22·7	+10	SSW	3	zo	50	85	46	6	5	-	-	4-6	4-6	4000	1	*
Cranwell	19·6	-2	SW	4	zo	50	85	46	6	5	7	-	4-6	9+	5600	0	*
Birmingham	20·3	-4	S	3	o	50	92	48	6	5	-	-	10	10	450	1	*
Upper Heyford	21·5	-4	SW	2	zo	51	92	49	6	5	-	-	10	10	900	1	*
Ross-on-Wye	19·9	-6	SW'S	4	c/d	54	85	51	6	5	1	-	9	9+	2000	1	*
Hartland Point	18·9	-4	WSW	5	c	53	97	53	7	5	2	-	9	10	1500	1	4
Bristol	22·3	+2	S	2	c	54	85	51	7	5	-	-	10	10	2400	1	*
Portland Bill	23·4	0	SW	4	bc	52	85	48	7	5	-	-	4-6	4-6	2500	1	4
Plymouth	23·4	+2	SW	4	c/d	52	97	52	6	5	-	-	7-8	9+	600	1	3
The Lizard	22·0	0	SW	5	bc	51	97	51	8	3	-	-	4-6	4-6	1500	1	5
Scilly (St. Mary's)	20·3	-6	SW'S	5	c	53	92	51	6	5	-	-	10	10	500	1	4
Guernsey																	
Pembroke	18·8	-2	SW	6	dodo	52	97	52	6	6	1	-	7-8	9+	2000	1	4
Holyhead (Valley)	15·7	-2	S'W	6	dodo	52	97	51	4	5	-	-	10	10	600	1	5
Chester (Sealand)	16·4	-14	SSE	1	c-bc	52	85	48	6	5	7	-	7-8	7-8	4000	0	*
Manchester	17·1	-14	SE'S	4	zo	51	85	46	6	5	7	-	4-6	10	1500	1	*
Spurn Head	19·8	+8	SW'S	3	zo	49	85	49	6	5	2	-	7-8	10	1500	0	3
Catterick	16·1	-12	S	3	iro	50	85	46	4	5	7	-	2-3	9+	2600	1	*
Tynemouth	15·8	-6	SSW	3	o	51	85	46	6	5	-	-	10	10	2500	1	3
St. Abbs Head	11·6	-12	SSW	3	roro	47	97	47	7	5	-	-	10	10	2500	1	3
Leuchars	10·9	+16	SSW	1	c/r	47	85	43	6	5	2	-	4-6	10	4400	1	*
Renfrew (Abbots I.)	09·5	-26	SE	2	roro	49	97	49	5	6	2	-	9	10	1000	2	*
Eskdalemuir	12·4	-14	SSW	5	rr	47	97	46	6	-	2	-	10	10	500	1	*
Point of Ayre	12·2	-24	SW'W	6	rr	53	97	52	7	6	2	-	7-8	10	600	1	4
Tiree	03·6	-38	S	6	roro	50	97	49	6	6	2	-	9	10	1500	1	6
Stornoway	03·7	-10	S	6	roro	48	85	44	6	5	2	-	9	10	1400	1	*
Dalwhinnie	08·0	-10	S	4	o	43	85	38	7	5	-	-	10	10	2500	1	
Aberdeen	10·4	-6	SSW	3	zo	47	85	42	6	-	7	-	0	10	-	1	2
Wick	07·2	-6	S	2	c	45	85	42	7	5	2	-	4-6	10	3500	1	*
Sumburgh	06·0	+2	WSW	4	c	47	92	45	8	5	5	7	2-3	10	2000	1	
Blacksod Point	04·4	-2	SW'S	5	dd	54	97	53	7	6	2	-	4-6	10	800	2	4
Malin Head	04·2	-18	S	4	r	53	85	49	8	5	2	-	7-8	10	1500	1	4
Aldergrove	09·5	-10	S'W	3	zo	53	92	50	6	5	2	-	9	10	1800	1	*
Birr Castle	10·7	-2	SW	4	c	54	85	50	7	6	2	-	7-8	10	800	1	*
Valentia Obsy.	10·1	-4	S'W	6	zo	54	92	52	6	5	-	-	10	10	1500	1	5
Roches Point	14·6	-2	SW'W	4	o/d	52	97	51	7	5	-	-	10	10	450	1	5

PAST 24 HOURS — WEATHER

Stations	7h.—13h. 8th (39)	13h.—18h. 8th (40)	18h. 8th to 1h. 9th (41)	1h.—7h. 9th (42)
London (Kew)	bccmo	cmo	ciro cmo	cmobc
Croydon	c	cmocidmo	cmodd	cmdodomo
S. Farnborough	bbcc	c	cidodomo	cbcc
Boscombe Down	cbcc	ccdodomo	cdomoc	c
Thorney Island	cmo cido	docmoddo	dodocmo	cmobcmo
Lympne	cmommo	cofdo	omo	omooc
Manston	cvc	c	cmoido	cmoc
Shoeburyness		cmo		cmoc
Felixstowe	bcmowcmo	cmobcmo	cmo	cmo
Gorleston	c	cmo	czo	czoc
Mildenhall	ccmo	cmobcmo	bccmoc	c
Cranwell	bc,c	cmo	cbcmo	bcmocmo
Birmingham	bcproc	co	oc	c
Upper Heyford	bcmocmo	ccmo	cdodomoc	cmo
Ross-on-Wye	c	ccdo	c	c
Hartland Point	bccido o	bccidooc	c	c
Bristol	bcmobcc	c	cmo	cmo
Portland Bill	co	obc	o	c
Plymouth	cirdodomo	cdodidmo	cbcmopr	cmoidocmo
The Lizard	F ddf	idobc	oidoc	coq
Scilly (St. Mary's)	FF ffe	cidoc	cidoc	c
Guernsey				
Pembroke	c	cidmoddo	oided	cq
Holyhead (Valley)	c	odcdomo	oddomo	oddomo
Chester (Sealand)	c	czo	cbc	bcc
Manchester	bccmo	cmo	cmobc	czo
Spurn Head	cmo	cmo	c	c
Catterick	c	cczoiromo	orofbcmo	cmoc
Tynemouth	bcqc	como	oirbc	cbc
St. Abbs Head	bccqc	cro	criroc	cbbc
Leuchars	bc	bccroromoc	cmororo	crocmo
Renfrew (Abbots I.)	bcproc	ccmororo	cmororoc	cmo
Eskdalemuir	bcc	iro crr	crr	crroc
Point of Ayre	bcc	cddrr	rrc	cbcc
Tiree	coc	crrroro	crrdororo	crororoc
Stornoway	bcc	croromo	crorodde	crororrmo
Dalwhinnie	bcprc	bcc		oirc
Aberdeen	cbccz	czzo	crorriro	cirobcc
Wick	bccbc	c	crrc	croroc
Sumburgh	bcproc		cmorr roro	cmororoiro
Blacksod Point	r	d	r	r
Malin Head	c	r	r	r
Aldergrove	cmororo	crrcmo	cmoc	cidoc
Birr Castle	r	c	*	c
Valentia Obsy.	r	d	d	r
Roches Point	r	d	c	d

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 9th December.

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Moderate to fresh south-southwest winds; mainly cloudy; some brighter intervals locally at first; mild.
5 S.W. England; 6 South Wales ✦; 7 North Wales; 8 N.W. England	Fresh to strong southerly winds, gale at times over coast; overcast; occassional drizzle chiefly near the coast; local hill fog; mild.
9 N. Midlands; 10 N.E. England	Fresh southerly winds, strong locally; mainly overcast; mild.
11 S.E. Scotland; 12 S.W. Scotland & Isle of Man ✦	Fresh or strong south to southwest winds; cloudy to overcast; occassional rain especially tonight; mild.
13A W. Scotland ✦; 13B N.W. Scotland ✦; 14 Mid Scotland; 15 N.E. Scotland ✦	Strong to gale southerly winds; overcast; rain at times; mild.
16 Orkneys and Shetlands; 17 N. W. Ireland ✦; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	F/S 13A-15.

GENERAL INFERENCE

An extensive and complex area of low pressure covers much of the North Atlantic and secondary disturbances are moving north-north east off our western seaboard. Weather will continue mild with rain at times in the West and North, but with mainly fair conditions over much of England.

FURTHER OUTLOOK

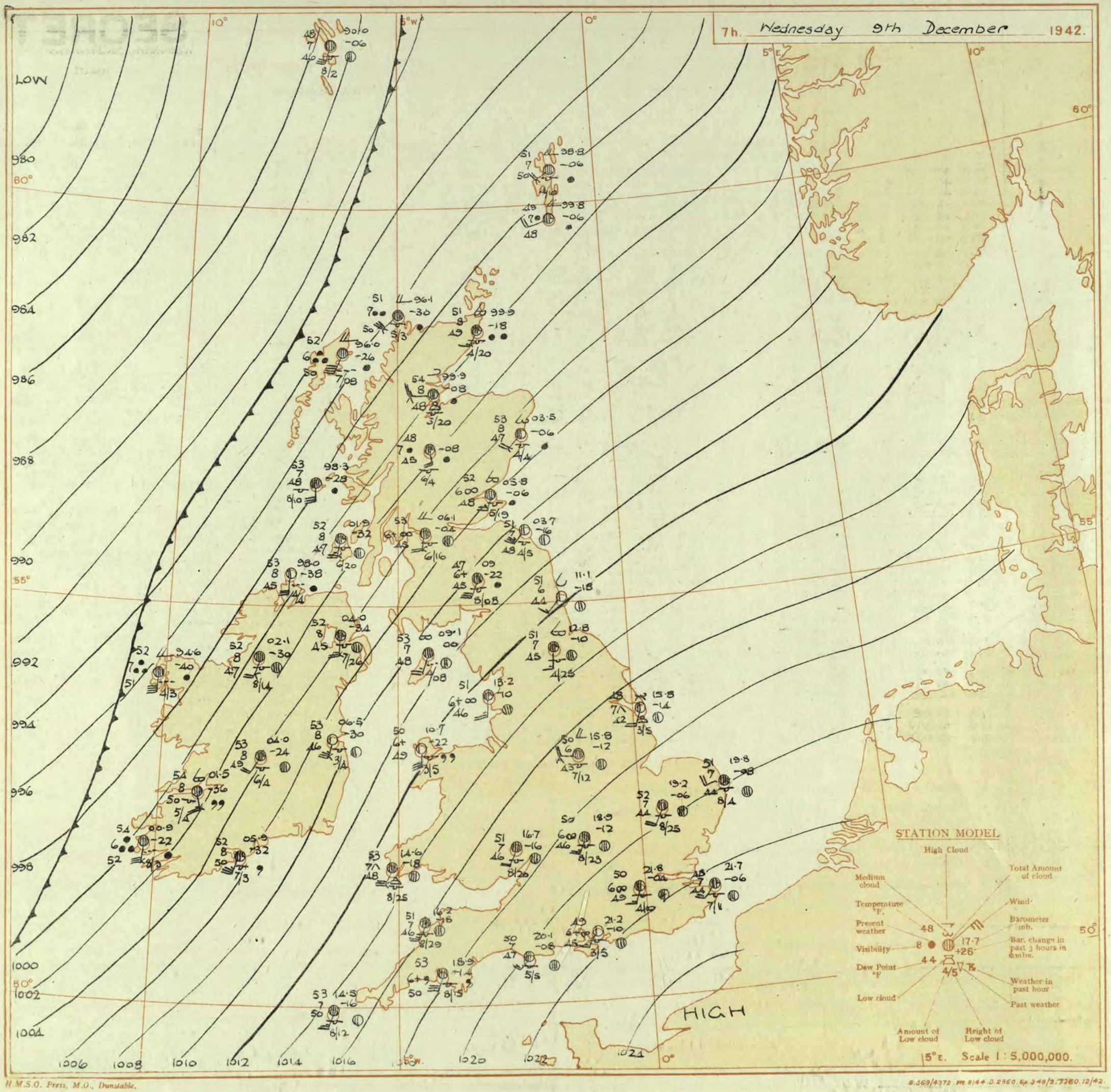
Continuing mild generally; occasional rain in the West and North.

Gale warning issued in districts { 6, 7, 8, 12, 13A, 13B, 16 and 17-20 at 0945h. 8th Dec. 42 / South of 5, 15. 0540h. 9th Dec. 1942.

Forecasts issued at 1030

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

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



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

6.369/4372. m.8144. D.2560. 6p. 948/2. 7750. 12/42.

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).

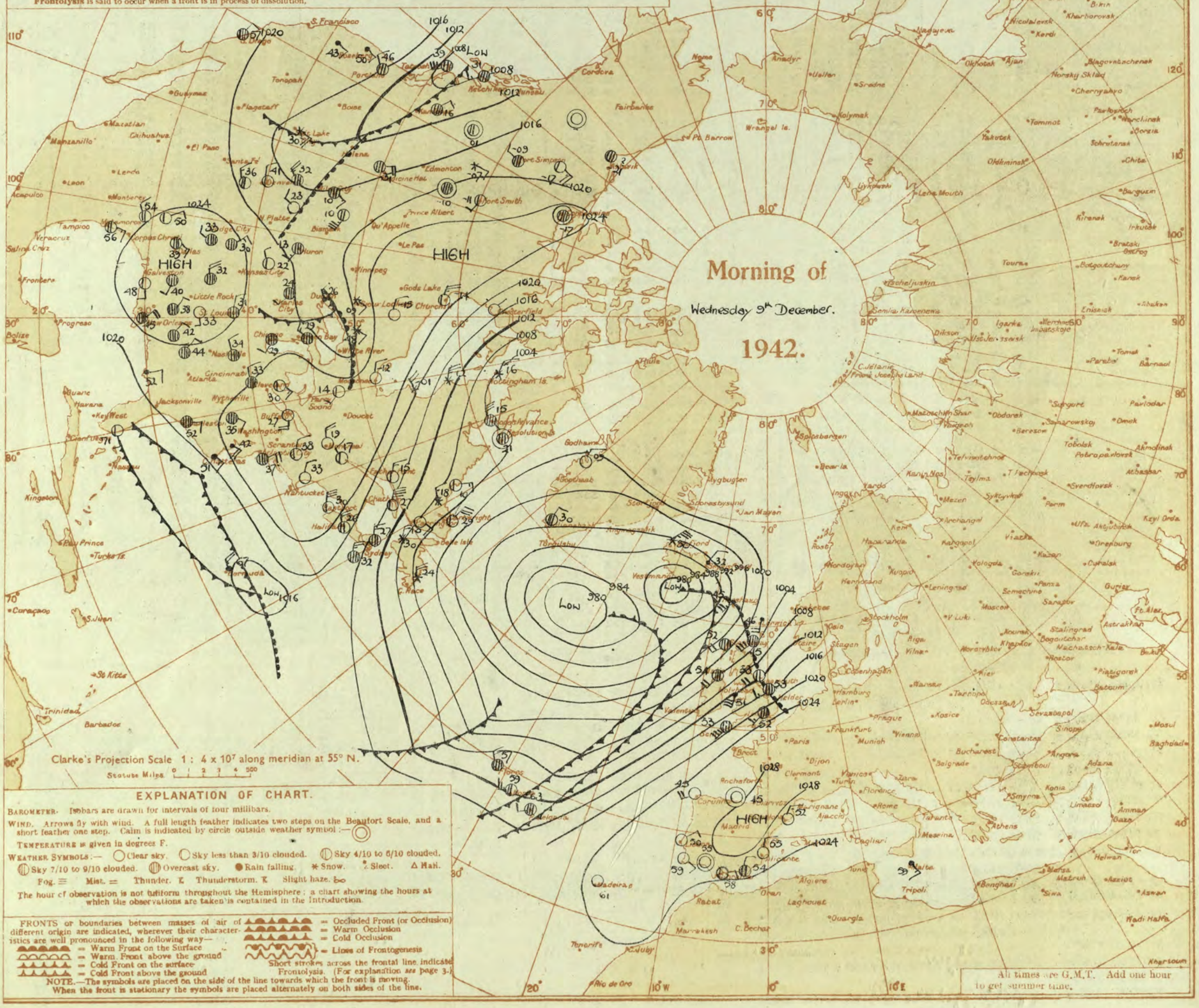
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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 9th December 1942

No. 29602

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

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	*	*	*	*	*	52	*	*	*	*	*	*	*	*	*
	Croydon	290	23·3	-8	SSW	3	2o	52	85	48	6	5	-	-	10	10	1800
	S. Farnborough	226	27·4	-14	SW	4	0/d	51	85	47	6	5	-	-	10	10	1000
	Boscombe Down	417	22·6	-6	S'W	5	c	50	85	46	8	5	-	-	10	10	1800
	Thorney Island	10	23·3	-12	SW	3	2o	52	85	47	6	5	-	-	10	10	2300
	Lympne	283	24·4	-6	SW	3	2o	50	92	49	6	5	-	-	10	10	400
	Manston	154	23·2	-8	WSW	4	2o	51	85	48	6	5	-	-	10	10	900
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	21·2	-14	SW	6	2o	50	92	48	5	5	-	-	10	10	1200
	Gorleston	5	21·4	-6	SW	3	2o	49	85	45	6	5	-	-	10	10	800
	Mildenhall	15	20·7	-10	SWS	4	c	53	85	49	7	5	-	-	10	10	1300
	Cranwell	203	17·7	-10	SW'W	6	2o	52	85	48	6	5	-	-	4-6	4-6	1800
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	21·1	-6	SSW	4	0/d	50	85	47	5	5	-	-	10	10	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	10·6	-4	SW	5	c	50	92	47	7	5	-	-	9	9	1500
	Bristol	209	22·0	-8	S	3	2o	52	85	47	6	5	-	-	10	10	1900
	Portland Bill	32	22·4	-10	SW	4	o	52	92	50	7	5	-	-	10	10	2500
	Plymouth	82	22·2	-10	SW	5	2o	53	85	49	6	5	-	-	10	10	1000
	The Lizard	240	20·8	-6	SW	6	c	52	85	48	7	5	2	-	9	10	1000
	Scilly (St. Mary's)	163	18·6	-14	S'W	5	c	53	85	48	7	5	-	-	9	9	1500
	Guernsey	175															
6	Pembroke	142	17·8	-2	SW'S	6	roro	51	97	51	7	8	-	-	7-8	7-8	2500
7	Holyhead (Valley)	32	14·8	-10	S	6	dodo	51	92	49	5	6	2	-	10	10	1400
	Chester (Sealand)	16	15·9	0	SSW	3	bc	53	75	45	7	5	-	-	4-6	4-6	2500
8	Manchester	235	16·5	-6	SSE	5	c-tr	51	75	45	7	5	-	-	4-6	7-8	2100
10	Spurn Head	29	17·8	-6	SW	4	c	53	85	47	7	7	-	-	9	9	2500
	Catterick	175	14·3	-8	SW	4	2o	53	85	47	6	5	-	-	4-6	4-6	1500
	Tynemouth	108	13·2	-4	SSW	4	bc	53	85	48	6	2	-	-	4-6	4-6	2500
11	St. Abbs Head	280	06·7	-8	SSW	5	c	51	97	51	7	5	-	-	10	10	2500
	Leuchars	36	06·9	-2	SSW	5	roro	53	92	50	6	5	2	-	7-8	10	1700
12	Renfrew (Abbots I.)	19	07·5	-2	SSW	5	m/r	53	85	50	4	5	2	-	7-8	10	1400
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	11·0	-8	SW'W	6	c-bc	53	85	49	8	8	:	:	7-8	7-8	1000
13A	Tiree	44	03·0	-2	SSW	6	roro	54	85	50	6	6	2	-	9+	10	800
13B	Stornoway	15	99·9	+14	SSW	4	c	52	92	50	7	5	-	-	9	9	1200
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	04·9	-14	SW	4	c	51	92	49	7	5	7	-	4-6	10	1100
	Wick	114	01·6	-22	S'W	5	c	45	85	42	8	5	7	-	7-8	10	1500
16	Sumburgh	19	01·7	-30	SW	5	roro	47	97	45	6	-	2	-	10	10	1000
17	Blacksod Point	18	01·5	-18	S'W	7	roro	53	97	53	7	6	2	-	4-6	10	800
18	Malin Head	84	03·4	-6	S'W	4	c/r	54	85	50	8	5	2	-	7-8	9+	1500
	Aldergrove	268	08·4	-6	S'W	4	c	53	85	48	7	5	-	-	10	10	1700
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	06·3	-30	S	6	0/d	54	92	52	6	5	-	-	10	10	1500
	Roches Point	22	11·9	-20	SSW	6	o	52	92	50	8	5	-	-	10	10	800

OBSERVATIONS at 7 hr. G.M.T. 9th December — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 9th Hrs. (38)
London (Kew)	20·6	-4	SWS	3	b-bc	49	85	45	7	5	4	1	1	2-3	2500	1	*	52	49	45	-	Tr	0·3
Croydon	21·8	-4	SSW	3	2o	50	85	49	6	5	-	-	4-6	7-8	1000	1	*	55	46	47	Tr	-	0·3
S. Farnborough	20·8	-6	S	2	c	49	85	45	7	5	7	-	9	9+	2000	1	*	54	48	42	-	Tr	0·6
Boscombe Down	20·0	-14	S'E	4	c	49	85	45	8	5	-	-	9+	9+	2100	1	*	53	48	42	0·1	0·2	0·1
Thorney Island	21·2	-10	SW'S	3	2o	49	85	45	6	5	-	-	2-3	2-3	2500	1	*	54	49	44	0·4	Tr	*
Lympne	22·5	-10	SW	4	c	47	85	42	7	5	-	-	10	10	900	1	§1	54	47	46	Tr	Tr	0·2
Manston	21·7	-6	SW'W	4	c	48	85	44	7	5	-	-	9+	9+	1100	1	*	54	48	48	-	Tr	1·1
Shoeburyness	21·7	-2	SW	3	c	50	85	45	6	5	-	-	9+	9+	1500	1	*	55	49	47	-	-	0·5
Felixstowe	21·0	-2	S'W	3	2o	49	85	45	6	5	7	-	9+	10	2000	0	3	52	46	42	-	-	0·0
Gorleston	19·8	-8	WSW	4	c	51	75	44	7	5	-	-	10	10	1500	0	3	52	48	44	-	-	0·0
Mildenhall	19·2	-6	SSW	4	c	52	75	44	7	5	-	-	10	10	2500	1	*	52	49	43	Tr	-	0·0
Cranwell	16·3	-10	SW'W	6	2o	50	85	46	6	5	7	-	9	10	3000	0	*	50	49	46	-	-	0·0
Birmingham	16·6	-10	SSW	4	c	50	75	42	8	5	-	-	9	9	1500	1	*	50	49	46	0·1	-	0·0
Upper Heyford	18·9	-12	SSW	5	2o	50	85	46	6	5	-	-	10	10	2300	1	*	51	49	48	-	Tr	*
Ross-on-Wye	16·7	-16	SSW	4	c	51	85	46	7	5	-	-	10	10	2000	1	*	54	51	48	Tr	-	0·2
Hartland Point	16·2	-18	SSW	5	c	51	85	46	7	5	-	-	10	10	2900	1	5	54	50	49	Tr	1	0·0
Bristol	18·8	-6	S	4	c	51	85	48	7	5	-	-	10	10	2500	1	*	55	49	49	-	-	0·0
Portland Bill	20·1	-8	SW	4	c-bc	50	92	47	7	5	-	-	7-8	7-8	2500	1	4	53	48	*	0·2	-	*
Plymouth	18·9	-14	SSW	6	ido	53	92	50	6	5	-	-	10	10	1500	1	4	53	51	50	1	1	0·0
The Lizard	16·6	-16	SW	7	o	52	85	46	7	5	-	-	10	10	1000	0	5	53	50	*	1	Tr	0·0
Scilly (St. Mary's)	14·5	-16	SSW	5	c	53	85	50	7	5	-	-	10	10	1200	1	4	53	51	*	Tr	Tr	0·0
Guernsey																							
Pembroke	14·6	-18	SW'S	7	cg	53	85	48	7	8	-	-	10	10	2500	1	4	53	42	*	0·4	1	0·0
Holyhead (Valley)	10·7	-22	S	6	bcd/d	50	92	49	6	5	-	-	2-3	2-3	2500	1	5	52	49	47	0·4	2	*
Chester (Sealand)	14·0	-10	S'E	3	c-bc	53	65	43	7	5	-	-	7-8	7-8	2500	0	*	55	51	46	-	-	0·0
Manchester	15·0	-10	S'E	4	c	50	75	43	7	5	-	-	10	10	1700	1	*	52	50	47	-	-	*
Spurn Head	15·8	-14	SSW	4	bcq	48	75	42	7	2	6	-	2-3	4-6	2500	0	3	49	45	*	-	-	0·0
Catterick	12·8	-10	S	3	c	51	75	45	7	5	7	-	4-6	9	2500	1	*	52	49	46	Tr	0·5	0·2
Tynemouth	11·1	-18	SW	3	b-bc	51	75	44	6	-	4	-	-	2-3	-	1	3	51	49	46	-	7	*
St. Abbs Head	03·7	-16	SW	7	bc	51	92	48	7	5	-	-	4-6	4-6	2500	0	5	49	47	*	0·2	1	*
Leuchars	05·8	-6	SSW	5	2o	52	75	46	6	5	7	-	7-8	10	1900	1	*	49	45	42	Tr	0·5	0·5
Renfrew (Abbots I.)	06·1	-4	S	4	2o	53	75	45	6	5	2	-	9	10	1600	2	*	50	49	47	1	8	0·1
Eskdalemuir	09·7	-22	SSW	6	c	47	92	45	6	5	-	-	10	10	800	1	*	47	46	46	1	13	0·0
Point of Ayre	09·1	0	SWS	5	c	53	85	48	7	6	7	-	4-6	10	800	1	4	53	52	*	1	0·6	0·0
Tiree	98·3	-28	S	6	c	53	85	48	7	5	-	-	10	10	1000	1	6	50	49	44	4	4	0·0
Stornoway	96·0	-26	SSW	8	rr	52	92	50	6	6	2	-	9+	10	800	1	*	52	47	45	0·5	5	0·1
Dalwhinnie	01·6	-8	SSE	4	iro	48	92	45	7	5	-	-	9	9	1500	1	*	45	42	38	2	3	1·1
Aberdeen †	03·5	-6	SW'W	4	c-bc	53	75	47	8	5	5	-	4-6	7-8	1500	1	2	48	45	44	-	3	0·0
Wick	99·9	-18	SSW	3	c/r	51	92	49	8	5	7	-	4-6	9	2000	1	*	46	40		0·2	7	*
Sumburgh	99·8	-6	WSW	4	iro	49	97	48	7	5	2	-	7-8	9+	1500	1		49	46	*	0·5	3	2·2
Blacksod Point	94·6	-40	S	8	rr	52	97	51	7	6	2	-	4-6	10	800	2		55	52	*	10	5	*
Malin Head	98·0	-38	S	6	bc	53	75	45	8	6	-	-	4-6	4-6	1500	1	5	55	52		2	0·1	0·0
Aldergrove	04·0	-34	S'W	5	c	52	75	45	8	5	-	-	9+	9+	2600	1	*	53	51	49	2	0·1	0·0
Birr Castle	04·0	-24	SW	4	c	53	85	49	8	5	-	-	9	9	1500	1	*	55	52	50	1	-	0·0
Valentia Obsy.	00·9	-22	S'W	6	rr	54	92	52	6	6	-	-	10	10	800	1	6	55	53	51	3	2	0·0
Roches Point	05·9	-32	SSW	7	c	52	92	50	8	5	-	-	9+	9+	800	1	6	53	52	*	2	1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 8th December $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 9th December $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	86	02854	23615	5-	01654	16324	02	61758	18468	02	61668	16368
115							52	22735	53668	52	62735	53668
203	8-	81847	20587	8-	61648	20528						
206	25	25363	26486	52	62857	20368	52	62855	22168	8-	01855	57565
210	55	01962	20315	02	22890	16268	57	02866	18228	5-	02864	18464
220	81	02735	17488	62	64336	15668				52	03645	17628
230	51	05865	20388	02	64548	00068	02	62748	22468	5-	02848	51328
245	59	02842	22117	57	62667	22368	62	62646	18368	57	02755	52467
260	57	02773	20325	52	51655	18268	57	22654	51566	50	05664	51514
278	57	02745	17228	5-	22748	18368	5-	02757	17427	5-	02868	50528
279	51	05652	19527	02	64645	19568	5-	05635	52828	5-	61641	51764
285				27	81624	22488				20	01744	24684
288	59	02863	20427	57	05654	15228	07	05690	51568	57	02762	10558
575	52	22844	20368	5-	51726	18468	5-	05638	51458	5-	02848	51428
301	53	05663	22327	5-	61658	18568	50	01664	16664	5-	05655	16526
321				57	22464	18368	03	05690	19424	53	05654	18215
299	5-	05657	24327	5-	05648	22328	5-	05648	22528	50	01753	22413
292	57	02753	21326	02	05558	17328	50	05554	172-4	50	05754	49414
310	--	01635	20415									
614	57	05552	20326	57	08455	18227	5-	05646	51526	52	05647	57428

III	13h. G.M.T. 8th December $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 9th December $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	5-	02734	18527	5-	52628	18558				5-	21744	49558
334	--	01753	24314	--	56437	28358				--	63537	22388
340	53	02853	22326	5-	02658	18328	5-	02854	20514	5-	02856	18527
136	55	05663	19428	57	05686	19228	5-	02748	20428	5-	02758	19528
386	23	01753	20415									
350	57	05664	22327	5-	02658	18328				5-	05658	50328
368	52	02746	20117	5-	02748	18328	5-	21657	20457	5-	02758	19328
379	5-	05644	22427	5-	51638	20458	5-	51528	53458	5-	05648	22528
390	57	05655	20328	5-	45347	18348	5-	21448	53458	5-	05556	49428
382	57	02842	21227				5-	51748	20428	52	02845	51427
438	--	44208	24445	--	46009	22449				84	02744	22515
430	5-	02756	20328	5-	57338	22458	5-	05558	26528	50	05653	20423
409	5-	52610	18458	52	21636	18657	52	51655	18557	5-	02758	18528

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 9th December
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	bccm₀	cir₀cm₀	cm₀bc
Croydon	c	cm₀dd₀c	cmd₀d₀m₀
Greenwich	c	c	cd₀cb
Camden Square	c	c	*
Kensington	bcc	bcc	*
Hampstead	bc	o	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 0·3 Time 15:17h 8th
Min. <0·1 Time 0:6h 9th.

Stations	Temperature Day Max °F	Temperature Night Min °F	Temperature Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	52	49	45	-	Tr	0·3	*	*
Croydon	55	46	47	Tr	-	0·3	*	*
Greenwich	54	46	38	*	Tr	0·3	81	84
Westminster	55	46	42	-	-		83	83
Regents Park	54	48	45	-	-		79	78
Camden Square	54	48	43	-	-	*	*	83
Kensington	55	53	41	-	Tr		89	83
Hampstead	52	45	40	-	-		*	86

SECRET

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

BRITISH SECTION

Thursday 10th December, 1942

No. 23603.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	19·0	-12	SSW	4	z_0	48	75	41	7	7	–	1	7-8	9	2500
	Croydon ...	20·0	-12	SSW	4	bc	51	75	43	6	5	–	–	4-6	4-6	1700
	S. Farnborough	19·4	-12	SSW	3	c	47	85	42	7	5	–	–	9+	9+	1800
	Boscombe Down	17·9	-20	S'W	4	c-bc	52	75	48	7	5	7	6	7-8	7-8	2500
	Thorney Island	20·7	-14	SSW	3	c	49	85	45	7	5	–	–	9+	9+	2500
	Lympne ...	20·8	-18	S	3	bc	48	85	44	8	1	–	–	4-6	4-6	1000
	Manston ...	19·9	-14	SSW	4	bc	49	85	44	8	5	–	–	4-6	4-6	1200
2	Shoeburyness ...	19·5	-18	SSW	4	b	49	75	44	8	2	–	–	Tr	Tr	4000
	Felixstowe ...	19·3	-12	S	4	bc	50	85	44	7	5	–	–	4-6	4-6	1500
	Gorleston ...	18·5	-12	SSW	5	bc	49	85	43	7	1	4	–	2-3	4-6	1500
	Mildenhall ...	17·9	-10	SSW	4	z_0	50	75	43	6	5	–	–	7-8	7-8	2500
	Cranwell ...	14·5	-10	SW'S	5	c	51	85	45	7	5	–	–	9	9	3000
3	Birmingham ...	14·6	-14	SSW	4	c	51	85	46	8	5	–	–	9+	9+	1500
	Upper Heyford	16·8	-12	S'W	5	c	49	75	42	8	5	–	–	9+	10	2200
4	Ross-on-Wye	14·9	-14	SSW	4	c	52	75	46	7	5	–	–	9+	9+	3000
5	Hartland Point	12·5	-22	SW	4	c	53	75	47	8	5	–	–	9+	9+	1500
	Bristol ...	16·0	-20	S	6	c-bc	52	75	45	7	5	–	–	7-8	7-8	2500
	Portland Bill ...	17·9	-24	S	4	c	52	92	50	8	5	–	–	10	10	4000
	Plymouth ...	16·5	-18	SSW	6	o/r	53	85	48	8	5	–	–	10	10	2000
	The Lizard ...	14·6	-20	SW'W	7	c	54	85	50	8	5	2	–	7-8	9+	1500
	Scilly (St. Mary's)	11·6	-22	SSW	5	c	54	85	50	7	5	7	–	4-6	10	1200
	Guernsey ...															
6	Pembroke ...	10·7	-28	SSW	7	o_q	53	85	50	7	5	–	–	10	10	2000
7	Holyhead (Valley)	08·4	-22	S'W	8	id_0	51	92	49	7	5	–	–	10	10	1500
	Chester (Sealand)	11·7	-14	SW	3	c	55	65	44	8	5	–	–	9+	9+	2500
8	Manchester ...	12·8	-14	S'E	4	c	52	75	45	8	5	3	1	4-6	9	2800
10	Spurn Head ...	15·1	-2	S'W	4	c	51	85	46	7	7	3	–	4-6	9	2500
	Catterick ...	10·6	-18	SSW	4	z_0	53	65	43	6	8	3	–	4-6	7-8	2000
	Tynemouth ...	09·5	-16	SW	5	z_0	54	65	42	6	2	–	–	4-6	4-6	2400
11	St. Abbs Head	02·2	-6	SSW	7	c-bc	52	92	45	7	5	7	–	4-6	7-8	3000
	Leuchars ...	03·1	-14	SSW	6	c	53	75	45	8	5	7	–	4-6	9+	1200
12	Renfrew (Abbots I.)	02·1	-30	S	6	ir_0	54	75	47	7	5	2	–	9	10	1600
	Eskdalemuir ...	05·3	-24	SSW	7	r_0r_0	47	92	45	6	–	[illegible]	–	10	10	400
	Point of Ayre ...	05·6	-30	SW	7	c	53	85	48	7	6	–	–	9+	9+	600
13A	Tiree ...	95·3	-14	S	7	c	53	85	49	8	5	7	3	7-8	9+	2200
13B	Stornoway ...	90·3	-40	S	10	c/r	53	85	47	7	6	–	–	7-8	10	800
15	Dalwhinnie ...	98·0	-12	SSW	4	ir	48	92	45	7	5	–	–	10	10	1500
	Aberdeen ...	01·4	-20	SW	4	c	53	75	48	8	5	–	6	9	9+	2000
	Wick ...	97·0	-26	S'W	5	c-bc	56	55	40	9	5	9	6	4-6	7-8	3500
16	Sumburgh ...	96·6	-22	S	4	c	50	85	46	8	5	–	–	10	10	4000
17	Blacksod Point	97·1	+32	SW'S	8	c-bc	51	85	47	8	8	3	–	4-6	7-8	1500
18	Malin Head ...	95·5	-10	S	8	c/r	53	85	49	8	9	2	3	7-8	10	1500
	Aldergrove ...	01·8	-10	SSW	5	c/r	53	85	48	8	5	–	–	7-8	10	600
19	Birr Castle ...	01·8	-12	SW	8	ir	54	92	52	7	6	2	–	7-8	10	800
20	Valentia Obsy.	00·1	-10	S	4	ir_0	53	92	51	7	5	2	–	7-8	10	2500
	Roches Point	03·3	-18	S'W	6	dr	53	97	52	5	5	–	–	10	10	450

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

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	-12	S	4	z_0	48	85	44	6	5	–	–	4-6	4-6	2500	1	*
	Croydon ...	18·5	-2	SSW	4	z_0	47	85	44	6	5	–	–	9	9	2100	1	*
	S. Farnborough	16·7	-8	S	3	z_0	48	85	44	6	5	–	–	10	10	2700	1	*
	Boscombe Down	16·1	-6	S'E	6	c	49	92	47	7	5	–	–	9	9	1500	0	*
	Thorney Island	18·0	-4	S'W	4	z_0	49	92	47	6	5	–	–	9	9	3000	1	*
	Lympne ...	19·4	-6	SSW	2	b	45	85	42	7	–	–	–	0	0	–	1	§4
	Manston ...	18·3	-4	SW	3	b	45	95	41	8	–	7	–	0	1	–	1	*
2	Shoeburyness ...	18·8	0	S	3	c-bc	47	85	43	7	5	–	–	7-8	7-8	4000	1	*
	Felixstowe ...	18·0	-2	SSW	4	z_0	46	85	43	6	5	–	–	9	9	1500	0	4
	Gorleston ...	17·3	-2	SSW	4	b	45	85	42	7	8	–	–	1	1	2500	0	4
	Mildenhall ...	15·6	-10	S'W	4	z_0	49	75	40	6	5	–	–	10	10	2100	1	*
	Cranwell ...	12·6	-8	S	5	z_0	47	92	45	6	5	–	–	9	9	2900	0	*
3	Birmingham ...	12·0	-10	S	4	c	50	85	46	8	5	–	–	10	10	1500	1	*
	Upper Heyford	14·2	-12	S'W	4	z_0	48	85	43	6	5	–	–	10	10	2500	1	*
4	Ross-on-Wye	11·9	-16	S	4	cq	52	75	46	7	5	2	–	9+	10	2000	1	*
5	Hartland Point	08·9	-20	S	5	c/d	53	85	49	7	5	2	–	4-6	10	1500	1	5
	Bristol ...	14·8	-4	S'W	5	id_0	53	85	47	7	5	2	–	7-8	10	2000	1	*
	Portland Bill ...	16·1	-8	S	5	o	51	92	49	7	5	–	–	10	10	2500	1	5
	Plymouth ...	13·4	-14	SSW	6	c	54	92	52	7	5	7	–	4-6	9+	1500	1	4
	The Lizard ...	11·2	-20	SW'S	8	c/d	54	92	52	7	5	2	–	9	10	1500	1	6
	Scilly (St. Mary's)	07·6	-20	S'W	7	ir	53	97	52	6	5	–	–	10	10	1000	1	5
	Guernsey ...																	
6	Pembroke ...	06·4	-16	SSW	8	rr	53	92	49	6	5	–	–	10	10	1500	1	4
7	Holyhead (Valley)	04·1	-26	S'E	9	ir_0	51	92	50	6	5	–	–	10	10	1000	1	4
	Chester (Sealand)	08·8	-10	S	1	c	53	75	46	7	5	7	–	9	10	3000	0	*
8	Manchester ...	09·8	-12	S'W	5	c	51	85	45	7	5	–	–	10	10	1900	1	*
10	Spurn Head ...	12·1	-12	SSW	6	bcq	47	85	43	7	7	–	–	4-6	4-6	4000	0	3
	Catterick ...	07·1	-10	S	5	m	51	75	44	4	–	7	–	0	4-6	–	1	*
	Tynemouth ...	06·0	-14	S	5	c-bc	52	75	44	6	2	3	–	4-6	7-8	2500	1	3
11	St. Abbs Head	03·5	0	SW	3	r_0r_0	49	97	49	7	5	–	–	9	9	2500	1	3
	Leuchars ...	00·8	-12	SSW	4	bc/r	51	85	48	7	5	–	–	4-6	4-6	1600	1	*
12	Renfrew (Abbots I.)	00·0	-14	S	4	rr	53	92	50	5	6	2	–	9	10	800	2	*
	Eskdalemuir ...	02·6	-12	SSW	7	rr	48	92	46	6	–	2	–	10	10	200	1	*
	Point of Ayre ...	02·1	-22	SSW	6	rr	51	97	51	7	6	2	–	7-8	10	600	1	4
13A	Tiree ...	96·2	+4	SW'S	4	c	49	85	44	7	8	1	6	2-3	9+	2500	1	4
13B	Stornoway ...	93·1	+42	SW	6	o/r	48	85	44	7	5	–	–	10	10	1200	1	*
15	Dalwhinnie ...	96·0	-12	SW	3	ir	49	85	45	6	5	–	–	10	10	1500	1	*
	Aberdeen ...	99·2	-6	SSW	4	c-bc/r	52	85	47	6	5	–	–	7-8	7-8	2000	1	3
	Wick ...	98·0	-14	S	5	bc	52	85	48	9	5	–	–	4-6	4-6	2000	1	*
16	Sumburgh ...	93·8	-14	SSW	5	b-bc	49	85	46	8	–	4	–	0	2-3	–	1	3
17	Blacksod Point	93·7	-26	E'S	2	RR	49	92	47	7	–	2	–	10	10	800	2	2
18	Malin Head ...	95·2	-14	–	0	ir_0	50	85	46	8	8	2	–	7-8	10	1500	1	3
	Aldergrove ...	97·4	-22	SE	4	rr	51	92	49	5	6	2	–	7-8	10	600	1	*
19	Birr Castle ...	94·9	-46	SSW	3	c-bc	53	92	51	7	8	–	–	7-8	7-8	1500	1	*
20	Valentia Obsy.	98·1	-10	SW'W	6	ir	51	85	47	7	6	–	–	10	10	1500	1	5
	Roches Point	97·6	-22	SSW	6	c-bc/r	53	97	52	7	5	–	–	7-8	7-8	800	1	6

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 9th. (39)	13h.—18h. 9th. (40)	18h. 9th to 1h. 10th (41)	1h.–7h. 10th (42)
1	London (Kew)	bm₀wcz₀	cbem₀	beem₀	cir₀cm₀
	Croydon ...	cm₀bc	cz₀cm₀	ben₀cm₀	cm₀d₀d₀
	S. Farnborough	cb, c	cm₀	cm₀cid₀m₀	cid₀r₀d₀m₀
	Boscombe Down	c	c	cd₀d₀m₀	cd₀d₀id₀m₀
	Thorney Island	c	ccm₀	m₀cbee	m₀d₀cm₀
	Lympne ...	bcebc	bcb	beir₀	om₀ccm₀
	Manston ...	bcc	bcb	bm₀	beem₀
2	Shoeburyness ...	c	bbc	c	cm₀c
	Felixstowe ...	cm₀bc	bcbbm₀cm₀	bm₀cm₀	bcm₀cm₀w
	Gorleston ...	bc	bbcw	bbcwz₀	bcc
	Mildenhall ...	cb, cm₀	zbcz₀cz₀	cbcc	c
	Cranwell ...	cm₀c	c	am₀	cbccm₀
3	Birmingham ...	c	c	co	cor₀d
	Upper Heyford	cm₀c	ccm₀	cid₀m₀	cod₀d₀m₀
4	Ross-on-Wye	c	c	cqd₀	id₀qc
5	Hartland Point	c	cidc	cidbc	bcc
	Bristol ...	bcebc	ccid₀	cid₀cm₀cm	cm₀cid₀m₀
	Portland Bill ...	c	o	o	d₀
	Plymouth ...	cir₀c	c	oid₀d₀m₀	cid₀m₀
	The Lizard ...	coaq	oidcq	drcbc	oidrr
	Scilly (St. Mary's)	c	cirq	cirbcc	cd₀rr
	Guernsey ...				
6	Pembroke ...	circq	cir₀qm₀	ecq	crrom₀
7	Holyhead (Valley)	c	rrrm₀	cbem₀	cbc
	Chester (Sealand)	c	c	cir₀b	cbm₀ir₀
8	Manchester ...	c	c	cir₀	becz.
10	Spurn Head ...	c	bcq	oq	c
	Catterick ...	cz₀	cz₀bcz₀	cir₀cz₀	bcebc
	Tynemouth ...	bc	bcc	c	bcq
11	St. Abbs Head	bcc	cgocr₀r₀c	cprbcqr₀	bcq
	Leuchars ...	cm₀c	ccir₀	crrcdc	bcbbc
12	Renfrew (Abbots I.)	cm₀cir₀	cddm₀rr	cm₀rrr₀r₀	bccm₀
	Eskdalemuir ...	cd₀r₀	or₀rr	orrrc	cbc
	Point of Ayre ...	d₀c	r₀r₀rr		
13A	Tiree ...	ccr₀r₀c	cpr₀prc	r₀r₀rrbc	bcpr₀bcc
13B	Stornoway ...	cr₀r₀r₀m₀	cbcir₀c	cir₀r₀r₀m₀	bcb
15	Dalwhinnie ...	ciro	oir		orrc
	Aberdeen ...	cbcc	cz₀cpr₀	cid₀bcir₀	cirbcc
	Wick ...	c	cbcbc	cr₀r₀ir₀	bc
16	Sumburgh ...	cir₀c	cir₀bc	cir₀m₀r₀r₀	cm₀rrr₀r₀c
17	Blacksod Point	c	r	bc	r
18	Malin Head ...	r	r	r	c
	Aldergrove ...	cir₀c	crrm₀	crrr₀bcm₀c	cbcc
19	Birr Castle ...	r	r	r	r
20	Valentia Obsy.	r	r	r	r
	Roches Point	r	r	r	r

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

Districts	Forecast
1 S.E. England; 2 E. England ...; 3 E. Midlands ...; 4 W. Midlands	Fresh southerly winds, strong to gale at times in exposed places; cloudy, with occasional drizzle and periods of rain; visibility poor locally in rain; mild.
5 S.W. England; 6 South Wales; 7 North Wales	Southerly gale, veering and moderating temporarily tonight; cloudy, with periods of rain; visibility poor locally in rain; mild.
8 N.W. England; 9 N. Midlands ...; 10 N.E. England; 11 S.E. Scotland; 12 S.W. Scotland & Isle of Man	Fresh southeasterly winds, becoming southerly strong to gale, then veering southwesterly and moderating slowly; rain at first; cloudy later, with scattered showers and some clear intervals; visibility poor locally in rain; mild.
13A W. Scotland ...; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Fresh south to southeast winds, becoming strong to gale, and veering west later; rain spreading northeast across area followed by variable cloud and showers; visibility poor locally in rain; mild.
16 Orkneys and Shetlands	As 13A – 15.
17 N.W. Ireland; 18 N.E. Ireland	As 8 – 12.
19 S.E. Ireland; 20 S.W. Ireland	Strong southwesterly winds, gale in exposed places becoming variable light tonight, then freshening from northeast tomorrow; showers today; rain tomorrow; visibility poor locally in rain; mild.

GENERAL INFERENCE

A vigorous deepening depression just off Southwest Eire is moving quickly northnortheast and associated troughs will move quickly northeast across the British Isles; a new depression is expected to reach our southwest districts from the southwest tomorrow morning. Weather will be generally mild with periods of rain and fresh to gale, winds in all areas.

FURTHER OUTLOOK

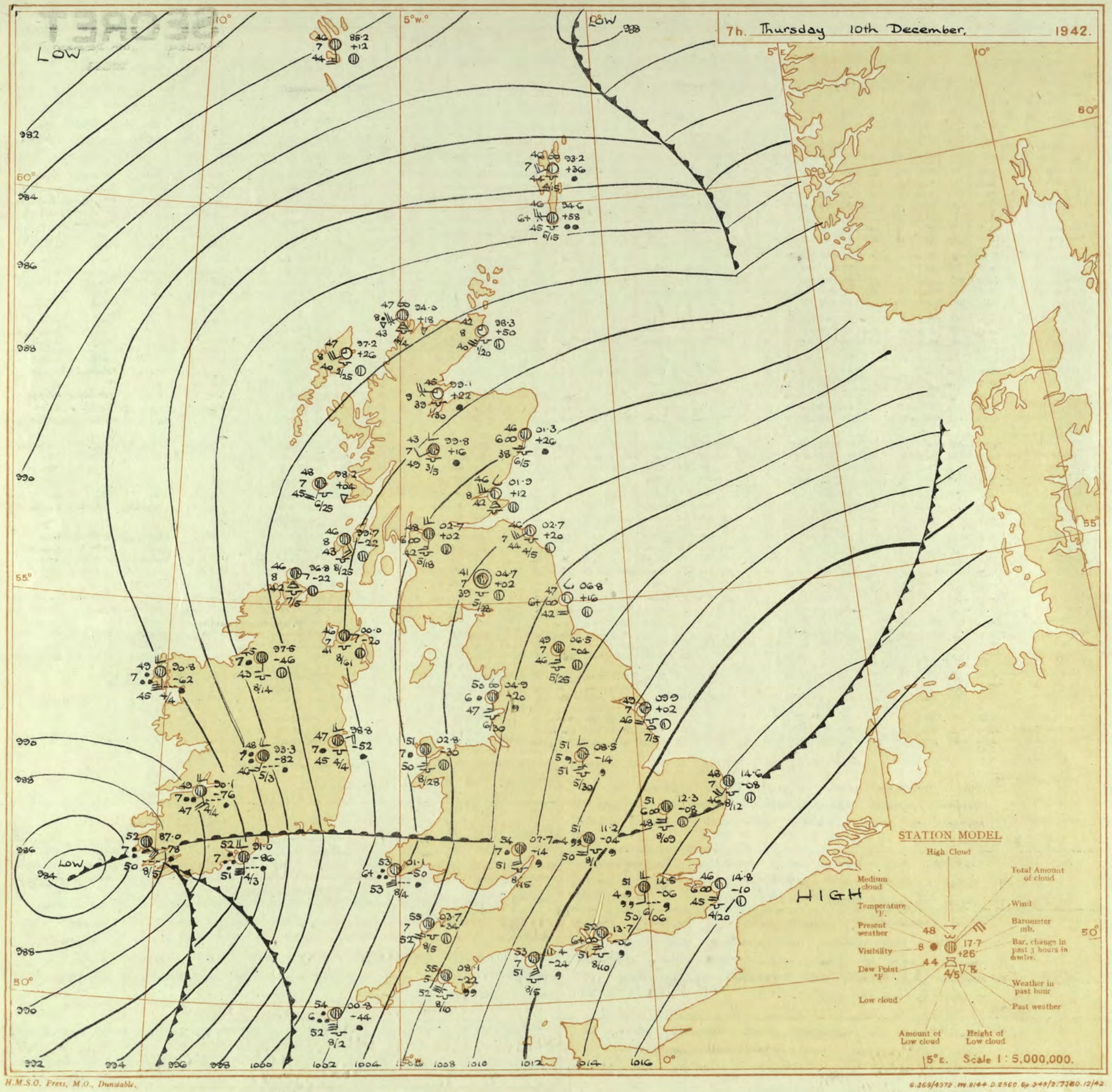
Mild unsettled conditions with rain and strong to gale winds in most districts.

Gale warning issued in districts:- 6, 7, 8, 12, 13A, 13B, 16 and 17-20. at 0945h on 8.12.42. in districts 5 and 15 at 0540h on 9.12.42. and also in districts 1 (part of) 10 and 11 at 1650h on 9.12.42.

Forecasts issued at 10.30

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

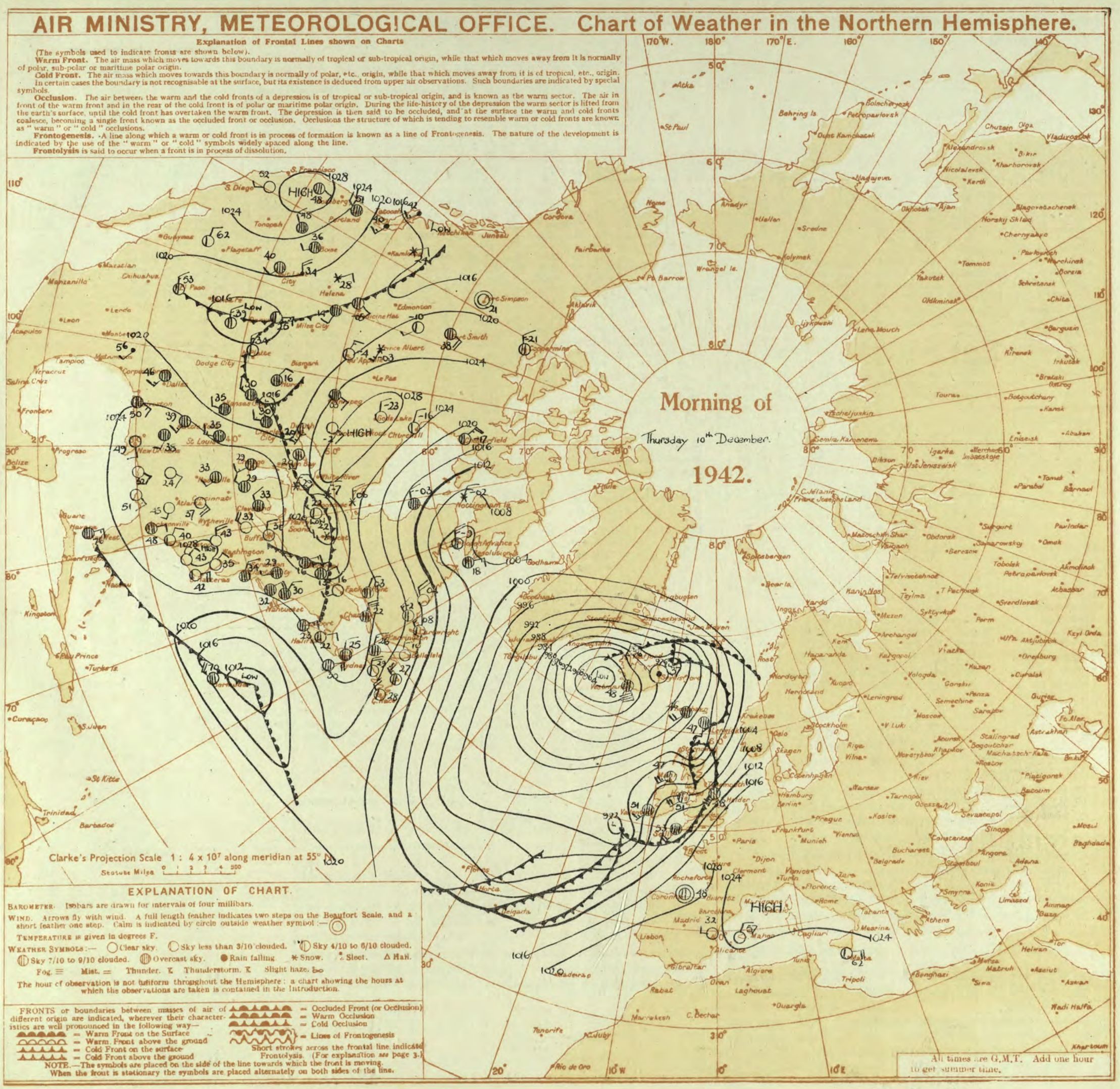
Meteorological Office, Air Ministry, Kingsway, London, W.C.2



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

6.369/4372. m.8144. D.2560. Gp.349/2.7780.12/42.

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 10th December 1942

No. 29603

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

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	*	*	*	*	*	50	*	*	*	*	*	*	*	*	*
	Croydon ...	290	16·1	-6	S'E	3	id.	49	92	47	6	5	-	-	9	9	1300
	S. Farnborough	226	14·6	-18	S'W	4	id.	50	92	48	6	5	-	-	10	10	1300
	Boscombe Down	417	14·2	-8	S'W	5	d.d.	51	97	50	6	5	-	-	10	10	400
	Thorney Island	10	15·5	-16	S'W	5	z.	51	85	47	6	5	-	-	10	10	1500
	Lympne ..	283	17·2	-14	SW	4	z.	45	85	42	6	5	7	6	1	9+	1500
	Manston ...	154	17·2	-10	SW	4	z.	47	85	43	6	5	-	-	7-8	7-8	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	16·2	-10	S'W	5	z.	48	85	45	6	5	-	-	7-8	7-8	4000
	Gorleston ...	5	15·2	-18	SSW	5	z.	46	92	43	6	-	7	-	0	4-6	-
	Mildenhall ...	15	13·3	-12	S'W	4	c	49	85	45	7	5	-	-	10	10	1600
	Cranwell ...	203	10·2	-14	S'W	6	z.	51	92	49	6	5	-	-	10	10	1300
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	12·7	-6	SSW	5	id.	51	97	49	6	5	-	-	10	10	700
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	09·5	+16	SW	5	bc	54	85	51	7	5	-	-	4-6	4-6	2500
	Bristol ...	209	12·5	-10	SSW	5	c	54	92	52	5	5	1	-	7-8	9+	900
	Portland Bill ...	32	14·9	-4	SSW	5	o	50	92	48	7	5	-	-	10	10	2500
	Plymouth ...	82	12·6	-2	SSW	5	d.d.	54	97	54	5	5	-	-	10	10	800
	The Lizard ...	240	10·7	-6	SW	6	bc	53	97	53	7	5	-	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	09·2	-2	S'W	4	c	53	92	52	6	8	-	-	10	10	1000
	Guernsey ...	175	*														
6	Pembroke ...	142	08·6	+6	SW'S	5	c-bcq	53	85	49	7	8	-	-	7-8	7-8	1500
7	Holyhead (Valley)	32	06·5	+38	SSW	6	z.	51	85	46	6	5	-	-	4-6	4-6	2500
	Chester (Sealand)	16	07·4	+20	SSE	2	bc	56	65	46	7	5	-	-	4-6	4-6	3000
8	Manchester ...	235	07·7	+10	S'E	5	bc	54	75	46	7	5	-	-	4-6	4-6	2000
10	Spurn Head ...	29	09·9	-6	S'W	5	cq	48	85	44	7	7	-	-	10	10	4000
	Catterick ...	175	04·8	-6	SSW	5	c-bc	55	75	47	6	5	7	-	4-6	7-8	1800
	Tynemouth ...	108	02·3	-16	S	5	c-bc	54	75	47	6	5	-	-	7-8	7-8	2500
11	St. Abbs Head	280	94·6	-26	SW	6	bc/pr	52	92	49	7	5	-	-	4-6	4-6	2500
	Leuchars ...	36	93·4	-32	S	5	c	52	85	45	8	5	4	-	4-6	9+	2800
12	Renfrew (Abbots I.)	19	96·2	+20	W	3	bc/r	47	85	43	8	5	2	-	2-3	4-6	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	44	95·2	+38	W	3	bc/r	44	92	42	8	2	4	-	2-3	4-6	2500
13B	Stornoway ...	15	92·2	+2	SW	3	r.r.	45	92	43	7	5	-	-	10	10	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	92·4	-42	S	5	rr	48	97	48	6	5	-	-	10	10	900
	Wick ...	114	88·1	-68	SSE	4	ir.	48	92	47	7	5	-	-	7-8	7-8	2400
16	Sumburgh ..	19	91·9	-26	SSW	3	r.r.	48	97	47	6	-	2	-	10	10	1000
17	Blacksod Point	18	98·9	+20	W	3	bc	49	75	41	8	5	-	-	4-6	4-6	2500
18	Malin Head ...	84	96·5	+46	SW'W	5	b-bc	47	85	43	8	8	-	-	2-3	2-3	1500
	Aldergrove ...	268	00·1	+24	S'E	2	c	45	85	41	7	5	-	-	10	10	1200
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	01·4	-14	S'W	4	c	51	85	47	8	8	-	-	9+	9+	2500
	Roches Point	22	06·0	+18	WSW	4	bc	49	85	45	8	5	-	-	4-6	4-6	1500

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

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 0–9 (31)	Sea 0–9 (32)
1	London (Kew)	12·7	-12	SSE	4	c/r	51	92	49	6	5	-	-	10	10	1500	1	*
	Croydon ...	14·5	-6	S	2	dd	51	97	50	4	6	2	-	9	10	600	1	*
	S. Farnborough	12·6	-6	S	3	d.d.	51	97	51	5	5	-	-	10	10	700	1	*
	Boscombe Down	12·1	-10	S'E	4	id.	51	97	51	6	5	-	-	10	10	400	1	*
	Thorney Island	13·7	-6	S	4	z.	52	97	51	6	5	-	-	10	10	1000	1	*
	Lympne ..	15·5	-14	SSE	2	z.	47	92	45	6	5	7	-	7-8	10	1100	1	§5
	Manston ...	14·8	-10	S'W	4	z.	46	97	45	6	5	-	-	4-6	4-6	2000	1	*
2	Shoeburyness ...	14·8	-12	SSW	4	c	49	92	47	6	5	4	-	9+	9+	1500	1	*
	Felixstowe ...	14·4	-12	S'E	3	z.	47	92	46	6	5	-	-	10	10	1400	0	3
	Gorleston ...	14·6	-8	SW'S	4	c	48	92	46	7	5	-	-	10	10	1200	0	4
	Mildenhall ...	12·3	-8	S'W	4	z.	51	85	48	6	5	-	-	10	10	900	1	*
	Cranwell ...	09·7	-8	S	5	z.	51	97	50	6	5	7	-	9	10	2500	0	*
3	Birmingham ...	08·4	-10	SSE	4	id.	52	97	50	6	6	-	-	10	10	800	1	*
	Upper Heyford	11·2	-4	S'W	4	d.d.	51	97	50	4	5	-	-	10	10	220	1	*
4	Ross-on-Wye	07·7	-14	S	4	ir.	54	92	51	7	5	-	-	10	10	1500	1	*
5	Hartland Point	03·7	-34	SSW	5	c	55	92	52	7	5	-	-	10	10	2500	1	5
	Bristol ...	09·8	-10	SSE	5	d.d.	53	92	52	5	5	-	-	10	10	1100	1	*
	Portland Bill ...	11·4	-24	SSE	5	o	53	92	51	7	5	-	-	10	10	2500	1	5
	Plymouth ...	08·1	-22	SSW	6	e/d	55	92	52	5	5	-	-	10	10	1000	1	4
	The Lizard ...	05·1	-28	SSW	7	r.r.	54	92	52	6	5	-	-	10	10	1000	1	6
	Scilly (St. Mary's)	00·8	-44	S	6	rr	54	92	52	6	5	-	-	10	10	500	1	5
	Guernsey ...																	
6	Pembroke ...	01·1	-50	S	7	rr	53	97	53	6	6	-	-	10	10	1500	1	5
7	Holyhead (Valley)	02·8	-30	S	3	ir.	51	92	50	7	5	-	-	10	10	2800	1	5
	Chester (Sealand)	06·5	-10	SSE	2	ir.	52	85	48	6	5	2	-	2-3	10	2900	1	*
8	Manchester ...	07·0	-10	SE	4	ir.	51	85	46	7	5	7	-	7-8	10	2500	1	*
10	Spurn Head ...	09·9	+2	S'W	4	c	49	92	46	7	7	-	-	9+	9+	2500	0	3
	Catterick ...	06·5	-4	S	3	c-bc	49	92	46	7	5	-	-	7-8	7-8	2500	1	*
	Tynemouth ...	06·8	+16	S	4	z.	47	85	42	6	-	4	-	0	2-3	-	1	3
11	St. Abbs Head	02·7	+20	SW	5	bc	46	92	44	7	5	-	-	4-6	4-6	2500	0	5
	Leuchars ...	01·9	+12	W	5	bc	46	85	42	8	8	4	-	2-3	4-6	3000	1	*
12	Renfrew (Abbots I.)	02·7	+2	S	3	z.	48	85	42	6	5	2	-	7-8	10	1800	2	*
	Eskdalemuir ...	04·7	+2	-	0	c-bc	41	92	39	7	5	-	-	7-8	7-8	2800	1	*
	Point of Ayre ...																	
13A	Tiree	98·2	+4	SSW	4	c	48	85	45	7	5	-	-	9	9	2500	1	3
13B	Stornoway ...	97·2	+26	SW	6	b	47	75	40	8	5	-	-	1	1	2500	1	
15	Dalwhinnie ...	99·8	+16	SW	2	c	43	85	49	7	5	1	-	2-3	9+	2500	1	*
	Aberdeen † ...	01·3	+26	SSW	3	z.	46	75	38	6	5	-	-	7-8	7-8	2500	1	2
	Wick ...	98·3	+50	SSW	5	b	42	85	40	8	5	-	-	Tr	Tr	2000	1	*
16	Sumburgh ..	94·6	+58	W	5	c-bc	46	92	45	6	5	-	-	7-8	7-8	1500	1	3
17	Blacksod Point	90·8	-62	S	6	rr	49	85	45	7	6	2	-	4-6	7-8	1500	2	4
18	Malin Head ...	96·8	-22	ESE	1	c	46	85	42	8	8	-	-	9+	9+	2500	2	3
	Aldergrove ...	00·0	-20	ESE	2	c	46	85	41	7	5	-	-	10	10	6100	1	*
19	Birr Castle ...	93·3	-82	SSW	4	ir	48	92	46	7	6	2	-	7-8	10	800	1	*
20	Valentia Obsy.	87·0	-78	SE'E	6	ir	52	92	50	7	6	-	-	10	10	2500	1	6
	Roches Point	91·0	-86	S	8	RR	52	97	51	7	6	2	-	4-6	10	800	1	*

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Temperature Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 9th Hrs. (38)
1	London (Kew)	48	47	44	-	Tr	3·0
	Croydon ...	51	49	43	-	Tr	3·9
	S. Farnborough	48	47	43	-	0·3	0·6
	Boscombe Down	52	49	43	-	0·5	0·0
	Thorney Island	50	48	45	-	Tr	*
	Lympne ..	49	45	39	-	Tr	3·8
	Manston ...	49	45	40	-	-	6·2
2	Shoeburyness ...	51	45	39	-	-	5·9
	Felixstowe ...	50	44	40	-	-	6·1
	Gorleston ...	52	43	38	-	-	5·0
	Mildenhall ...	52	45	40	-	-	2·2
	Cranwell ...	52	46	39	-	-	0·8
3	Birmingham ...	51	50	48	-	0·3	0·0
	Upper Heyford	50	48	47	-	0·5	*
4	Ross-on-Wye	53	52	48	-	Tr	0·2
5	Hartland Point	54	52	50	Tr	Tr	0·0
	Bristol ...	53	51	50	Tr	0·1	0·0
	Portland Bill ...	52	48	*	-	Tr	*
	Plymouth ...	54	53	52	0·1	2	0·0
	The Lizard ...	54	53	*	Tr	1	0·0
	Scilly (St. Mary's)	54	52	*	0·1	2	0·0
	Guernsey ...						
6	Pembroke ...	54	50	*	0·5	6	0·0
7	Holyhead (Valley)	53	49	46	1	3	*
	Chester (Sealand)	55	52	44	-	Tr	0·0
8	Manchester ...	52	54	46	-	-	*
10	Spurn Head ...	51	45	*	-	-	1·1
	Catterick ...	53	48	44	-	Tr	1·3
	Tynemouth ...	54	47	46	-	-	*
11	St. Abbs Head	52	44	*	1	0·3	*
	Leuchars ...	54	45	41	0·1	22	0·4
12	Renfrew (Abbots I.)	54	46	43	2	11	0·0
	Eskdalemuir ...	48	41	31	6	12	0·0
	Point of Ayre ...	53		*	2		
13A	Tiree	53	44	44	0·3	8	0·0
13B	Stornoway ...	54	45	41	3	2	0·0
15	Dalwhinnie ...	50	40	34	2	16	0·0
	Aberdeen † ...	53	45	40	Tr	1	0·4
	Wick ...	54	41	37	Tr	8	*
16	Sumburgh ..	50	43	32	0·2	15	
17	Blacksod Point	55	41	*	4	5	*
18	Malin Head ...	55	44		0·1	16	0·0
	Aldergrove ...	53	43	39	2	2	0·0
19	Birr Castle ...	54	44	41	10	2	0·0
20	Valentia Obsy.	55	49	45	8	7	0·0
	Roches Point	53	48	*	16	8	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 9th Dec. 1942				18h. G.M.T.				01h. G.M.T. 10th Dec. 1942				07h. G.M.T.			
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN	
109	57	02775	17367	54	01753	49614		5-	64658	05268		50	01752	20462	
115	52	02145	20268					52	64735	16268		87	81844	53586	
263				8-	02845	16785		86	62836	16568		8-	61845	20558	
206	53	61954	53626	54	01853	53663		02	66648	20363		50	01961	57561	
210	07	02990	16425	5-	01853	18213		53	01864	50564		04	01990	20211	
220	52	03746	17768	50	01454	18524						51	02645	12117	
230	5-	22958	51468	5-	61748	16368		52	22855	22468		5-	02868	00088	
245	54	02845	51627	5-	61754	53664		57	22656	16467		57	02855	17226	
260	54	02745	51627	57	22645	51567		52	61655	51668		53	05664	53324	
278				02	64628	49468		50	08451	23461		5-	02858	14328	
279	54	02857	50767	5-	02746	16668		5-	02755	20865		57	05665	15227	
285				27	61625	22666									
288	50	01754	51524	52	05655	48428		5-	05654	50624		50	05663	15313	
575	52	61735	20668	52	64636	20268		50	01742	20202		5-	61748	16228	
301	57	02755	20527					57	02747	55668		57	61666	16358	
321	5-	05666	21526	54	05653	18524		51	22655	18565		5-	05665	17315	
299	56	05654	20414	5-	05655	20415		5-	05658	20528		5-	02655	18415	
292	5-	05656	19416	57	05636	14227		5-	05656	18326		50	02754	15215	
310	--	01636	20516	--	01636	20516						--	02628	20428	
614	5-	05657	53427	5-	05664	51424		5-	51568	51528		51	51565	49367	

13h. G.M.T. 9th Dec. 1942				18h. G.M.T.				01h. G.M.T. 10th Dec.				07h. G.M.T.			
III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN		$C_L C_M$	wwVhN$_h$	DDFWN	
333				5-	21648	17858		5-	62658	52468		02	64548	14168	
334	--	02745	28416	--	03637	26528									
340	5-	02756	16426	57	05645	16527		5-	05664	18514		5-	05638	15328	
136	57	05654	53425	50	05663	19424		5-	05648	51528		5-	05634	18427	
336	57	02654	20528	62	64426	20468									
350	5-	02757	18327	5-	05658	50428		5-	05637	51528		5-	52638	48459	
368	5-	02757	20417	5-	02757	18517		54	22655	18366		5-	21748	14458	
379	5-	02748	20428	5-	02748	20428		5-	51628	53458		5-	62518	51468	
390	50	05551	16311					5-	05548	20328		5-	43328	20358	
382	5-	02847	51427	5-	02855	18325		5-	51738	51458		5-	51638	17458	
438	5-	02845	20415	50	01643	22313		51	02744	22517		52	02744	20418	
430	5-	02747	18427					5-	05648	51428		5-	05648	51428	
409	57	22866	18667	5-	51648	49768		50	01744	19514		52	21645	18658	

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 10th December
Day 7h—18h Kew and Croydon, 9h—18h Kensington
9h—21h other stations except for rainfall which is 9h—18h

Stations	Weather Morning	Weather Afternoon	Weather Night	Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew	bm.wc2.	cbcm.	ci5cm.	Kew 24 hours ended 7h. Max Time 0·2 16h on 9th. Min. Time 0·1 0–6h 10th.
Croydon ...	cm.bc	c2.cm.	cm.d.d.	
Greenwich ...	bcb	bc	cbcd.	
Camden Square	b	c	*	
Kensington ...	bc	c	*	
Hampstead ...	bc	c	o d.	

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	48	47	44	-	Tr	3·0	*	*
Croydon ...	51	49		-	Tr		*	*
Greenwich ...	52	46	38	-	Tr	3·7	80	91
Westminster ..	53	48	42	-			79	92
Regents Park ...	52	47	44	-	-		77	93
Camden Square	52	47	43	-	-	*	*	91
Kensington ...	52	48	40	-	Tr		80	93
Hampstead ...	47	46	43	-	Tr		*	99

SECRET

Page 1 BRITISH SECTION

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

Friday, 11th December 1942

No. 29604

OBSERVATIONS at 13h. G.M.T. 10th December — OBSERVATIONS at 18h. G.M.T. 10th December — PAST 24 HOURS.

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)	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. 10th (39)	Weather 13h.–18h. 10th (40)	Weather 18h. 10th – 1h. 11th (41)	Weather 1h.–7h. 11th (42)
1	London (Kew)	08·9	-24	S'E	5	zo	52	85	48	6	5	7	-	9	9+	1500	05·1	-18	SSE	4	zo	51	75	41	6	5	-	-	9+	9+	1500	1	*	circr	circz	cirbc	becrrc
	Croydon	11·3	-18	S'E	4	c	52	85	48	7	5	7	-	7-8	9+	700	07·9	-16	SSE	4	b	51	75	43	7	5	7	-	1	1	4000	1	*	cddm	c	becir	ccirc
	S. Farnborough	08·9	-22	S	4	c	53	85	48	7	5	7	-	9	10	1700	04·5	-26	SSE	4	c-bc/r	50	75	44	6	5	7	2	4-6	7-8	3000	1	*		cromcz	cbccrom	crorcrom
	Boscombe Down	08·8	-16	SSE	5	iro	51	85	48	7	6	2	-	7-8	10	600	03·2	-32	SSE	5	c-bc/r	49	85	45	7	-	7	-	0	7-8	-	1	*	ciddmcctr	crrm	crrromc	crorom cm
	Thorney Island	10·4	-24	S	5	c	51	85	49	7	5	7	-	2-3	10	1500	05·7	-26	S'W	5	zo	52	75	45	6	5	-	-	4-6	4-6	5700	1	*	cmc	circ	mororcm	cmorrir
	Lympne	12·9	-26	S	3	of	45	97	45	3	5	-	-	10	10	<150	09·1	-22	W'S	3	zo	48	75	42	6	-	7	-	0	4-6	-	1	§	omif	ofcbcm	bmcm	cmz
	Manston	13·1	-14	SSW	3	zo	46	97	46	5	5	-	-	10	10	300	08·1	-32	SSW	4	bc	48	75	40	7	-	3	2	0	4-6	-	1	*	cmom	omcm	bczm	bczcm
2	Shoeburyness	12·5	-24	S'E	5	zo	48	92	46	6	5	-	-	10	10	1500	07·8	-28	S	5	zo	48	85	43	6	5	-	-	7-8	7-8	1500	1	*	cm	bcm	cbcc	cz
	Felixstowe	11·6	-24	S'E	4	zo	47	97	46	5	5	-	-	10	10	500	08·0	-22	S'E	5	zo	47	85	44	5	-	7	-	0	4-6	-	0	4	cmom	omcmbcm	cmbcm	bcmcm
	Gorleston	11·1	-24	S'W	5	zo	47	92	45	6	5	-	-	10	10	600	06·8	-16	S	6	c-bc/pr	46	92	44	6	5	-	-	7-8	7-8	1500	0	4	cm	cmpr	ctrbccqz	czpr
	Mildenhall	09·2	-20	S	5	c	53	85	49	7	5	-	-	7-8	10	1000	04·3	-26	S'E	5	c	49	85	43	7	5	7	-	4-6	10	2000	1	*	cmc	ccm	ccz	cz
	Cranwell	05·5	-28	S	5	c	53	92	51	7	5	7	-	2-3	10	4000	01·3	-18	S'E	6	roro	51	85	47	7	5	-	-	10	10	3000	0	*	cmidc	ccircroro	cm	cmcrorom
3	Birmingham	04·0	-22	SSE	5	iro	52	92	50	6	6	2	-	4-6	10	1500	99·6	-26	SSE	5	roro	49	92	47	6	6	-	-	10	10	800	1	*	dir	oir	oir	orr
	Upper Heyford	06·5	-18	S	4	c	53	85	48	7	5	7	-	7-8	9+	800	02·1	-20	S'W	5	ido	50	85	44	7	5	1	-	4-6	10	2500	1	*	cidmc	ccoid	idcrorom	roromoom
4	Ross-on-Wye	03·4	-26	S'W	5	iro	53	75	47	7	6	2	-	2-3	10	1500	98·1	-30	S	5	c/d	51	85	47	6	6	1	-	9	10	1500	1	*	doqcrc	roqrd	cqrr	rrr
5	Hartland Point	98·6	-26	S	8	rr	51	97	50	6	5	2	-	7-8	10	800	94·4	-18	S	8	ir	54	92	52	6	8	2	-	7-8	10	200	1	5	qrrc	rrircq	cirqc	cirrrc
	Bristol	06·0	-20	S'E	5	iro	53	85	48	7	5	7	7	2-3	10	1500	00·9	-30	S'E	5	c	53	75	47	7	5	2	-	9	10	2000	1	*	cmirdcir	crrcirc	crorcm	cmororcm
	Portland Bill	07·9	-22	S	6	o	52	97	51	7	5	-	-	10	10	2500	03·3	-16	S	6	o	53	92	51	7	5	-	-	10	10	2500	1	6	o	o	oRo	rrc
	Plymouth	03·3	-30	SSW	7	roro	55	85	49	6	5	-	-	10	10	3000	98·9	-22	S	8	rr	55	92	53	6	5	2	-	7-8	10	1500	1	5	cirror	crrm	crormsr	crrm
	The Lizard	00·1	-30	SW	9	rr	54	85	50	6	5	-	-	10	10	1000	95·2	-2	SW	9	rr	54	92	52	6	5	-	-	10	10	1000	1	6	rr	orrq	orrc	crrc
	Scilly (St. Mary's)	95·5	-30	S'E	7	rr	53	97	52	6	5	-	-	10	10	500	92·2	+4	S'W	7	c	55	85	51	6	5	-	-	9+	9+	800	1	6	crr	crrc	circ	circ
	Guernsey																																				
6	Pembroke	96·5	-30	SW	8	rr	51	97	51	4	6	-	-	10	10	1500	91·7	-10	SSW	8	rr	53	92	51	5	6	2	-	4-6	10	1500	2	5	crrqm	crrmq	cbc	cprr
7	Holyhead (Valley)	95·5	-22	S'E	8	rr	51	97	51	6	5	2	-	9	10	600	89·3	-38	S'E	8	rr	51	97	51	6	6	2	-	10	10	1000	1	5	orrm	orrm	orrmc	bbcc
	Chester (Sealand)	00·9	-22	S	3	roro	55	85	50	7	6	2	-	9+	10	800	94·5	-26	S	4	iro	52	75	45	6	5	2	-	9+	10	1300	1	*	cmoror	czir	cmoirid	cmRRc
8	Manchester	01·6	-24	SSE	6	iro	54	85	49	6	5	-	-	10	10	1000	96·6	-24	SSE	5	•/r	52	85	47	6	5	-	-	10	10	1500	1	*	crorm	crroz	cirbcc	rorom
10	Spurn Head	05·8	-26	S'E	6	o	51	85	47	6	5	-	-	10	10	1500	03·0	-6	S'E	6	zo	49	92	46	6	5	-	-	10	10	1500	0	4	om	om	om	crr
	Catterick	00·3	-42	SSE	5	rf	53	97	52	3	6	2	-	9	10	800	96·8	-18	S	5	roro	51	85	47	4	6	2	-	7-8	10	800	1	*	orrf	ormrm	rrommcm	cmoirom
	Tynemouth	97·8	-54	S	5	c/r	52	97	52	6	-	2	-	10	10	2000	95·9	-14	S	5	o	53	85	48	6	-	2	-	10	10	1500	1	3	bccpoir	cpco	obzo	oc
11	St. Abbs Head	96·9	-46	SSE	4	g/r	47	97	47	4	5	-	-	10	10	1500	91·5	+6	SSE	4	bc	53	85	49	7	5	-	-	4-6	4-6	2500	1	4	bccmrro	crmbc	cbcqrc	ccb
	Leuchars	95·0	-64	E	3	rr	46	97	46	6	6	2	-	4-6	10	1000	89·9	-16	SSW	3	rr	53	85	49	6	6	2	-	2-3	10	800	1	*	ccrrcrr	ccrrcm	c	cbbc
12	Renfrew (Abbots I.)	92·2	-74	SSE	3	rr	49	97	47	3	6	2	-	9	10	800	88·3	-14	S'E	3	rr	53	85	49	6	6	2	-	9	10	800	2	*	cmrorofrr	cmorr	cmororobc	rorobccm
	Eskdalemuir	95·1	-50	S	5	rr	51	97	50	6	6	2	-	7-8	10	300	90·4	-20	S'E	5	rr	49	92	48	6	6	-	-	10	10	400	2	*	bccrr	rrm	crrirc	cbc
	Point of Ayre	93·9	-36	SW'S	7	rr	53	92	51	7	6	2	-	7-8	10	600	89·0	-24	SSW	6	rr	52	92	50	6	6	2	-	9	9	600	1	4	RRrr	rorrr	rrmirb	bbcc
13A	Tiree	86·7	-70	SE'E	6	rr	48	97	48	6	6	2	-	9	10	500	84·4	-10	S	3	c	51	92	49	7	5	1	-	1	10	2500	1	4	cororrm	orrmc	cororr	orrbcc
13B	Stornoway	92·1	-32	SE	5	roro	46	75	39	6	5	-	-	10	10	1200	84·7	-30	SSE	3	dd	48	92	46	7	5	-	-	10	10	1100	1	×	crorom	cromdd	cirrrm	cbccpr
15	Dalwhinnie	94·0	-56	SSE	4	ir	41	92	38	6	5	-	-	10	10	1500	87·0	-14	SSW	3	ir	49	92	47	6	5	-	-	10	10	1500	1	*	cir	oir		oirc
	Aberdeen	97·8	-40	SE'S	3	roro	48	85	44	6	5	2	-	7-8	10	2000	89·3	-22	S'W	5	roro	51	92	49	6	6	1	8	4-6	7-8	450	1	3	rorozo	crrmgrrm	crorcirom	cbcb
	Wick	98·0	-12	SW'S	4	ir	48	65	35	6	5	-	-	10	10	2500	97·6	-48	S'E	5	c	48	97	47	6	5	-	-	10	10	1000	1	*	ciraa	crrcm	c	bc
16	Sumburgh	98·9	+10	SW	5	c	47	85	44	8	-	2	-	0	10	-	92·6	-22	SSE	5	roro	46	97	45	7	5	2	-	9	10	1200	1	4	cproc	cror	r	cmbcc
17	Blacksod Point	84·7	-2	SW'S	5	c	52	97	51	8	8	-	-	9	9	2500	82·8	-6	SW	3	roro	48	97	47	7	6	-	-	10	10	1500	1	3	c	r	bc	bc
18	Malin Head	84·4	-52	S'W	6	c	55	85	50	8	6	2	-	7-8	10	1500	83·3	-16	S	5	c	53	75	46	8	8	2	-	7-8	10	1500	2	4	r	o	r	b
	Aldergrove	89·2	-26	SSE	4	c/d	53	97	51	6	5	2	-	7-8	10	500	85·0	-30	S'E	2	rr	51	97	50	6	6	2	-	9+	10	600	1	*	crorc	mccrrm	crorbc	bbccb
19	Birr Castle	88·5	-10	SSW	2	c	55	85	50	7	6	2	-	7-8	10	800	84·6	-14	S	2	ir	51	92	49	7	6	2	-	7-8	10	800	1	*	c	r	*	c
20	Valentia Obsy.	87·2	-6	SW	3	c	53	85	49	8	5	2	-	9	10	1500	85·3	+2	W	2	rr	46	92	45	7	6	2	-	2-3	10	1500	1	2	r	r	pr	pr
	Roches Point	89·1	-14	S	5	dr	53	97	52	5	5	-	-	10	10	450	83·9	-26	S	6	dd	52	97	51	5	5	-	-	10	10	450	1	6	r	r	r	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 11th December

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Moderate or fresh south wind veering southwest; rain at first; bright intervals and local showers later; mild during day; rather cold at night.
4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England; 9 N. Midlands	Moderate or fresh southwest wind strong locally on coasts; bright intervals; showers of rain or hail; local thunder; mild.
10 N.E. England; 11 S.E. Scotland	Moderate southwest wind fresh locally; bright intervals; local showers; mild.
12 S.W. Scotland & Isle of Man; 13A W. Scotland ↓; 13B N.W. Scotland ↓	As 4-9.
14 Mid Scotland; 15 N.E. Scotland	As 10-11.
16 Orkneys and Shetlands; 17 N.W. Ireland ↓; 18 N.E. Ireland ↓; 19 S.E. Ireland; 20 S.W. Ireland	As 4-9.

GENERAL INFERENCE

Pressure is low south of Iceland and high over Southeast Europe. A small depression over the Bristol Channel is moving quickly northnortheast. A deep depression is approaching the Azores and will later turn northeast. There will be rain in the East this afternoon followed by clear intervals and local showers. Elsewhere there will be bright intervals and showers with local thunder near western coasts. It will be mild.

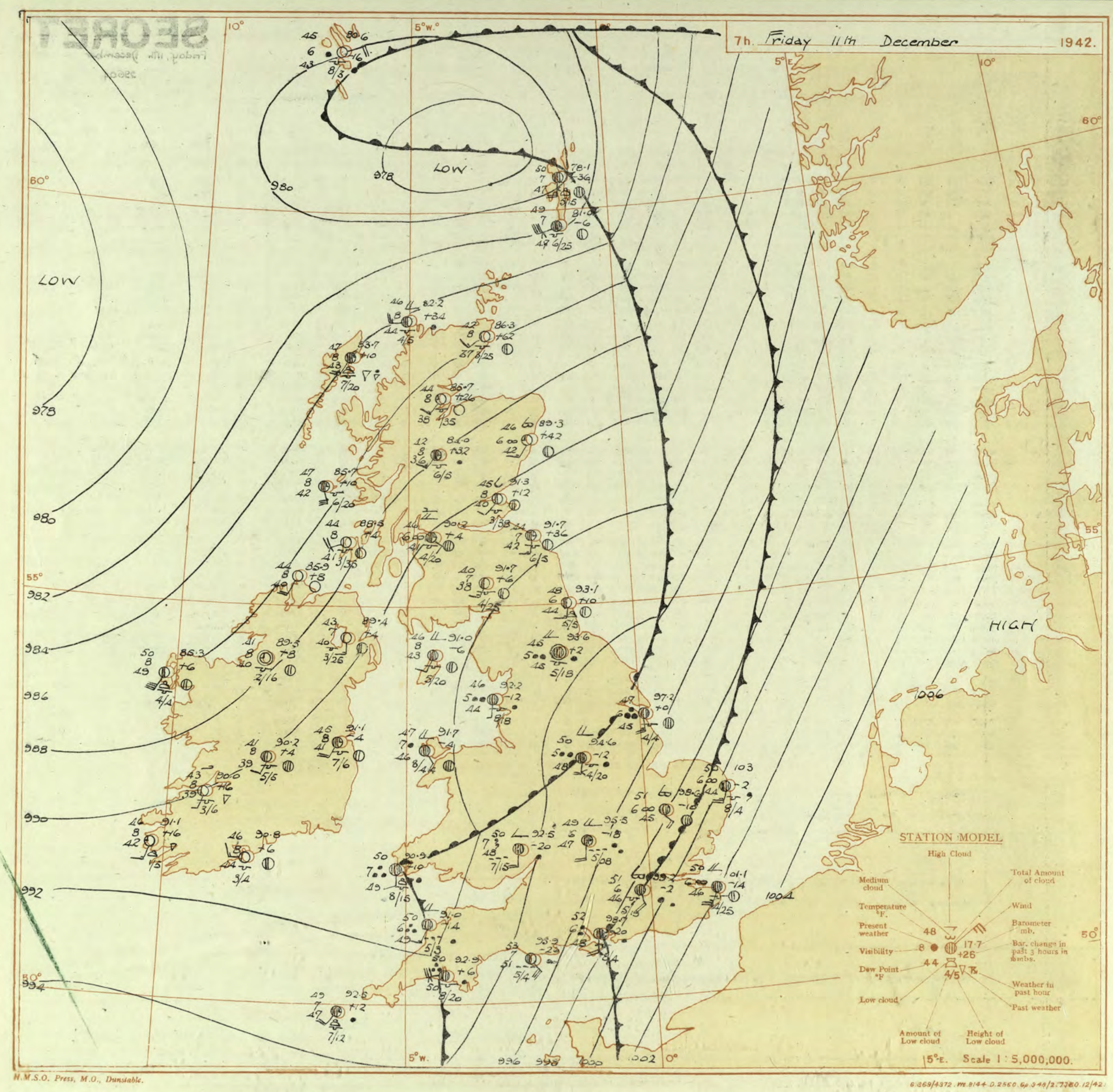
FURTHER OUTLOOK

Unsettled generally with strong south winds or gales in the West and North. Rain spreading northeast across the British Isles from the West.

↓ Gale warning in operation in districts 13A 13B 17, 18 (part of) Time of issue 1115h. 11.Dec.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.

6.269/4372. Wt.8144. D.2560. Gp.348/2. 7780. 12/42.

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).

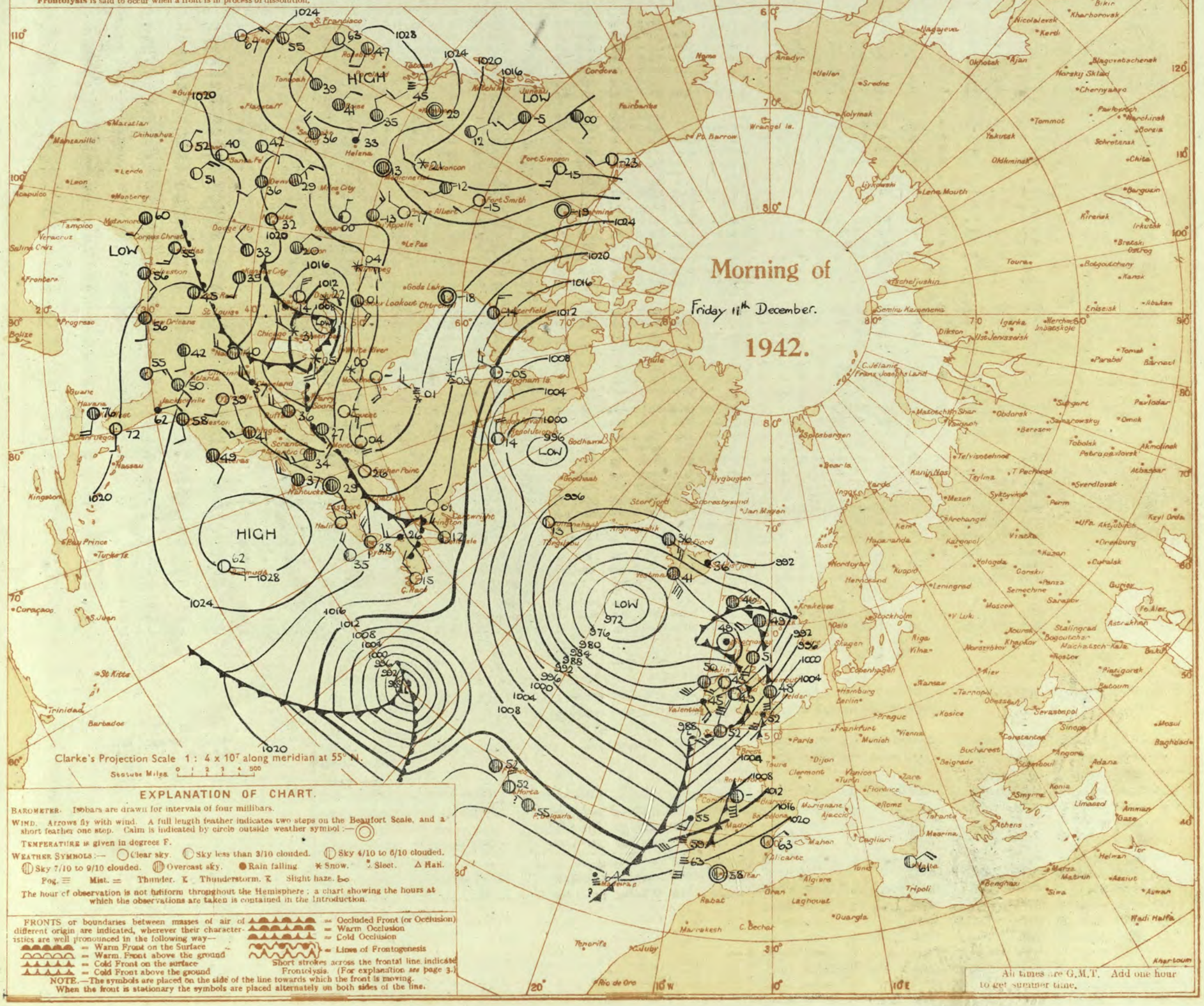
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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, 11th December 1942

No. 29604

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

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	*	*	*	*	*	52	*	*	*	*	*	*	*	*	*
	Croydon	290	02·7	-18	S'W	5	r_0r_0	52	75	46	6	5	-	-	4-6	10	1400
	S. Farnborough	226	00·7	-14	S	4	r_0r_0	51	85	47	6	5	-	-	10	10	2500
	Boscombe Down	417	99·9	-16	S'E	4	r_0r_0	50	97	50	6	5	-	-	10	10	800
	Thorney Island	10	02·2	-16	S'W	4	°/r	51	85	48	6	5	-	-	10	10	2500
	Lympne	283	04·3	-16	S	4	z_0	48	92	45	6	-	7	6	0	7-8	-
	Manston	154	04·3	-14	SSW	4	z_0	49	75	43	6	5	-	-	2-3	2-3	3000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	03·2	-16	S'W	3	z_0	48	85	43	5	-	7	2	0	4-6	-
	Gorleston	5	04·1	-2	S	6	z_0	47	85	43	6	5	-	-	10	10	1500
	Mildenhall	15	01·4	-10	S	5	z_0	50	75	43	6	5	7	-	2-3	10	4000
	Cranwell	203	98·5	-8	S'E	6	z_0	50	85	46	6	5	7	-	4-6	9	2000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	99·2	-4	S'W	4	r_0r_0	49	92	47	6	5	-	-	10	10	900
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	93·8	-2	SW	7	ir	52	92	51	6	6	2	-	7-8	10	800
	Bristol	209	98·0	-14	SSW	5	c/r	53	85	50	7	5	1	-	7-8	10	1400
	Portland Bill	32	00·0	-16	S	6	o	52	92	50	7	5	-	-	10	10	2500
	Plymouth	82	96·4	-16	SSW	6	rr	53	97	53	6	5	-	-	10	10	1500
	The Lizard	240	94·8	-12	SW	6	c	53	92	52	7	5	2	-	9	10	1500
	Scilly (St. Mary's)	163	92·9	-12	SSW	3	c-bc	52	92	50	6	5	-	-	7-8	7-8	1000
	Guernsey	175															
6	Pembroke	142	94·1	+20	SW'W	3	c-bc	57	85	53	7	8	2	-	4-6	7-8	2000
7	Holyhead (Valley)	32	92·4	+26	SSW	6	b	49	85	45	7	5	-	-	1	1	2500
	Chester (Sealand)	16	93·4	+6	—	0	z_0	54	92	51	6	5	-	-	7-8	7-8	2000
8	Manchester	235	94·0	-2	S'E	5	ir_0	54	85	50	6	5	-	-	10	10	1900
10	Spurn Head	29	98·3	-10	S	6	z_0	48	85	44	6	5	-	-	10	10	1500
	Catterick	175	93·1	-14	S	3	z_0	55	85	49	6	5	2	-	4-6	10	2800
	Tynemouth	108	91·8	-10	S	6	o	54	86	50	6	5	-	-	10	10	1500
11	St. Abbs Head	280	86·3	-18	S	5	c-bc	54	92	52	7	5	-	-	7-8	7-8	2500
	Leuchars	36	85·4	-24	SE	6	c	55	92	53	7	5	-	-	9	9	2900
12	Renfrew (Abbots I.)	19	83·9	-8	SSW	6	r_0r_0	54	88	50	6	5	2	-	7-8	9+	1000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	09·0	+24	W	6	*b	47	85	43	8	4	1	1	1	1	2500
13A	Tiree	44	82·3	+14	WSW	4	rr	46	97	44	6	-	2	-	10	10	800
13B	Stornoway	15	80·1	-30	—	0	rr	49	92	47	6	5	-	-	10	10	800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	85·6	-19	S	4	c	51	97	50	7	5	2	-	7-8	10	1200
	Wick	114	93·0	-26	S'E	3	c	49	92	47	8	5	2	-	7-8	10	4200
16	Sumburgh	19	84·0	-18	SSW	4	°/r	49	97	48	6	-	2	-	10	10	1000
17	Blacksod Point	18	83·8	+6	SSW	7	bc	50	92	48	8	5	-	-	4-6	4-6	2500
18	Malin Head	84	83·8	+26	S'E	3	b-bc/r	45	85	41	8	8	-	-	2-3	2-3	2500
	Aldergrove	268	87·9	+58	SSW	3	b	43	85	39	8	5	-	-	Tr	Tr	4000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	89·0	+10	S	4	pr	47	85	43	8	3	-	-	9+	9+	2500
	Roches Point	22	90·8	+10	W'S	4	bc	49	92	47	8	5	-	-	4-6	4-6	1500

OBSERVATIONS at 7 hr. G.M.T. 11th December — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 10th Hrs. (38)
London (Kew)	97·4	-20	SSE	3	z_0	50	85	46	6	5	-	-	9+	9+	2500	1	*	52	49	47	Tr	2	0·0
Croydon	99·2	-18	SSE	4	c/r	51	85	46	6	5	7	-	7-8	10	1900	1	*	53	49	49	0·1	1	*
S. Farnborough	97·1	-22	SSE	3	r_0r_0	49	97	47	6	5	-	-	10	10	1500	1	*	53	49	44	Tr	3	0·0
Boscombe Down	95·6	-26	SE'E	5	°/r	49	97	49	6	5	-	-	10	10	800	0	*	52	49	43	1	7	0·0
Thorney Island	98·7	-20	S'E	4	ir	52	85	48	6	5	-	-	10	10	1500	1	*	53	49	48	0·1	5	*
Lympne	00·7	-18	S	5	z_0	50	75	44	6	3	7	-	7-8	10	2700	1	§5	49	47	43	-	-	0·0
Manston	01·1	-14	S'W	5	z_0	50	85	46	6	5	2	-	4-6	10	2500	1	*	48	47	45	-	-	0·0
Shoeburyness	01·3	-12	S	5	c	50	85	44	6	5	-	-	9	9	1500	1	*	50	47	44	-	-	0·0
Felixstowe	00·2	-14	S'E	5	z_0	49	85	44	6	5	7	-	9	10	4000	0	4	48	46	43	-	-	0·0
Gorleston	00·3	-2	S'W	5	z_0	50	85	44	6	5	-	-	10	10	1500	0	5	49	45	42	Tr	Tr	0·0
Mildenhall	98·6	-10	SE'S	4	z_0	51	85	45	6	-	7	-	0	10	-	1	*	53	48	45	-	-	0·0
Cranwell	96·5	-2	S'E	6	r_0r_0	50	97	49	6	5	2	-	9	10	1500	1	*	54	49	48	-	1	0·0
Birmingham	94·1	-14	SSE	4	r_0r_0	49	97	48	7	6	-	-	10	10	800	1	*	53	49	47	1	3	0·0
Upper Heyford	95·5	-18	S	4	c/r	49	92	47	6	6	2	-	7-8	9	800	1	*	53	48	47	0·2	3	*
Ross-on-Wye	92·5	-20	S	4	id	50	92	48	7	6	1	-	9+	10	1500	1	*	54	50	48	5	9	0·0
Hartland Point	91·0	-14	SSW	3	rr	50	97	49	6	6	2	-	7-8	10	800	1	6	55	49	48	3	15	0·0
Bristol	93·3	-30	SSE	3	id_0	51	85	48	6	-	2	-	10	10	1500	1	*	55	50	48	2	5	0·0
Portland Bill	95·9	-26	SE	6	c-bc	53	92	51	7	6	-	-	7-8	7-8	1500	1	6	54	48	*	-	7	*
Plymouth	92·9	+6	W'S	6	rr	50	97	50	6	5	-	-	10	10	2000	1	5	56	50	49	2	21	0·0
The Lizard	92·6	+6	WNW	5	c-bc/r	50	92	48	6	8	4	-	7-8	7-8	1500	1	4	54	49	*	7	7	0·0
Scilly (St. Mary's)	92·5	+12	SW'W	4	c	49	92	47	7	8	-	-	9+	9+	1200	1	5	55	48	*	9	8	0·0
Guernsey																							
Pembroke	90·9	-10	S	2	rr	50	97	49	7	8	-	-	10	10	1500	1	3	54	47	*	19	6	0·0
Holyhead (Valley)	91·7	-4	SE	2	ir_0	47	97	46	7	-	2	-	10	10	4400	1	3	54	47	44	12	1	*
Chester (Sealand)	93·2	-4	—	0	RR	48	85	45	6	-	2	-	10	10	7200	1	*	56	47	41	1	5	0·0
Manchester	92·8	-14	SE	4	rr	51	97	50	6	5	2	-	7-8	10	1400	1	*	55	51	36	1	5	*
Spurn Head	97·2	0	S'E	5	rr	47	92	45	6	5	2	-	4-6	10	1500	1	4	51	47	*	-	1	0·0
Catterick	93·6	+2	—	0	r_0r_0	45	97	45	5	5	2	-	7-8	10	1800	1	*	53	45	39	7	2	0·0
Tynemouth	93·1	+10	S	3	c-bc	48	85	44	6	2	-	-	7-8	7-8	2500	1	3	54	47	39	2	-	*
St. Abbs Head	91·7	+36	S	3	c	44	92	42	7	5	-	-	9	9	2500	0	3	54	43	*	3	0·6	*
Leuchars	91·3	+12	SW	1	bc	45	85	40	8	5	4	-	2-3	4-6	3800	1	*	54	44	38	7	18	0·0
Renfrew (Abbots I.)	90·2	+4	SE	2	z_0	46	85	41	6	5	2	5	4-6	9	2000	2	*	54	44	*	*	*	0·0
Eskdalemuir	91·7	+6	SSW	3	bc	40	92	38	7	5	-	-	4-6	4-6	2500	1	*	51	39	35	25	15	0·0
Point of Ayre	91·0	-6	SSW	2	c	46	86	43	8	5	2	-	7-8	10	2000	1	3	53	42	*	20	8	0·0
Tiree	85·7	+10	S'E	6	c	47	86	42	8	5	-	-	9	9	2000	1	4	53	45	43	5	9	0·0
Stornoway	83·7	+10	SSW	4	c/pr	47	85	43	8	8	-	-	9+	9+	2000	1	2	49	44	41	3	13	0·0
Dalwhinnie	84·0	+32	SSW	3	c	42	89	36	8	5	-	-	9	9	2500	1	*	49	41	36	9	9	0·0
Aberdeen †	89·3	+42	SSW	3	z_0	46	85	42	6	-	7	-	0	1	-	1	2	51	46	42	10	1	0·0
Wick	86·3	+62	SW	3	b-bc	42	85	37	8	5	-	-	2-3	2-3	2500	1	*	48	41	37	5	2	*
Sumburgh	81·0	-6	WSW	8	c	49	92	47	7	5	-	-	9	9	2500	1	4	48	44	41	1	1	
Blacksod Point	88·3	+6	SW	8	bc	50	97	49	8	8	-	-	4-6	4-6	1500	1	5	53	46	*	3	1	*
Malin Head	85·9	+8	SSW	4	b	44	85	40	8	-	-	-	0	0	-	2	3	55	42		2	9	0·0
Aldergrove	89·4	+4	S	3	b-bc	43	92	40	7	5	-	-	2-3	2-3	2500	1	*	53	39	36	9	5	0·0
Birr Castle	90·2	+4	SSW	2	c-bc	41	92	39	8	5	-	-	7-8	7-8	2500	1	*	56	40	36	2	6	0·0
Valentia Obsy.	91·1	+16	SSW	3	b	46	85	42	8	2	-	-	Tr	Tr	2500	1	4	55	44	39	11	1	0·0
Roches Point	90·8	+6	W	3	b-bc	46	92	44	8	5	-	-	2-3	2-3	1500	1	6	54	46	*	16	0·5	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 10th Dec. — 18h. G.M.T. — 01h. G.M.T. 11th Dec. — 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	5-	03768	14438	52	52546	11568	02	62668	16468	5-	01753	55563
115							52	81835	08388	52	02854	24565
203												
206	52	64754	26368	5-	01754	16264	5-	22855	06165	50	01861	20301
210	57	61956	10268	52	02853	16468	50	01863	14463	54	01861	17302
220	52	63735	13568	52	02645	14318						
230	62	58644	10368	5-	61838	14268	02	64638	51568	50	01852	20162
245	6-	62538	12468	6-	62538	15468	5-	02856	16566	50	01963	18363
260	52	62555	06268	5-	22568	51568	50	01753	51613	50	01764	20214
278	62	58627	49468	02	64638	48568	50	01742	57562	51	17655	18318
279	52	64645	50768	5-	62658	49768	5-	05655	18865	5-	02754	101 6
285	02	64628	20568	02	65628	20568						
288	02	62648	37668	62	16144	48667	5-	05657	48667	52	61634	07268
575	62	02846	14268	52	61745	16128	5-	01843	20363	50	01842	00012
301	62	61744	17668	52	61754	49868	5-	01754	53664	5-	62548	16168
321	5-	61748	49528	57	22755	16568	5-	02748	51668	62	62646	50468
299	5-	03657	18427	5-	61648	18568	5-	02656	18626	5-	61658	18568
292	62	62535	48568	02	22678	43568	50	01744	14464	52	62646	14868
310	--	02628	20558							--	64428	16568
614	57	61645	18469	03	21590	49563	57	05565	49568	52	62554	49468

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	62	64535	49868	5-	64548	14868	5-	02754	55568	5-	61754	16128
334	--	53537	26598	--	64637	28668						
340										5-	64648	18368
135	5-	05636	51426	57	05644	49528	02	61790	16528	97	22690	16468
336										--	64309	20469
350										57	22664	49465
368	62	63734	17568	62	62746	49568	5-	02768	16228	5-	64648	14368
379	57	02724	49528	62	61634	49668	5-	61648	496·8	5-	22648	16568
390	57	05546	16528	57	08464	49525	5-	51468	16428	5-	08457	16467
382	57	02755	51428	57	22763	49464	5-	62648	50468	5-	62647	14368
438	5-	05637	18427	54	01650	20414	52	02744	20618	5-	03748	20628
430	57	05645	16428	57	61656	48567	5-	22666	49668	5-	22658	18568
409	5-	62728	48968	62	62628	59868	52	61647	15368	5-	62678	17468

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 11th December
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	cir_0cr_0	cir_0cz_0	$bccr_0r_0c$
Croydon	$cdod_0m_0$	c	$bccir_0c$
Greenwich	c	cir_0	$bcir_0$
Camden Square	o	c	*
Kensington	ocd	oc	*
Hampstead			

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.

Kew 24 hours ended 7h. Max. 0·2, Time 19/19h 10th; Min. 0·1, Time 0·0h 11th

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	52	49	47	Tr	2	0·0	*	*
Croydon	53	49	49	0·1	1	*	*	*
Greenwich	53	49	43	Tr	0·3	0·0	79	76
Westminster	55	50	45		1		81	76
Regents Park	53	50	48	-	0·3		83	73
Camden Square	53	51	46	-	Tr	*	*	79
Kensington	54	51	38	Tr	1		70	78
Hampstead							*	

Page 1 BRITISH SECTION

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

SECRET

Saturday, 12th December 1942

No. 29605

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	99·9	+26	SSW	5	c/r	52	85	46	8	8	4	6	7-8	9	2500
	Croydon	00·6	+22	S	6	ir$_o$	53	85	47	7	8	-	3	2-3	9+	900
	S. Farnborough	00·0	+22	SW'S	5	c-f$_o$	53	85	48	8	8	-	-	9+	9+	1600
	Boscombe Down	99·7	+30	SSW	4	pr	49	92	48	7	9	-	8	2-3	7-8	600
	Thorney Island	00·8	+16	SSW	4	c	52	85	48	7	2	3	-	9	9+	1500
	Lympne	02·7	+14	SSE	4	c-bc	54	85	49	8	5	-	-	2-3	7-8	1500
	Manston	08·1	+6	SW'S	6	c	54	75	48	7	1	-	6	2-3	9	600
2	Shoeburyness	01·4	+12	SSW	5	c	54	75	46	8	5	-	-	9	9	1500
	Felixstowe	00·3	+8	S'W	6	c/r	52	85	46	7	8	7	2	7-8	9+	2500
	Gorleston	99·2	-6	SSW	6	cbcq	52	75	45	7	8	4	-	4-6	7-8	2500
	Mildenhall	97·7	-6	SW'W	6	c-bc	55	65	45	8	8	-	1	7-8	7-8	2000
	Cranwell	94·8	-2	SW	6	c/r	50	85	46	8	8	-	-	9+	9+	2500
3	Birmingham	97·7	+44	SW	3	c-bc	49	75	42	8	8	7	-	2-3	7-8	1500
	Upper Heyford	98·2	+34	SW'W	4	pr$_o$	49	85	45	8	7	3	-	4-6	9	1500
4	Ross-on-Wye	97·7	+40	SW	3	c	51	75	42	8	5	-	-	9	9	3000
5	Hartland Point	97·5	+24	WSW	3	c-bc	50	85	46	9	2	4	-	2-3	7-8	2000
	Bristol	98·9	+26	SSW	2	c	50	92	47	7	7	3	-	9	9+	2100
	Portland Bill	99·1	+6	SW	5	u	53	92	51	7	5	-	-	10	10	2500
	Plymouth	98·1	+10	WSW	3	cjp	52	92	49	8	8	6	3	4-6	9	2500
	The Lizard	97·4	+10	SW'W	4	c/pr	51	85	47	8	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	97·2	+12	WSW	2	cjp	49	85	47	8	8	7	3	7-8	9+	1200
	Guernsey															
6	Pembroke	96·9	+14	WSW	3	c-bc	51	85	47	8	8	6	-	4-6	7-8	1500
7	Holyhead (Valley)	95·0	+26	WSW	4	c/pr	51	85	47	8	8	4	8	2-3	9	1000
	Chester (Sealand)	95·2	+30	SE	1	c	49	85	43	6	8	2	-	7-8	9+	2000
8	Manchester	95·3	+38	SW'W	3	m/R	46	97	46	4	5	3	-	7-8	9	1500
10	Spurn Head	93·5	-14	S	6	cbcq	50	85	46	7	8	3	1	4-6	7-8	2500
	Catterick	93·0	+6	WNW	2	rr	45	97	43	5	-	2	-	10	10	1200
	Tynemouth	92·8	+6	NW	2	rr	45	92	43	5	-	2	-	10	10	2500
11	St. Abbs Head	92·4	0	SW	1	r$_o$r$_o$	45	85	41	7	5	-	-	10	10	2500
	Leuchars	90·9	-4	SSW	3	ir$_o$	46	85	41	7	5	2	-	9	10	2000
12	Renfrew (Abbots I.)	90·9	+2	SW	4	c	48	85	43	7	8	1	1	4-6	9	800
	Eskdalemuir	92·1	+2	SSW	2	c	43	92	42	8	5	-	-	10	10	800
	Point of Ayre	92·9	+14	W	4	c	49	85	45	8	2	7	-	1	9	1800
13A	Tiree	86·0	+2	SSW	5	c/r	48	92	45	7	5	7	-	7-8	10	1500
13B	Stornoway	82·4	-14	S	7	c	49	97	45	8	8	-	-	9	9+	1500
15	Dalwhinnie	88·2	0	SSW	3	c	43	75	36	8	5	1	-	4-6	9+	2500
	Aberdeen	90·2	-2	SW	3	r$_o$r$_o$	45	85	40	6	5	2	-	Tr	10	2500
	Wick	87·7	0	S	3	c	46	75	39	9	5	2	-	Tr	9	3000
16	Sumburgh	88·5	+16	SW	4	c-bc	47	85	44	7	5	7	9	4-6	7-8	2500
17	Blacksod Point	91·8	+34	WSW	4	c-bc	49	97	48	8	8	-	-	7-8	7-8	2500
18	Malin Head	88·4	+22	SW	5	c	46	85	42	8	5	2	-	7-8	9+	1500
	Aldergrove	92·1	+18	SSW	2	c-bc	46	75	39	8	-	4	6	0	7-8	-
19	Birr Castle	94·6	+18	S	2	bc	50	75	43	8	-	-	5	0	4-6	-
20	Valentia Obsy.	96·1	+18	WSW	3	c	51	65	40	9	2	7	3	2-3	9+	2500
	Roches Point	96·1	+26	W'S	1	bc	50	85	46	8	2	-	5	Tr	4-6	2500

OBSERVATIONS at 18h. G.M.T. 11th December — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Weather 7h.–13h. 11th (39)	Weather 13h.–18h. 11th (40)	Weather 18h. 11th to 1h. 12th (41)	Weather 1h.–7h. 12th (42)
London (Kew)	02·2	+6	SSE	2	c-bc/r	49	85	46	6	7	7	-	2-3	7-8	1500	1	*	cir$_o$m$_o$c	ir$_o$bcir$_o$	bccr$_o$c	crsrr$_o$c
Croydon	03·2	-18	S	1	m	49	92	47	4	5	3	-	2-3	4-6	1500	1	*	cir$_o$cjpcr$_o$p	bcm$_o$	or$_o$r$_o$m$_o$bcm,	cr$_o$r$_o$cm
S. Farnborough	02·0	+10	S	3	c	50	85	46	6	5	7	-	4-6	9+	3000	1	*	cr$_o$mbcpr$_o$c	cbcr$_o$circm$_o$	crbccb	
Boscombe Down	01·5	+10	SSE	3	pr$_o$	48	92	46	6	8	-	-	10	10	1200	1	*	cm$_o$prc	cbcprc	cRir$_o$bc	cm$_o$b
Thorney Island	02·3	+6	S'E	3	c-bc	51	85	47	7	5	-	-	7-8	7-8	5800	1	*	circjp	cr$_o$c	cirbccir	irir$_o$bm$_o$
Lympne	04·1	+4	S	3	c	50	92	47	7	5	1	-	4-6	9+	3800	1	§ 5	czcbc	bcc	cr$_o$bccm$_o$	wcm$_o$pr$_o$m$_o$
Manston	04·3	+6	SSW	3	z$_o$	51	85	47	6	2	3	2	4-6	7-8	3000	1	*	c	cbc	bccpr$_o$m$_o$	bcpr$_o$b
Shoeburyness	03·8	+6	S	4	bc/r	50	85	47	9	5	3	-	4-6	4-6	2500	1	*	c	cir$_o$	cir$_o$c	cm$_o$c
Felixstowe	03·3	+12	S'W	3	z$_o$	48	92	46	6	5	7	6	2-3	4-6	4000	0	4	ccir$_o$c	cbc	cm$_o$r$_o$r$_o$bcm,	bcm,cm,ir$_o$
Gorleston	03·3	+18	SW'S	1	b-bc	49	75	40	7	-	7	-	0	2-3	-	0	4	cbcq	cbc	bcr$_o$c	cbc
Mildenhall	02·1	+34	S'E	3	c	51	85	46	7	5	-	-	9+	9+	4900	1	*	crn$_o$c	ccpr$_o$c	cpr$_o$bcc	c
Cranwell	01·5	+16	S'E	2	z$_o$	40	92	39	6	-	7	3	0	2-3	-	1	*	cir$_o$m$_o$c	bcbcm$_o$	cr$_o$r$_o$m	rar$_o$c, bcm
Birmingham	01·1	+16	S	1	z$_o$	45	92	43	6	5	-	-	4-6	4-6	2500	1	*	cir$_o$cpr$_o$	cbc	corr$_o$	or$_o$b
Upper Heyford	00·6	+10	S'W	1	z$_o$	48	92	46	6	4	6	2	1	9	4000	1	*	m$_o$ir$_o$m$_o$c	cpr$_o$cm$_o$	r$_o$r$_o$ddm	ocbcm$_o$
Ross-on-Wye	00·2	+12	S'E	1	c	47	85	44	6	5	-	2	2-3	9	2500	1	*	cmiq	cc	crr	r$_o$cb
Hartland Point	00·3	+24	S	2	r$_o$r$_o$	48	92	47	7	5	-	-	9+	9+	1500	1	4	crrprv	cpr	crrr$_o$r$_o$	cbcpr
Bristol	01·0	+10	SSE	2	ir$_o$	46	97	45	7	5	7	-	2-3	10	4000	1	*	rqcbc	cmccir$_o$	cr$_o$r$_o$ccm,	cm$_o$ir$_o$bm$_o$
Portland Bill	99·7	+2	SW	4	RR	53	92	51	7	5	-	-	10	10	2500	1	6	cir	pR	cRc	bco
Plymouth	00·0	+12	-	0	c/pr	48	97	48	5	4	7	-	7-8	10	1500	1	3	rrm$_o$pr$_o$c	cprcm$_o$	cprpr$_o$m$_o$c	cpr$_o$bm$_o$
The Lizard	00·4	+16	WNW	4	pr$_o$	48	92	46	7	8	2	-	9	10	1500	1	4	cprc	cpr	crrpr	cprbc
Scilly (St. Mary's)	00·1	+24	NW'W	4	c/r	48	92	47	8	7	7	-	4-6	9+	1000	1	4	p	cir	cbcb	bcpobc
Guernsey																					
Pembroke	00·0	+10	NW'W	1	c-bc	49	92	47	8	8	6	2	4-6	7-8	2000	1	3	cir	c	cbcpr	bc
Holyhead (Valley)	99·3	+26	SW	3	b	46	92	44	8	-	-	1	0	1	-	1	2	rrcpr$_o$	cbcbbc	b	bw
Chester (Sealand)	99·6	+28	S'W	2	b	45	92	42	6	5	4	-	1	1	5700	1	*	cmrr	mbcb	bm$_o$cb	bm$_o$mm$_o$
Manchester	00·0	+26	SSE	3	z$_o$	45	92	42	6	4	3	1	2-3	2-3	3000	1	*	cRRm	cmbcm$_o$	ir$_o$cm	bFFm
Spurn Head	01·1	+24	SSW	3	b-bc	49	85	40	7	-	3	-	0	2-3	-	0	3	cq	bc	od$_o$d$_o$m$_o$	d$_o$bcz$_o$
Catterick	99·3	+40	SW	1	b	45	85	41	7	5	3	-	Tr	Tr	2500	1	*	Rfrrm$_o$	orrm$_o$b	bcm$_o$cm$_o$	cm$_o$fw
Tynemouth	97·8	+22	SW	3	z$_o$	45	85	41	5	-	-	-	0	0	-	1	3	cm$_o$orr	cbcbm$_o$	bbcm$_o$	bcm$_o$
St. Abbs Head	93·9	+16	ESE	3	b	44	92	41	7	5	-	-	1	1	2500	1	3	crcr$_o$s	cr$_o$bc	bbcc	cbc
Leuchars	93·2	+16	SSW	3	b	45	85	41	7	5	-	-	Tr	Tr	2000	1	*	ccir$_o$m$_o$	cm$_o$bcb	bm$_o$b	bbcbw
Renfrew (Abbots I.)	94·6	+30	WSW	2	b-bc	45	85	40	7	4	-	-	2-3	2-3	2500	2	*	cm$_o$c	cpr$_o$bcm$_o$b	bbcbm$_o$	bm$_o$bcm$_o$
Eskdalemuir	96·2	+30	SSW	4	b-bc	41	85	38	7	5	-	-	2-3	2-3	1600	1	*	occr$_o$c	cm$_o$bc	bcb	bx
Point of Ayre	97·7	+24	W	3	b	44	85	41	8	4	-	-	1	1	2500	1	3	cr$_o$r$_o$c	cbcb	bu	b
Tiree	91·1	+34	WSW	6	pr$_o$	48	85	42	8	2	3	-	4-6	4-6	2000	1	5	bccr$_o$Rr$_o$	cprbcpr$_o$	bcprc	bcprjp
Stornoway	86·0	+38	SW	5	c-bc/pr	47	86	43	8	8	6	-	4-6	7-8	1500	1		cb,cjp	ccpr$_o$c	cpr$_o$cbc	bc
Dalwhinnie	91·4	+20	W	2	pr$_o$	40	86	36	7	5	-	-	10	10	2500	1	*	coc	cpr$_o$		oprbc
Aberdeen	91·4	+16	SSW	1	z$_o$	45	85	40	5	-	7	-	0	2-3	-	1	2	bccz$_o$cr$_o$r$_o$	cr$_o$r$_o$bcbz$_o$	bz$_o$ *	bz$_o$w
Wick	87·7	+2	SSE	4	c-bc	46	75	39	9	5	7	4	2-3	7-8	3000	1	*	bccv	c	cbcbc	bcbbc
Sumburgh	88·1	0	SSW	3	c	47	85	42	8	5	7	-	9	9+	3000	1	4	bcc	c	cir$_o$bcb	bbcir$_o$
Blacksod Point	96·2	+30	WSW	4	b-bc	48	97	47	8	9	-	-	2-3	2-3	2500	1	3	bc	bc	bc	pr
Malin Head	92·7	+30	SW	3	bc	45	85	41	8	2	-	-	4-6	4-6	2500	2	4	pr	c	bc	bc
Aldergrove	99·6	+32	S	3	bc	43	85	39	7	5	7	-	Tr	4-6	2500	1	*	cbcc	bccbc	b	bbx
Birr Castle	98·4	+24	SSW	2	b-bc	43	85	39	8	-	-	8	0	2-3	-	1	*	bc	bc	*	b
Valentia Obsy.	99·8	+26	S	3	c-bc	45	75	38	9	3	7	3	2-3	7-8	2500	1	3	pr	pr	pr	bc
Roches Point	99·8	+22	SW'W	2	c-bc	47	85	43	8	5	7	5	4-6	7-8	1500	1	5	bc	c	bc	b

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

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands	Light southwest wind backing south and freshening; fine at first, rain later, mild.
5 S.W. England, 6 South Wales, 7 North Wales, 8 N.W. England	Freshening south to southeast wind, strong to gale on coasts later, veering south west to west; rain spreading from west followed by bright intervals and thundery showers; mild.
9 N. Midlands, 10 N.E. England, 11 S.E. Scotland	Light south west wind backing south or southeast and freshening, strong to gale locally later; fair at first, rain later, mild.
12 S.W. Scotland & Isle of Man, 13A W. Scotland, 13B N.W. Scotland	As 5-8
14 Mid Scotland, 15 N.E. Scotland ✦	As 9-11
16 Orkneys and Shetlands ✦	As 9-11
17 N. W. Ireland ✦, 18 N. E. Ireland ✦, 19 S. E. Ireland ✦, 20 S. W. Ireland ✦	As 5-8

GENERAL INFERENCE

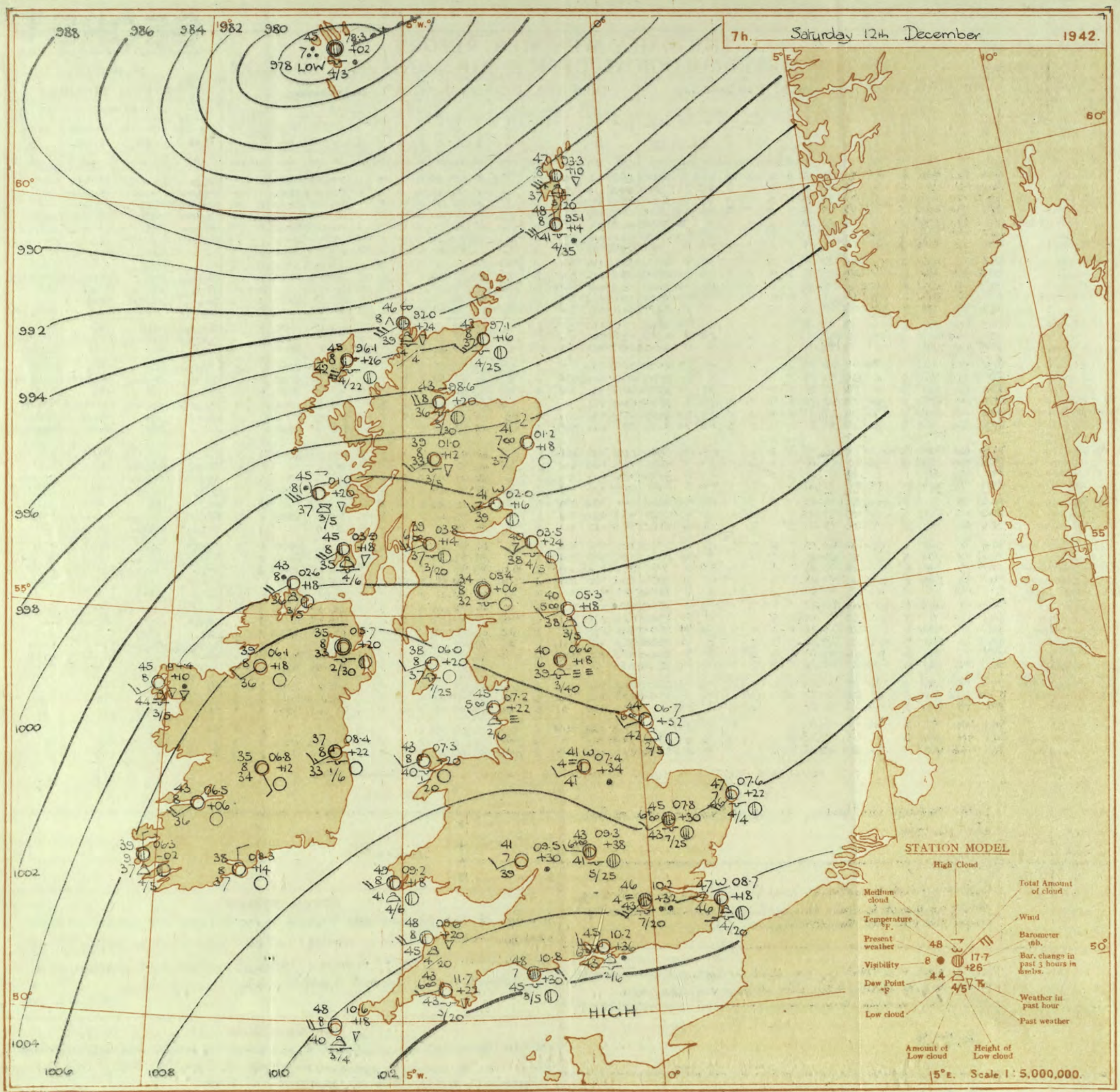
A ridge of high pressure over England is moving east and a deep depression west southwest of Ireland is moving northeast. Weather will be mainly fair at first but rain is expected to spread northeast across the British Isles from the southwest during the next twenty four hours.

FURTHER OUTLOOK

Fresh or strong squally southwest to west winds with bright intervals and showers; mild. ✦ Gale warning in operation in districts 15, 16, (part of). Time of issue 0740 12.12.42. In districts 17, 18, 19, 20. Time of issue 1040. 12.12.42.

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.

6.369/4372. W.9144. D.2560. 6p. 349/2.7760. 12/42.

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.

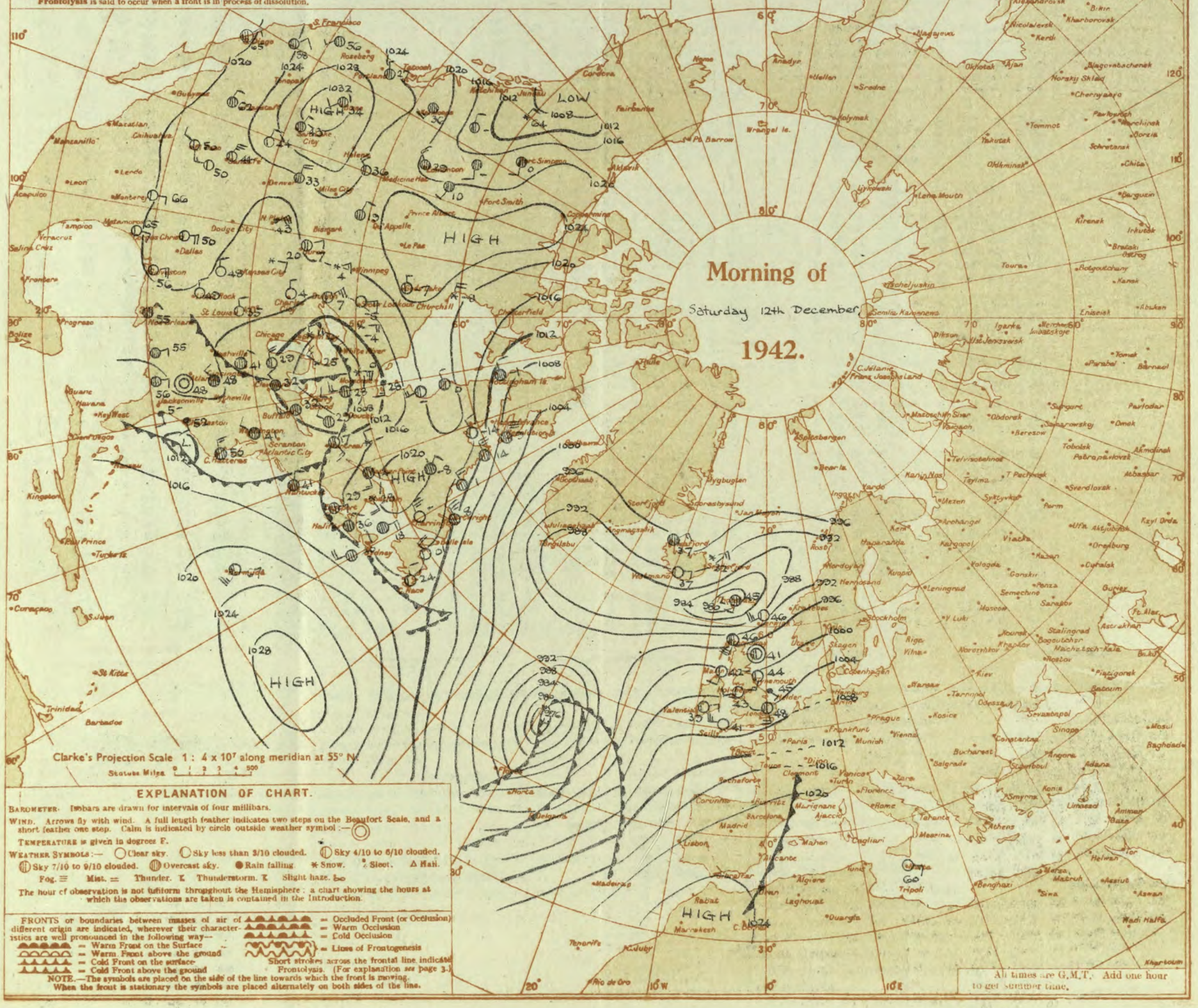
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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 12th December 1942

No. 29605

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	48	*	*	*	*	*	*	*	*	*
	Croydon	290	05.3	+10	S'E	4	be/r	48	92	47	5	5	-	-	4-6	4-6	1200
	S. Farnborough	226	04.5	+10	SSW	3	ir	46	92	44	6	5	-	-	10	10	6000
	Boscombe Down	417	04.5	+14	SSE	2	be/r	45	97	45	6	5	-	-	4-6	4-6	3000
	Thorney Island	10	04.8	+14	WSW	4	ir	49	85	46	6	5	-	-	10	10	3800
	Lympne	283	06.5	+10	SSW	4	z.	48	92	46	6	5	-	-	10	10	2000
	Manston	154	06.3	+12	ESE	4	pr.	48	92	46	7	2	-	-	4-6	4-6	2000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	05.3	+8	S'E	3	z.	47	92	45	5	5	-	-	7-8	7-8	4300
	Gorleston	5	04.8	+6	S'W	4	c-be/r	47	92	45	6	8	-	-	7-8	7-8	800
	Mildenhall	15	03.7	+6	S	3	c-be	48	85	45	7	5	-	-	7-8	7-8	4300
	Cranwell	203	02.6	+2	-	0	r.r.	45	97	45	4	-	2	-	10	10	700
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	03.8	+14	WSW	2	z.	45	97	45	5	5	-	-	10	10	2800
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	04.8	+24	WSW	3	c-be	48	75	41	8	2	-	-	7-8	7-8	2500
	Bristol	209	05.4	+22	W'N	4	r.	45	92	43	6	-	2	-	10	10	2400
	Portland Bill	32	03.7	+16	S	5	c-be	51	92	49	8	5	-	-	7-8	7-8	2500
	Plymouth	82	06.5	+34	WNW	3	pr.	47	92	45	8	8	6	-	7-8	9+	2500
	The Lizard	240	07.2	+30	NNW	3	pr.	45	97	44	8	5	-	-	7-8	7-8	1500
	Scilly (St. Mary's)	163	06.9	+22	W	5	b	41	85	37	8	-	-	-	0	0	-
	Guernsey	175															
6	Pembroke	142	05.0	+18	W'N	4	be/pr	48	75	41	8	2	-	-	4-6	4-6	2500
7	Holyhead (Valley)	32	03.8	+18	SW'W	2	b-bc	43	92	40	8	-	-	2	0	2-3	-
	Chester (Sealand)	16	02.9	+10	-	0	z.	39	92	38	6	5	-	-	1	1	4000
8	Manchester	235	03.7	+14	-	0	m	41	97	40	4	5	-	2	2-3	9	4000
10	Spurn Head	29	02.6	0	SE'S	1	d.d.	45	97	44	6	5	-	-	10	10	1500
	Catterick	175	03.5	+10	-	0	m	40	97	40	4	-	2	-	0	9	-
	Tynemouth	108	02.9	+14	SSW	3	z.	44	85	38	5	2	-	-	2-3	2-3	2500
11	St. Abbs Head	280	99.8	+14	SW	3	c-be	42	92	39	7	5	-	-	7-8	7-8	2500
	Leuchars	36	99.3	+22	SW	4	b	43	85	40	7	-	4	-	0	1	-
12	Renfrew (Abbots I.)	19	00.9	+22	SSW	2	z.	44	85	40	6	-	-	-	0	0	-
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	01.8	+12	SW'W	3	b	42	92	40	8	4	-	-	1	1	2500
13A	Tiree	44	97.4	+24	SW'W	5	b/pr	47	75	38	8	2	-	-	1	1	2500
13B	Stornoway	15	91.8	+20	SSW	6	c-be	46	85	40	7	8	-	-	7-8	7-8	1800
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	97.8	+18	-	0	bc	41	85	36	8	5	-	2	2-3	4-6	4000
	Wick	114	94.0	+28	S'W	2	b-bc	43	75	32	8	5	-	-	2-3	2-3	2000
16	Sumburgh	19	91.8	+22	SSW	6	b	48	85	43	8	5	-	-	1	1	3000
17	Blacksod Point	18	01.8	+22	WSW	4	be	46	92	44	8	9	-	-	4-6	4-6	2500
18	Malin Head	84	99.3	+26	S'W	2	b-bc	42	85	38	8	2	-	-	2-3	2-3	2500
	Aldergrove	268	02.2	+20	SSE	1	b	38	97	37	8	-	-	-	0	0	-
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	05.8	+24	NE'E	2	b-bc	39	92	37	8	2	-	-	2-3	2-3	2500
	Roches Point	22	05.6	+22	W	3	b-bc	44	85	40	8	5	-	-	2-3	2-3	2500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	09.2	+30	WSW	2	z.	46	92	44	6	5	-	-	9	9	2500	1	*
Croydon	10.2	+32	SW	3	m/r	46	85	43	4	5	-	-	9+	9+	2000	1	*
S. Farnborough	10.0	+36	W'S	2	z.	45	97	44	6	5	7	-	7-8	10	4000	1	*
Boscombe Down	11.0	+38	WSW	3	b	38	92	37	7	5	-	-	1	1	3000	1	*
Thorney Island	10.2	+36	WNW	3	z.	45	92	43	6	8	-	-	1	1	4000	1	*
Lympne	09.4	+18	SW	1	c/pr	48	92	46	6	2	6	-	4-6	9	1000	1	§ 3
Manston	08.7	+18	SSW	3	be	47	97	46	7	8	3	-	4-6	4-6	2000	1	*
Shoeburyness	09.1	+20	SSW	2	c	46	92	44	6	5	-	-	9	9	1500	1	*
Felixstowe	08.3	+22	SW'S	2	c/r	46	97	45	6	5	-	-	9	9	4000	1	*
Gorleston	07.6	+22	SW'S	2	be	47	92	46	7	5	-	-	4-6	4-6	1500	1	3
Mildenhall	07.8	+30	SW'W	2	z.	45	92	43	6	5	-	-	9+	9+	2500	1	*
Cranwell	08.8	+38	WSW	1	m	42	97	41	4	5	-	-	7-8	7-8	4000	1	*
Birmingham	09.6	+26	SW	2	z.	41	92	39	5	-	-	-	0	0	-	1	*
Upper Heyford	09.3	+38	WNW	1	z.	43	92	41	6	5	-	-	7-8	7-8	2500	1	*
Ross-on-Wye	09.5	+30	WSW	2	b	41	92	39	7	-	-	-	0	0	-	1	*
Hartland Point	09.6	+20	WSW	4	b-bc	48	92	45	8	2	-	-	4-6	4-6	2000	1	4
Bristol	10.5	+20	W	1	z.	39	97	38	6	-	4	-	0	Tr	-	2	*
Portland Bill	10.8	+30	E	3	o	48	85	45	7	5	-	-	10	10	2500	1	4
Plymouth	11.7	+22	W'S	1	z.	43	97	43	6	5	-	-	2-3	2-3	2000	1	3
The Lizard	11.1	+20	WNW	4	be/pr	49	75	44	8	3	-	-	4-6	4-6	1500	1	4
Scilly (St. Mary's)	10.6	+18	W'S	4	b-bc	48	75	40	8	8	-	-	2-3	2-3	1500	1	4
Guernsey																	
Pembroke	07.2	+18	W'S	4	be	49	75	41	8	2	-	-	4-6	4-6	4000	1	3
Holyhead (Valley)	07.3	+20	WSW	2	b	43	92	40	8	5	-	-	Tr	Tr	2000	1	1
Chester (Sealand)	07.5	+24	-	0	z.	37	92	35	6	-	-	-	0	0	-	3	*
Manchester	08.1	+22	SSW	3	m	38	97	38	4	5	-	-	1	1	4000	1	*
Spurn Head	06.7	+32	W'S	2	z.	44	92	42	6	2	1	-	1	4-6	2500	1	2
Catterick	06.6	+18	-	0	bbc/f	40	97	39	6	4	-	-	2-3	2-3	4000	1	*
Tynemouth	05.3	+18	WSW	2	z.	40	92	38	5	2	-	-	2-3	2-3	2500	1	3
St. Abbs Head	03.5	+24	SW	2	be	40	92	38	7	5	-	-	4-6	4-6	2500	0	3
Leuchars	02.0	+16	WSW	3	b	41	92	39	7	-	3	-	0	1	-	1	*
Renfrew (Abbots I.)	03.8	+14	WSW	3	z.	39	92	37	6	5	-	-	2-3	2-3	2000	2	*
Eskdalemuir	05.4	+6	-	0	b-bc	34	97	32	8	5	-	-	2-3	2-3	2500	3	*
Point of Ayre	06.0	+20	WSW	2	b	38	97	37	8	4	-	-	Tr	Tr	2500	0	2
Tiree	01.0	+20	WSW	5	b-bc/p	45	75	37	8	3	-	3	2-3	2-3	2500	1	5
Stornoway	96.1	+26	SSW	6	bc	45	85	42	8	5	-	-	4-6	4-6	2300	1	*
Dalwhinnie	01.0	+12	SW	3	b-bc	39	85	33	8	5	-	-	2-3	2-3	2500	1	*
Aberdeen †	01.2	+18	SW	2	z.	41	85	37	7	-	-	6	0	2-3	-	1	2
Wick	97.1	+16	SW	3	bc	42	85	37	8	5	-	-	4-6	4-6	2500	1	*
Sumburgh	95.1	+14	SW	6	bc	48	75	41	8	5	-	-	4-6	4-6	3500	1	5
Blacksod Point	04.4	+10	SW	3	b-bc/pr	45	97	44	8	8	-	-	2-3	2-3	2500	1	3
Malin Head	02.6	+18	SW'W	4	b-bc	43	75	36	8	2	-	-	2-3	2-3	2500	2	3
Aldergrove	05.7	+20	-	0	b	35	97	33	8	5	-	-	1	1	3000	1	*
Birr Castle	06.8	+12	SSE	1	b	35	97	34	8	-	-	-	0	0	-	1	*
Valentia Obsy.	06.3	-2	N	1	c-be	39	92	37	9	2	-	1	4-6	7-8	2500	1	2
Roches Point	08.3	+14	N	2	b	38	97	37	8	-	-	-	0	0	-	1	5

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 11th Hrs. (38)
London (Kew)	53	45	40	Tr	1	1.0
Croydon	53	45	44	2	4	0.7
S. Farnborough	53	44	39	0.3	3	0.9
Boscombe Down	52	38	31	2	4	1.3
Thorney Island	54	44	41	1	6	*
Lympne	54	46	43	-	1	4.5
Manston	54	46	43	Tr	Tr	0.5
Shoeburyness	54	45	37	Tr	Tr	0.4
Felixstowe	53	45	41	Tr	1	1.2
Gorleston	54	46	38	-	2	0.1
Mildenhall	56	44	37	Tr	0.2	1.3
Cranwell	51	39	33	0.2	3	1.1
Birmingham	49	40	40	2	4	1.7
Upper Heyford	51	43	40	0.6	4	*
Ross-on-Wye	51	41	35	2	11	1.2
Hartland Point	51	45	43	7	15	0.6
Bristol	51	39	31	2	4	0.7
Portland Bill	53	47	*	6	2	*
Plymouth	54	43	32	5	4	1.0
The Lizard	54	45	*	2	4	0.3
Scilly (St. Mary's)	51	41	*	4	0.3	0.7
Guernsey						
Pembroke	51	*	*	8	1	0.4
Holyhead (Valley)	53	42	35	3	-	*
Chester (Sealand)	50	36	25	11	Tr	1.2
Manchester	51	38	34	19	Tr	*
Spurn Head	51	43	*	1	10	1.8
Catterick	47	36	29	24	-	0.0
Tynemouth	49	40	36	9	-	*
St. Abbs Head	45	39	*	4	-	*
Leuchars	47	40	35	Tr	-	0.0
Renfrew (Abbots I.)	49	38		*	-	0.5
Eskdalemuir	44	32	23	3	-	0.0
Point of Ayre	50	37	*	0.6	-	1.4
Tiree	49	44	40	1	0.2	0.4
Stornoway	49	43	41	0.1	1	0.0
Dalwhinnie	43	37	30	1	1	0.0
Aberdeen †	46	38	32	0.6	-	0.0
Wick	46	42	36	-	Tr	*
Sumburgh	50	46	42	Tr	Tr	1.1
Blacksod Point	50	43	*	0.6	0.5	*
Malin Head	49	40		0.1	Tr	1.5
Aldergrove	47	33	24	0.1	0.1	3.1
Birr Castle	51	32	27	-	-	3.3
Valentia Obsy.	51	36	33	0.6	0.4	1.5
Roches Point	51	38	*	-	Tr	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 11th December $C_L C_M$	$wwVhN_h$	DDFWN	18h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN	01h. G.M.T. 12th December $C_L C_M$	$wwVhN_h$	DDFWN	07h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN
109	52	02775	16428	5-	01764	16424	5-	01764	50514	51	01763	50513
115				52	81844	20597	87	83744	87686	87	14844	87686
203	88	02846	16606				6-	02838	16668	50	01953	20613
206	84	02866	08227	57	02854	20326	50	01863	24313	50	01863	24413
210	77	02983	12227	57	02862	18326	50	01862	18422			
220	83	25745	16586	80	01644	21684						
230	8-	10868	18228	8-	25853	53483	5-	02844	18464	10	02954	50464
245	52	22653	18368	54	01761	22321	04	01790	21403	04	01890	20213
260	57	61545	18227	00	05690	20410	00	00790	18300	00	00790	20300
278	04	02890	21225	10	00852	22312	04	01790	21304	50	01761	20301
279	52	64655	18168	04	01790	16362	50	05662	18312	54	08662	22213
285				20	01745	28415				50	01744	08314
288	02	64438	25468				02	05590	14226	01	41190	19244
575	56	01853	18204	85	02841	20225	50	01853	20313	00	00890	20100
301	50	22756	20267	00	01790	18263	50	08453	14143	20	05562	22142
321	52	05645	55466	03	05590	18112	5-	64458	00068	50	41461	20261
299	8-	02656	18526	00	05690	24300	5-	62658	00068	50	01753	00013
292	62	64656	27468	50	08452	15264	02	67348	00068	00	43390	18160
310				--	01634	20314				--	46209	20349
614	57	51645	53467	50	08453	18153	5-	62448	26168	03	08490	22263
333	5-	62635	18227	50	05752	23265	50	05553	07125	50	04751	00041
334	--	02745	26317							--	01762	00003
340	77	22843	22364	58	05655	16315	5-	05654	20164	04	01790	20102
136	8-	22747	52567	50	01744	19364	5-	08675	19365	53	05555	23366
336				57	05654	20328				50	01753	16313
350	53	21844	50565				8-	21645	14385			
368	5-	02957	20867	52	62768	00068	5-	02643	20168	50	01764	00084
379	8-	02843	18565	5-	02748	16228	5-	02748	16328	5-	01751	16221
390	87	05545	51566	40	81453	18483	5-	61457	20227	5-	47347	20367
382	83	25855	20486	47	05653	14226	5-	02606	20267	07	01790	00064
438	84	01-53	20614	8-	62657	20487	5-	05657	26417	84	02744	22414
430	8-	02757	51427				50	22665	18485	50	05653	24283
409				32	62645	24188	8-	61856	23566	30	01854	22384

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 December, 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	ciromc	irobciro	bccroc
Croydon	cirocjpcrop	bcmo	orobcm
Greenwich	c	cbcp	bcpcrb
Camden Square	c	c	*
Kensington	cbc	bc	*
Hampstead	bcp	bcor	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. Time 0.3 17-18h on 11th; Min. Time <0.1 0-5h on 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	53	45	40	Tr	1	1.0	*	*
Croydon	53	45	44	2	4	0.7	*	*
Greenwich	54	45	39	0.3	2	1.0	74	88
Westminster	55	43	37	2			74	96
Regents Park	54	45	41	-	1		70	84
Camden Square	54	45	40	Tr	1	*	*	90
Kensington	54	45	36	-	1		82	93
Hampstead	52	41	36	Tr	.4		*	92

Page 1 **BRITISH SECTION**

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

SECRET

Sunday 13th December 1942

No. 29606

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	14·2	+12	SSW	2	Z0	49	75	42	6	-	-	6	0	7-8	-
	Croydon	14·8	+10	WSW	2	c-bc	51	75	43	7	1	4	6	Tr	7-8	2500
	S. Farnborough	14·2	+6	SW'W	3	c	51	75	43	8	1	3	8	Tr	9	2500
	Boscombe Down	14·5	+10	S	3	c	48	85	44	7	5	-	6	1	9	4000
	Thorney Island	14·8	+10	SSW	2	c-bc	51	85	46	7	8	-	6	1	7-8	2500
	Lympne	14·6	+18	WSW	3	b	51	75	43	8	1	-	2	Tr	1	2500
	Manston	14·0	+20	W'W	3	Z0	51	75	41	6	-	4	5	0	Tr	-
2	Shoeburyness	14·8	+20	WSW	3	Z0	50	75	42	5	-	-	-	0	0	-
	Felixstowe	13·9	+26	W'S	3	Z0	51	75	43	6	-	4	-	0	Tr	-
	Gorleston	12·7	+20	W'S	2	Z0	51	75	44	6	-	4	-	0	2-3	-
	Mildenhall	13·1	+18	SW'W	3	b	50	75	43	7	-	-	5	0	Tr	-
	Cranwell	11·6	+10	WSW	4	Z0	48	85	43	5	-	-	-	0	0	-
3	Birmingham	12·2	+6	SW	2	Z0	46	85	42	6	-	-	2	0	7-8	-
	Upper Heyford	13·1	+10	WSW	2	Z0	48	85	42	6	-	-	6	0	7-8	-
4	Ross-on-Wye	12·4	+4	SSW	2	c	49	75	41	7	1	-	6	1	9	3000
5	Hartland Point	11·5	0	SW	3	c-bc	48	85	42	8	2	4	6	2-3	7-8	2000
	Bristol	13·9	+6	S'W	3	c	48	75	41	7	2	7	6	Tr	9+	4000
	Portland Bill	14·2	+4	SW	4	c-bc	52	85	48	8	5	7	-	4-6	7-8	4000
	Plymouth	13·4	0	SSW	4	c	51	85	46	8	7	7	-	2-3	9+	2000
	The Lizard	11·6	-12	SSW	6	o	52	75	43	8	5	-	-	10	10	1500
	Scilly (St. Mary's)	09·2	-22	SSE	5	c	51	85	46	8	7	8	-	2-3	10	1200
	Guernsey															
6	Pembroke	11·0	+2	SW'S	5	c	50	75	40	8	2	7	-	7-8	10	1500
7	Holyhead (Valley)	09·5	+4	S'W	3	c	48	85	42	8	4	-	7	Tr	9+	2600
	Chester (Sealand)	10·6	+10	-	0	Z0	48	85	43	5	5	4	8	4-6	7-8	4000
8	Manchester	10·8	+6	S	4	Z0	47	85	42	6	5	-	5	2-3	4-6	6000
10	Spurn Head	11·5	+18	SW	2	m	47	85	42	4	-	-	-	0	0	-
	Catterick	10·1	+10	SW	3	bc	48	75	41	7	8	-	-	4-6	4-6	2000
	Tynemouth	09·1	+8	SW	2	b/f	47	75	40	5	-	-	-	0	0	-
11	St. Abbs Head	06·2	+6	SW	3	b	42	92	40	7	1	-	-	1	1	1000
	Leuchars	05·7	+8	SW'W	3	Z0	44	85	39	5	-	-	-	0	0	-
12	Renfrew (Abbots I.)	07·1	+14	SSW	2	bc	47	75	39	8	8	4	2	2-3	4-6	2500
	Eskdalemuir	08·5	+8	SW	3	c-bc	39	92	36	7	5	-	-	7-8	7-8	220
	Point of Ayre	08·5	+8	W'S	2	b	48	75	41	8	1	-	5	Tr	1	2000
13A	Tiree	94·2	+12	SW	4	bc	48	75	42	8	2	6	5	4-6	4-6	2500
13B	Stornoway	99·9	+22	SW	5	bc	46	85	41	8	8	6	-	4-6	4-6	1500
15	Dalwhinnie	04·0	+4	SSW	3	c-bc	40	75	34	8	5	-	-	7-8	7-8	2500
	Aberdeen	04·9	+8	S	2	Z0	44	75	37	6	-	-	5	0	1	-
	Wick	00·0	+20	SW'S	4	b-bc	44	65	34	9	5	-	-	2-3	2-3	3000
16	Sumburgh	97·1	+6	SW'W	6	c	47	85	43	8	5	7	-	7-8	9+	2000
17	Blacksod Point	03·2	-16	S'E	3	c	46	97	45	8	5	-	-	10	10	2500
18	Malin Head	04·9	+6	SSW	3	bc	43	75	36	8	9	-	2	2-3	4-6	2500
	Aldergrove	07·8	-2	SSE	1	c	42	85	37	7	5	-	6	Tr	9	2500
19	Birr Castle	05·8	-14	SE	2	c	43	75	36	8	5	-	-	10	10	2500
20	Valentia Obsy.	00·2	-48	WSW	6	++	48	85	44	7	6	2	-	4-6	10	1500
	Roches Point	05·3	-26	S'E	6	c	50	85	46	8	5	7	-	4-6	9+	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. (21)	Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Med. (26)	High (27)	Amount Low 0–10 (28)	Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Weather 7h.–13h. 12th (39)	13h.–18h. 12th (40)	18h 12th to 1h 13th (41)	1h.–7h. 13th (42)
London (Kew)	15·2	+2	SSE	2	Z0	46	85	43	6	5	-	6	1	4-6	4000	1	*	bm0wbcm0	bcm0w	bccr0c	cm0
Croydon	16·2	+8	S	1	bcf+	45	92	43	3	5	7	-	1	4-6	2000	1	*	cmbm0bc	cbcmcm	ofcm0irid0	cd0dcm0
S. Farnborough	15·2	+4	S'W	3	Z0	47	85	43	6	5	2	-	1	10	2500	1	*	cm0b-c	cbccm0	cm0++	cff0cm0
Boscombe Down	14·0	-6	SSE	4	c	47	85	43	7	5	1	-	Tr	10	3000	0	*	bim0	cbpc	cir0f0+m0	cmc
Thorney Island	15·4	+4	S'W	4	c	50	85	44	7	-	7	-	0	10	-	1	*	bm0bc	bcc	ccircm0	cm0ir0
Lympne	16·5	+6	SE	1	c/pr	46	97	45	7	4	-	8	2-3	9	2500	1	§ *	cm0b	bcpr0	ccm0rc	ccr0rrm0
Manston	16·6	+8	SSW	2	Z0	40	92	39	6	2	-	-	Tr	4-6	3000	1	*	bccbcm0	bcm0 ⊕	ccm0cir0	cd0++m0
Shoeburyness	16·6	+12	SW	3	Z0	45	92	42	6	-	4	6	0	7-8	-	1	*	bm0	cm0	cm0irr	cir0
Felixstowe	15·8	+14	S'W	3	Z0	43	97	42	5	-	-	6	0	4-6	-	1	2	bcm bm0bz	bz0bcm0w	cm0ir0cm0	cir0m0cm0
Gorleston	15·5	+12	SSW	2	Z0	44	85	40	6	-	-	-	0	0	-	0	3	cbcz0	bcbwz0	bcc	oprcq
Mildenhall	14·8	+10	SSE	3	Z0	44	85	40	6	-	4	1	0	2-3	-	1	*	cbcbm0b	bcbm0	cm0ir0m0	cir0cm0c
Cranwell	13·0	+8	S'E	2	Z0	41	97	41	5	-	7	6	0	9	-	1	*	bmbm0	bbccm0	cm0crrr0m0	cr0r0ir0m0
Birmingham	11·8	-2	SE	2	Z0	43	92	41	5	5	-	-	10	10	2500	1	*	bbcc	czcir		c
Upper Heyford	13·1	-2	S'E	1	Z0	44	92	42	5	-	1	-	0	10	-	1	*	bcm0bm0	cm0bcm0	cm0r0r0m0	om0
Ross-on-Wye	11·5	-8	SE'S	3	c	48	75	41	7	5	2	-	Tr	10	2500	1	*	bbc	cbcc		cq
Hartland Point	06·5	-34	SSE	4	c/+	48	85	43	8	5	1	7	7-8	10	1500	1	4	bcpr0ch	cirir	cir0	cir
Bristol	12·5	-10	S'E	8	ir0	49	75	42	7	-	2	-	0	10	-	1	*	bbcc	crr0c	cr0r0m0	cr0r0cm0
Portland Bill	13·1	-6	S	5	o	52	97	50	7	5	-	-	10	10	4000	1	5	bcc	b	o	o
Plymouth	10·0	-22	S'E	5	c/+	51	92	49	7	6	2	-	7-8	10	1500	1	3	bccm0gf	ccrrm0	cr0r0r0m	cm0
The Lizard	06·3	-26	S	8	++	51	92	49	7	5	-	-	10	10	1000	1	6	bco	o++	crrcq	coq
Scilly (St. Mary's)	02·4	-40	S'E	6	++	51	92	49	5	5	-	-	10	10	500	1	5	bco	crr	pircq	ici+
Guernsey																					
Pembroke	05·0	-36	SSE	7	++	50	92	47	7	6	2	-	4-6	10	1500	1	5	c	crrq	cirq	cq
Holyhead (Valley)	07·2	-18	SSE	5	c	48	85	44	8	5	2	-	1	10	2500	1	3	wbbc	cpr0c	circ	cir0bc
Chester (Sealand)	10·1	-2	SE'S	3	c	44	85	41	6	5	2	-	7-8	10	5400	1	*	bm0bcm0	cm0	m0r0f0c	f0f0m0c
Manchester	10·5	-2	SE	4	Z0	44	85	39	6	5	-	7	2-3	10	5700	1	*	bmbcm0	bccm0	cm0ir0	cm0
Spurn Head	12·0	0	S	3	m	43	92	41	4	7	3	-	4-6	4-6	4000	1	2	bm	bcm	o++	cq
Catterick	10·6	0	S	2	bcf+	42	92	40	3	-	-	-	0	4-6	-	1	*	bcm0bfbc	bz0bcm	cir0of	cr0r0cm0
Tynemouth	10·1	+6	SW	2	b-bcf	43	85	39	3	-	4	-	0	2-3	-	1	2	bcffdm0	bbcmff	bcffo	oro
St. Abbs Head	08·4	+12	SE	1	b	38	97	35	7	5	-	-	Tr	Tr	1000	0	2	bcb	bbcb	bccm0	o+m0bcb
Leuchars	07·1	+6	WSW	2	Z0	39	85	36	6	-	-	8	0	2-3	-	1	*	bm0	bcbm	bmcm0m0	o++cir0
Renfrew (Abbots I.)	06·8	-2	SE	1	Z0	40	85	35	5	-	4	6	0	10	-	2	*	m0bcm bc	bcbz0om0	ir0r0r0m0	cmcrcrcm0
Eskdalemuir	08·6	+2	SSW	3	c	38	92	35	6	5	-	-	9	9	1500	1	*	ofbc	bccm0		crrirc
Point of Ayre	06·7	-12	S'W	4	c	48	65	44	8	8	2	-	9	10	2500	0	3	b	bbcc	cd0d0++	++prc
Tiree	03·4	-8	S'E	4	c-o-c	45	75	38	8	4	6	6	Tr	7-8	2500	1	4	bcprbbc	bcc	f0+++m0	++crrtlT
Stornoway	02·1	+12	SSW	4	b-bc	44	75	38	8	5	-	5	Tr	2-3	2500	1	*	ccpr0c	cpr0b	bcc	cir0r0r0c
Dalwhinnie	05·2	+10	SSW	3	b-bc	38	85	32	8	5	-	-	2-3	2-3	2500	1	*	ocprc	cpr0bc	ccn	bcir0
Aberdeen	06·4	+8	S'W	2	bf+	40	85	36	3	-	-	8	0	Tr	-	1	2	bz0kbz0	bz0f	bfbf0	bbcrrc
Wick	02·9	+14	SW	4	bc	41	75	35	9	5	3	1	2-3	4-6	2500	1	*	bc	bc	bcc	ccir0crr
Sumburgh	99·1	+14	SW'W	6	pr	46	97	46	7	8	-	-	10	10	1500	1	4	c	cir0pr0	cpr0bcc	ccbb
Blacksod Point	94·1	-54	S'E	7	+0+0	47	97	46	7	6	2	-	4-6	10	1500	1	5	c	+	c	+
Malin Head	01·1	-30	S'E	4	c	42	75	35	8	5	2	-	4-6	10	2500	2	3	pr	c	+	+
Aldergrove	04·1	-22	SE	2	Z0	43	85	39	6	-	2	-	0	10	-	1	*	bcxm0c	ccm0	cr0r0o	c++ir0
Birr Castle	98·3	-46	SE	5	ir0	47	85	43	7	6	2	-	7-8	10	800	1	*	c	+	•	pr
Valentia Obsy.	89·4	-52	SE'S	7	ir	54	92	52	6	6	2	-	7-8	10	1500	1	6	+	+	pr	pr
Roches Point	95·2	-64	S'E	8	++	49	97	48	6	6	2	-	4-6	10	800	1	6	c	+	+	+

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 13th December

Districts	Forecast
1 S.E. England ✦ 2 E. England ✦ 3 E. Midlands	Moderate or fresh south wind, strong locally; occasional rain or showers: mild.
4 W. Midlands 5 S.W. England ✦ 6 South Wales ✦ 7 North Wales ✦ 8 N.W. England ✦ 9 N. Midlands 10 N.E. England ✦ 11 S.E. Scotland ✦ 12 S.W. Scotland & Isle of Man ✦ 13A W. Scotland ✦ 13B N.W. Scotland ✦ 14 Mid Scotland 15 N.E. Scotland ✦	Fresh or strong south wind, gale at times at exposed places; occasional rain and showers: mild.
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

A very deep depression west of Ireland is moving slowly north, and another deep depression near the Azores is moving rapidly east-northeast. A shallow depression over Northwest Spain is moving northeast. Stormy, unsettled, mild weather will continue with occasional rain or showers.

FURTHER OUTLOOK

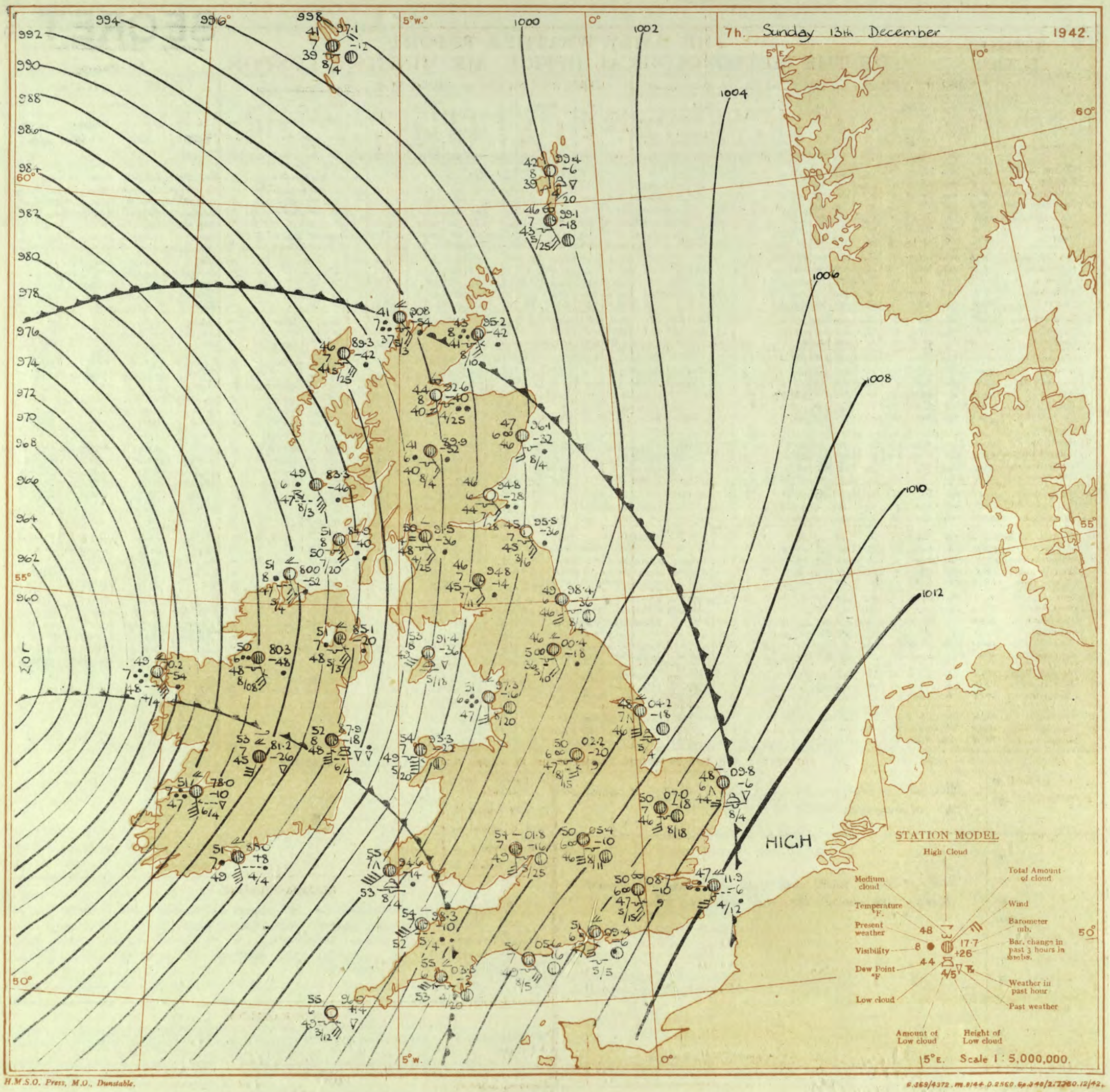
Unsettled and stormy southwesterly type of weather: mild.

✦ Gale warning in operation in districts 17, 18, 19, 20; time of issue 1040 G.M.T. 12.12.42. In districts 5, 6, 7, 8, 12; time of issue 1240 G.M.T. 12.12.42. In districts 13A & 13B, time of issue 1930 G.M.T. 12.12.42. In districts 2 (part of) 10, 11, 15, 16; time of issue 0855 G.M.T. 13.12.42. ~~In district 1 (part of), time of issue 0045 G.M.T. 13.12.42.~~

Forecasts issued at

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.

6.369/4372. m.8144. D.2560. 6p.340/2.7760. 12/42.

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).

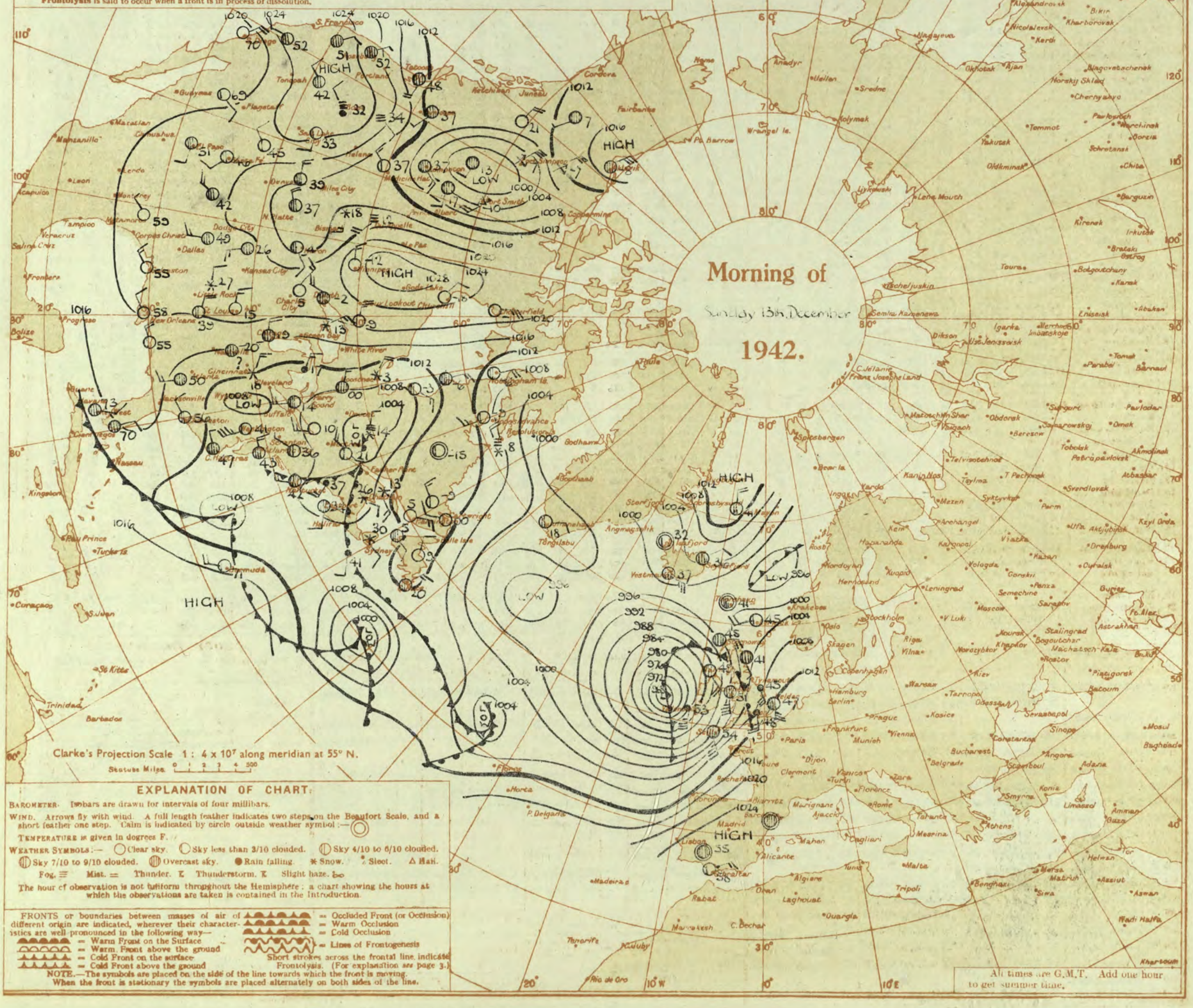
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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 13th December 1942

No. 29606

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	49	*	*	*	*	*	*	*	*	*
	Croydon	290	12·9	-22	S'E	5	d₀d₀	48	92	47	4	5	-	-	10	10	1300
	S. Farnborough	226	11·2	-20	NW'N	4	++	47	92	46	6	5	-	-	10	10	1500
	Boscombe Down	417	09·8	-22	S'W	5	t₀t₀	47	97	47	6	5	-	2	10	10	1200
	Thorney Island	10	11·9	-26	SW'S	6	c₀/+	50	92	47	6	5	-	-	10	10	2500
	Lympne	283	14·3	-20	S	4	c/+	48	85	44	7	-	7	-	0	10	-
	Manston	154	..·4	-14	S'W	4	c	48	92	46	6	5	2	-	4-6	10	3000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	14·0	-14	S'E	5	c/+	47	92	45	5	-	7	-	0	10	-
	Gorleston	5	13·1	-18	S	5	c	47	85	44	7	5	-	-	9	10	1500
	Mildenhall	15	11·4	-20	SSE	4	ir₀	47	85	44	6	-	2	-	10	10	6500
	Cranwell	203	08·5	-28	SSE	4	ir₀	45	97	45	5	5	2	-	7-8	10	1000
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	09·3	-18	S'E	4	z₀	46	92	43	6	5	-	-	10	10	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	01·3	-16	S	6	c	52	92	50	7	6	2	-	7-8	10	1500
	Bristol	209	07·7	-22	S	4	t₀t₀	50	92	48	6	-	2	-	10	10	1600
	Portland Bill	32	08·8	-20	SE	6	o	50	92	48	7	2	-	-	10	10	2500
	Plymouth	82	05·1	-28	S	7	c/+	53	97	53	6	5	-	-	10	10	1500
	The Lizard	240	02·7	-10	SSW	8	c/+	55	92	53	7	5	2	-	9	10	1000
	Scilly (St. Mary's)	163	98·3	-18	SSE	7	c	54	92	51	6	5	-	-	10	10	800
	Guernsey	175															
6	Pembroke	142	98·3	-30	S	8	cq	53	92	51	7	8	2	-	7-8	10	1500
7	Holyhead (Valley)	32	98·8	-28	S'E	9	c/+	51	92	47	7	-	2	-	10	10	1400
	Chester (Sealand)	16	02·5	-36	S	4	c/+	50	92	46	7	6	2	-	4-6	10	2500
8	Manchester	235	04·9	-30	SE	5	c/+	49	85	44	6	5	2	-	7-8	10	1400
10	Spurn Head	29	09·4	-24	S'E	6	++	45	92	43	6	5	-	-	10	10	2500
	Catterick	175	05·3	-38	SSE	2	t₀+f	43	97	43	3	5	2	-	4-6	10	1500
	Tynemouth	108	04·6	-38	S	5	o	45	85	42	6	5	-	-	10	10	1500
11	St. Abbs Head	280	03·7	-32	SSE	2	z₀	42	97	42	6	5	-	-	10	10	2500
	Leuchars	36	02·6	-36	ESE	2	++	42	92	40	6	-	2	-	10	10	2100
12	Renfrew (Abbots I.)	19	99·8	-46	ENE	3	c/+	45	85	40	5	5	2	-	9	10	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	98·7	-38	S'E	6	++	47	97	47	6	6	2	-	7-8	10	800
13A	Tiree	44	93·8	-54	SE	7	++	45	97	44	6	6	2	-	9	10	1500
13B	Stornoway	15	98·4	-34	ESE	4	c	45	75	38	7	5	2	-	2-3	10	3000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	03·6	-30	S'E	1	c	41	92	39	7	5	1	-	4-6	10	2500
	Wick	114	02·7	-10	SSW	3	c-bc	42	75	35	8	5	-	6	2-3	7-8	2500
16	Sumburgh	19	01·9	+10	WSW	6	c	46	85	43	7	4	7	6	4-6	9	2000
17	Blacksod Point	18	81·9	-54	SE'S	5	c-bc	51	97	50	8	6	-	-	7-8	7-8	1500
18	Malin Head	84	80·0	-50	SE'S	4	c/d	49	85	45	8	5	2	-	4-6	9+	1500
	Aldergrove	268	93·4	-50	SE	5	c/+	49	97	48	6	5	-	-	10	10	1700
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	79·2	-58	S'E	7	PR	53	85	49	7	9	-	-	10	10	1500
	Roches Point	22	88·0	-12	S'E	8	ir₀	51	92	49	6	6	2	-	4-6	10	1500

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

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)	08·0	-8	SSW	4	z₀	50	85	46	6	5	-	-	9+	9+	2500
Croydon	08·7	-10	S'E	5	z₀	50	92	47	6	5	7	-	7-8	10	1500
S. Farnborough	08·3	-6	S	4	z₀	51	85	46	6	5	-	-	10	10	3000
Boscombe Down	06·7	-14	S'E	5	c	51	92	49	7	5	2	-	10	10	1200
Thorney Island	09·4	-6	S	6	ir₀	51	85	47	6	5	2	-	7-8	10	2500
Lympne	12·3	-6	S	4	++	47	97	46	6	6	2	-	9	10	1800
Manston	11·9	-6	SSW	5	++	47	97	47	6	6	2	-	4-6	10	1200
Shoeburyness	10·1	-20	SSW	5	ir₀	48	92	46	6	5	-	-	10	10	1500
Felixstowe	10·3	-18	S	6	z₀	47	92	45	6	5	-	-	10	10	1700
Gorleston	09·8	-6	S'W	5	cq	48	85	44	6	8	-	-	10	10	1500
Mildenhall	07·0	-18	S	5	c	50	85	46	7	5	-	-	10	10	1800
Cranwell	04·3	-14	S	6	z₀	49	92	47	6	5	-	-	10	10	1500
Birmingham	01·9	-12	S	4	c	50	92	48	8	5	-	-	9+	9+	1500
Upper Heyford	05·4	-10	S	6	z₀	50	85	46	6	5	-	-	10	10	1100
Ross-on-Wye	01·8	-16	S	5	c	54	85	49	7	5	1	-	7-8	9	2500
Hartland Point	98·3	-10	SW	6	c/+	54	92	52	7	6	1	-	7-8	9+	1500
Bristol	04·4	-10	S	4	ir₀	54	85	51	6	5	2	-	4-6	10	1900
Portland Bill	05·6	-16	SE	6	o	50	92	49	7	5	-	-	10	10	2500
Plymouth	03·3	-2	SSW	8	o	55	92	53	6	5	2	2	4-6	9	2000
The Lizard	00·5	+2	SSW	8	o	55	85	51	6	5	2	-	10	10	1000
Scilly (St. Mary's)	96·0	+14	SE'S	6	b-bc	55	85	49	6	5	-	-	2-3	2-3	1200
Guernsey															
Pembroke	94·6	-14	SW'S	8	cq	55	92	53	7	8	-	-	10	10	1500
Holyhead (Valley)	93·3	-22	S	8	c	54	85	49	7	5	-	-	7-8	9	2000
Chester (Sealand)	98·7	-22	S	4	t₀t₀	53	85	49	7	5	2	-	7-8	10	2500
Manchester	99·6	-22	SE	5	c	52	85	46	7	5	2	-	2-3	10	1500
Spurn Head	04·2	-18	S	6	cq	48	92	46	7	8	2	-	7-8	10	1500
Catterick	00·4	-18	SSE	4	z₀	46	75	36	5	5	2	-	7-8	10	1000
Tynemouth	98·4	-36	S	5	o	49	85	46	6	5	-	-	10	10	1500
St. Abbs Head	95·5	-36	SE	5	b-bc	45	97	45	7	5	-	-	2-3	2-3	4000
Leuchars	94·8	-28	ESE	3	c/+	46	92	44	6	5	-	-	9+	9+	2800
Renfrew (Abbots I.)	91·5	-36	SE	4	m	50	92	48	4	5	1	-	4-6	7-8	2500
Eskdalemuir	94·8	-14	SSE	4	c	46	92	45	7	5	-	-	9+	9+	1100
Point of Ayre	91·4	-36	SSW	6	c-bc	53	85	49	8	8	-	-	7-8	7-8	1800
Tiree	83·3	-46	SSE	7	Hr₀	49	97	47	6	6	-	-	10	10	800
Stornoway	89·3	-42	ESE	6	c-bc	46	85	41	7	5	-	-	7-8	7-8	2500
Dalwhinnie	89·9	-32	SE	3	ir₀	41	92	40	6	5	-	-	10	10	1500
Aberdeen †	96·1	-32	S'E	4	z₀	47	92	46	6	5	-	-	10	10	1500
Wick	95·2	-42	S'E	5	++	43	92	41	8	5	-	-	10	10	1000
Sumburgh	99·1	-18	SE'S	5	c	46	92	43	7	5	7	-	7-8	9+	2500
Blacksod Point	70·2	-54	SE	8	RR	49	97	48	7	6	2	-	4-6	10	1500
Malin Head	80·0	-52	SSE	5	ir₀	51	85	47	8	6	2	-	7-8	7-8	1500
Aldergrove	85·1	-20	SE'E	6	ir₀	51	92	48	7	5	2	-	7-8	9+	3700
Birr Castle	81·2	-26	SSW	6	c	53	75	45	7	9	2	1	7-8	10	800
Valentia Obsy.	76·7	+18	SSW	8	ir	51	85	47	6	6	-	-	10	10	1500
Roches Point	85·0	+8	S'E	9	ir₀	51	92	49	7	6	2	-	4-6	7-8	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)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 12th Hrs. (38)
London (Kew)	1	*	50	46	42	Tr	1	5·7
Croydon	1	*	53	45	40	0·1	2	5·8
S. Farnborough	1	*	51	47	37	-	1	5·4
Boscombe Down	1	*	50	46	40	0·1	3	3·7
Thorney Island	1	*	53	49	45	Tr	2	*
Lympne	1	§6	56	45	41	Tr	4	6·2
Manston	1	*	52	40	38	-	1	3·7
Shoeburyness	1	*	51	45	41	Tr	1	3
Felixstowe	1		52	43	34	-	0·5	4·4
Gorleston	1		51	44		-	1	
Mildenhall	1	*	51	43	37	-	1	3·4
Cranwell	1	*	48	41	38	Tr	1	4·0
Birmingham	1	*	47	43	40	-	1	4·1
Upper Heyford	1	*	49	43	41	-	2	*
Ross-on-Wye	1	*	49	47	44	-	2	3·0
Hartland Point	1	3	49	46	45	1	0·5	1·3
Bristol	1	*	50	47	47	Tr	2	2·9
Portland Bill	1	6	51	48	*	-	Tr	*
Plymouth	1	5	52	49	48	1	6	0·6
The Lizard	1	6	52	45	*	3	5	0·0
Scilly (St. Mary's)	1	3	51	51	*	3	1	0·0
Guernsey								
Pembroke	1	6	51		*	1		0·3
Holyhead (Valley)	1	6	50	47	45	0·2	1	*
Chester (Sealand)	1	*	50	44	42	-	0·3	2·8
Manchester	1	*	48	44	41	-	Tr	*
Spurn Head	1	4	47	43	*	0·1	0·5	3·9
Catterick	1	*	49	41	38	Tr	1	3·2
Tynemouth	1	3	48	41	39	-	1	*
St. Abbs Head	1	4	43	36	*	-	2	*
Leuchars	1	*	45	35	27	-	0·6	3·8
Renfrew (Abbots I.)	1	*	47	38	35	-	2	4·2
Eskdalemuir	1	*	41	37	34	-	5	2·8
Point of Ayre	1	5	49	45	*	-	7	3·8
Tiree	1	5	49	45	47	Tr	5	3·2
Stornoway	1	*	48	41	36	1	1	0·5
Dalwhinnie	1	*	40	36	31	1	2	0·5
Aberdeen †	1	2	45	38	29	-	3	4·8
Wick	1	*	45	39	35	-	1	*
Sumburgh	1	5	48	45	41	2	1	0·1
Blacksod Point	2	8	47	47	*	0·3	12	*
Malin Head	2	4	43	41		Tr	3	3·0
Aldergrove	1	*	43	42	40	-	5	2·9
Birr Castle	1	*	47	46	45	0·3	9	0·0
Valentia Obsy.	1	6	54	51	48	7	9	0·0
Roches Point	1	6	51	49	*	8	6	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 12th December IIIC_L C_M	wwVhN_h	DDFWN	18h. G.M.T. C_L C_M	wwVhN_h	DDFWN	01h. G.M.T. 13th December C_L C_M	wwVhN_h	DDFWN	07h. G.M.T. C_L C_M	wwVhN_h	DDFWN
10957	02855	52525	5-	21754	20554	52	02764	18215	52	02744	45568
115			54	14844	87686	52	25844	16487	52	64735	12568
2035-	10847	20627				5-	02848	12328	5-	81948	08488
20836	25843	20384	50	00862	22382	57	02864	20117	57	22854	16364
21053	01961	20302	03	01990	00003	51	02864	10216	51	02854	10365
22083	01054	23414	80	01754	19114				62	64345	11668
23033	81954	16285	40	01851	00084	02	61848	00068	02	62648	20568
24580	01751	20301	00	00690	28100	02	61658	17128	24	25753	16464
26003	01790	20211	04	01790	16114	02	05668	16358	52	02766	18228
27817	01751	20216	57	02853	13328	02	54468	45658	52	02747	16768
27920	01763	20113	02	05690	12118	5-	22758	14569	50	01754	49654
28523	81744	24585	23	02745	12216						
28824	01763	18413	00	05690	14213	02	61668	14569	57	05665	47528
57500	43390	00047	57	02744	14328	50	61744	47364	5-	62638	47668
30116	05664	18284	51	05663	13328	02	05668	15528	02	66658	16528
321--	05590	20200	07	41390	14318	52	61544	47468	5-	05647	40467
29900	41490	26240	00	08490	18200	50	61653	18413	5-	14758	18628
29820	43354	20144	01	08490	14248	62	62534	13368	5-	21658	12458
310--	08421	20314									
61400	45390	20140	57	45364	16244	02	51758	48468	5-	05648	49458

13h. G.M.T. 12th December IIIC_L C_M	wwVhN_h	DDFWN	18h. G.M.T. C_L C_M	wwVhN_h	DDFWN	01h. G.M.T. 13th December C_L C_M	wwVhN_h	DDFWN	07h. G.M.T. C_L C_M	wwVhN_h	DDFWN
33884	25853	16387	52	02742	47528	02	62648	49768	8-	81657	49767
334--	02645	20116	--	05545	20217						
34050	02862	18216	52	05561	16428	52	02555	16668	62	05655	49568
13600	05690	22380	00	05590	18214	62	62534	16418	5-	05648	50668
33657	02755	20328	56	05654	16428						
35000	05690	22104	00	05690	16328	52	53646	49568	53	14645	51758
36836	02952	20226	52	02764	16268	5-	02748	49568	5-	02755	51525
37000	05690	18345	07	05690	14428	02	64628	55568	5-	05638	20528
39000	05490	18242	53	47362	16246	5-	43358	49348	5-	08448	49448
38804	02790	18115	07	05690	14326	5	22648	49668	5-	02648	49528
43817	01632	21313	57	01753	22314				02	64648	20668
43150	05632	20206	53	02764	18428	5-	22643	40568	52	05665	49628
40027	02852	16427	62	64645	47668	5-	03748	49768	8-	22756	17866

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 13th December
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	bmwbcmb	bccroc	cmo
Croydon	cmbmo	mofcirid	d.d.mo
Greenwich	bcbmo	bcobmo	bccrc
Camden Square	bc	bc	*
Kensington	bc	bc	*
Hampstead	bc	o	or

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0·4, Time 8-9h 12th. Min. <0·1, Time 0-7h 13th.

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	46	42	Tr	1	5·7	*	*
Croydon	53	45	40	0·1	2	5·8	*	*
Greenwich	51	48	33	-	1	4·5	79	86
Westminster	53	*	40	1			73	85
Regents Park								
Camden Square	51	45	39	-	1	*	*	87
Kensington	52	47	35	Tr	1		82	86
Hampstead	49	45	39	-	1		*	91

SECRET

Page 1 BRITISH SECTION

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

Monday, 14th December 1942

No. 23607

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	07·7	-6	SSW	4	zo	53	85	49	6	5	-	-	9+	9+	800
	Croydon	09·2	-4	S	4	zoc	53	85	49	6	5	7	-	9+	10	1000
	S. Farnborough	07·7	-6	SSW	4	zor	53	92	50	6	6	7	-	9+	10	1200
	Boscombe Down	06·4	-6	S'W	6	zc	54	85	51	7	5	7	-	7-8	9+	1000
	Thorney Island	09·1	-2	S	5	c	52	85	49	7	5	2	-	4-6	10	1500
	Lympne	10·5	-8	S	4	c	49	85	45	7	5	7	-	2-3	10	3000
	Manston	10·0	-14	SSW	5	zc	49	92	47	6	5	9	-	1	9+	1000
2	Shoeburyness	09·8	-6	S'W	5	c	51	85	47	8	5	-	-	9+	9+	1500
	Felixstowe	09·3	-10	S	5	zo	49	85	46	6	5	7	-	7-8	10	2000
	Gorleston	08·5	-14	S'W	6	zo	48	85	42	6	8	-	-	10	10	1500
	Mildenhall	06·6	-8	S	5	c	54	85	48	7	7	3	2	4-6	9+	2500
	Cranwell	03·4	-2	S'W	6	c	54	85	50	7	5	3	-	4-6	9	1000
3	Birmingham	02·4	0	SSW	4	c	55	75	48	8	5	-	2	7-8	9	1500
	Upper Heyford	04·5	-12	S'E	4	c	54	85	48	7	5	-	-	4-6	9+	1200
4	Ross-on-Wye	02·9	0	S	5	c	55	75	46	7	1	-	7	4-6	9+	2000
5	Hartland Point	01·0	+6	WSW	6	c	54	85	48	7	6	-	6	7-8	9+	1200
	Bristol	04·3	-8	SSW	5	zo	56	75	49	6	2	3	-	2-3	9	2500
	Portland Bill	06·2	-8	S	5	o	53	97	53	7	5	-	-	10	10	2500
	Plymouth	04·4	+2	SSW	7	zo	55	97	53	6	5	7	-	7-8	10	2000
	The Lizard	05·5	+4	SW'W	7	c	55	85	51	7	5	2	-	9	10	1000
	Scilly (St. Mary's)	00·6	+2	S'W	6	c	54	85	50	6	5	1	-	9	10	1000
	Guernsey															
6	Pembroke	97·9	+6	SW	7	cbcq	54	85	50	7	8	4	-	7-8	7-8	1500
7	Holyhead (Valley)	94·6	-2	S'W	9	zo	54	75	46	6	8	6	-	2-3	2-3	3000
	Chester (Sealand)	97·9	+2	S'E	8	c	57	85	53	7	8	-	8	2-3	10	3000
8	Manchester	99·4	+2	S'E	6	bc	55	65	43	8	-	-	1	2-3	4-6	4000
10	Spurn Head	03·3	-2	S'W	6	oc	52	75	46	7	8	2	1	2-3	4-6	1500
	Catterick	98·4	-2	SSW	5	zo	56	65	44	6	2	3	8	2-3	9	2000
	Tynemouth	95·6	-10	SSW	6	c-bc	53	85	47	6	8	3	-	4-6	7-8	2500
11	St. Abbs Head	92·4	-8	SSE	5	bc	51	92	47	7	5	4	-	4-6	4-6	2500
	Leuchars	90·4	-22	S	6	c-bc/pr	53	75	46	8	8	4	-	7-8	7-8	2500
12	Renfrew (Abbots I.)	87·8	-16	S	6	zo	55	65	42	6	5	7	-	7-8	9	1200
	Eskdalemuir	91·5	-8	S'W	8	cor	50	75	43	7	5	-	-	9+	9+	1500
	Point of Ayre	91·8	+8	SW	7	c-bc	54	65	43	8	8	-	-	7-8	7-8	2000
13A	Tiree	78·9	-10	S'E	8	ir	50	97	48	6	6	2	-	9+	10	1000
13B	Stornoway	81·3	-34	ESE	5	rr	49	92	47	5	6	2	-	9	10	1100
15	Dalwhinnie	85·0	-28	S	4	rr	46	85	42	6	5	2	-	7-8	10	2500
	Aberdeen	90·6	-32	SSE	5	zc	50	85	47	6	5	-	6	2-3	2-3	2500
	Wick	88·3	-40	SE	6	bc	47	92	45	8	5	7	1	4-6	4-6	2000
16	Sumburgh	92·8	-34	SSE	4	c	47	85	43	7	6	2	-	7-8	10	600
17	Blacksod Point	71·1	+2	S	9	rr	48	97	47	6	6	2	-	4-6	10	800
18	Malin Head	77·2	+2	S'E	7	c/r	51	85	47	8	6	2	-	7-8	10	1500
	Aldergrove	84·5	+6	SE'S	6	c	53	65	40	7	5	-	8	7-8	9+	2000
19	Birr Castle	86·3	+26	SW	6	c	53	65	42	8	9	7	-	7-8	9	1500
20	Valentia Obsy.	85·9	+38	SSW	9	c/pr	52	65	41	7	6	2	-	7-8	9+	2500
	Roches Point	91·3	+24	SW	8	bc	53	75	46	7	6	-	-	4-6	4-6	1500

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

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)	07·0	-4	SSW	4	zo	52	85	48	6	5	2	-	7-8	9+	1500	1	*
	Croydon	02·1	-4	S	5	zo	53	92	50	5	5	7	-	9	10	1300	1	*
	S. Farnborough	07·0	-2	S'W	4	zc	52	85	49	6	5	2	-	9	10	1100	1	*
	Boscombe Down	06·2	0	S'W	5	zo	51	97	51	6	6	2	-	9+	10	200	1	*
	Thorney Island	08·2	+2	S'W	5	c	52	85	47	7	5	2	-	2-3	10	2500	1	*
	Lympne	10·0	-6	S	4	iro	49	92	47	7	5	1	-	4-6	10	3000	1	§5
	Manston	09·6	0	SSW	3	zo	49	92	47	6	5	7	-	2-3	7-8	2000	1	*
2	Shoeburyness	09·0	-12	SSW	5	c	50	85	47	7	5	-	-	9	9	1500	1	*
	Felixstowe	08·5	-10	S	4	zo	48	92	46	6	5	7	-	4-6	9+	4000	1	4
	Gorleston	08·2	0	S'W	5	zo	48	92	46	6	5	-	-	10	10	1500	0	5
	Mildenhall	06·4	-2	S	4	zo	52	85	47	6	5	7	-	2-3	7-8	2500	1	*
	Cranwell	03·9	+6	S	5	zo	51	92	49	6	-	3	-	0	2-3	-	1	*
3	Birmingham	02·5	+20	S	3	c	51	85	47	8	-	-	7	0	10	-	1	*
	Upper Heyford	04·3	-2	SSW	4	iro	49	92	47	6	5	-	-	7-8	10	1100	1	*
4	Ross-on-Wye	02·5	-4	SW'S	3	c	53	85	47	6	-	-	7	0	9	-	1	*
5	Hartland Point	00·9	+6	WSW	5	c/r	51	97	50	7	3	7	-	4-6	9+	1500	1	5
	Bristol	04·6	+2	S	4	pro	54	85	48	6	2	1	-	7-8	10	2500	1	*
	Portland Bill	06·0	+2	S	5	o	52	97	52	7	5	-	-	10	10	2500	1	7
	Plymouth	03·8	-2	SSW	7	iro	54	97	53	6	5	-	-	7-8	7-8	1500	1	5
	The Lizard	02·7	+2	SW	7	o	53	92	52	7	5	-	-	10	10	1000	1	6
	Scilly (St. Mary's)	00·4	+2	S'W	4	c	51	85	47	7	8	7	-	7-8	9	1000	1	5
	Guernsey																	
6	Pembroke	99·5	+10	SW	5	bcq	53	92	50	6	8	4	-	4-6	4-6	1500	1	5
7	Holyhead (Valley)	97·6	+22	S'W	9	zo	53	75	47	6	2	-	-	7-8	7-8	3000	1	6
	Chester (Sealand)	99·2	+12	SSE	3	b	52	65	41	7	-	-	1	0	1	-	1	*
8	Manchester	01·0	+10	SSE	5	b	51	75	43	7	-	-	-	0	0	-	1	*
10	Spurn Head	02·8	+2	S	4	bc	49	92	47	7	7	3	-	2-3	4-6	2500	0	4
	Catterick	00·0	+16	S	2	zo	50	75	42	6	5	-	-	Tr	Tr	2500	1	*
	Tynemouth	97·0	+8	SSW	6	bq	52	75	43	6	-	3	-	0	1	-	1	3
11	St. Abbs Head	93·2	+2	SSW	5	b	51	75	45	7	-	-	-	0	0	-	0	5
	Leuchars	90·8	+2	SSE	6	b	51	75	47	8	-	-	-	0	0		1	*
12	Renfrew (Abbots I.)	85·7	+12	S'W	6	zo	52	65	39	6	5	2	-	7-8	7-8	1800	1	*
	Eskdalemuir	93·9	+16	SSW	7	c	48	75	40	6	5	-	-	9+	9+	1500	0	*
	Point of Ayre	93·8	+22	SW'W	7	b	52	75	42	7	1	-	-	1	1	1500	1	5
13A	Tiree	79·5	+8	S	8	ir	49	85	45	6	6	2	-	9	10	1500	1	7
13B	Stornoway	79·9	0	SSE	8	c/r	51	75	45	7	5	7	-	7-8	10	1600	1	
15	Dalwhinnie	85·8	+2	S	4	RR	45	85	39	5	5	2	-	7-8	10	2500	1	*
	Aberdeen	90·7	+8	S	5	zo	51	75	42	6	5	-	-	4-6	4-6	3500	1	3
	Wick	84·4	+18	S'W	5	pro	49	85	44	7	8	1	-	4-6	9+	2000	1	*
16	Sumburgh	88·7	-16	S'E	6	iro	49	92	47	6	5	2	-	7-8	10	1500	1	4
17	Blacksod Point	80·0	+66	SW'S	9	bc	50	97	49	7	6	-	-	4-6	4-6	1500	2	9
18	Malin Head	79·8	+30	S	8	iro	49	65	38	8	6	2	-	7-8	10	1500	2	5
	Aldergrove	88·2	+26	SSE	6	c	50	65	36	7	5	-	6	Tr	9+	2500	1	*
19	Birr Castle	90·6	+26	SSW	4	cc	49	75	42	8	-	-	8	0	4-6	-	1	*
20	Valentia Obsy.	91·2	+30	SWS	6	bc	51	65	40	8	2	4	-	2-3	4-6	2500	1	5
	Roches Point	94·6	+24	SW	6	bc	52	85	48	7	5	-	5	4-6	4-6	1500	1	7

PAST 24 HOURS.

District	Stations	Weather 7h.—13h. 13th (39)	Weather 13h.—18h. 13th (40)	Weather 18h. 13th to 1h. 14th (41)	Weather 1h.—7h. 14th (42)
1	London (Kew)	cirzcm	cmo	croro	roRroc
	Croydon	cmirzcmo	cmo	rrroromo	cror.mo
	S. Farnborough	crcirzcmo	cirzmo	ciro Rrrmo	crroiro bcmo
	Boscombe Down	cirzc	cirzcmo	cirocrrmo	crorobc
	Thorney Island	cmzirc	cirzc	ccirocmo	cbcmo
	Lympne	crormoc	ciro	crorrmo	crorcmo
	Manston	cmzrzc	cmo	cmororo	cmoiro
2	Shoeburyness	cirzc	cpq	cro	cmo
	Felixstowe	cirzmocmo	cmo	ciromocmo	roroiro bcmo
	Gorleston	cproc	czo	cmorocz o	cirobc
	Mildenhall	c	cmo	cmbciromo	cirocbmo
	Cranwell	cbcc	cb, bcmo	bcmocromo	c, bcmobc
3	Birmingham	cbcc	cbcc	CRr	ocbc
	Upper Heyford	cmoidzc	cpRroro	rrroromo	roromo
4	Ross-on-Wye	docc	cc	ciR	pcbc
5	Hartland Point	c	cprir	cirirobc	bc
	Bristol	crobc	czocpromo	cmobcmo	bccbmo
	Portland Bill	o	oiro	oR	bcc
	Plymouth	cmo	cmormo	cmoprbc	bciromo
	The Lizard	cq	corrch	cprbc	bc-bc
	Scilly (St. Mary's)	bcc	c	cepbc	cbc
	Guernsey				
6	Pembroke	mcq	bcqmo	bcq	bcq
7	Holyhead (Valley)	circbc	bcbczo	bcctcR	prb
	Chester (Sealand)	crcrrmo	cb	b	cprmob
8	Manchester	circbc	bcb	bcmo	bciroir
10	Spurn Head	bc	bc	cmo	bc
	Catterick	iromocmo	bczo	cmobcmo	irocmobc
	Tynemouth	ocpc	cq	bcc	coirc
11	St. Abbs Head	bcrobcpr	bcbprb	b	bc
	Leuchars	cmocpro	cb	bbcb	b
12	Renfrew (Abbots I.)	cmoccmo	cbccbczo		bzcbcmo
	Eskdalemuir	ciro	c	cpro	cpr
	Point of Ayre	prprrcq	cbcb	b	bbcb
13A	Tiree	ccrrr	crrrocr	crorcirc	cb
13B	Stornoway	crorrr	crromc	cciroriomo	crrmocbc
15	Dalwhinnie	orr	orrir		oir
	Aberdeen	cmirbc	bccprobc	bcbzo	bzow
	Wick	bccbc	cpro	cprobc	c
16	Sumburgh	cirrcrrc	cemzirc	bcrorocmo	cbcmo ciro
17	Blacksod Point	r	r	bc	pr
18	Malin Head	r	r	r	b
	Aldergrove	cirzmc	cprocyc	b	b
19	Birr Castle	pr	bc		c
20	Valentia Obsy.	pr	r	pr	bc
	Roches Point	r	r	r	bc

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

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands, 4 W. Midlands	Freshening southwest wind, backing south temporarily, strong at exposed places; cloudy, a period of rain later today, mainly fair tomorrow; mild.
5 S.W. England ↓, 6 South Wales ↓, 7 North Wales ↓, 8 N.W. England ↓	Strong southerly wind, gale at exposed places, veering southwest later; cloudy, rain later today, occasional showers tomorrow; mild.
9 N. Midlands, 10 N.E. England, 11 S.E. Scotland	As 1 - 4.
12 S.W. Scotland & Isle of Man ↓, 13A W. Scotland ↓	As 5 - 8.
13B N.W. Scotland ↓, 14 Mid Scotland	Strong southwest wind, gale at exposed places becoming temporarily variable and light; cloudy, rain tonight, showers tomorrow; mild.
15 N.E. Scotland ↓, 16 Orkneys and Shetlands ↓	Strong southwest to south wind, gale at exposed places; cloudy, occasional showers at first, more general rain tonight; mild.
17 N.W. Ireland ↓, 18 N.E. Ireland ↓, 19 S.E. Ireland ↓, 20 S.W. Ireland ↓	Strong to gale south wind, veering southwest later; cloudy, rain spreading northeast today; fair apart from occasional showers tonight and tomorrow; mild.

GENERAL INFERENCE

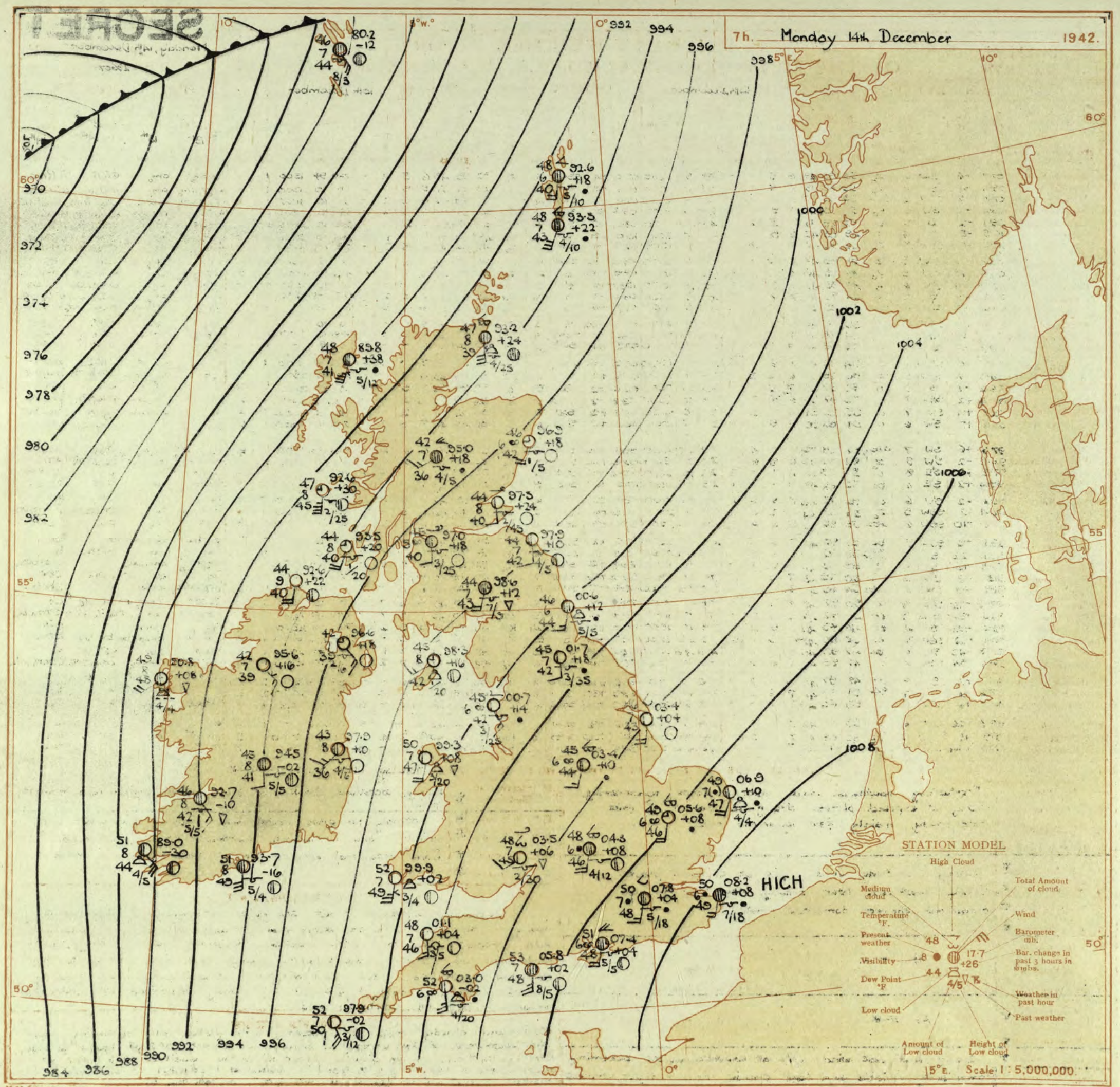
A deepening depression about 300 miles southwest of Ireland is moving northnortheast and an associated trough of low pressure will move northeast across the British Isles. Southerly gales veering southwest later will occur on the Western Coasts and may extend to the Northeast Coasts later. Rain will spread northeast across the country this afternoon and tonight followed by cloudy conditions with occasional showers. It will continue mild.

FURTHER OUTLOOK

Continuing cloudy, mild and stormy; with further rain spreading from the southwest. ↓ Gale warning in operation in districts 13A & 13B issued at 1330. G.M.T. on 12th Dec, 42. also in districts 15 (part of) and 16. issued at 0855 G.M.T. on 13th Dec, 42 also in districts 5, 6, 7, 19 and 20. issued at 0600 G.M.T. on 14th Dec, 42 and in districts 8, 12, 17 and 18. issued at 1110 G.M.T. on 14th Dec, 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.

6.369/4372 m.8144 D.2560.6p.949/2.7360.12/42.

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

Explanation of Frontal Lines shown on Charts

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

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

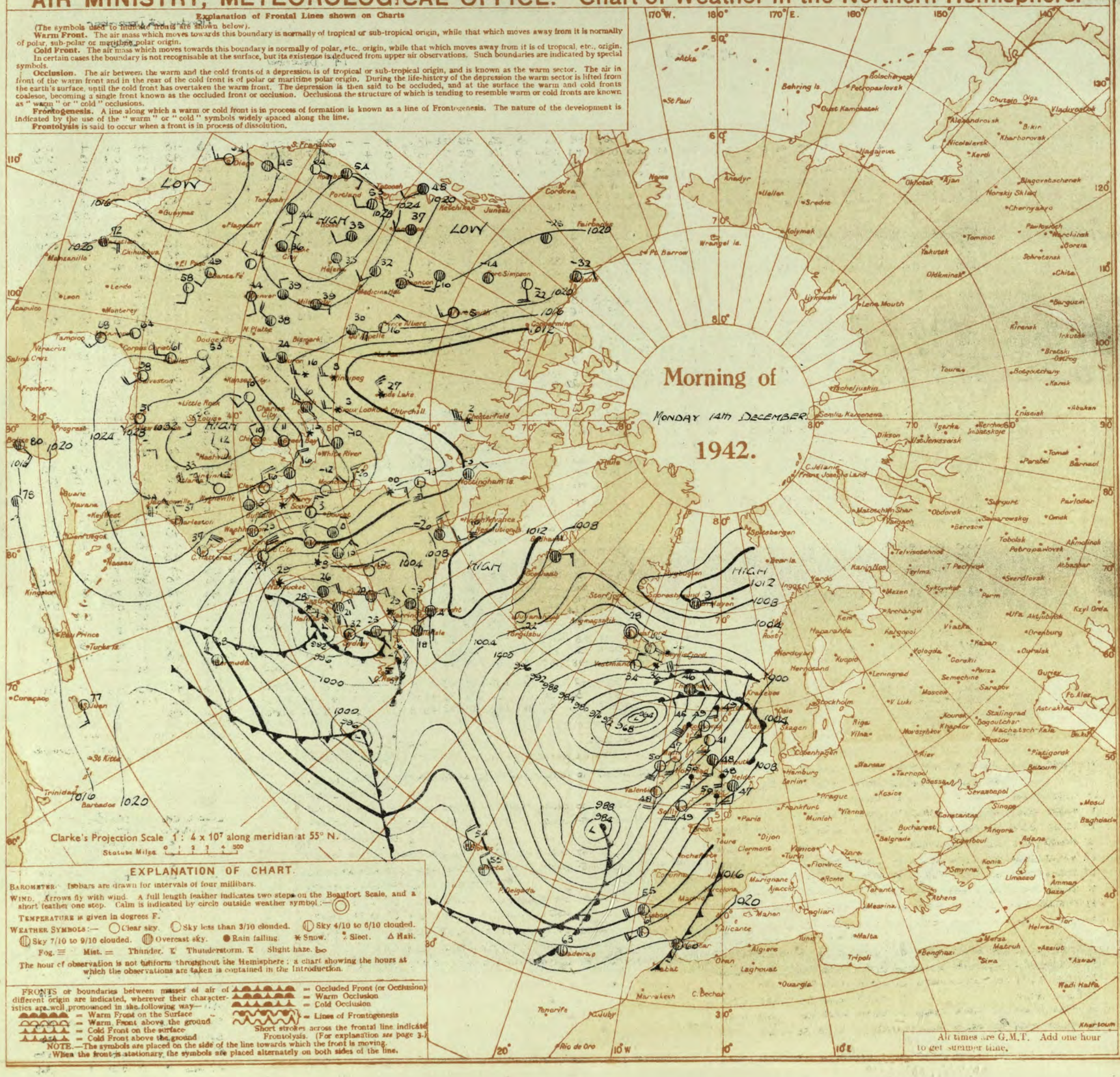
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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

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

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

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



BRITISH SECTION

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

Monday, 14th December 1942

No 29607

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	49	*	*	*	*	*	*	*	*	*
	Croydon	290	07·8	-4	S	4	ic	50	97	48	6	5	2	-	7·8	10	1200
	S. Farnborough	226	06·4	-2	SW'W	3	rr	48	92	46	6	5	-	-	10	10	2500
	Boscombe Down	417	05·7	-10	S	4	rr	47	97	47	6	6	2		9+	10	3000
	Thorney Island	10	07·3	-6	SSW	4	c/r	51	92	48	6	5	2	-	4-6	10	1500
	Lympne	283	08·7	-2	SSW	3	roro	49	97	49	5	5	2	-	9+	10	1000
	Manston	154	08·1	-6	SW	3	o/r	49	97	46	6	5	-	-	10	10	1000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	07·7	-4	S	3	c/r	47	97	46	6	5	-	-	9+	9+	3100
	Gorleston	5	07·2	-8	S'W	4	Zo	47	92	44	6	5	-	-	10	10	1500
	Mildenhall	15	05·6	-8	SSW	4	ic	51	85	47	6	5	-	-	10	10	6000
	Cranwell	203	03·5	0	S'W	3	c/r	48	92	43	6	5	-	-	4-6	10	1500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	03·9	-2	SSW	4	ic	47	92	45	6	5	-	-	4-6	4-6	4000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	00·7	+4	SW	5	b-bc/r	49	85	45	7	5	-	-	2-3	2-3	1500
	Bristol	209	04·0	+2	S	3	Zo	49	85	46	6	5	-	-	4-6	4-6	2200
	Portland Bill	32	05·4	-4	SW	5	o/r	50	92	48	7	5	-	-	10	10	1500
	Plymouth	82	03·6	+2	SSW	5	bc	53	85	49	7	5	7	-	4-6	4-6	2000
	The Lizard	240	02·6	+4	SW'W	6	bc/pr	51	92	48	7	8	-	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	01·2	+6	SSW	5	b-bc	49	92	48	7	5	-	-	2-3	2-3	1200
	Guernsey	175															
6	Pembroke	142	99·2	-2	SW'S	5	bbcq	51	85	48	7	8	-	-	2-3	2-3	1500
7	Holyhead (Valley)	32	97·6	-6	S	5	pr	50	92	47	6	9	-	-	7·8	9+	1000
	Chester (Sealand)	16	99·6	-4	S	3	c-bc	46	75	42	7	5	-	8	Tr	7·8	3500
8	Manchester	235	00·8	-2	SSE	4	c-bc	48	85	43	7	5	7	-	4-6	7·8	2600
10	Spurn Head	29	03·4	-4	S'W	4	roro	48	92	46	6	5	-	-	10	10	1500
	Catterick	175	99·8	-14	S	3	Zo	48	92	46	5	-	2	-	0	4-6	-
	Tynemouth	108	99·6	+8	SSW	4	Zo	48	85	44	6	8	-	-	9	9	2500
11	St. Abbs Head	280	94·4	+4	SW	5	b	48	85	45	7	-	-	-	0	0	-
	Leuchars	36	93·9	+6	SSW	6	b	49	75	40	8	-	-	8	0	1	-
12	Renfrew (Abbots I.)	19	94·1	+14	SSW	4	Zo	48	75	39	6	-	-	-	0	0	-
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	96·0	+10	SW'W	4	b	49	85	44	8	4	-	-	Tr	Tr	2500
13A	Tiree	44	87·4	+34	SW	8	c	50	85	46	7	8	-	-	9+	9+	2000
13B	Stornoway	15	82·7	+26	SSW	10	roro	45	97	45	6	5	-	-	10	10	900
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	94·4	+18	S'W	4	b	46	75	39	8	-	4	-	0	1	-
	Wick	114	88·8	+12	SSE	5	bc	49	65	39	8	8	-	-	4-6	4-6	2000
16	Sumburgh	19	89·9	+8	S'W	5	Zo	50	85	45	6	5	-	-	10	10	1000
17	Blacksod Point	18	89·1	+24	SW'S	8	bc	50	92	48	7	9	-	-	4-6	4-6	1500
18	Malin Head	84	88·7	+30	S	6	bc	47	75	40	8	6	2	-	4-6	4-6	1500
	Aldergrove	268	93·7	+14	SE	4	b	45	75	39	7	-	-	-	0	0	-
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	93·4	0	S'W	4	b	48	75	41	8	2	-	-	1	1	2500
	Roches Point	22	96·0	+6	SW	5	b-bc	49	85	45	8	5	-	-	2-3	2-3	1500

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

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)	06·7	+8	SSW	3	Zo	49	92	47	6	5	-	-	7·8	7·8	1500	1	*
Croydon	07·8	+4	SSW	3	ic	50	92	48	7	5	4	-	7·8	7·8	1800	1	*
S. Farnborough	06·7	+10	S'W	2	Zo	49	92	48	6	5	7	-	9	9+	2000	1	*
Boscombe Down	05·9	+10	S'E	3	bc	48	92	47	7	5	7	-	4-6	4-6	3000	1	*
Thorney Island	07·4	+4	SSW	4	Zo	51	92	48	6	5	2	-	7·8	9	2500	1	*
Lympne	08·7	+6	SSW	3	Zo	49	97	48	6	5	-	-	9+	9+	1400	1	§5
Manston	08·2	+8	SSW	4	ic	50	97	49	6	5	-	-	9+	9+	1800	1	*
Shoeburyness	07·5	+2	S	4	c-bc	49	92	47	6	5	3	-	7·8	7·8	1500	1	*
Felixstowe	07·4	+4	S'W	4	Zo	48	92	47	6	5	3	-	2-3	4-6	2500	1	4
Gorleston	06·9	+10	S'W	4	bcjp	49	92	47	7	8	-	-	4-6	4-6	1500	1	4
Mildenhall	05·6	+8	SSW	4	Zo	49	92	46	6	-	7	-	0	1	-	1	*
Cranwell	03·8	+10	SSW	3	b-bc	46	92	44	7	5	-	-	2-3	2-3	5700	1	*
Birmingham	04·5	0	SSW	2	Zo	46	92	44	6	5	-	-	7·8	7·8	1500	1	*
Upper Heyford	04·3	+8	S'W	4	ic	48	92	46	6	5	7	-	4-6	7·8	1200	1	*
Ross-on-Wye	03·5	+6	SW	2	b-bc	48	85	45	7	5	5	1	1	2-3	3000	1	*
Hartland Point	01·1	+4	S	3	b-bc	48	92	46	7	4	-	-	2-3	2-3	2500	1	4
Bristol	04·7	+14	SSW	2	Zo	48	85	45	6	5	-	-	7·8	7·8	4000	1	*
Portland Bill	05·5	+2	S	5	c	53	85	48	7	5	-	-	10	10	2500	1	5
Plymouth	03·0	-2	S	5	Zo	52	92	49	6	8	7	-	4-6	4-6	2000	1	4
The Lizard	01·1	-6	WSW	6	bc	52	92	50	8	3	-	-	4-6	4-6	1500	1	5
Scilly (St. Mary's)	97·9	-22	S'E	5	b-bc	52	92	50	7	5	-	-	2-3	2-3	1200	1	5
Guernsey																	
Pembroke	99·9	+2	S'W	5	b-bcq	52	92	49	7	2	-	-	2-3	2-3	1500	1	5
Holyhead (Valley)	99·3	+8	S'W	4	b-bc	50	92	47	7	2	-	-	2-3	2-3	2000	1	5
Chester (Sealand)	01·1	+10	SSE	1	b	45	85	40	7	5	-	4	Tr	1	3500	1	*
Manchester	01·8	+10	SE'S	4	b-bc	46	92	44	7	5	-	-	2-3	2-3	4000	1	*
Spurn Head	03·4	+4	S'W	4	b-bc	46	85	43	7	4	4	-	2-3	2-3	2500	1	3
Catterick	01·7	+18	S	2	b-bc	45	85	42	7	5	-	-	2-3	2-3	3500	1	*
Tynemouth	00·6	+12	SSW	3	c-bc	46	92	44	6	8	-	-	7·8	7·8	2500	1	3
St. Abbs Head	97·9	+10	S	2	bc	44	92	42	7	5	-	-	4-6	4-6	2500	0	2
Leuchars	97·5	+24	S	2	b-bc	44	85	40	8	5	-	8	1	2-3	4500	1	*
Renfrew (Abbots I.)	97·0	+18	S	2	Zo	45	85	40	5	5	-	2	2-3	7·8	2500	1	*
Eskdalemuir	98·6	+12	SSW	4	c/pr	44	97	43	7	5	-	-	9+	9+	900	1	*
Point of Ayre	98·3	+16	SW	3	b	45	85	42	8	2	-	-	Tr	Tr	2000	1	2
Tiree	92·6	+30	SW	7	b	47	92	45	8	5	-	-	1	1	2500	1	6
Stornoway	89·8	+38	SSW	7	c-bc	48	75	41	7	5	-	-	7·8	7·8	1200	1	*
Dalwhinnie	95·0	+18	SW	3	c	42	75	36	7	5	2	-	4-6	10	2500	1	*
Aberdeen †	96·9	+18	SSW	4	Zo	46	85	42	6	5	-	-	Tr	Tr	2500	1	3
Wick	93·2	+24	S'E	6	c	47	75	39	8	8	7	-	4-6	10	2500	1	*
Sumburgh	93·5	+22	SSW	6	c-bc/r	48	75	43	7	5	7	-	4-6	7·8	1000	1	4
Blacksod Point	90·8	+8	SW'S	4	bc/pr	49	97	48	8	9	-	-	4-6	4-6	1500	1	4
Malin Head	92·6	+22	S'W	4	b	44	85	40	9	-	-	-	0	0	-	2	4
Aldergrove	96·6	+18	SE'S	3	b	42	85	39	7	5	-	-	1	1	4000	1	*
Birr Castle	94·5	-2	S	2	c-bc	45	85	41	8	5	-	-	7·8	7·8	2500	1	*
Valentia Obsy.	89·0	-30	SE	5	bc	51	75	44	8	2	-	-	4-6	4-6	2500	1	4
Roches Point	93·7	-16	S	6	c-bc	51	92	49	8	5	-	-	7·8	7·8	1500	1	6

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 13th Hrs. (38)
London (Kew)	53	48	44	0·1	4	0·0
Croydon	53	49	45	0·1	5	0·0
S. Farnborough	50	47	44	0·1	4	0·0
Boscombe Down	54	46	*	2	12	0·0
Thorney Island	53	49	47	Tr	2	*
Lympne	50	48	46	2	3	0·0
Manston	51	(49)	46	1	0·3	0·0
Shoeburyness	52	47	45	0·1	0·4	0·1
Felixstowe	49	46	44	Tr	0·6	0·0
Gorleston	49	47	45	Tr	1	0·0
Mildenhall	54	48	41	Tr	0·1	0·3
Cranwell	55	45	41	Tr	0·1	1·6
Birmingham	55	45	42	-	9	0·3
Upper Heyford	54	47	43	4	11	*
Ross-on-Wye	56	46	42	0·1	13	0·0
Hartland Point	59	47	45	1	9	0·0
Bristol	57	48	44	0·1	0·1	0·5
Portland Bill	54	50	*	1	12	*
Plymouth	55	50	48	-	0·4	0·0
The Lizard	55	50	*	3	1	0·0
Scilly (St. Mary's)	55	48	*	-	4	0·0
Guernsey						
Pembroke	55	*	*	0·2	-	0·0
Holyhead (Valley)	55	47	44	2	5	*
Chester (Sealand)	57	45	35	5	3	2·2
Manchester	56	46	41	-	2	*
Spurn Head	52	45	*	-	0·3	1·2
Catterick	56	45	40	0·1	Tr	0·0
Tynemouth	55	46	44	Tr	2	*
St. Abbs Head	53	43	*	0·1	-	*
Leuchars	53	43	33	0·1	-	0·0
Renfrew (Abbots I.)	55	45	41	0·2	-	0·1
Eskdalemuir	51	42	40	0·2	1	0·0
Point of Ayre	54	43	*	1	-	0·1
Tiree	52	47	45	7	2	0·0
Stornoway	51	40	39	10	4	0·0
Dalwhinnie	48	42	37	20	3	0·0
Aberdeen †	51	46	41	0·1	-	0·0
Wick	49	47	45	1	0·2	*
Sumburgh	49	48	44	2	2	0·0
Blacksod Point	52	42	*	9	9	*
Malin Head	52	43	*	2	0·5	0·0
Aldergrove	52	41	36	0·2	-	0·0
Birr Castle	53	42	39	0·1	-	0·6
Valentia Obsy.	52	47	42	2	0·3	0·1
Roches Point	54	48	*	5	1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III C_L C_M (13h. G.M.T. 13th Dec.)	$ww V h N_h$	DDFWN	C_L C_M (18h. G.M.T.)	$ww V h N_h$	DDFWN	C_L C_M (01h. G.M.T. 14th Dec.)	$ww V h N_h$	DDFWN	C_L C_M (07h. G.M.T.)	$ww V h N_h$	DDFWN
109 57	02755	46666	52	21745	48458	5-	01764	49624	52	02755	50568
115			52	62735	16368	52	62844	83667	52	14745	87768
203 5-	6283"	06468				5-	03948	16868			
206 5-	61845	16567	57	61864	53567	52	02866	53628			
210 53	22764	45566	53	02892	50627	57	02864	50728	07	02890	17426
220 62	64635	15768	62	64435	49868				80	01654	22614
230 62	62643	16368	62	60644	49468	5-	01843	49463	5-	01862	20223
245 86	05664	17514	50	01751	50581	00	01790	16401	50	05662	15302
260 71	81664	49524	50	05654	51714	00	00790	51500	03	01790	18 01
278 53	05656	50627	53	05654	51525	00	00890	52300	50	01852	20 [illegible]
279 80	05654	18714	10	05654	16714	50	05651	51511	20	04653	11 [illegible]
285									20	01744	24584
288 8-	05655	49625	00	05690	48510	51	05654	15427	54	05662	17463
575 57	61746	50868	9-	02749	51788	00	00790	51510	00	00790	44300
301 13	25651	52586	00	05690	18680	01	02790	14315	50	05653	14363
321 10	05653	51524				51	05673	18368	54	05662	18313
299 54	01754	20414	00	05690	20460	5-	22659	20465	40	01753	20413
298 13	05642	50424	00	05680	15410	02	05690	14328	50	05663	14263
310											
614 10	05653	17515	5-	05690	51325	57	62655	18365	07	05690	18364

III C_L C_M (13h. G.M.T. 13th Dec.)	$ww V h N_h$	DDFWN	C_L C_M (18h. G.M.T.)	$ww V h N_h$	DDFWN	C_L C_M (01h. G.M.T. 14th Dec.)	$ww V h N_h$	DDFWN	C_L C_M (07h. G.M.T.)	$ww V h N_h$	DDFWN
333 80	05645	49687	10	05653	50623	96	25655	85587	03	05690	18383
334									--	02646	20217
340 8-	01754	53424	00	02640	18424	5-	01752	51414	5-	00652	18302
136 5-	05647	17527	5-	05652	18427	62	64565	22368	53	05654	20315
336									50	01654	20414
350 53	02755	51526	57	05644	49326	02	62668	50368	50	05652	18312
368 13	02753	51515	5-	02758	20418	5-	01755	18415	50	05653	16213
379 57	22734	51566				5-	22647	16467	5-	61554	16424
390 5-	05548	16428	5-	08557	48538	5-	64448	16368	53	08444	16165
382 57	02754	51627	07	63656	18466	52	81656	51588	07	02790	18419
438 5-	61648	20668	52	03648	20528	02	62638	20568	5-	02745	20565
430 57	02745	51628	56	51753	51328	52	22646	49468			
409 20	02744	18728	52	62645	51668	50	01752	51612	50	01753	15403

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 December
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	ciroCMo	CMo	crororRroc
Croydon	CMoiroCMo	CMo	rrroroMo
Greenwich	c	c	crrbccgc
Camden Square	c	c	*
Kensington	c	c	*
Hampstead	o	or	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 0·2, Time 15hrs 13th
Min. 0·1, Time 0·5hrs 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	53	48	44	0·1	4	0·0	*	*
Croydon	53	49	45	0·1	5	0·0	*	*
Greenwich	54	48	41	-	4·6	0·0	*	85
Westminster	55	49	43		4·0	*	90	91
Regents Park	54	48	45	Tr.	3·2	*	87	86
Camden Square	54	49	43		4·3	*	*	90
Kensington	56	48	43	-	4·0	*	87	90
Hampstead	53	46	*	-	3·9	*	*	94

SECRET

Page 1 **BRITISH SECTION**

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

Tuesday 15th December 1942

No. 29603

OBSERVATIONS at 13h. G.M.T. 14th December 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)	05·3	-16	SSE	3	zo	52	76	46	6	1	3	6	2-3	7-8	2500
	Croydon	07·5	-6	S'E	2	c-bc	52	85	48	6	4	4	3	7-8	7-8	2500
	S. Farnborough	05·0	-22	SSE	3	c	53	85	47	8	7	7	6	4-6	9	1800
	Boscombe Down	04·5	-16	SE	4	cq	51	92	48	8	5	3	2	4-6	9	1500
	Thorney Island	05·3	-22	SSE	3	c-bc	52	85	48	7	5	3	-	2-3	7-8	5700
	Lympne	07·8	-18	SE	3	c-bc	51	85	47	8	5	-	-	7-8	7-8	1200
	Manston	08·3	-12	S'W	4	c-bc	50	92	48	8	5	-	-	7-8	7-8	900
2	Shoeburyness	08·1	-14	S'W	3	bc	52	85	47	8	7	4	-	4-6	4-6	4000
	Felixstowe	07·7	-10	S'E	4	c-bc	49	92	47	7	5	-	-	7-8	7-8	4000
	Gorleston	07·8	0	SSW	4	bc	52	85	48	7	-	7	1	0	4-6	-
	Mildenhall	06·4	-6	S	3	bc	55	75	47	7	1	4	2	Tr	4-6	2500
	Cranwell	04·7	+2	SSE	3	zo	50	92	48	6	5	7	-	7-8	10	3000
3	Birmingham	03·1	-6	SSE	3	c	49	85	45	7	5	1	-	1	9+	800
	Upper Heyford	04·0	-14	S'E	4	c	50	85	46	7	5	-	-	10	10	1200
4	Ross-on-Wye	01·9	-20	S'E	2	bc	52	85	46	7	1	-	8	2-3	4-6	2500
5	Hartland Point	97·0	-28	SE	4	c-bc	53	85	48	7	1	4	6	1	7-8	2000
	Bristol	02·7	-20	SSE	4	c	52	85	47	7	8	6	6	2-3	9	2500
	Portland Bill	02·7	-30	SSW	5	c	51	97	51	7	5	-	-	9	9	4000
	Plymouth	98·3	-42	SE'S	5	c-bc	54	92	51	7	5	3	2	4-6	7-8	2000
	The Lizard	95·4	-40	SSE	7	c-bc	53	85	49	8	3	4	-	7-8	7-8	1500
	Scilly (St. Mary's)	91·2	-42	SSE	6	qjp	53	85	49	7	5	7	-	7-8	10	1000
	Guernsey															
6	Pembroke	95·5	-30	SE'S	7	cq	52	92	49	7	2	6	-	4-6	9+	2000
7	Holyhead (Valley)	98·6	-16	SSE	4	c	51	75	44	8	5	7	-	Tr	10	2000
	Chester (Sealand)	01·3	-6	SSE	3	zo	43	92	39	5	5	7	-	4-6	10	2500
8	Manchester	02·6	-8	SE	4	zo	49	85	45	5	5	1	-	Tr	10	4000
10	Spurn Head	05·2	0	SSE	2	zo	46	92	44	6	5	3	-	4-6	9	2500
	Catterick	03·3	-2	SE	2	m	44	92	43	4	5	2	-	1	10	2500
	Tynemouth	02·8	+2	S	2	m	47	85	43	4	2	3	1	4-6	4-6	2500
11	St. Abbs Head	01·0	+12	SE	2	bc	46	92	44	7	5	4	-	4-6	4-6	3500
	Leuchars	00·4	+10	-	0	zo	47	92	45	6	-	7	2	0	9+	-
12	Renfrew (Abbots I.)	99·6	+4	SSE	2	zo	47	85	42	6	8	7	2	2-3	9	2000
	Eskdalemuir	00·3	-2	SSE	3	c	44	85	41	6	5	-	-	9	9	1100
	Point of Ayre	98·9	-8	S	5	c	49	85	46	7	6	2	-	2-3	10	1500
13A	Tiree	95·0	+2	SSE	6	c-bc	48	92	45	8	5	3	6	Tr	7-8	2000
13B	Stornoway	94·6	+18	S	6	c	48	85	45	8	2	6	3	4-6	9+	1400
15	Dalwhinnie	98·0	+8	S	3	c	43	75	36	8	8	-	6	2-3	9+	2500
	Aberdeen	00·1	+6	SW'S	3	zo	48	75	40	6	-	9	-	0	4-6	-
	Wick	97·4	+16	SW	3	b-bc	47	75	39	9	-	7	-	0	2-3	-
16	Sumburgh	97·6	+18	SW	5	c	49	85	45	8	-	4	2	0	9+	-
17	Blacksod Point	85·1	-48	SE'E	6	c	51	97	51	8	5	-	-	10	10	1500
18	Malin Head	92·9	-10	SE'S	3	c	47	85	43	8	5	2	-	4-6	9+	2500
	Aldergrove	95·4	-18	SE'S	3	c	50	85	45	7	5	7	-	4-6	9+	2000
19	Birr Castle	89·4	-38	SSE	4	pro	51	92	49	7	8	2	-	7-8	10	800
20	Valentia Obsy.	97·9	-62	SE'E	8	ir	54	75	47	6	6	2	-	9	10	1500
	Roches Point	86·2	-48	SSE	8	c	54	85	50	7	6	2	-	4-6	9+	1500

OBSERVATIONS at 18h. G.M.T. 14th December 1942

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	01·9	-16	SE'E	3	iro	51	92	48	6	5	2	-	7-8	9+	1500	1	
Croydon	03·2	-22	SE	4	iro	50	92	49	5	5	-	-	7-8	7-8	2500	1	
S. Farnborough	01·0	-12	SE	3	rr	51	92	48	6	5	1	-	9+	10	1300	1	
Boscombe Down	99·8	-14	SE'E	4	c/ro	50	92	49	6	5	2	-	9	10	2900	1	
Thorney Island	01·4	-22	SE'E	4	ir	53	92	50	6	5	2	-	7-8	10	2500	1	
Lympne	04·7	-14	E	3	c/r	49	92	48	6	5	2	-	7-8	10	2500	1	§4
Manston	05·7	-6	SSE	4	iro	49	97	49	6	5	-	-	9+	9+	5400	1	
Shoeburyness	05·4	-8	S'E	4	o/r	49	97	47	6	5	-	-	10	10	1500	1	
Felixstowe	05·7	-14	SE'S	4	iro	49	92	46	6	5	-	-	9+	9+	3500	1	3
Gorleston	06·2	-10	SSE	4	c	46	92	43	7	5	-	-	9+	9+	1500	0	3
Mildenhall	04·1	-14	SE	4	ido	49	85	45	6	5	-	-	10	10	5200	1	
Cranwell	02·7	-14	SE'E	4	zo	45	97	45	5	-	3	-	0	7-8	-	1	
Birmingham	00·6	-16	ESE	3	c	49	85	45	6	5	2	-	4-6	10	1500	1	
Upper Heyford	00·8	-8	SSE	4	dodo	49	92	47	5	5	-	-	10	10	600	1	
Ross-on-Wye	98·3	-16	SE'E	4	c	51	85	47	7	5	1	-	9	10	1500	1	
Hartland Point	93·5	-14	SE	4	c	52	85	48	7	5	2	-	4-6	10	1500	1	4
Bristol	98·8	-16	SE	4	c/r	52	85	48	6	5	1	-	4-6	10	2500	1	
Portland Bill	98·5	-16	S	5	c-bc	53	92	51	7	2	-	-	7-8	7-8	4000	1	5
Plymouth	95·0	-10	SE	6	iro	53	92	51	6	5	2	-	4-6	10	1500	1	5
The Lizard	92·4	-4	SW	5	rr	60	97	50	6	5	-	-	10	10	1000	1	5
Scilly (St. Mary's)	90·1	+8	S'E	5	roro	50	97	49	6	5	2	-	7-8	10	800	1	5
Guernsey																	
Pembroke	92·3	-8	SSE	7	roro	53	97	52	7	8	2	-	7-8	10	1500	1	4
Holyhead (Valley)	93·9	-18	SE	6	c	51	75	42	8	5	7	6	Tr	9+	3000	1	4
Chester (Sealand)	98·7	-6	S'E	3	c	49	65	39	6	5	7	-	7-8	10	2100	1	
Manchester	99·4	-22	ESE	4	zo	49	75	42	6	5	3	1	2-3	9	4000	1	
Spurn Head	03·8	-4	SE'S	3	bc	46	92	43	7	7	3	-	4-6	4-6	2500	0	3
Catterick	01·9	-4	SSE	2	f	46	97	46	2	5	-	-	10	10	<150	1	
Tynemouth	02·0	-2	S	3	m	47	92	45	4	5	-	-	7-8	7-	2500	1	2
St. Abbs Head	00·4	0	SE	2	zo	44	97	43	5	5	-	-	9	9	2500	0	3
Leuchars	01·1	+2	SE	1	c	45	92	43	7	-	7	-	0	4-6	-	1	
Renfrew (Abbots I.)	98·2	-4	E'S	3	zo	47	85	43	5	5	1	-	4-6	7-8	1800	1	
Eskdalemuir	98·8	-6	SE	3	zo	44	85	41	6	5	1	-	2-3	10	1200	1	
Point of Ayre	95·3	-18	S	6	zo	49	85	46	6	6	3	8	Tr	2-3	800	1	3
Tiree	92·5	-14	SE	6	c	50	97	48	8	-	7	-	0	10	-	1	6
Stornoway	95·6	+10	SE	4	c	49	75	43	8	-	7	-	0	9+	-	1	
Dalwhinnie	98·0	-2	SSE	3	c	42	85	38	8	5	-	6	4-6	9	2500	0	
Aberdeen	01·0	+6	S'E	2	m	45	92	43	4	-	-	1	0	2-3	-	1	2
Wick	98·7	+6	SSE	3	c	45	85	39	9	5	-	-	4-6	4-6	2500	0	
Sumburgh	00·2	+16	SSW	2	c-bc	45	97	44	8	-	-	2	0	7-8	-	1	4
Blacksod Point	78·8	-30	SE	8	c-bc	53	97	51	8	6	-	-	7-8	7-8	1500	1	6
Malin Head	88·2	-6	SSE	6	c	49	85	45	8	8	2	-	7-8	10	1500	2	4
Aldergrove	92·2	-6	SE	5	zo	49	85	44	6	5	-	-	7-8	7-8	1000	1	
Birr Castle	86·3	-4	SSE	5	c	49	85	45	7	-	1	-	0	10	-	1	
Valentia Obsy.	80·8	+38	S'E	6	c	50	65	40	8	8	-	-	9+	9+	2500	1	6
Roches Point	85·8	+18	S	7	c/r	52	85	48	8	6	2	-	4-6	9	1500	1	6

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 14th (39)	13h.—18h. 14th (40)	18h. to 1h. 15th (41)	1h.—7h. 15th (42)
London (Kew)	bcmczo	crocir	ciroroc	cror
Croydon	cmo	cmiro	cmrrcm	qmrr
S. Farnborough	cmc	cmiror	crrricm	crrrrm
Boscombe Down	c	cmcrrcm	cmcirop	crr rrmp
Thorney Island	cmc	cirmir	ircor	crrcirp
Lympne	cmobcc	crocrmo	cmbcm	cmcr
Manston	cbc	cirom	cirobcc	bbcmir
Shoeburyness	cmbc	circm	cmo	cm
Felixstowe	cbcc	cbcbcmir	bmcm	bmcm
Gorleston	bc	bcc	cproz	bbcc
Mildenhall	bcmbc	bcc	cbc	c
Cranwell	ccmo	cjbcmo	cirmcm	cmrcm
Birmingham	bcc	c	cpr	corr
Upper Heyford	bcidoc	ciridmo	crorm	irrrm
Ross-on-Wye	bcc	bccpc	cc	rc
Hartland Point	cc	c	rrRRIrc	cbc
Bristol	c	cprcird	cbcirrm	crrmcm
Portland Bill	cc	cc	orr	ocbc
Plymouth	cmc	mo	crrrrmo	cmcpr
The Lizard	bcc	oprrr	rrcoc	cbc
Scilly (St. Mary's)	bcc	rrror	rorpqc	cbcpr
Guernsey				
Pembroke	cq	cqroro	cqrr	bcpr
Holyhead (Valley)	c	c	cirm	orrror
Chester (Sealand)	bcmcm	cbcmm	zoirmc	mirc
Manchester	bccm	cmbcz		bccm
Spurn Head	cmo	c	cmbc	cmo
Catterick	bbcmcm	of	orfof	orficm
Tynemouth	cbcm	cm	coirqc	cqoir
St. Abbs Head	cbc	bccm	cmrc	cmirc
Leuchars	cbccm	cmbc	bcirm	irmcm
Renfrew (Abbots I.)	cmbcmcm	cmbcm	bcmcm	cmczir
Eskdalemuir	cmo	cmo	cmo	cmo
Point of Ayre	crorc	czob	bcir	bcir
Tiree	b,c	c	b	coror
Stornoway	cjpcbc	bcc	cbcc	c
Dalwhinnie	oc	c		cproc
Aberdeen	bb-bczo	bczozw	bcmwcm	cmwo
Wick	cbc	bc	bcc	c
Sumburgh	circ	c	b	bbcc
Blacksod Point	c	r	bc	b
Malin Head	c	r	r	r
Aldergrove	ccmoc	iromo	cproiro	crormc
Birr Castle	pr	r		bcc
Valentia Obsy.	pr	pr	pr	pr
Roches Point	c	r		cpro

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. TUESDAY 15TH DECEMBER

Districts	Forecast
1 S.E. England; 2 E. England	Moderate or fresh south wind veering southwest later; cloudy with some rain at first but fair this evening; further rain during the night, showers and fair intervals tomorrow; mild
3 E. Midlands; 4 W. Midlands; 5 S.W. England; 6 South Wales; 7 North Wales; 8 N.W. England	Fresh south wind strong on coast gale locally veering southwest; fair at first, low cloud and rain spreading east during afternoon and evening; showers and fair intervals later; mild.
9 N. Midlands; 10 N.E. England; 11 S.E. Scotland	As 1-2.
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland	As 3-8
15 N.E. Scotland; 16 Orkneys and Shetlands	Strong southeast winds; gale at exposed places; cloudy; rain at times; mild.
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	Fresh or strong south to southwest wind; gale at exposed places; cloudy; some rain at first showers later; mild.

GENERAL INFERENCE

A deep depression west of Ireland is moving northnorthwest. A trough of low pressure over Scotland and Eastern England is moving east and another over South Ireland and Biscay will move east clearing the east coast of Britain towards dawn. Weather will continue mild with showers or periods of rain but there will also be fair intervals.

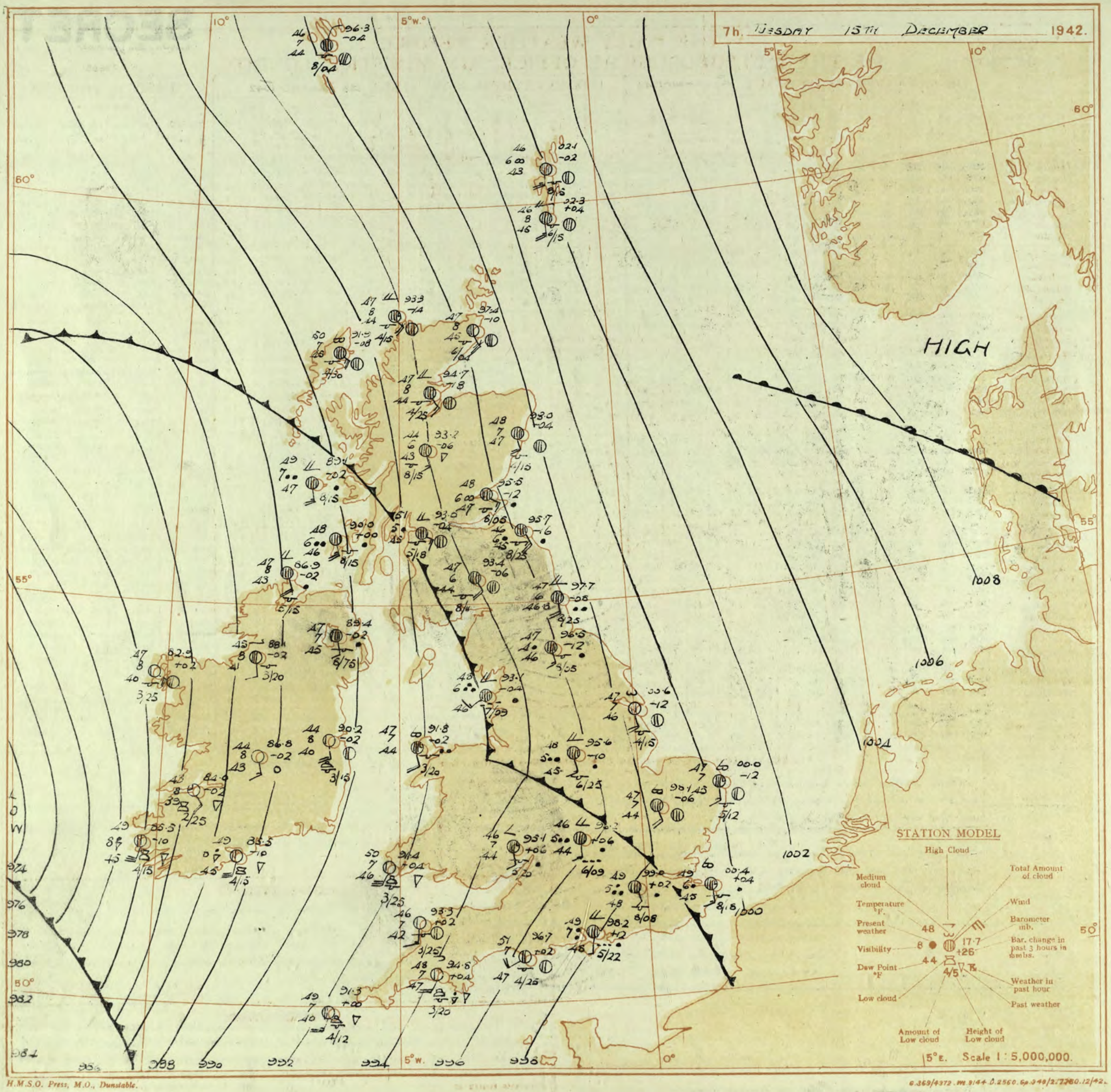
FURTHER OUTLOOK

Further rain and low cloud spreading from southwest over the British Isles. Continuing mild. Gale warning in operation in districts 13A or 13B issued 1930 G.M.T. 12th Dec. 1942, also in districts 15 (part of) and 16 issued at 10.25 G.M.T. 15th Dec. 1942, also in districts 8, 12, 17, 18., time of issue 1110 G.M.T 14th Dec. 1942.

Forecasts issued at 1030.

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

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



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

G.369/4372. M.9144. D.2560. 6p.948/2.7780.12/42.

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.

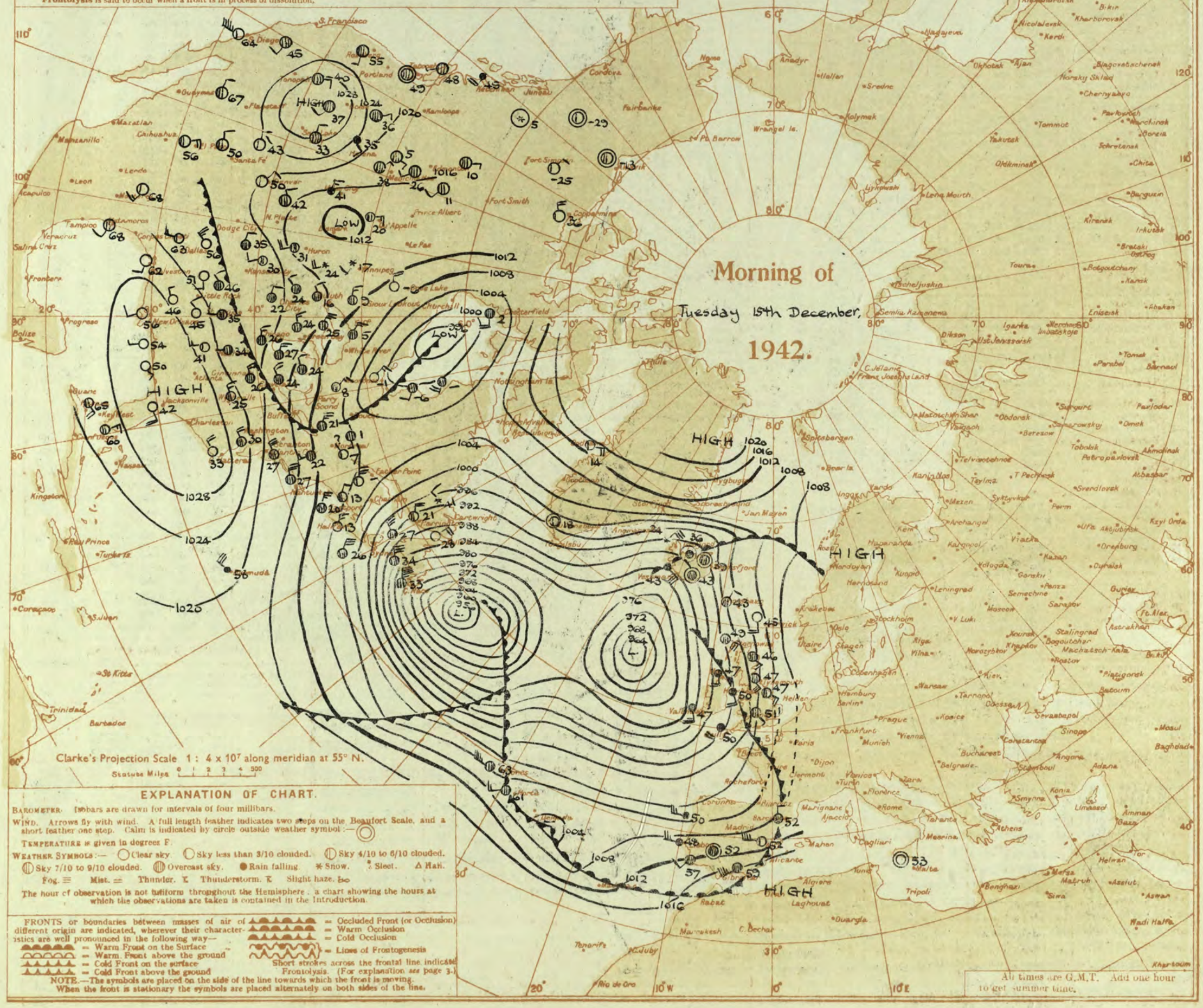
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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, 15th December 1942

No. 29608

OBSERVATIONS at 1 hr. G.M.T. 15th December 1942

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	*	*	*	*	*	51	*	*	*	*	*	*	*	*	*
	Croydon	290	00·3	-10	SE	1	z₀	51	85	47	6	5	-	-	9+	9+	3500
	S. Farnborough	226	97·6	-16	SE	3	r̊r	51	85	48	6	5	-	-	9+	9+	1800
	Boscombe Down	417	96·8	-14	SE	4	o/r	52	85	48	7	5	-	-	10	10	2200
	Thorney Island	10	98·3	-14	SE	4	r̊r₀	53	85	48	7	6	2	-	2-3	10	2500
	Lympne	283	00·9	-12	ESE	4	z₀	48	92	46	6	-	7	6	0	9	-
	Manston	154	01·3	-14	S'E	3	b-bc	49	92	47	7	5	-	*	7-8	7-8	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	01·7	-22	SE'E	4	z₀	47	97	47	6	-	7	-	0	9	-
	Gorleston	5	02·7	-18	SSE	4	z₀	47	85	44	6	8	-	-	7-8	7-8	1500
	Mildenhall	15	00·1	-6	SE'E	4	bc	47	92	7	-	-	7	-	0	4-6	-
	Cranwell	203	99·4	-18	SE	4	z₀	47	97	46	6	5	-	2	7-8	7-8	1500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	96·5	-16	SE'S	4	ir₀	49	92	47	5	5	1	-	4-6	7-8	6000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	92·9	+2	S	3	c/r	47	85	44	6	5	2	-	7-8	10	1500
	Bristol	209	95·3	-22	SE	3	ir	52	85	48	6	5	-	-	10	10	2300
	Portland Bill	32	96·0	-8	SSE	5	rr	52	92	50	7	5	-	-	10	10	2500
	Plymouth	82	94·5	+4	S	3	ir₀	48	92	46	6	5	-	-	10	10	1200
	The Lizard	240	92·9	+0	SW	5	c-bc	50	85	45	8	8	-	-	10	10	2000
	Scilly (St. Mary's)	163	91·5	+6	SSW	4	c-bcjp	50	75	41	7	8	-	-	7-8	7-8	1000
	Guernsey	175															
6	Pembroke	142	91·8	0	S	5	r̊r̊	49	92	48	7	8	-	-	10	10	2000
7	Holyhead (Valley)	32	92·3	-2	S'E	4	r̊r₀	50	85	46	6	5	-	-	10	10	3500
	Chester (Sealand)	16	94·5	-18	SSE	3	c	52	85	47	6	5	-	-	10	10	2100
8	Manchester	235	96·6	-14	ESE	5	z₀	51	85	46	6	5	7	-	4-6	7-8	3500
10	Spurn Head	29	00·6	-12	SE	4	bc	47	92	46	7	5	3	-	4-6	4-6	1500
	Catterick	175	98·7	-12	SSE	3	f	47	97	47	3	5	-	-	10	10	400
	Tynemouth	108	99·1	-8	SSE	6	cq	47	97	47	6	6	-	-	9+	9+	1500
11	St. Abbs Head	280	92·1	+16	SE	4	o/r	47	97	47	5	5	-	-	10	10	4000
	Leuchars	36	97·7	-14	E	4	ir	46	97	45	6	5	-	-	7-8	10	700
12	Renfrew (Abbots I.)	19	95·3	-16	ENE	3	z₀	47	85	42	5	5	2	-	9	10	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	92·9	+12	SSE	6	ir₀	50	97	48	6	4	7	-	4-6	10	1500
13A	Tiree	44	90·6	-10	SE	6	c	50	83	47	7	5	2	-	9	10	2500
13B	Stornoway	15	94·0	-6	ESE	6	c	49	85	43	7	-	7	-	0	9+	-
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	99·8	-6	SSE	3	z₀	46	97	46	6	5	-	-	10	10	700
	Wick	114	99·4	+2	SSE	3	c	47	92	45	8	5	-	-	10	10	500
16	Sumburgh	19	02·1	+2	SSE	5	b	47	92	45	8	-	4	-	0	1	-
17	Blacksod Point	18	83·1	+10	ESE	4	bc	47	85	43	8	8	-	-	4-6	4-6	1500
18	Malin Head	84	87·5	-8	S'E	4	ir₀	47	85	43	8	8	2	-	7-8	10	1500
	Aldergrove	268	90·4	-6	S'E	2	ir₀	46	92	44	6	5	-	-	9+	9+	3900
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	83·2	+2	S'E	5	PR	47	85	43	7	8	-		9	9	2500
	Roches Point	22	87·2	+6	S'W	6	c	49	85	45	8	6	1	-	4-6	9	1500

OBSERVATIONS at 7 hr. G.M.T. 15th December 1942 — 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 Hrs. (38)
London (Kew)	97·4	+4	SW	3	r̊r̊	49	92	47	6	6	2	-	7-8	10	1500	1	*	52	48	46	0·3	1	1·4
Croydon	99·0	+2	SSE	2	rr	49	92	48	5	5	-	-	10	10	800	1	*	54	48	45	0·6	3	1·2
S. Farnborough	97·7	+14	SSW	2	r̊r₀	47	92	45	6	5	-	-	10	10	3200	1	*	53	46	44	1	3	1·5
Boscombe Down	96·9	+6	SSE	3	c	46	97	45	7	5	7	-	4	10	1500	1	*	51	45	46	3	4	0·2
Thorney Island	98·2	+12	S	1	ir	49	92	48	7	6	2	-	7-8	10	2200	1	*	53	47	46	0·6	4	*
Lympne	98·9	-6	SE	4	r̊r₀	48	92	46	6	5	2	-	7-8	10	2500		§3	52	47	45	1	0·2	3·6
Manston	00·4	+4	SSE	3	ir₀	49	85	45	6	5	7	-	9+	10	1800	1	*	52	47	47	Tr	1	*
Shoeburyness	99·8	-8	S	4	z₀	49	85	44	6	5	-		7-8	7-8	1500	1	*	53	47	43	0·2	-	2·2
Felixstowe	98·8	-10	SE'S	3	z₀	47	92	45	6	5	7	6	1	9+	4000	1	3	52	46	43	Tr	1	5·3
Gorleston	00·0	-12	SSE	3	c	47	92	45	7	5	7	-	7-8	9+	1200	1	4	52	46	42	-	Tr	5·4
Mildenhall	98·1	+6	SE'S	4	c	47	92	44	7	5	7	-	9+	10	4000	1	*	55	45	42	-	Tr	2·0
Cranwell	97·4	-10	SE	3	o/r	45	97	45	6	5	-	-	10	10	4000	1	*	51	45	43	-	Tr	0·0
Birmingham	95·7	+2	SSW	3	rr	46	97	45	6	6	-	-	10	10	800	1	*	50	45	45	-	3	0·0
Upper Heyford	96·2	+6	SSE	3	r̊r₀	46	92	44	5	6	2	-	9	10	900	1	*	51	46	45	0·2	3	*
Ross-on-Wye	95·1	+6	S'E	2	c	46	92	44	7	5	1	-	7-8	9+	2000	1	*	52	45	43	Tr	3	0·4
Hartland Point	93·3	+4	S	3	b-bc	46	85	42	7	5	-	-	2-3	2-3	2500	1	4	54	45	42	-	7	0·7
Bristol	96·4	+10	SSE	1	z₀	45	97	44	6	5	7	6	2-3	9	4000	1	*	53	45	43	0·1	4	0·1
Portland Bill	96·7	+2	SW	4	bc	51	85	47	7	5	-	-	4-6	4-6	2500	1	5	53	47	*	-	3	*
Plymouth	94·8	+4	SSW	4	b-bc/r	48	97	47	7	8	-	3	2-3	2-3	2000	1	4	54	47	45	Tr	7	1·0
The Lizard	92·9	0	SW	6	bc	50	75	43	8	3	-	-	4-6	4-6	1500	0	5	53	47	*	2	3	0·2
Scilly (St. Mary's)	91·3	0	SW	5	bc	49	75	40	7	8	-	-	4-6	4-6	1200	1	4	54	46	*	4	2	0·0
Guernsey																							
Pembroke	91·4	-4	SSW	6	b-bc	50	85	46	7	8	-	-	2-3	2-3	2500	1	4	53	*	*	Tr	11	0·0
Holyhead (Valley)	91·8	-2	SE'S	4	c/r	47	85	44	7	5	7	8	2-3	9+	2000	1	3	53	46	44	-	4	*
Chester (Sealand)	93·7	+2	ESE	1	ir	48	92	46	6	5	2	-	4-6	10	1500	1	*	51	48	44	-	1	0·0
Manchester	94·3	-10	SEE	5	ir₀	50	85	46	6	5	7	-	4-6	9	1600	1	*	50	49	44	-	0·2	*
Spurn Head	00·6	-12	SE	4	bc	47	92	46	7	5	3	-	4-6	4-6	1500	1	4	47	45	*	-	-	0·5
Catterick	96·5	-12	SE	3	ir	47	97	46	4	5	-	-	10	10	500	1	*	46	46	42	-	0·5	0·0
Tynemouth	97·7	-8	SSE	4	o/r	47	97	46	6	-	2	-	10	10	2500	1	3	48	44	41	-	0·4	*
St. Abbs Head	95·7	-16	SE	5	ir₀	46	97	45	6	5	-	-	10	10	2500	1	3	46	43	*	-	0·3	*
Leuchars	95·5	-12	ESE	3	z₀	48	97	47	6	5	-	-	10	10	500	1	*	48	43	34	-	1	0·0
Renfrew (Abbots I.)	93·0	-4	ESE	3	ir₀	51	75	45	5	5	2	-	7-8	10	1800	1	*	48	44	39	-	-	0·0
Eskdalemuir	93·4	-6	SE	4	c	47	85	44	6	5	-	-	10	10	1100	1	*	45	39	33	Tr	-	0·2
Point of Ayre	91·6	-2	SSW	1	r̊r₀	47	97	46	7	6	2	-	4-6	10	800	1		50	46	*	Tr	1	0·0
Tiree	89·1	-2	SSE	5	r̊r₀	49	92	47	7	-	2	-	10	10	1500	1	6	50	48	46	-	2	0·0
Stornoway	91·9	-8	ESE	5	c	50	85	45	7	5	7	-	4-6	10	3000	1	*	49	46	42	0·1	-	0·0
Dalwhinnie	93·2	-6	SSE	3	o	44	97	43	6	5	-	-	10	10	1500	1	*	44	40	37	-	0·5	0·1
Aberdeen †	98·0	-4	SSE	4	o	48	97	47	7	5	-	-	10	10	1500	1	2	49	44	41	-	-	1·2
Wick	97·4	-10	SSE	5	c	47	92	45	8	5	-	-	9	9	400	1	*	48	45		-	-	*
Sumburgh	02·3	+4	SSE	5	c	46	97	45	8	5	2	-	9	10	1500	1	4	50	46	38	Tr	-	0·3
Blacksod Point	82·9	+2	ESE	5	bbc	47	75	40	8	5	-	-	2-3	2-3	2500	1	4	53	45	*	0·3	-	*
Malin Head	86·9	-2	SSE	4	c	47	85	43	8	8	2	-	7-8	10	1500	2	3	50	42		Tr	1	0·0
Aldergrove	89·4	-2	SE'S	2	c	47	92	45	7	5	-	-	10	10	7500	1	*	50	45	44	-	3	0·0
Birr Castle	86·8	-2	SSE	3	b	44	85	40	8	-	-	-	0	0	-	1	*	53	42	40	3	2	0·0
Valentia Obsy.	80·0	-26	SE'S	7	bc/pr	47	75	40	8	3	-	-	4-6	4-6	2500	1	5	55	44	41	0·5	5	0·0
Roches Point	85·5	-10	S'W	6	pr₀	49	85	45	8	3	-	-	4-6	4-6	1500	1	6	54	49	*	0·1	1	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 14th Dec. $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 15th Dec. $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	00	01790	18214	00	05690	15414	52	02645	47518	52	22635	45668
115	87	14844	87626	51	02854	12224	52	02844	46527	52	02844	45427
203	8-	02847	16727				5-	02848	08428	5-	25848	12428
206				57	02862	12326	52	02864	12328	52	02854	12328
210	03	01890	16214	03	01890	00012	57	01844	14628	5-	02748	45628
220				63	01744	12515				62	64438	14468
230	10	02853	00016	52	02755	10127	5-	02658	12228	5-	05658	16128
245	60	05651	14116	50	05661	12316	5-	62568	12368	5-	05538	47428
260	14	02862	14325	57	05654	08125	57	47344	08227	5-	08448	08228
278	52	02866	13368	52	05645	46528	02	61648	46628	5-	62638	14368
279	57	05654	11327	57	08462	11424	5-	21648	10358	52	61655	08368
285	27	05635	18828	--	48209	08323				--	46109	08540
288	04	05690	15317	07	05690	11425	52	05644	12565	52	02765	11568
575	57	02852	14227	5-	02848	45428	50	01844	14325	50	01953	14215
301	51	05553	14428	50	05562	12422	50	05543	47328	62	64637	20368
321	02	05590	16328	03	05690	12315	5-	05637	47367	5-	05658	14428
299	54	05563	20247	50	05553	20313	51	05658	14428	5-	25655	14585
292	07	05490	11227	01	08490	08224	5-	05538	11268	03	05690	10325
310				--	02628	16428						
614	57	05547	16228	53	08453	12226	52	05554	14365	52	62556	14368

III	13h. G.M.T. 14th Dec. $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 15th Dec. $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	57	02853	11427	51	02865	12528	02	64688	14568			
334				--	02646	18517				--	03647	22228
340	52	02643	15328	52	02565	14418	51	02454	12467	02	62568	16368
136	53	05641	17314	5-	05624	14427	57	05663	12467	07	05690	14427
336	57	02754	12427	57	02656	12328						
350	8-	02755	14327	5-	61548	12368	50	05574	14224	5-	62648	12268
368	53	02754	12426	5-	21748	10468				54	02752	16163
379	5-	02757	14327	62	62516	45468	5-	02547	12427	02	61528	12368
390	8-	05657	16337	5-	61338	12468	5-	08478	12468	5-	45346	12445
382				57	64646	12468	5-	62668	12528	57	62767	20168
438	87	02744	16415	52	61645	10368	5-	05648	14418	3-	64648	16468
430	53	02765	14425	5-	22645	14368	5-	61678	47568	5-	62668	20168
409	57	02863	47726	52	62635	47668	50	01764	14664	50	01862	15402

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

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	bcm₀cz₀	cr₀cir₀	cir₀cr₀r₀
Croydon	cm₀	cm₀ir₀	qm₀r₀r₀
Greenwich	c	cir₀	ir₀cr₀rr
Camden Square	bc	c	*
Kensington	bc	bccdm	*
Hampstead	bc	od	or

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·3 Time 17-18h on 14th. Min. <0·1 Time 0-6h on 15th.

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 13h % Yesterday	Humidity 9h % To-day
Kew	52	48	46	0·3	1	1·4	*	*
Croydon	54	48	45	0·6	3	1·2	*	*
Greenwich	53	46	43	0·3	2	2·1	84	96
Westminster	54	43	43		1		82	94
Regents Park	52	47	45	-	2		79	92
Camden Square	53	47	45	-	1	*	*	91
Kensington	55	47	41	Tr	1		91	94
Hampstead	51	45	44	Tr	1		*	96

BRITISH SECTION

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

SECRET

Wednesday 16th December 1942

No. 22609

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Cloud. Height of Base (feet) (15)
1	London (Kew)	99·4	+4	S'W	3	z0	50	85	46	6	7	2	-	2-3	10	5700
	Croydon ...	00·4	+4	S	2	z0	50	85	46	6	5	7	-	7-8	9+	1200
	S. Farnborough	99·3	+2	S'W	3	c	50	85	46	7	8	7	-	2-3	9	2500
	Boscombe Down	98·6	-2	S	4	c-bc	51	75	45	8	2	-	2	4-6	7-8	2500
	Thorney Island	99·9	+2	S'W	4	c-bc	51	85	46	7	2	-	2	1	7-8	2500
	Lympne ...	01·0	+2	SSW	2	c	49	92	47	7	5	-	-	4-6	10	800
	Manston ...	00·8	+10	SSW	2	c/r	50	92	48	7	5	2	-	4-6	10	1200
2	Shoeburyness ...	00·8	+4	SSW	3	c	49	92	47	7	-	2	-	0	10	-
	Felixstowe ...	99·7	+2	-	0	c/r	47	97	46	5	5	7	-	7-8	9+	4000
	Gorleston ...	99·7	0	S'W	3	z0	48	85	45	6	8	-	-	10	10	1400
	Mildenhall ...	99·2	+6	S'W	3	c	50	85	44	7	5	7	-	4-6	9+	6000
	Cranwell ...	97·8	+2	S	3	c-bc	48	92	46	7	5	3	2	4-6	7-8	600
3	Birmingham ...	97·2	0	SSE	3	c-bc	48	85	44	7	5	-	6	2-3	7-8	1500
	Upper Heyford	97·5	0	S	3	z0	49	85	45	6	5	-	7	2-3	9+	1200
4	Ross-on-Wye	96·2	0	S'E	3	bc	50	75	43	7	7	-	2	4-6	4-6	2500
5	Hartland Point	93·6	0	S	4	c-bc	50	85	45	8	2	4	6	2-3	7-8	2500
	Bristol ...	97·3	-6	S	3	bc	51	75	43	8	2	-	1	4-6	4-6	2500
	Portland Bill ...	98·0	+2	S	4	bc	52	85	48	8	2	-	-	4-6	4-6	4000
	Plymouth ...	95·8	+4	SSW	5	c	52	85	46	8	8	-	3	7-8	9	2000
	The Lizard ...	92·8	-4	SW	7	c	52	75	46	8	8	2	-	9	10	1500
	Scilly (St. Mary's)	91·4	+2	SW'S	5	cjp	50	85	46	7	9	7	3	4-6	9+	500
	Guernsey ...															
6	Pembroke ...	91·0	-6	S	7	cq	51	65	37	7	8	-	-	9+	9+	2000
7	Holyhead (Valley)	96·2	0	S'E	6	b-bc	50	75	42	8	3	7	-	1	2-3	3000
	Chester (Sealand)	94·4	-2	S	3	bc	50	75	42	8	5	-	-	4-6	4-6	1000
8	Manchester ...	95·5	0	SE	4	z0	49	75	43	6	1	4	-	Tr	2-3	3000
10	Spurn Head ...	98·1	0	SSW	3	c/r	47	92	46	6	5	7	-	4-6	10	1500
	Catterick ...	96·4	0	SE	3	m/r	46	97	46	4	6	7	-	4-6	9+	800
	Tynemouth ...	96·5	-2	S	3	r0r0	47	97	46	4	-	2	-	10	10	1600
11	St. Abbs Head	94·1	0	SE	5	rr	46	97	46	6	5	-	-	10	10	1000
	Leuchars ...	94·2	-4	ESE	5	rr	47	92	46	6	5	-	-	10	10	600
12	Renfrew (Abbots I.)	93·0	+6	E	2	c/r	46	85	43	6	5	2	-	4-6	10	2500
	Eskdalemuir ...	93·7	0	-	0	c	43	97	42	8	5	2	-	4-6	10	1100
	Point of Ayre ...	92·6	0	S'W	4	c	50	85	46	8	2	7	8	4-6	9+	2500
13A	Tiree	88·7	-8	SE	5	c	48	92	46	9	8	7	-	9	9+	2000
13B	Stornoway ...	90·4	+2	SSW	5	r0r0	45	97	45	6	5	2	-	9	10	1500
15	Dalwhinnie ...	92·0	-8	SE	4	rr	45	92	43	6	5	2	-	4-6	10	1500
	Aberdeen ...	96·2	-12	SSE	4	ir0	47	97	46	6	6	-	-	10	10	500
	Wick ...	96·1	-10	ESE	6	r0r0	47	85	44	6	5	-	-	4-6	10	300
16	Sumburgh ...	01·2	-10	SE	7	ir	47	97	45	6	5	-	-	10	10	800
17	Blacksod Point	80·1	-22	ESE	5	c-bc	47	85	43	8	8	-	-	7-8	7-8	2500
18	Malin Head ...	85·6	-14	SSE	5	bc	49	75	41	8	5	-	3	2-3	4-6	2500
	Aldergrove ...	88·8	-12	SSE	5	ir0	49	85	43	7	8	-	1	7-8	9+	1800
19	Birr Castle ...	84·8	-22	SSE	4	bc	49	85	45	8	5	-	-	4-6	4-6	2500
20	Valentia Obsy.	81·7	+34	WSW	5	pr	50	85	46	7	9	-	-	9+	9+	1500
	Roches Point	85·0	+10	SSW	6	ir	50	85	46	8	6	2	-	4-6	9	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	% Humid. (22)	Dew Point. °F. (23)	Visibility 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Cloud. Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	01·8	+14	S'E	3	z0	48	85	44	6	5	3	-	1	2-3	2500	1	*
	Croydon ...	02·6	+14	SSE	3	z0	48	92	45	5	5	-	-	4-6	4-6	3000	1	*
	S. Farnborough	01·2	+10	S	3	z0	48	85	45	6	7	7	-	1	1	2500	1	*
	Boscombe Down	00·3	+12	S'E	4	c	48	85	44	7	2	3	2	1	9+	2000	1	*
	Thorney Island	01·6	+10	S'W	4	bc	51	75	45	7	5	-	-	4-6	4-6	2500	1	*
	Lympne ...	03·7	+10	SE	3	c	47	97	46	7	5	7	-	7-8	9	2500	1	§4
	Manston ...	03·8	+30	SSW	3	c-bc	47	97	46	7	2	4	6	1	7-8	1000	1	*
2	Shoeburyness ...	03·5	+18	S'W	4	b-bc	48	92	45	6	-	7	-	0	2-3	-	1	*
	Felixstowe ...	03·0	+22	S'E	3	bc	47	92	45	7	-	-	8	0	4-6	-	1	2
	Gorleston ...	02·5	+10	SSW	3	c	46	92	44	6	5	-	-	9+	9+	1500	1	3
	Mildenhall ...	01·5	+22	SSE	3	z0	47	92	44	6	-	-	1	0	1	-	1	*
	Cranwell ...	00·2	+10	SE'S	3	m	44	97	44	4	-	-	6	0	4-6	-	1	*
3	Birmingham ...	98·4	+8	SSE	3	b	46	85	42	7	-	4	-	0	1	-	1	*
	Upper Heyford	99·0	+10	S	3	b	47	85	43	7	5	-	3	Tr	1	1500	1	*
4	Ross-on-Wye	96·9	+6	S	4	id	48	85	43	7	5	1	-	9	10	2000	1	*
5	Hartland Point	94·5	+18	SW	4	c-bc	49	85	45	8	3	4	-	4-6	7-8	1500	1	4
	Bristol ...	98·5	+8	S	4	pr	49	85	45	7	5	-	-	10	10	1500	1	*
	Portland Bill ...	96·2	-16	S	5	b-bc	53	92	51	7	2	-	-	2-3	2-3	4000	1	5
	Plymouth ...	97·3	+16	SSW	6	pr	52	85	49	6	8	7	-	7-8	10	2000	1	5
	The Lizard ...	96·0	+10	W	4	c/pr	48	92	46	7	8	2	-	7-8	10	1500	1	5
	Scilly (St. Mary's)	93·5	+12	SW'S	5	bcjp	51	85	47	7	8	6	3	4-6	4-6	1000	1	5
	Guernsey ...																	
6	Pembroke ...	92·8	+6	SSW	6	bcq	51	92	48	8	8	2	-	4-6	4-6	2000	1	5
7	Holyhead (Valley)	92·2	+10	S	7	c/r	48	85	44	8	2	7	-	1	9+	2500	1	5
	Chester (Sealand)	93·2	+10	S	3	b-bc	48	75	42	6	-	3	-	0	2-3	-	1	*
8	Manchester ...	96·6	+10	SE	4	z0	47	85	42	6	-	-	-	0	0	-	1	*
10	Spurn Head ...	00·0	+6	SSE	4	z0	45	97	45	7	-	-	7	0	10	-	1	
	Catterick ...	98·1	+16	SSE	3	cf	45	97	45	2	5	2	-	9	10	800	1	*
	Tynemouth ...	97·3	+10	S	3	m	46	92	43	4	-	-	-	0	0	-	1	3
11	St. Abbs Head	94·9	+4	SE	4	c-bc	44	92	42	6	5	5	-	4-6	7-8	2000	1	3
	Leuchars ...	94·7	+6	SSE	2	c-bc	43	97	42	9	5	3	-	1	7-8	3000	1	*
12	Renfrew (Abbots I.)	92·6	+6	E	3	z0	46	75	40	6	5	7	-	4-6	9+	2000	1	*
	Eskdalemuir ...	94·7	+6	-	0	c-bc	39	92	37	6	5	7	-	4-6	7-8	2200	1	*
	Point of Ayre ...	91·6	0	S'E	6	ir0	49	85	45	8	8	2	-	7-8	10	2000	1	4
13A	Tiree	86·5	-14	SE	7	c	49	85	44	9	8	7	-	2-3	9	2000	1	
13B	Stornoway ...	90·0	+2	SE	3	c-bc	47	92	44	8	5	-	-	7-8	7-8	3500	1	
15	Dalwhinnie ...	93·0	0	S	4	bc	42	85	37	8	8	-	-	4-6	4-6	2500		*
	Aberdeen ...	95·1	-2	SSE	3	ir0	47	97	47	4	-	2	-	10	10	800	1	
	Wick ...	94·7	-6	SE	6	r0r0	47	92	45	6	5	-	-	10	10	800	1	*
16	Sumburgh ...	99·8	-8	SE	7	r0r0	47	92	45	6	5	2	-	9+	10	800	1	4
17	Blacksod Point	80·5	+18	S'W	4	bc	49	92	47	8	8	-	-	4-6	4-6	1500	1	4
18	Malin Head ...	83·7	-8	SE'S	5	c-bc	48	75	41	8	2	-	-	7-8	7-8	2500	2	4
	Aldergrove ...	88·0	0	SSE	4	c	47	85	42	7	8	-	-	9+	9+	2000	1	*
19	Birr Castle ...	86·6	+16	S	3	bc	46	85	42	8	5	-	-	4-6	4-6	2500	1	*
20	Valentia Obsy.	85·4	+20	SSW	4	b-bc/pr	47	92	45	8	2	6	1	2-3	2-3	2500	1	4
	Roches Point	88·0	+16	SW	4	bc	50	85	42	8	3	-	-	4-6	4-6	1500	1	6

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 15th (39)	Weather. 13h.—18h. 15th (40)	Weather. 18h. 15th to 1h. 16th (41)	Weather. 1h.—7h. 16th (42)
1	London (Kew)	Cr0r0m0	cm0	c0r0m0	cm0
	Croydon ...	cm0	cmbcm0	bcm0r0bcm0	bcm0cm0
	S. Farnborough	cm0c	cbccbm0	bbcc0r0m0	ebccm0
	Boscombe Down	c	cbcpr0bcc	ipr0m0c	cepre
	Thorney Island	c	bcbbc	cbbc	bcbbc
	Lympne ...	cr0m0ir0	cbcc	cbcm0	bcbbc
	Manston ...	ccm0r0m0cir0	c	cbcb	cm0 bcm0
2	Shoeburyness ...	m0r0r0c	cbcm0	cpr0m0	cm0
	Felixstowe ...	cr0r0m0cm0	cm0bc	bbcm0	bccm0
	Gorleston ...	cr0z0	cz0	cbccm0w	cz0
	Mildenhall ...	ccir0c	cm0bm0	bm0bc	bcbbc
	Cranwell ...	crrcm0	cm0cm	bcmcim0m0	bcm0cm0
3	Birmingham ...	orbc	cbc	bcir	co
	Upper Heyford	r0r0bccm0	cm0bcc	cm0pr0q	ir0q0cm0
4	Ross-on-Wye	cbc	bcbbcc	irc	cqr
5	Hartland Point	c	cir	cepr0bc	ir0irc
	Bristol ...	cr0jpbc	bcpr0bc	cpr0cpr0	cpr0m0r0
	Portland Bill ...	cbc	cbc	cc	co
	Plymouth ...	bcpr0c	cpr0m0	cpr0m0c	cc0r0m0
	The Lizard ...	bcc	cpr0plc	cbccw	err0
	Scilly (St. Mary's)	cPq0c	cp0bc	bcpr0c	err
	Guernsey ...				
6	Pembroke ...	bccq	bcq	bcpr0q	crrm0q
7	Holyhead (Valley)	bbc	bcirc	bbc	cir0
	Chester (Sealand)	cm0c	cbcz0	bc0cc	bcpr0c
8	Manchester ...	cr0r0m0	bbcbz0	ir0m0	bcir0m0
10	Spurn Head ...	cm0pr0	em0r0s	bc	bc
	Catterick ...	r0r0m0fcm	r0r0f0f	cm	cm
	Tynemouth ...	0r0r0m	cbcbm	bmbc	bcc
11	St. Abbs Head	cir0rrm0	0cm0r0m0	bcm	bcm
	Leuchars ...	cm0cirm0	rrm0rrm0cm0ccbcc		bcbcprr
12	Renfrew (Abbots I.)	cfm0r0r0	cm0cz0	ir0cm0r0	pr0m0r0
	Eskdalemuir ...	cm0rr	cbcc	bcpr	cm0
	Point of Ayre ...	r0r0c	bcc ir0	r0drcbbc	bbc
13A	Tiree	0r0r0c	cbcc	cir0cbc	bcc
13B	Stornoway ...	cir0r0r0m0	er0r0m0c	cbcc	c,b
15	Dalwhinnie ...	0rr	rrbc	*	bc0pr0c
	Aberdeen ...	pjrr0m0p0	0r0r0ir0m	cir0cm0	cm0c
	Wick ...	cm0ir0cir0	cr0m0cr0r0m0	bcbp	bcc
16	Sumburgh ...	cir	cirr0r0	cm0ir0r0	cm0ir0
17	Blacksod Point	bc	bc	c	r
18	Malin Head ...	c	c	r	c
	Aldergrove ...	ccir0	cpr0bcp0m0bcc	cbcb	pr0cir0
19	Birr Castle ...	bc	pr	*	o
20	Valentia Obsy.	pr	pr	r	pr
	Roches Point	r	r	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 16th December

Districts	Forecast
1 S.E. England; 2 E. England ...; 3 E. Midlands ...	Strong south wind; gale on coasts veering southwest and decreasing slightly later; cloudy, rain this afternoon and evening, bright periods and occasional showers later; mild.
4 W. Midlands; 5 S.W. England; 6 South Wales	Strong south wind; gale on coasts veering southwest and decreasing slightly later; cloudy with rain at first, soon followed by bright intervals and occasional showers; mild.
7 North Wales; 8 N.W. England	As 1-3 but gale severe at exposed places.
9 N. Midlands ...; 10 N.E. England; 11 S.E. Scotland	As 1-3
12 S.W. Scotland & Isle of Man; 13A W. Scotland ...; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Strong south wind, severe gale at exposed places veering southsouthwest and decreasing slightly later; cloudy; rain at first, frequent squally showers later, mild.
16 Orkneys and Shetlands	Southerly gale; cloudy; rain tonight; showery tomorrow; mild.
17 N. W. Ireland	As 19-20
18 N. E. Ireland	As 12-15
19 S. E. Ireland; 20 S. W. Ireland	Fresh or strong southwest wind; bright intervals; showers; mild.

GENERAL INFERENCE

An exceptionally deep depression about 700 miles west of Scotland is moving slowly north. An associated trough of low pressure over Ireland and Southwest England will move east across the whole country, accompanied by a wide belt of rain and low cloud. Following the rain there will be bright periods and showers. Southerly gales will occur on the coasts of Britain at first and will be severe in the North, but will decrease slightly and veer later.

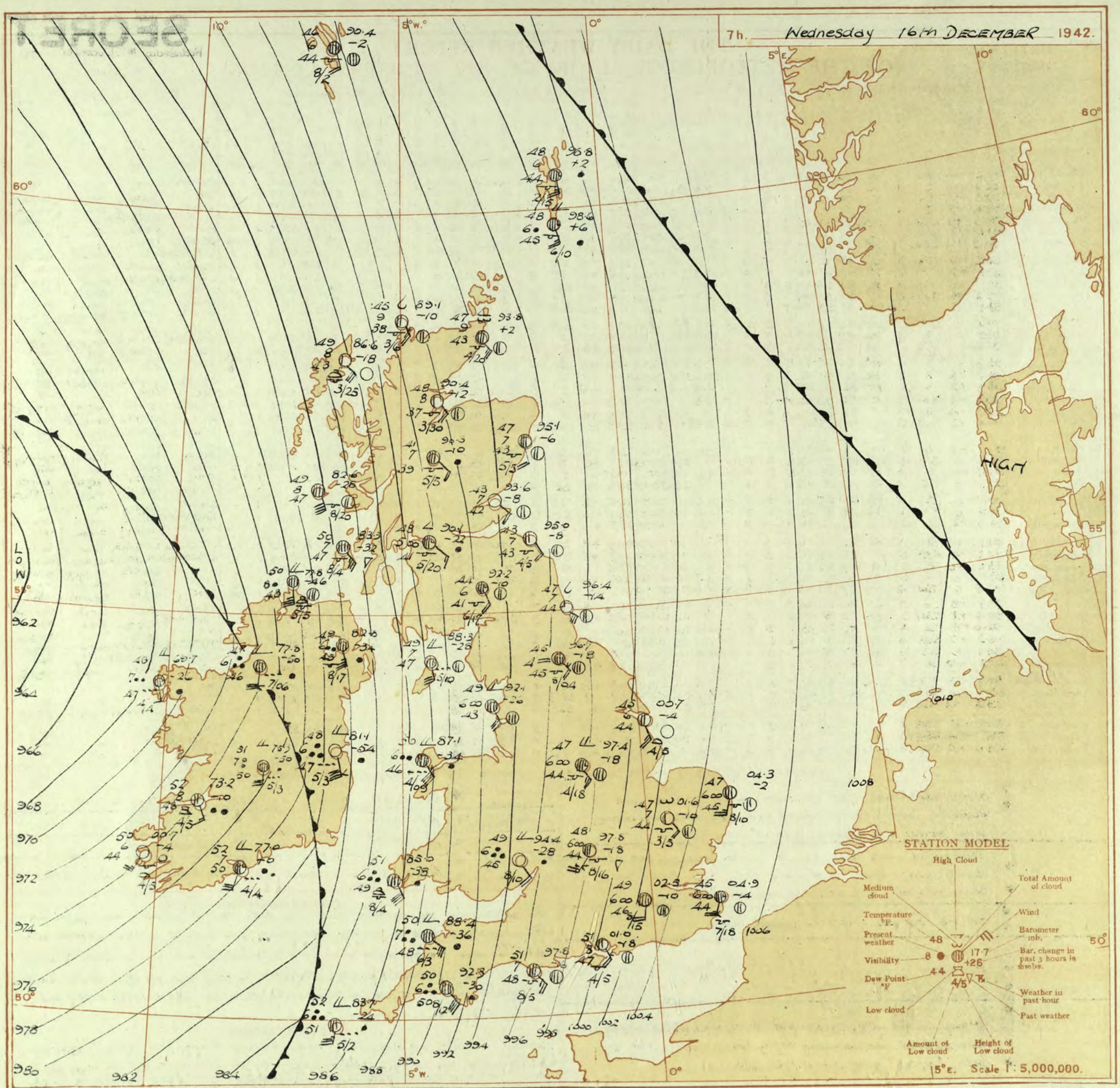
FURTHER OUTLOOK

Continuing unsettled and mild; fair periods in most districts, but showers especially in the North. Gale warning in operation in districts 13A, 13B issued at 1930 G.M.T. 12th Dec. 42 also in districts 7,8,12,18, at 1110 G.M.T. 14 Dec. 42. also in districts 15 (part of) 16 issued at 1025 G.M.T. 15. Dec. 42, also in districts 5 (part of) 17,19,20 issued at 0145 G.M.T. 16 Dec. 42 also in districts 1,2,5 (part of) 9, 10, 11, 15 (part of) issued at 0510 G.M.T. 16 Dec. 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.

6.369/4372. m.8144. D.2560. 6p.349/2.7750. 12/42.

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).

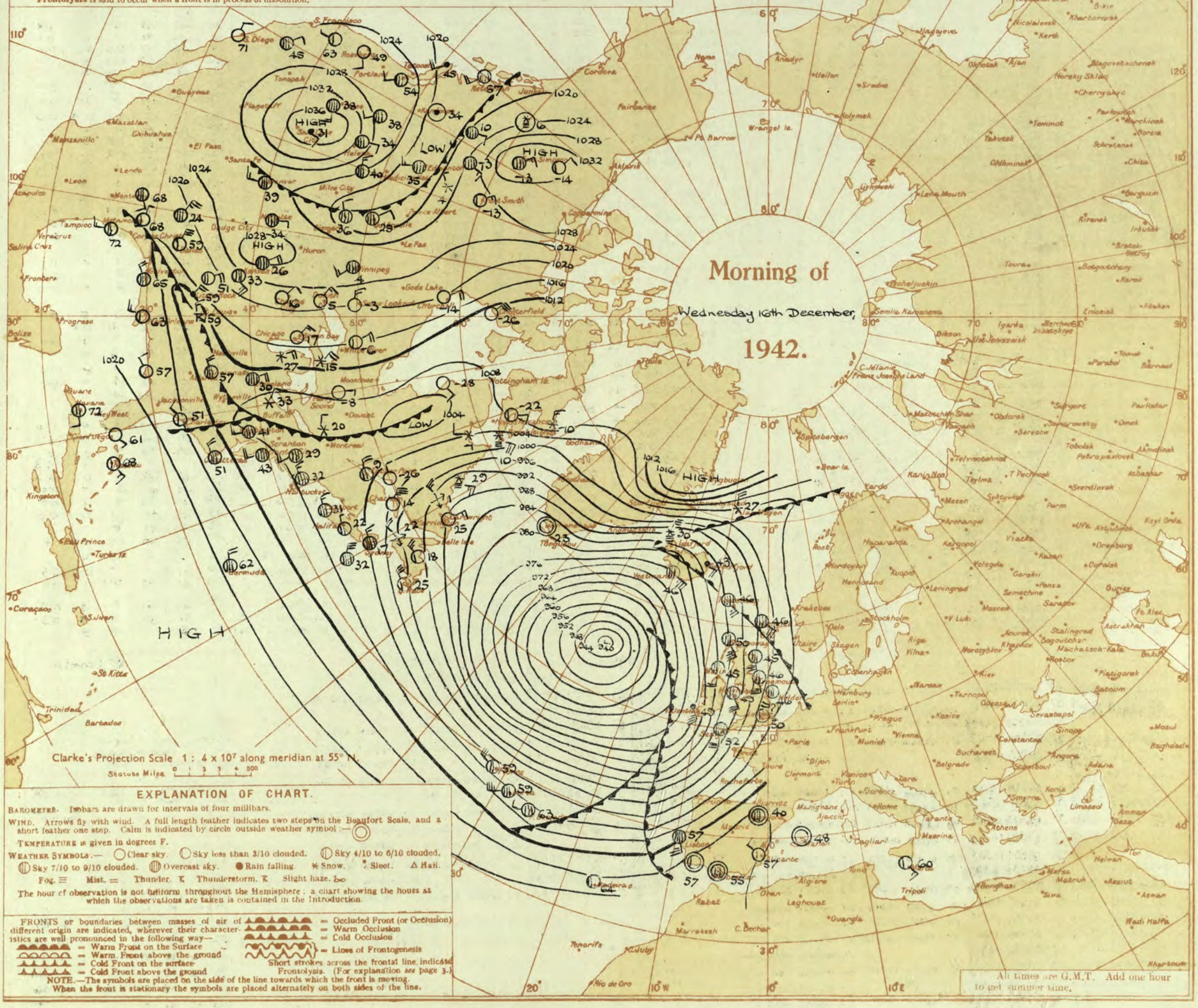
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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 16th December 1942

No. 22692

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

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	*	*	*	*	*	49	*	*	*	*	*	*	*	*	*
	Croydon ...	290	02·7	+4	SSE	3	bc	50	85	47	6	5	-	-	4-6	4-6	2000
	S. Farnborough	226	02·6	+2	S'W	4	Z_0	49	92	47	6	5	7	-	9+	10	1200
	Boscombe Down	417	00·7	-2	S'E	5	c/pr	49	92	48	7	9	-	-	9+	9+	1000
	Thorney Island	10	03·0	+4	S'W	5	c-bc	51	85	47	8	2	3	-	4-6	7-8	2700
	Lympne ...	283	05·7	+4	S	4	Z_0	47	92	45	6	5	-	-	7-8	7-8	1700
	Manston ...	154	05·7	+4	S'W	3	b	45	85	42	7	5	-	-	1	1	2000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	04·6	+4	S	4	Z_0	47	85	44	6	-	7	-	0	4-6	—
	Gorleston ...	5	04·7	+2	S'W	4	Z_0	46	92	44	6	5	-	-	9	9	1500
	Mildenhall ...	15	03·2	+2	SSE	4	c-bc	47	85	43	7	5	7	-	4-6	7-8	2500
	Cranwell ...	203	01·1	-2	SSE	4	Z_0	45	92	43	5	5	-	-	9	9	1800
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	00·5	0	S	4	ir_0	47	97	46	6	5	-	-	9	9	2000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	95·0	-8	SW	5	c-bc/pr	57	85	55	8	3	6	-	4-6	7-8	1500
	Bristol ...	209	99·4	-2	S	3	pr_0	51	85	48	7	8	-		7-8	7-8	2500
	Portland Bill ...	32	99·6	+4	SE	5	c-bc	50	92	48	7	5	-	-	7-8	7-8	2500
	Plymouth ...	82	97·8	-6	SSW	6	c	53	92	51	7	5	-	-	10	10	2500
	The Lizard ...	240	95·1	-12	SSW	8	c-bc	52	85	48	8	8	-	-	7-8	7-8	1500
	Scilly (St. Mary's)	163	91·8	-24	S	6	c	52	92	51	7	5	-	-	10	10	800
	Guernsey ...	175															
6	Pembroke ...	142	99·3	-8	S'W	7	PR	52	92	50	7	8	-	-	9+	9+	1500
7	Holyhead (Valley)	32	93·0	-6	SSE	6	bc	49	85	44	7	5	7	6	Tr	4-6	2500
	Chester (Sealand)	16	96·2	-2	S	3	b-bc	47	85	43	7	5	3	-	1	2-3	3000
8	Manchester ...	235	97·9	-2	SE	4	c	47	85	44	7	5	3	-	4-6	9	1400
10	Spurn Head ...	29	01·1	-4	S'E	6	b-bc	45	92	43	7	1	4	-	1	2-3	2500
	Catterick ...	175	98·6	+2	S'E	3	m	45	97	43	4	5	-	-	7-8	10	600
	Tynemouth ...	108	97·3	-4	S	5	bc	46	92	43	6	2	-	-	4-6	4-6	2500
11	St. Abbs Head	280	95·9	0	SE	4	b	44	92	43	6	5	-	-	1	1	4000
	Leuchars ...	36	95·1	-6	SE	3	bc	45	85	41	7	5	4	-	2-3	4-6	2200
12	Renfrew (Abbots I.)	19	93·0	-2	SE'E	2	r_0r_0	46	85	43	5	5	7	-	7-8	9+	1800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	92·4	+4	S	6	bc	49	85	46	8	8	-	-	4-6	4-6	2000
13A	Tiree	44	86·8	+4	SSE	7	bc	49	92	47	8	2	-	-	4-6	4-6	2500
13B	Stornoway ...	15	88·4	-2	SSE	7	c	50	85	45	8	5	7	-	7-8	9	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	95·7	0	S'E	5	Z_0	47	85	43	5	5	-	-	9+	9+	800
	Wick ...	114	93·7	-6	SE	6	b	46	85	43	9	-	-	1	0	1	-
16	Sumburgh ..	19	98·4	-2	SE	6	r_0r_0	47	97	47	6	5	2	-	9+	10	700
17	Blacksod Point	18	78·7	-36	SE'S	5	c-bc	48	92	46	8	8	-	-	7-8	7-8	1500
18	Malin Head ...	84	85·4	0	S	4	bc	45	85	41	8	8	-	-	4-6	4-6	2500
	Aldergrove ...	268	89·2	-2	SE	3	b	45	92	42	8	-	7	-	0	1	-
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	75·9	-66	SSE	7	iR	49	92	47	6	6	2	-	4-6	10	*
	Roches Point	22	83·9	-40	S'W	7	c/r	51	92	49	8	6	1	-	4-6	9	1500

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

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 0–9 (31)	Sea 0–9 (32)
1	London (Kew)	00·7	-20	SSE	4	Z_0	50	85	46	6	5	-	-	10	10	1500	1	*
	Croydon ...	02·5	-10	S'E	4	Z_0	49	92	47	6	5	-	-	10	10	1500	1	*
	S. Farnborough	99·9	-20	SSE	4	Z_0	49	85	46	6	5	2	-	9+	10	1500	1	*
	Boscombe Down	97·9	-26	SE'S	6	c	49	85	46	8	5	-	-	10	10	1200	1	*
	Thorney Island	01·0	-18	SSE	5	bc	51	85	47	8	5	-	-	4-6	4-6	2500	1	*
	Lympne ...	04·5	-8	SSE	6	Z_0	46	92	44	6	5	-	-	10	10	1700	1	5
	Manston ...	04·9	-4	S'W	5	Z_0	45	92	44	6	5	-	-	9+	9+	1800	1	*
2	Shoeburyness ...	00·0	-12	SSW	4	Z_0	48	85	45	6	6	-	-	10	10	1500	1	*
	Felixstowe ...	03·9	-10	SSE	4	Z_0	47	92	44	6	5	-	-	9+	9+	1600	1	3
	Gorleston ...	04·3	-2	S'W	5	Z_0	47	92	45	6	5	-	-	10	10	1000	1	4
	Mildenhall ...	01·6	-10	SE'S	4	b-bc	47	85	44	7	5	3	-	2-3	2-3	2500	1	*
	Cranwell ...	99·6	-12	SE	4	Z_0	43	97	43	6	-	7	8	0	9	-	1	*
3	Birmingham ...	96·2	-16	SE	4	c	47	92	45	7	6	2	-	9	10	800	1	*
	Upper Heyford	97·8	-18	S'W	5	Z_0	48	85	44	6	5	-	-	10	10	1600	1	*
4	Ross-on-Wye	94·4	-28	SE'S	4	rr	49	85	45	6	-	2	-	10	10	1000	1	*
5	Hartland Point	88·4	-36	SE	6	rr	50	92	48	7	6	2	-	9	10	800	1	5
	Bristol ...	95·1	-30	SSE	4	r_0r_0	51	85	47	6	5	2	-	7-8	10	2600	1	*
	Portland Bill ...	97·8	-16	SE	5	0	51	92	48	7	5	-	-	10	10	2500	1	5
	Plymouth ...	92·3	-30	SSE	8	rr	50	97	50	6	5	-	-	10	10	1200	1	5
	The Lizard ...	86·2	-48	SSW	9	rr	50	97	50	6	5	-	-	10	10	1000	1	6
	Scilly (St. Mary's)	83·7	-24	S'W	7	rr	52	97	51	6	6	2	-	7-8	10	450	1	6
	Guernsey ...																	
6	Pembroke ...	85·0	-36	SSE	8	rr	51	92	49	6	8	-	-	10	10	1500	1	5
7	Holyhead (Valley)	87·1	-34	SE'S	8	r_0r_0	50	85	46	6	6	2	-	4-6	10	900	1	6
	Chester (Sealand)	92·7	-24	SSE	4	c	50	75	43	7	5	2	-	2-3	10	2500	1	*
8	Manchester ...	94·5	-22	SE'E	5	c	49	75	42	8	5	7	-	4-6	9+	2000	1	*
10	Spurn Head ...	00·7	-4	SSE	5	bc	45	92	44	6	7	-	-	4-6	4-6	2500	1	4
	Catterick ...	96·7	-18	SE'S	4	m	45	97	45	4	5	-	-	10	10	400	1	*
	Tynemouth ...	96·4	-14	SE	6	b	47	92	44	7	-	4	-	0	1	-	1	4
11	St. Abbs Head	95·0	-8	SE	4	bc	43	97	43	7	5	-	-	4-6	4-6	2500	1	3
	Leuchars ...	93·6	-8	ESE	4	b	43	92	42	7	-	-	-	0	0	—	1	*
12	Renfrew (Abbots I.)	90·1	-22	ESE	3	Z_0	48	75	41	5	5	1	-	7-8	9	2000	1	*
	Eskdalemuir ...	92·2	-10	SSE	4	c	44	85	41	6	5	-	-	9	9	1700	1	*
	Point of Ayre ...	88·3	-28	S'E	6	c	49	92	47	7	6	2	-	7-8	10	1000	1	5
13A	Tiree	82·6	-28	SSE	8	c	49	92	47	8	5	-	-	10	10	2000	1	6
13B	Stornoway ...	86·6	-18	SE	6	b-bc	49	85	43	8	8	-	-	2-3	2-3	2500	1	*
15	Dalwhinnie ...	90·3	-10	SE	4	c-bc	41	92	39	7	5	-	-	7-8	7-8	2000	1	*
	Aberdeen † ...	95·1	-6	SSE	4	c-bc	47	85	43	7	5	-	-	7-8	7-8	2500	1	4
	Wick ...	93·8	+2	SE	5	c-bc	47	85	43	9	5	7	-	4-6	7-8	2000	1	*
16	Sumburgh ..	98·6	+6	SE	6	ir_0	48	92	45	6	5	2	-	9	10	1000	1	5
17	Blacksod Point	69·7	-26	SSE	6	$6r_0$	49	97	48	7	6	2	-	4-6	10	1500	2	5
18	Malin Head ...	77·8	-46	S'E	7	r	50	75	43	8	8	2	-	7-8	10	2500	2	5
	Aldergrove ...	82·8	-34	SSE	7	r_0r_0	49	85	45	6	5	-	-	10	10	1700	1	*
19	Birr Castle ...	75·3	-50	S	6	ir	51	97	50	7	6	2	-	7-8	10	800	1	*
20	Valentia Obsy.	73·8	+28	SSW	5	b-bc	50	85	46	8	2	-	-	2-3	2-3	2500	1	5
	Roches Point	77·0	0	S'W	6	c/r	52	92	50	7	6	2	-	4-6	9	1500	1	6

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

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
	13h. G.M.T. 15th December			18h. G.M.T.			01h. G.M.T. 16th December			07h. G.M.T.		
109	62	03636	45668	62	31635	45668	50	02644	46564	5-	02646	46526
115	87	14844	79626	87	02844	12287	74	01954	45525	54	01963	45514
203				53	02953	08325	50	02956	12416	50	01954	08314
206	57	02964	43668	57	02864	14227	5-	01964	12414	50	01863	12413
210	5-	21745	43568	53	02863	14267				00	00890	12300
220	51	02845	13467									
230	52	61956	00068	5-	02745	16125	5-	02855	12265	8-	25857	16387
245	62	62636	12668	56	02642	15265	50	05673	12413	00	05620	45500
260	57	22866	12268	5-	05675	09115	50	05663	12223	56	05654	09214
278	87	02844	13467	52	64745	14428	8-	82757	13487	5-	02858	43728
279	·			57	05651	11323	50	01762	12212	87	02764	14626
285				23	05634	18325				--	46109	08449
288	52	64645	14268	07	05590	97346	03	05690	14311	57	05652	46516
575	53	08521	5213	8-	81847	47487	50	01852	16313	62	64637	43668
301	15	05561	14364	50	05553	16313	50	01761	18521	02	05690	14628
321	77	14367	97048	07	05590	13325	86	05653	14465	5-	05655	48315
299	5-	62558	20368	50	05663	16313				20	01763	18513
292	52	22446	12267	03	08490	12313	03	05590	13425	5-	05656	13416
310	--	01626	16316	--	01635	20315				--	02628	20528
614	53	05644	16167	00	05690	14222				52	05690	14527

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
	13h. G.M.T. 15th December			18h. G.M.T.			01h. G.M.T. 16th December			07h. G.M.T.		
333	44	01863	47414	57	02754	49468	20	01754	15584	52	62645	47668
334	--	02653	20314	--	02743	20315						
340	27	02654	15325	53	05655	16625	5-	05653	14413	62	05665	47667
136	57	05654	19267	07	22590	18364	50	05633	17403	57	05653	16415
336	13	01753	20414	20	25754	20484				52	25674	20588
350	27	05663	18267	40	05642	15413	57	25653	16485	57	05653	14425
368	10	02755	15525	84	25756	16487	03	01790	20284			
379	17	05642	18327	5-	02747	16427	80	25522	16484	5-	05548	47588
390	52	43334	16168	33	08443	15144	5-	22744	16366	5-	08455	16465
382	27	02862	16225				02	64768	15488	57	02745	14568
438	57	02754	22416	8-	02755	20415	50	01755	20515	52	20755	20628
430	50	02754	18425	50	01654	49524				5-	02745	51627
409	87	02854	51527	36	01841	17563	51	01744	47614	02	66648	48368

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 December.
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	$cr_0r_0rm_0$	cm_0	$cwrcm_0$	0·3	7-9h on 15th
Croydon ...	cm_0	cm_0bcm_0	bcm_0ir_0		
Greenwich ...	r_0c ⊕	cb	bcrc		
Camden Square	c	c	*		
Kensington ...	bcc_0ir	or_0	*		
Hampstead ...	or	rcor	o	0·1	0-6h on 16th

Stations.	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h %	Humidity 9h % Today
Kew	50	47	39	2	1	0·4	*	*
Croydon ...	51	46	41	1	1	0·1	*	*
Greenwich ...	50	46	37	Tr	0·5	0·1	80	85
Westminster ..	52	48	41	1			78	86
Regents Park ...	52	47	43	Tr	0·5		70	79
Camden Square	50	48	42	-	1	*	*	84
Kensington ...	52	49	38	Tr	0·4		83	86
Hampstead ...	49	46	41	1	1		*	89

BRITISH SECTION

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

SECRET

Thursday 17th December 1942

No. 29610

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	98·1	-20	S'E	4	ido	48	85	44	6	6	2	-	7·8	10	800
	Croydon ...	99·2	-20	SSE	5	ro	47	92	45	6	6	2	-	7·8	10	800
	S. Farnborough	97·5	-18	SSE	4	dr	47	97	45	5	6	2	-	10	10	500
	Boscombe Down	95·4	-24	SSE	6	rr	47	92	45	6	6	2	-	9+	10	400
	Thorney Island	98·6	-14	SSE	6	dodo	48	97	47	6	5	-	-	10	10	1500
	Lympne ...	02·6	-8	SSE	5	ro	46	92	43	6	5	-	-	9	10	1500
	Manston ...	02·3	-16	S	5	ro	47	85	43	7	6	2	-	4-6	10	800
2	Shoeburyness ...	02·5	-14	S	5	iro	48	85	44	8	6	2	-	7·8	10	1500
	Felixstowe ...	02·1	-14	S'E	6	zo	48	85	44	6	5	-	-	10	10	4000
	Gorleston ...	02·2	-16	S	6	c-bc	46	92	43	7	5	7	-	4-6	7·8	1500
	Mildenhall ...	99·4	-14	SSE	5	iro	49	85	43	7	5	2	-	10	10	2000
	Cranwell ...	96·6	-14	SSE	6	ro	47	92	45	6	6	2	-	7·8	10	800
3	Birmingham ...	93·3	-12	SSE	4	iro	46	92	44	7	6	-	-	10	10	800
	Upper Heyford	95·3	-14	S'E	5	ro	46	92	44	8	5	-	-	10	10	1200
4	Ross-on-Wye	91·7	-14	S'E	5	rr	49	92	47	6	6	-	-	10	10	800
5	Hartland Point	88·5	+8	SW	5	bc	54	85	48	6	3	4	-	2-3	4-6	1500
	Bristol ...	93·6	-8	SSE	6	rr	50	92	49	6	-	2	-	10	10	800
	Portland Bill ...	95·2	-16	SE	7	rr	52	92	50	7	5	-	-	10	10	2500
	Plymouth ...	91·6	+2	SSW	7	zo	55	92	53	6	8	-	-	7·8	7·8	2500
	The Lizard ...	91·4	+24	SW	6	c-bc	55	85	51	6	8	6	-	7·8	7·8	1500
	Scilly (St. Mary's)	88·0	+10	SW'S	5	bc	54	75	47	6	8	3	3	2-3	4-6	1200
	Guernsey ...															
6	Pembroke ...	87·1	+20	SW	6	bcq	53	85	48	7	8	-	-	4-6	4-6	2000
7	Holyhead (Valley)	85·0	+14	S'E	7	b-bc/r	50	97	49	7	8	-	-	2-3	2-3	2000
	Chester (Sealand)	90·1	+8	SSE	4	ro	48	85	46	6	6	2	-	7·8	10	1200
8	Manchester ...	91·1	-22	SE	6	t	49	85	44	7	5	7	-	7·8	9+	800
10	Spurn Head ...	97·7	-16	S'E	7	c	47	85	42	7	5	2	-	7·8	10	1500
	Catterick ...	93·0	-20	SSE	5	ro	47	97	45	4	5	2	-	9	10	300
	Tynemouth ...	92·5	-20	SSE	6	ro	48	92	45	6	-	2	-	10	10	2000
11	St. Abbs Head	89·2	-28	SE	6	ro	46	97	45	6	5	-	-	10	10	1500
	Leuchars ...	89·5	-28	ESE	5	c/r	47	92	45	7	8	7	-	1	10	1000
12	Renfrew (Abbotsl.)	85·0	-30	SE	4	ro	49	75	43	6	5	-	-	4-6	10	1400
	Eskdalemuir ...	87·6	-20	SSE	6	rr	45	92	43	6	-	2	-	10	10	900
	Point of Ayre ...	81·4	-8	S'W	6	ro	48	97	48	7	8	-	-	10	10	1500
13A	Tiree	78·8	+4	SSE	8	ido	49	97	49	6	6	2	-	4-6	10	800
13B	Stornoway ...	81·5	-26	SE	6	c	50	85	45	8	5	7	-	4-6	10	4000
15	Dalwhinnie ...	85·0	-10	SSE	4	rr	43	92	41	6	5	2	-	7·8	10	1500
	Aberdeen ...	92·1	-20	S'E	6	zo	48	85	45	6	5	-	-	10	10	1000
	Wick ...	91·4	-14	SE	8	c	47	85	44	7	5	-	-	4-6	10	900
16	Sumburgh ...	97·2	-12	SE	7	c	48	92	46	8	5	2	-	9+	10	900
17	Blacksod Point	72·6	+10	S'W	5	bc	52	97	51	8	8	5	-	4-6	4-6	1500
18	Malin Head ...	76·6	+6	S'E	4	c-bc	53	75	46	8	6	2	-	4-6	7·8	1500
	Aldergrove ...	80·1	0	S'E	3	b-bc	52	85	49	7	2	7	-	1	2-3	1800
19	Birr Castle ...		Observations	not	taken.											
20	Valentia Obsy.	76·7	+12	S'W	6	bc/pr	52	75	45	8	2	-	3	4-6	4-6	2500
	Roches Point	81·1	+14	SW	5	c-bc/pr	51	85	47	8	3	3	3	4-6	7·8	1500

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

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)	97·7	+4	S	4	zo	50	92	47	6	5	2	-	7·8	10	1500	1	*
	Croydon ...	99·0	+2	SSE	3	o/d	49	92	47	5	5	-	-	10	10	900	1	*
	S. Farnborough	97·4	+4	SSW	4	c/d	49	92	47	7	5	-	-	9+	9+	1100	1	*
	Boscombe Down	96·3	+6	SSE	5	c	50	97	49	7	-	-	-	2-3	9	1000	1	*
	Thorney Island	98·0	+2	S	5	ido	51	85	47	7	5	-	-	7·8	7·8	2500	1	*
	Lympne ...	00·7	-2	SSE	4	zo	47	92	45	6	5	-	-	10	10	2000	1	5
	Manston ...	00·7	-2	S'W	5	o/r	45	97	45	6	5	-	-	10	10	2000	1	*
2	Shoeburyness ...	00·8	-2	SSE	5	c	48	85	44	7	5	-	-	10	10	1500	1	*
	Felixstowe ...	00·5	-2	S'E	6	o/r	46	92	44	6	5	-	-	10	10	1500	1	5
	Gorleston ...	00·6	0	S	6	ro	47	85	42	7	6	-	-	10	10	1500	1	5
	Mildenhall ...	98·0	+2	S'E	5	c	48	85	44	7	5	2	-	9	10	1100	1	*
	Cranwell ...	96·1	+8	SSE	4	zo	46	97	45	6	6	2	-	7·8	10	800	1	*
3	Birmingham ...	93·9	+4	SE	3	c	48	92	46	7	6	7	-	4-6	9	800	1	*
	Upper Heyford	95·6	+2	S'W	5	pr	49	97	47	6	5	-	-	9	9	800	1	*
4	Ross-on-Wye	92·7	+6	SSE	4	c/pr	51	85	48	7	8	-	8	7·8	9+	2000	1	*
5	Hartland Point	90·6	+8	SW	5	c-bc	52	85	47	7	3	4	1	4-6	7·8	2000	1	4
	Bristol ...	94·3	+4	SW	2	zo	52	85	48	6	8	3	-	7·8	9	2500	1	*
	Portland Bill ...	96·2	+4	S	6	c-bc	52	92	50	7	5	-	-	7·8	7·8	4000	1	6
	Plymouth ...	92·7	+6	SW'S	5	fs	54	92	52	6	5	7	-	7·8	9+	1000	1	4
	The Lizard ...	91·2	-2	SW	6	bc	53	92	51	7	5	-	-	4-6	4-6	1500	1	5
	Scilly (St. Mary's)	87·8	-2	S'W	6	c	53	85	49	8	5	7	-	4-6	9+	1000	1	6
	Guernsey ...																	
6	Pembroke ...	88·5	+8	S'W	6	b-bcq	52	85	49	7	5	4	-	1	2-3	2500	1	5
7	Holyhead (Valley)	87·3	+8	S	6	zo	51	85	47	6	1	-	-	1	1	2500	1	5
	Chester (Sealand)	90·6	+8	SE	4	c-bc	49	85	46	7	4	6	-	4-6	7·8	3000	1	*
8	Manchester ...	92·0	+8	SE	4	iro	49	85	44	6	5	3	-	4-6	9	1500	1	*
10	Spurn Head ...	96·7	+2	S'E	6	c	47	85	43	7	5	2	-	7·8	10	1500	1	5
	Catterick ...	93·2	+12	SSE	4	iro	47	97	45	4	6	2	-	7·8	10	600	1	*
	Tynemouth ...	91·9	+8	S	6	cq	48	92	46	6	6	-	-	10	10	1500	1	4
11	St. Abbs Head	90·1	+10	SE	5	c	47	92	45	7	5	-	-	9+	9+	2500	1	5
	Leuchars ...	88·9	+6	SE	4	c	48	85	44	6	5	7	-	4-6	10	1800	1	*
12	Renfrew (Abbotsl.)	86·8	+28	SE	3	zo	49	85	43	6	5	3	-	2-3	2-3	2000	1	*
	Eskdalemuir ...	88·8	+4	SE'S	3	c	45	92	43	6	5	-	-	9+	9+	1600	1	*
	Point of Ayre ...	87·4	+14	SSW	4	c-bc/r	50	92	48	7	8	-	-	7·8	7·8	1000	1	4
13A	Tiree	80·6	+16	SSE	5	bc	51	92	49	7	4	4	3	1	4·6	4000	1	
13B	Stornoway ...	82·2	+10	SE	5	c	51	85	46	8	5	-	-	9+	9+	4000	1	*
15	Dalwhinnie ...	86·8	-2	SSE	3	o	45	85	40	7	5	-	-	10	10	1500	1	*
	Aberdeen ...	90·6	-2	SSE	5	o/r	47	92	45	6	5	-	-	10	10	800	1	5
	Wick ...	89·2	0	SE	7	ro	47	85	44	8	5	-	-	7·8	10	1000	1	*
16	Sumburgh ...	93·5	-10	SE	7	o/d	47	92	45	7	5	-	-	10	10	900	1	5
17	Blacksod Point	73·2	+4	S	6	c-bc	51	97	50	8	9	-	6	4-6	7·8	1500	1	5
18	Malin Head ...	79·2	+24	S	3	b-bc	48	75	41	8	2	-	-	2-3	2-3	2500	2	3
	Aldergrove ...	82·7	+10	S'E	4	bc	49	85	44	7	-	7	-	0	4-6	-	1	*
19	Birr Castle ...	80·5	+2	SSW	4	c	48	75	41	8	5	-	-	9	9	2500	1	*
20	Valentia Obsy.	75·6	-6	S'E	6	c	53	85	49	8	5	-	-	9+	9+	2500	1	5
	Roches Point	81·1	0	S	6	b-bc	50	85	46	8	3	-	-	2-3	2-3	1500	1	

PAST 24 HOURS.

District	Stations	Weather 7h.—13h. 16th (39)	Weather 13h.—18h. 16th (40)	Weather 18h. 16th to 1h. 17th (41)	Weather 1h.–7h. 17th (42)
1	London (Kew)	roiroido	cidodoc	cmo	crodoro
	Croydon ...	cmocroromo	cmoroido	omoidom	cmoiro
	S. Farnborough	cmorordomo	ciroidomoc	iroemociro	cirorromo
	Boscombe Down	crrmo	crrmociromo	ccpromoc	cirmo
	Thorney Island	prrdodo	ccido	ido cbc	cirdo
	Lympne ...	cmocroro	croromo	cmo	cmoido
	Manston ...	c	ciroiromo	romo	rodommo
2	Shoeburyness ...	cmociro	ciroc	c	cmo
	Felixstowe ...	cmo	croroemo	bc,cmo	cmoiroemo
	Gorleston ...	cq	ororo	oro bc zo	czo
	Mildenhall ...	bccqciro	ciroc	c	cbc
	Cranwell ...	croro	roroemo	cmo	cmo
3	Birmingham ...	orR.	oirc	cRo	o
	Upper Heyford	moemocoro	croroemo	proemoc	cmoiromo
4	Ross-on-Wye	rq	rocpobcp	c	crro
5	Hartland Point	crrirbc	bccpr	cproPR	cprroc
	Bristol ...	croromo	ccrc,bbc	cmo,proemo	cirrorom
	Portland Bill ...	orr	oc	c	Rrc
	Plymouth ...	crrroromo	cmo	cmopro	cproemo
	The Lizard ...	rrqc	cbc	crr lc	cprbc
	Scilly (St. Mary's)	crbc	bcc	c	bcciro
	Guernsey ...				
6	Pembroke ...	cbcmmq	cmobcq	cbcproq	cq
7	Holyhead (Valley)	orrmob	bcmo	bpro c	prob
	Chester (Sealand)	cmororo	cproc	cbc	ciromo
8	Manchester ...	croroc	cmoiro	iromobc	irobcmo
10	Spurn Head ...	c	cproc	c	bcc
	Catterick ...	cmcmorom	oirom	cm	cm
	Tynemouth ...	bccmorrp	ororoq	ocq	bc
11	St. Abbs Head	bcororoq	cmoroorro	bcmocbbc	bccmoc
	Leuchars ...	bcciromoc	crrmocmo	emobcmoc	cmoiroirc
12	Renfrew (Abbotsl.)	czczororo	roromo	bcmororopro	proroirc
	Eskdalemuir ...	crrmo	crrroc	bcmo	bccmo
	Point of Ayre ...	rrroro	roroirc	cir.	crrc
13A	Tiree	crrido	cidobc	bccbcbccproc	
13B	Stornoway ...	c	croroc	cbcb, cpro	cb
15	Dalwhinnie ...	crro	orr	*	ocrro
	Aberdeen ...	cczo	crorozo	cmo	cmo
	Wick ...	cmoc	cciro	bcb	bc
16	Sumburgh ...	ciroc	cido	cmoiro	cmoiroddoc
17	Blacksod Point	bc	bc	pr	pr
18	Malin Head ...	r	c	bc	r
	Aldergrove ...	croroobc	bbc	bccprocb	bcbccbc
19	Birr Castle ...		c	*	b
20	Valentia Obsy.	pr	c	pr	pr
	Roches Point	pr	r	bc	bc

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

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate to light southerly wind, veering tomorrow; cloudy, further occasional rain at first, bright periods, a few local showers, becoming less mild.
4 W. Midlands 5 S.W. England ↓ 6 South Wales ↓ 7 North Wales ↓	Moderate to fresh southwest winds, veering towards west, strong at times on coast; bright periods, occasional squally showers; less mild.
8 N.W. England ↓ 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Light to moderate southeast winds, veering southerly; cloudy occasional rain today, bright periods tomorrow, rather mild.
12 S.W. Scotland & Isle of Man ↓ 13A W. Scotland ... ↓ 13B N.W. Scotland ↓	Moderate to fresh southerly wind, strong locally on the coast; some showers, brighter intervals later; rather mild.
14 Mid Scotland 15 N.E. Scotland ↓	Fresh to strong SE winds, veering later towards south; cloudy, occasional rain; bright intervals later, rather mild.
16 Orkneys and Shetlands ↓	As 14-15
17 N.W. Ireland ↓ 18 N.E. Ireland ↓ 19 S.E. Ireland ↓ 20 S.W. Ireland ↓	Wind veering southwest to west, fresh to strong at times on the coasts; squally showers occasionally; bright periods, becoming colder.

GENERAL INFERENCE

A deep depression on the Northeast Atlantic is filling up but an associated small trough over England is only moving slowly east. There will be further occasional rain at first in North and East England and South and East Scotland but brighter rather showery conditions will slowly spread in from the West. Conditions will still be mainly mild but will become less close.

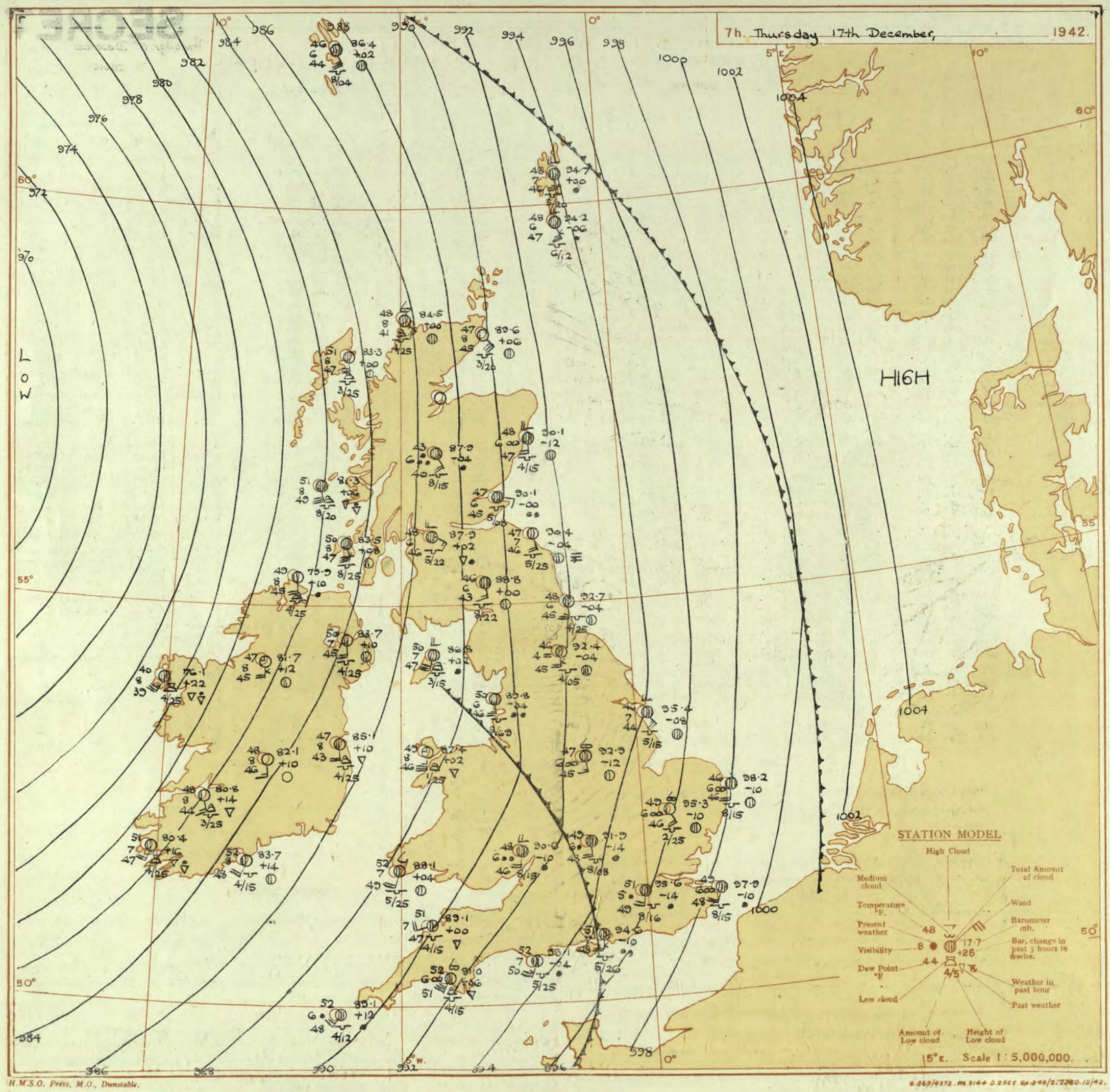
FURTHER OUTLOOK

An interval of fairer conditions generally with some drop in temperature.

Warning of southerly gale in operation in districts 5, 6, 7, 8, 12, 13a and b, 15, 16, 17, 18, 19, 20 and Dogger Bank. Times of issue 1025, 15th Dec, 1110, 14th Dec, 1930 12th Dec, 0145 16th Dec, 0510 16th Dec. Severe warnings issued 0510 G.M.T. 16th to districts 8, 12, 13, 15, 16 and 18.

Forecasts issued at

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.

6.369/4372. M.8144. D.2560. G.248/2.7780. 12/42.

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).

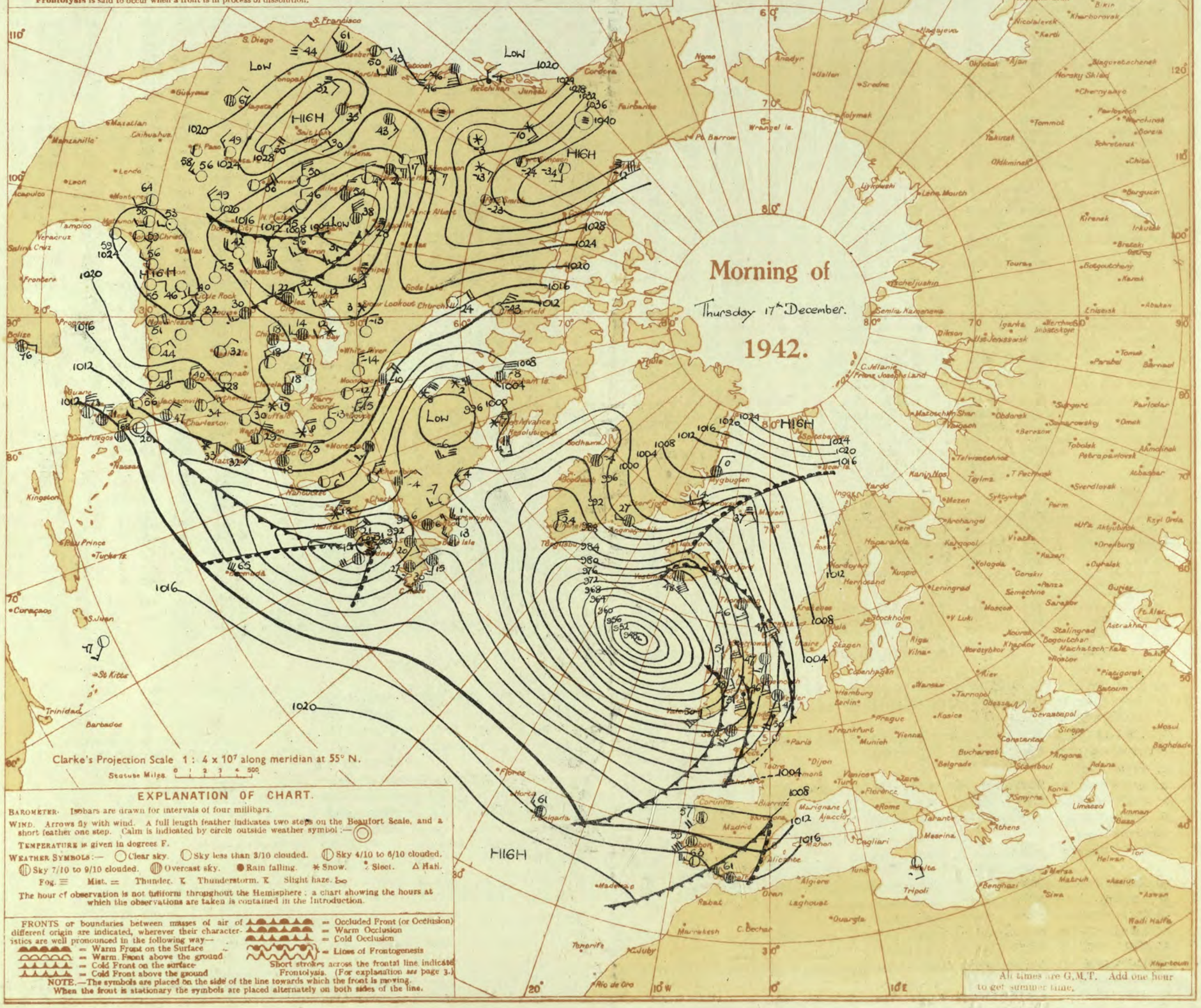
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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 17th December. 1942

No 29610

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

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	*	*	*	*	*	50	*	*	*	*	*	*	*	*	*
	Croydon	290	98.5	-6	S	4	ido	50	92	49	5	5	-	-	10	10	1500
	S. Farnborough	226	96.5	-8	S	3	iro	51	92	48	7	5	-	-	10	10	1100
	Boscombe Down	417	95.3	-10	SE	5	zo	51	97	50	6	5	-	-	10	10	700
	Thorney Island	10	96.8	-8	S	5	c-bc	51	92	49	7	5	4	-	4-6	7-8	1300
	Lympne	283	99.1	-10	S	4	zo	48	92	47	6	5	-	-	10	10	2500
	Manston	154	99.6	-6	S'W	4	roro	48	97	47	6	5	-	-	10	10	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	99.3	-6	SSE	4	zo	47	92	45	6	5	-	-	9	9+	1600
	Gorleston	5	99.9	-4	S	4	c	47	85	43	6	5	-	-	4-6	10	1500
	Mildenhall	15	97.7	-8	SE'S	4	c	49	85	46	7	5	-	-	9+	9+	2300
	Cranwell	203	96.4	0	SSE	4	zo	46	97	46	5	5	-	-	10	10	600
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	94.9	-8	S	3	zo	49	92	47	6	5	-	-	9	9	1200
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	89.7	-8	SW	4	c/pr	51	85	46	7	3	-	-	9+	9+	1500
	Bristol	209	93.6	-8	S	4	pr	52	85	48	6	8	-	-	2-3	2-3	2500
	Portland Bill	32	95.3	-4	SE	5	c/c	53	92	51	7	5	-	-	10	10	4000
	Plymouth	82	91.3	-12	S	6	c/pr	53	92	51	6	8	-	-	9	9	1500
	The Lizard	240	89.8	-8	SW'W	6	c/r	51	92	49	7	8	2	-	7-8	10	1500
	Scilly (St. Mary's)	163	87.9	+2	S'W	5	c	52	85	48	6	5	2	-	7-8	10	1500
	Guernsey	175															
6	Pembroke	142	87.7	-8	S'W	5	c	53	85	49	7	5	-	-	9+	9+	2500
7	Holyhead (Valley)	32	87.5	0	S	7	pr	51	85	46	6	2	-	-	9	9	2800
	Chester (Sealand)	16	91.0	-6	SE'E	3	c	50	85	46	7	5	7	-	4-6	9+	4000
8	Manchester	235	92.8	-6	SEE	4	ebc	50	85	45	8	5	3	-	4-6	7-8	4300
10	Spurn Head	29	96.8	0	SSE	4	c-bc	46	92	43	7	7	3	-	4-6	7-8	2500
	Catterick	175	93.7	0	SSE	3	m	48	97	46	4	5	-	-	10	10	500
	Tynemouth	108	93.1	+2	S	5	eq	48	92	46	6	8	-	-	9	9	1500
11	St. Abbs Head	280	90.8	0	SE	4	bc	45	97	44	7	5	-	-	4-6	4-6	4000
	Leuchars	36	90.8	+2	ESE	2	c	46	92	44	7	7	-	-	1	9+	3000
12	Renfrew (Abbots I.)	19	87.9	-2	SE'S	3	pr	49	85	44	6	8	7	-	7-8	9+	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	87.6	+2	S'E	6	c	50	92	47	7	6	2	-	7-8	10	800
13A	Tiree	44	81.0	-4	SSE	6	bc	50	92	48	8	-	3	1	0	4-6	-
13B	Stornoway	15	83.4	+4	SSE	6	pr	51	85	46	8	3	6	3	4-6	7-8	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	91.7	+6	S	4	c	47	92	45	6	5	2	-	7-8	10	1000
	Wick	114	89.5	+6	SE'S	6	b	46	92	44	9	-	-	-	0	0	-
16	Sumburgh	19	94.2	-4	SE	6	iro	47	97	47	6	5	2	-	9	10	700
17	Blacksod Point	18	72.7	+2	ESE	7	bc/pr	52	97	51	8	9	-	-	4-6	4-6	1500
18	Malin Head	84	79.6	+2	SSE	4	c-bc	48	85	44	8	2	-	-	7-8	7-8	2500
	Aldergrove	268	82.8	0	SSE	4	b	49	85	43	8	-	4	1	0	1	-
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	77.7	+6	S'W	5	b-bc	50	85	46	7	1	-	1	2-3	2-3	2500
	Roches Point	22	81.8	+6	SSW	6	bc	51	85	47	8	5	-	-	4-6	4-6	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	°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)	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)	94.4	-14	SSE	4	roro	51	92	47	6	6	2	-	7-8	10	1500	1	*	50	49	46	1	0.2	0.0
Croydon	95.6	-14	S	4	iro	51	92	49	5	5	-	-	10	10	1600	1	*	49	49	46	5	1	0.0
S. Farnborough	99.3	-14	SE	4	roro	51	92	48	6	5	-	-	10	10	1500	1	*	50	49	46	5	1	0.0
Boscombe Down	92.2	-10	S	5	c-bc/c/d	50	97	48	6	5	7	-	4-6	7-8	1000	1	*	50	49	46	11	2	0.0
Thorney Island	94.6	-10	S	4	c/d	51	85	48	7	5	-	-	7-8	10	2600	1	*	51	47	45	4	0.3	*
Lympne	97.2	-6	S'E	4	iro	49	92	47	6	5	-	-	10	10	1000	1	5	48	46	46	3	0.2	0.0
Manston	97.4	-10	SSW	4	zo	49	97	48	6	5	-	-	10	10	1500	1	*	48	45	45	3	0.1	0.0
Shoeburyness	98.4	-8	S	4	zo	49	85	46	6	5	-	-	10	10	1500	1	*	49	47	45	2	-	0.0
Felixstowe	97.3	-6	SSE	5	zo	48	92	47	6	5	-	-	10	10	1600	1	4	48	46	43	1	Tr	0.0
Gorleston	98.2	-10	S	4	zo	48	92	46	6	5	-	-	10	10	1500	1	4	48	46	44	0.5	0.5	0.0
Mildenhall	95.3	-10	SE'S	4	zo	49	85	46	6	5	7	-	1	2-3	2500	1	*	49	47	42	Tr	-	0.0
Cranwell	94.0	-14	SE'S	4	zo	47	97	47	6	5	-	-	10	10	500	1	*	47	45	43	1	-	0.0
Birmingham	91.6	-10	SE	3	ir	48	92	46	6	6	-	-	10	10	800	1	*	48	47	45	8	4	
Upper Heyford	91.9	-14	S'E	4	iro	49	97	48	6	5	-	-	10	10	800	1	*	49	48	45	0.2	0.3	*
Ross-on-Wye	90.6	-10	S	2	roro	48	92	46	6	-	2	-	10	10	1500	1	*	52	48	46	15	6	0.0
Hartland Point	89.1	0	SW	4	bc	51	85	48	7	5	-	-	4-6	4-6	1500	1	4	55	49	46	3	2	1.3
Bristol	92.1	-2	S	2	o/r	45	97	47	6	5	-	-	10	10	2500	1	*	53	48	46	7	3	0.0
Portland Bill	93.1	-4	SSW	5	c-bc	52	97	50	7	5	-	-	7-8	7-8	2500	1	5	52	49	*	2	11	*
Plymouth	91.0	+6	SSW	6	zo	52	97	47	6	8	7	-	4-6	7-8	1500	1	4	55	49	48	7	8	0.5
The Lizard	90.7	+12	WSW	5	bc	51	85	47	7	3	-	-	4-6	4-6	1500	1	5	55	49	*	1	5	1.5
Scilly (St. Mary's)	89.1	+12	SW'S	4	iro	52	85	48	6	5	7	-	4-6	7-8	1200	1	5	54	51	*	0.4	7	2.0
Guernsey																							
Pembroke	88.1	+4	S'W	4	c-bc	52	92	49	7	5	4	-	7-8	7-8	2500	1	5	54			-	6	0.0
Holyhead (Valley)	87.4	+2	S	7	b	49	85	46	8	2	-	-	Tr	Tr	2500	1	5	53	48	46	4	0.3	*
Chester (Sealand)	89.8	-6	S	1	iro	50	85	49	6	-	2	-	10	10	1500	1	*	50	43	41	3	1	0.0
Manchester	91.0	-6	SE'E	4	zo	50	85	45	6	5	7	-	4-6	9	4000	1	*	50	49	45	1	0.1	*
Spurn Head	95.4	-8	SE'S	5	c	46	92	44	7	5	2	-	7-8	10	1500	1	4	47	45	*	0.5	-	
Catterick	92.4	-4	SSE	4	m	46	97	45	4	5	-	-	4-6	4-6	500	1	*	47	44	43	4	Tr	0.0
Tynemouth	92.7	-4	S	5	bc	48	92	45	6	5	-	-	4-6	4-6	2500	1	4	49	48	45	2	-	*
St. Abbs Head	90.4	-4	SE	4	c-bc	47	97	46	7	5	-	-	7-8	7-8	2500	0	4	47	44	*	4	-	
Leuchars	90.1	0	ESE	2	c/r	47	92	45	6	5	-	-	7-8	10	800	1	*	49	45	35	5	0.1	*
Renfrew (Abbots I.)	87.9	+2	ESE	3	c/r	48	92	46	6	5	2	-	7-8	9+	2200	1	*	50	47	42	2	3	0.0
Eskdalemuir	88.8	0	SSE	3	c	46	85	43	6	5	-	-	10	10	2200	1	*	47	43	39	11	-	0.0
Point of Ayre	86.8	+2	S'W	6	c-bc	50	85	47	7	8	2	-	2-3	7-8	1500	1	5	51	49	*	12	2	0.0
Tiree	81.3	+6	SSE	6	c/pr	51	92	49	8	8	-	-	10	10	2000	1	6	51	51	48	4	Tr	0.2
Stornoway	83.3	0	SSE	6	b-bc	51	85	47	8	8	-	-	2-3	2-3	2500	1	*	52	49	*	1	Tr	0.0
Dalwhinnie	87.9	-4	SE	4	rr	43	92	40	6	5	-	-	10	10	1500	1	*	45	42	40	24	11	0.0
Aberdeen †	90.1	-12	S	4	zo	48	97	47	6	5	2	-	4-6	10	1500	1	5	48	47	44	4	-	0.0
Wick	89.6	+6	SE	3	b-bc	47	92	45	8	5	-	-	2-3	2-3	2000	1	*	48	46	44	1	Tr	*
Sumburgh	94.2	-6	S'E	5	c	48	97	47	6	5	2	-	9	10	1200	1	5	48	45	45	Tr	1	0.0
Blacksod Point	76.1	+22	SW	7	c-bc/pr	50	97	39	8	9	-	-	7-8	7-8	1500	2	5	54	47	*	1	7	
Malin Head	79.9	+10	S'E	4	bc	49	85	45	8	8	-	-	4-6	4-6	2500	2	4	(53)	46	<	3	0.3	1.5
Aldergrove	83.7	+10	S'E	4	bc	50	85	45	7	5	-	-	4-6	4-6	2500	1	*	52	46	40	6	-	2.1
Birr Castle	82.1	+10	S	3	b	48	92	46	8	-	-	-	0	0	-	1	*	55	47	44	0.4	-	2.3
Valentia Obsy.	80.4	+6	SSW	4	bc/pr	51	85	47	7	3	-	-	4-6	4-6	2500	1	4	53	49	46	Tr	8	0.0
Roches Point	83.7	+14	SWS	4	bc	52	85	48	8	5	-	-	4-6	4-6	1500	1	*	53	50	*	1	●	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 16th December $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 17th December $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	62	02645	45828	52	63645	45768	67	02744	45625	52	02746	06528
115	52	14845	79728	52	61845	79868	54	01954	45425	87	02854	45625
203	5-	02848	08528	57	02954	12428						
206	57	02854	43528	53	22865	18365	84	01863	16524	80	02855	18325
210	5-	02848	45668	57	22843	47567	03	01990	12503			
220	62	66436	14668									
230	62	62654	10268	8-	25755	16285	8-	25856	16386	5-	02853	08223
245	5-	05624	14628	67	22645	47668	53	05635	12415	53	05634	12424
250	62	61744	45528	5-	61754	49464	03	05690	14214	57	05555	14127
278	62	62634	14668	6-	05637	14467	82	25846	14498	5-	02853	12483
279	62	62745	47768	5-	01764	14464	26	05653	10315	02	02766	14426
285				37	81634	12467				5-	05628	10428
288	62	62734	47668	6-	05635	47665	50	05643	46413	53	05653	47315
575	36	01853	18463	46	25851	18381	53	01844	16425	40	01841	49411
301	62	02747	47868	16	05653	14584	50	05661	14627	5-	22678	15568
321	62	62645	47768	62	51646	17458	53	05643	16415	50	05632	16312
299	8-	14757	16627	8-	61758	16628	50	05653	16513			
292	62	62636	46568	62	05636	46468	50	05642	12422	52	05654	
310	--	64628	16668									
614	62	62647	47568	57	05646	49367	57	05645	16426	07	05690	14315
333	6-	22644	50466	46	05653	16384	83	01744	47515	83	02754	15427
334	--	65537	20588	--	02743	24415				--	63647	20268
340	52	63637	47668	54	02643	15464	57	64545	16467	5-	62645	16468
136	57	61733	15527	5-	02838	16568	50	01734	15424	5-	51628	14358
336	57	02754	20427	57	02754	20416				--	67309	20469
350	57	22745	47568	52	05645	15357	5-	05645	47365	5-	05647	12327
368	8-	22754	20464	53	01653	20314	53	02763	17485	62	62635	16388
379	62	62836	47668	5-	05628	49428	5-	05637	49427	5-	81628	16488
390	62	64537	17468	62	62447	14368	5-	45324	16458	5-	45358	49468
382	52	61636	48567	53	02846	51327	5-	02845	49425	5-	61648	47558
438	82	64534	20768	5-	02747	20767				8-	61747	20687
430	5-	64537	47568	5-	02747	51627	5-	02745	51528	5-	05645	50588
409	24	01954	51615	50	02744	18685	52	64747	16668	57	01764	16404

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 17th December.
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	Atmospheric Pollution, Milligrams of solid impurity per cubic metre
Kew	biroido	Cidodoc	cMocrodoro	Kew 24 hours ended 7h. Max Time
Croydon	OMoCroroMo	CMororoido	OMoidoiro	
Greenwich	crro	croido	idobcrroc	
Camden Square	c	c	*	
Kensington	cpd	cdco	*	
Hampstead	or	or	od	Min. Time

Stations	Temperature Day Max °F	Night Min °F	Min on grass °F	Rainfall Day mm	Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	9h % To day
Kew	50	49	46	1	0.2	0.0	*	*
Croydon	49	49	46	5	1	0.0	*	*
Greenwich	49	49	42	1	1	0.0	93	90
Westminster	52	48	44		1		87	89
Regents Park	51	47	45	0.3	1		85	89
Camden Square	50	50	45	0.8	0.8	*	*	89
Kensington	51	50		0.5	0.8		87	91
Hampstead	48	45	44	0.7	1		*	95

SECRET

BRITISH SECTION

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

Friday 18th December 1942

No. 29611

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	94·8	+2	SW'S	4	zo	52	83	47	6	5	3	1	2-3	4-6	2500
	Croydon	93·6	0	S'E	4	c-bc	53	85	47	6	2	4	-	7-8	7-8	1800
	S. Farnborough	94·6	+2	SSW	3	c	51	85	47	7	8	7	5	7-8	9	1400
	Boscombe Down	94·2	+2	S'E	4	c-bc	50	85	46	8	8	7	3	4-6	7-8	2000
	Thorney Island	95·4	+2	SSW	4	c-bcjp	53	85	49	7	8	3	-	4-6	7-8	1500
	Lympne	97·1	+2	S	3	c/pr	51	85	48	8	8	7	-	7-8	9+	1500
	Manston	96·7	-2	SW	4	c/t	51	92	49	7	5	-	-	9+	9+	1200
2	Shoeburyness	96·7	-2	SSW	3	c	52	85	53	8	5	7	-	7-8	9	2500
	Felixstowe	95·7	-6	S'W	4	c/t	49	92	48	6	5	7	-	4-6	10	2500
	Gorleston	96·0	-12	S'W	5	zo	49	85	45	6	5	-	-	9+	9+	1000
	Mildenhall	94·4	-2	S'W	4	iro	52	85	46	6	5	2	-	2-3	10	3000
	Cranwell	92·6	-6	S'W	3	c/d	49	97	48	6	5	7	-	7-8	10	3500
3	Birmingham	92·4	+4	SSW	3	c	48	92	46	7	6	7	-	7-8	9+	800
	Upper Heyford	93·0	+8	SSW	3	c-bc	50	85	46	8	5	3	6	7-8	7-8	1800
4	Ross-on-Wye	91·7	0	SSW	3	c-bc	51	85	47	7	8	-	1	7-8	7-8	2500
5	Hartland Point	90·8	+4	SW	4	c-bc	52	85	47	7	3	6	-	4-6	7-8	1800
	Bristol	93·4	+2	S'W	3	c-bc	51	85	48	7	8	4	6	4-6	7-8	3000
	Portland Bill	93·7	+2	S	5	c	53	92	51	7	5	7	-	1	10	4000
	Plymouth	92·2	0	SSW	4	c-bc	52	85	49	7	3	6	2	4-6	7-8	2500
	The Lizard	92·7	+10	WSW	5	c-bc	54	85	48	8	8	6	-	7-8	7-8	2000
	Scilly (St. Mary's)	89·7	-4	SSW	4	cjp	53	75	46	6	8	6	-	7-8	9+	1200
	Guernsey															
6	Pembroke	89·7	+12	SW'S	4	pr	52	92	49	7	8	7	-	7-8	9+	2500
7	Holyhead (Valley)	88·6	+6	SSE	4	iro	49	97	48	7	6	2	-	4-6	10	1000
	Chester (Sealand)	89·9	-2	S	1	zo	51	85	47	6	5	3	-	2-3	7-8	2000
8	Manchester	91·1	+4	SSE	3	c/t	49	85	45	7	5	3	-	7-8	9	3000
10	Spurn Head	93·5	-6	SE'S	5	c	47	85	44	7	5	2	-	7-8	10	1500
	Catterick	90·7	-16	SSE	2	toro	49	97	47	5	5	2	-	9	10	500
	Tynemouth	91·9	-12	SE	4	o	47	92	45	6	5	-	-	10	10	2000
11	St. Abbs Head	91·1	-4	ESE	4	zo	46	97	46	6	5	-	-	10	10	1500
	Leuchars	90·2	-2	ESE	3	c/t	48	92	48	6	5	7	-	4-6	10	2000
12	Renfrew (Abbots I.)	88·4	-2	ESE	2	c/t	49	85	46	6	5	2	.	1	10	2000
	Eskdalemuir	89·0	0	SE	3	tot	45	97	44	6	-	2	-	10	10	1100
	Point of Ayre	87·8	0	SSW	4	iro	50	92	48	7	6	1	-	4-6	9+	1000
13A	Tiree	83·7	+6	SSE	5	c-bc	50	97	49	7	5	3	-	2-3	7-8	4000
13B	Stornoway	85·0	+10	SSE	5	c/t	51	85	47	8	5	-	-	9+	9+	3500
15	Dalwhinnie	88·0	+6	SSE	3	c	44	92	42	7	5	-	-	9+	9+	1500
	Aberdeen	91·9	+4	SSE	4	zo	48	92	46	6	5	2	.	9	9+	800
	Wick	90·5	+10	SE'S	6	zo	48	92	46	6	5	7	-	2-3	9+	4000
16	Sumburgh	95·1	+4	SE'S	5	c/d	48	92	46	6	5	2	-	9	10	500
17	Blacksod Point	90·3	+20	S	6	c-bc	52	97	51	8	9	-	-	7-8	7-8	1500
18	Malin Head	82·0	+8	S'E	5	bc	50	85	46	8	8	-	2	4-6	4-6	1500
	Aldergrove	85·5	+2	SSE	3	c	50	85	44	7	5	4	6	2-3	9	3000
19	Birr Castle	84·9	+10	SSW	2	bc	53	75	45	8	5	-	1	2-3	4-6	2500
20	Valentia Obsy.	83·7	+12	SSW	4	pr	52	85	48	8	2	7	-	4-6	9+	1500
	Roches Point	86·3	+10	SW	4	b-bc	52	85	48	8	3	-	1	1	2-3	1500

OBSERVATIONS at 18h. G.M.T. 17th December — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Weather 7h.–13h. 17th (39)	Weather 13h.–18h. 17th (40)	Weather 18h. 17th to 1h. 18th (41)	Weather 1h.–7h. 18th (42)
London (Kew)	95·3	+2	S'W	2	c/t	49	92	47	6	5	-	-	10	10	1500	1	*	irodo bcmo	toircmo	riromoc	bcwcro
Croydon	96·4	+6	S'E	3	toto	48	85	47	5	4	-	-	10	10	1200	1	*	cmororocmo	cpromo	cmobcmo	bcmocmo
S. Farnborough	95·0	+4	S'W	3	tt	49	92	47	5	6	2	-	4-6	10	1800	1	*	crodo	bcprocmot	crrocbbcmo	crRmo
Boscombe Down	95·1	+10	S'E	3	c	45	97	45	6	5	7	-	7-8	10	2500	1	*	cmoiroc	ccprto	crorobmoc	cif rmo
Thorney Island	95·4	0	S'W	4	zo	50	85	46	6	5	7	-	7-8	10	4000	1	*	cbcpr	cprcmo	cbcproc	ccirorr
Lympne	97·5	+2	S	1	c/t	47	92	46	6	5	1	-	7-8	10	2500	1	4	ccpr	cctoc	cpro irbc	cmocomo
Manston	97·4	+2	SW'S	4	pt	49	92	47	6	5	3	-	7-8	9+	2500	1	*	cciro	cpromo	cmopro roc	bcmocmo
Shoeburyness	97·1	+4	S'W	3	c	49	85	46	7	5	-	-	10	10	2500	1	*	cmoirc	irroc	bcirobc	bcmo
Felixstowe	96·3	+6	S'E	4	zo	47	97	46	6	-	7	6	0	10	-	1	3	circiromo	cmocircmo	iromocbcc	cbmocmo
Gorleston	97·1	+10	S	4	zo	49	85	45	6	5	-	-	2-3	4-6	4000	1	3	cmo	czbczo	crro	cbccw
Mildenhall	95·3	+6	S'E	3	zo	48	92	45	6	5	-	6	Tr	7-8	4000	1	*	bcmociro	cirocmo	ciromobmo	bbcmo
Cranwell	94·5	+12	S	2	zo	44	97	43	6	6	7	-	Tr	1	3500	1	*	ccmidcmo	irobcbcmo	cirmo	bccmo
Birmingham	93·7	+6	S	2	c	47	92	45	7	5	3	-	4-6	9+	1500	1	*	orP	cpr	cbc	bcofdo
Upper Heyford	94·3	+10	S	2	pr	47	92	45	6	8	-	-	9	9	4000	1	*	ciromoc	cprocmo	procbm	bcmof
Ross-on-Wye	92·8	+6	S	2	bc	47	85	42	6	5	5	1	2-3	4-6	2500	1	*	crBcc	cpoc	ccpoc	cpr
Hartland Point	91·9	+12	SSW	3	b-bc	49	85	46	6	3	6	-	2-3	2-3	1800	1	4	bccpr	cbc	bc	bc
Bristol	93·9	+4	SW	3	c	47	85	43	7	3	6	3	4-6	9	4000	1	*	cropro	ccproc	bbccbbc	bccmobc
Portland Bill	93·3	-4	S	4	ir	53	92	51	7	5	-	-	10	10	2500	1	5	c	oir	c	orr
Plymouth	92·9	+10	SSW	3	bc	51	92	49	7	3	6	2	2-3	4-6	2500	1	3	cbcmof	ptcbc	bcc	cproc
The Lizard	92·8	+2	WSW	5	bc	50	85	46	8	8	-	-	4-6	4-6	2000	1	5	croc.	cbc	bcc	bc
Scilly (St. Mary's)	91·0	+22	SSW	4	bc	49	85	45	7	3	1	4	4-6	4-6	1200	1	5	croc	cpobc	bcw	bcw
Guernsey																					
Pembroke	91·0	+4	SSW	3	c-bc	51	85	46	7	8	-	-	7-8	7-8	2500	1	4	cqirpro	cpro	bc	bc
Holyhead (Valley)	90·2	+10	SSE	5	zo	49	92	47	6	3	6	7	4-6	10	1500	1	4	cpromo	prprc	cmobc	cprobc
Chester (Sealand)	91·8	+12	ESE	3	c/t	47	92	45	6	5	3	-	2-3	9+	2500	1	*	cmororo	ciromo	cmo	bccmo
Manchester	92·6	+14	SSE	3	c-bcpr	47	92	45	6	8	-	-	7-8	7-8	2500	1	*	crrmoc	cpromo	cpromo	cmmo
Spurn Head	93·8	+4	S	3	zo	46	92	44	6	7	3	-	4-6	7-8	2500	1	3	c	cmo	cmo	of
Catterick	92·2	+14	-	0	bcf	45	92	43	3	5	-	-	4-6	4-6	2800	1	*	cidororo	c	iro firf	ofofe
Tynemouth	90·6	+10	SW	2	m	46	92	43	4	5	-	-	7-8	7-8	2500	1	3	oco	oirocm	cmoir	obcef
St. Abbs Head	90·6	-2	SW	1	c/t	46	97	46	6	5	-	-	9+	9+	1500	1	2	cmo	cttmoc	cmoro	crrmoc
Leuchars	89·9	0	S	1	toto	46	97	45	5	5	-	-	10	10	1200	1	*	cmcciromo	cmottmo	cfcmo	cmobmocmo
Renfrew (Abbots I.)	89·2	+8	SE'E	1	zo	47	85	44	5	5	2	-	7-8	10	2000	1	*	cromo	cmo	cpromo	cmbcm
Eskdalemuir	90·0	+8	S	2	tt	44	97	43	6	-	2	-	10	10	500	1	*	cttto	ctoott	or iro	oiro
Point of Ayre	89·0	+14	SW'S	3	b	49	92	47	7	4	-	-	1	1	2000	1	3	ciro	iroc	bcbbc	rorob
Tiree	85·6	+10	SSE	4	bc	49	92	47	7	-	-	2	0	4-6	-	1	4	cbc	bc	bccbc	ccpro
Stornoway	86·3	+6	SSE	5	c	51	92	49	9	5	-	-	2-3	9+	2000	1	*	ccirororoc	cbcc	cbc	bcb, cw
Dalwhinnie	88·5	+8	S	3	zo	44	92	44	6	5	1	-	10	10	1800	1	*	oirc	cito		oprobc
Aberdeen	91·0	0	SE	4	tt	47	97	47	6	-	2	-	10	10	800	1	3	cmozo	czotott	cRRro	cbrmo
Wick	90·8	0	SE	5	zo	47	92	45	6	5	7	-	4-6	9	900	1	*	cmo	c	cmororocro	c
Sumburgh	95·2	+2	SE	6	c	47	97	47	7	5	-	-	10	10	800	1	4	cirorido	cmoc	crorromo	crrmo
Blacksod Point	82·9	+22	S	5	c	41	97	40	7	9	-	-	9	9	1500	2	4	c	c	pr	bc
Malin Head	84·8	+18	S	4	b-bc	47	85	43	8	8	-	1	1	2-3	1500	2	4	bc	bc	bc	
Aldergrove	87·4	+12	SSE	1	c	47	85	43	7	5	-	-	9	9	1500	1	*	bcc	c	cbcb	bcbbc
Birr Castle	87·0	+8	S	2	b-bc	47	85	43	8	5	-	-	2-3	2-3	2500	1	*	bc	bc	*	pr
Valentia Obsy.	86·4	+18	S	4	c	48	85	44	8	2	7	3	2-3	9	2500	1	4	pr	pt	pr	pr
Roches Point	88·0	+6	SW'W	4	bc	50	92	48	8	3	3	-	2-3	4-6	1500	1	5	pr	bc	pr	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 18th December

Districts	Forecast
1 S.E. England; 2 E. England	Light variable winds; dull; occasional rain at first, rather widespread fog developing at night: mild.
3 E. Midlands; 4 W. Midlands	Light variable winds becoming westerly; widespread mist or fog tending to disperse later: mild.
5 S.W. England; 6 South Wales; 7 North Wales	Light variable winds; fair apart from a few showers; local fog inland tonight: mild.
8 N.W. England; 9 N. Midlands; 10 N.E. England	As 3-4
11 S.E. Scotland; 12 S.W. Scotland & Isle of Man; 13A W. Scotland	Moderate southwesterly winds, backing and freshening later; fair at first apart from some scattered showers: rain spreading from west later: mild.
13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Light to moderate south or southwest winds; mainly fair; some bright periods: mild.
16 Orkneys and Shetlands	As 14-15
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	As 12-13B.

GENERAL INFERENCE

A large depression is centred southwest of Iceland and a small secondary in the English Channel is moving east-northeast. A trough of low pressure on the Atlantic is approaching our western coasts. It will be mild generally. Rather widespread fog will occur over England to-night, but will disperse later. There will be periods of rain in many districts of the British Isles.

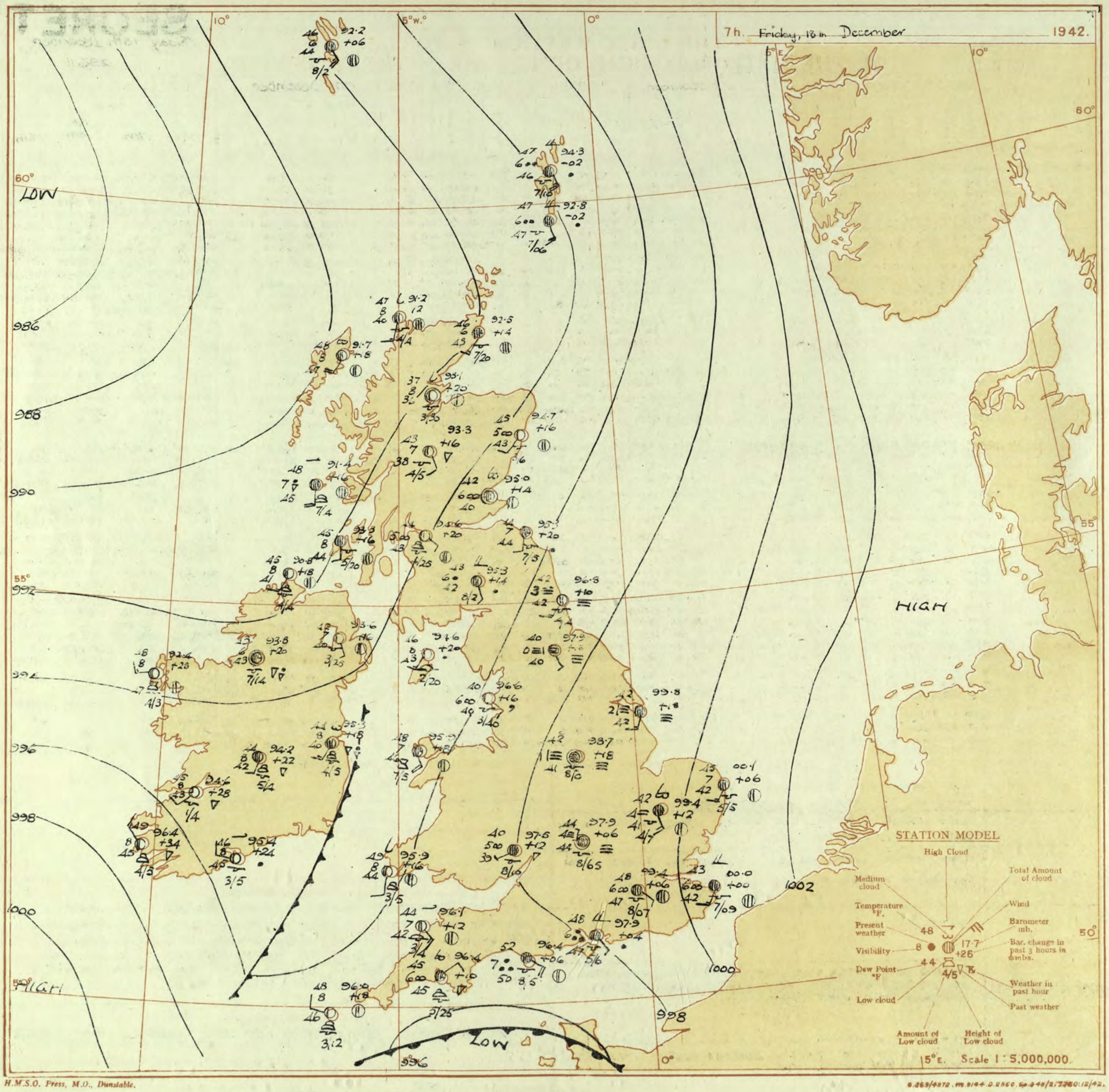
FURTHER OUTLOOK

Mild southwesterly type persisting with rainy periods in most districts.

Forecasts issued at 1300

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

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



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

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

Explanation of Frontal Lines shown on Charts

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

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

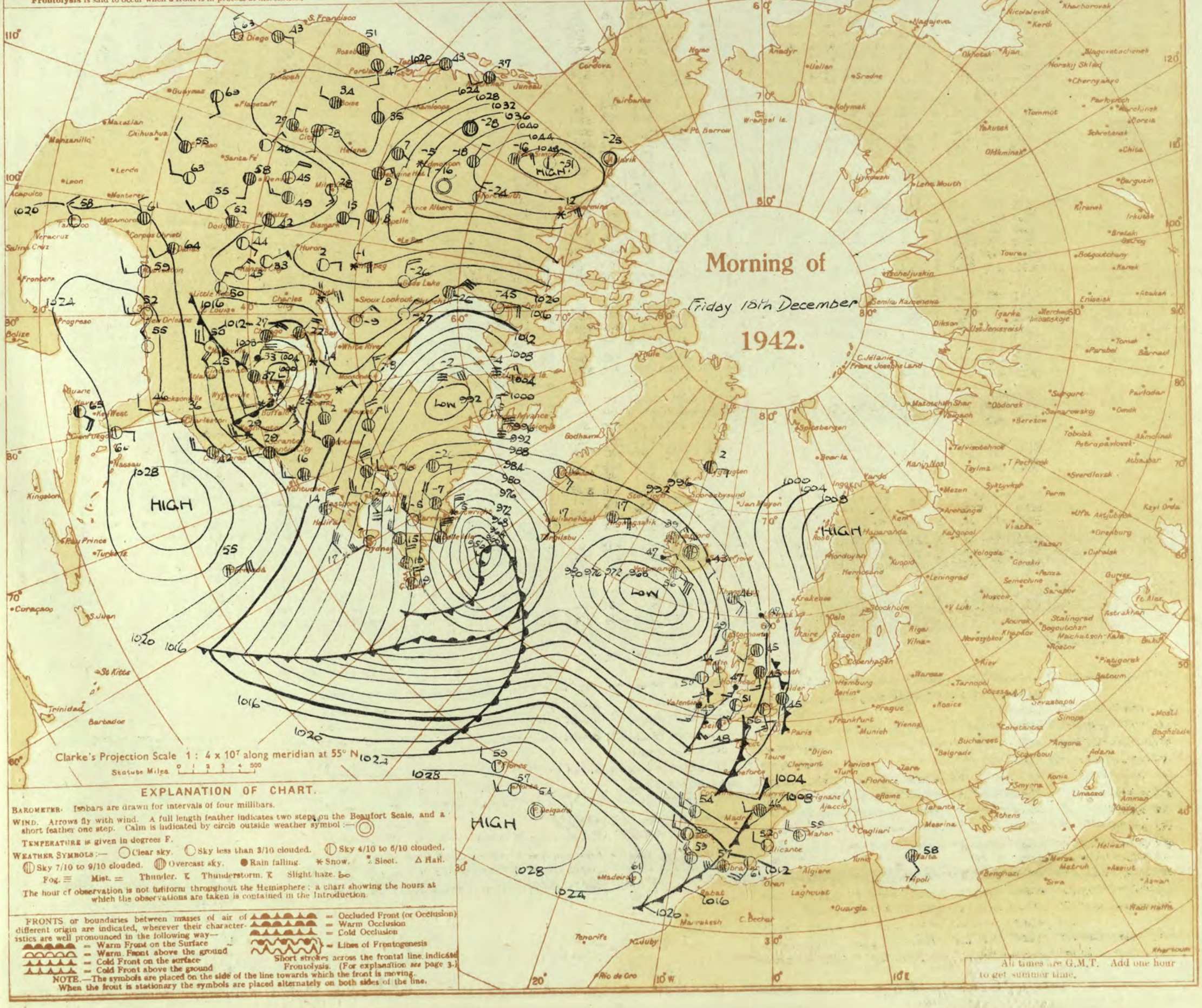
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

Page 4.

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

Friday 18th December 1942 — No. 2961

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Med. (11)	High (12)	Amount Low 0–10 (13)	Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	45	*	*	*	*	*	*	*	*	*
	Croydon	290	98.6	+16	S	3	zo	46	97	46	6	5	-	-	4-6	4-6	2500
	S. Farnborough	226	97.7	+10	SSE	2	zo	44	97	44	6	5	4	8	Tr	7-8	1800
	Boscombe Down	417	97.1	+10	SSE	3	zo	43	97	43	6	5	2	-	Tr	10	4000
	Thorney Island	10	97.6	+8	S'W	3	c	49	92	48	7	-	-	8	0	9	-
	Lympne	283	99.1	+16	S	3	b	46	97	45	7	2	-	1	Tr	1	3000
	Manston	154	99.1	+14	SW	2	b-bc	45	97	44	7	2	4	-	2-3	2-3	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	97.9	+8	S'W	3	c-bc	46	97	45	7	8	3	-	2-3	7-8	4000
	Gorleston	5	97.9	+4	S'W	2	c	45	92	43	7	8	7	-	7-8	9	1500
	Mildenhall	15	97.0	+10	S'E	3	zo	45	97	44	6	5	4	-	1	2-3	3000
	Cranwell	203	96.0	+6	S	1	c/f	42	97	42	6	-	7	-	0	9	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	96.6	+10	S	2	m	42	97	42	4	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	93.2	+10	S	3	b-bc	45	92	43	7	2	6	3	Tr	2-3	1500
	Bristol	209	95.9	+6	SSW	2	bc	42	97	41	7	-	-	6	0	4-6	-
	Portland Bill	32	95.8	+4	SW	1	c	51	92	49	7	5	-	-	10	10	4000
	Plymouth	82	95.1	+8	SSW	1	c	49	92	47	7	2	7	-	Tr	9+	2500
	The Lizard	240	94.3	+12	WS	3	c	49	85	44	8	8	2	-	7-8	9+	2000
	Scilly (St. Mary's)	163	93.3	+8	SW	3	bc	48	92	46	8	5	4	-	2-3	4-6	1500
	Guernsey	175															
6	Pembroke	142	93.6	+8	SSW	3	bc	51	92	47	8	2	6	-	2-3	4-6	2500
7	Holyhead (Valley)	32	93.0	+14	SSW	3	pr	47	85	44	7	3	-	-	9+	9+	1500
	Chester (Sealand)	16	93.5	+6	SE	1	bc	44	92	41	6	5	-	-	4-6	4-6	4000
8	Manchester	235	94.5	+8	SSE	3	m	44	92	42	4	5	-	2	2-3	7-8	5000
10	Spurn Head	29	95.9	+4	S	2	zo	45	85	42	6	7	3	-	4-6	9+	2500
	Catterick	175	95.1	+10	S	1	cf	42	97	42	2	5	3	-	4-6	7-8	2500
	Tynemouth	108	99.3	+16	S	3	m/r	45	92	44	4	-	2	-	10	10	1500
11	St. Abbs Head	280	92.2	+10	SW	4	rr	45	97	45	7	5	-	-	10	10	2500
	Leuchars	36	92.1	+10	-	0	zo	43	97	43	5	5	3	-	7-8	10	3500
12	Renfrew (Abbots I.)	19	91.7	+10	-	0	e/pr	47	92	45	5	5	7	-	2-3	9	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	91.7	+10	SW'S	3	bc	46	92	44	8	4	4	-	Tr	4-6	1800
13A	Tiree	44	88.7	+14	S	4	c-bc	48	92	46	6	-	-	6	0	7-8	-
13B	Stornoway	15	89.2	+10	S	4	b-bc	49	97	47	8	-	3	-	0	2-3	-
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	91.6	+6	WSW	2	c	45	92	43	8	5	-	-	9	9	4500
	Wick	114	90.9	0	SSE	2	iro	47	97	47	7	5	-	-	10	10	600
16	Sumburgh	19	94.3	-8	SE	5	roro	46	97	46	6	5	2	-	9+	10	700
17	Blacksod Point	18	87.3	+16	S	3	bc/pr	50	92	48	8	9	-	-	4-6	4-6	1500
18	Malin Head	84	87.6	+10	S	2	bc	44	92	42	8	4	-	2	2-3	4-6	1500
	Aldergrove	268	90.5	+14	SSE	1	b-bc	44	92	42	8	-	7	-	0	2-3	-
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	90.3	+14	S'W	3	PR	49	92	47	7	9	-	-	9+	9+	1500
	Roches Point	22	91.6	+14	WSW	3	bc	48	92	46	8	3	7	-	2-3	4-6	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Force 0–12 (19)	Weather (20)	Temp. °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 17th Hrs. (38)
London (Kew)	98.8	+8	E	2	iro	46	97	45	5	5	-	-	10	10	4000	1	*	52	43	31	1	1	1.2
Croydon	99.4	+6	ESE	1	zo	48	97	47	6	5	-	-	10	10	700	1	*	53	44	39	4	0.3	*
S. Farnborough	98.2	+4	E'S	1	RR	47	97	47	5	5	-	-	10	10	700	1	*	52	43	35	0.5	2	0.6
Boscombe Down	98.1	+6	ESE	3	roro	46	97	46	6	5	-	-	10	10	3500	1	*	52	40	36	12	1	0.5
Thorney Island	97.9	+4	SE'E	1	rr	48	97	47	6	5	2	-	7-8	10	4000	1	*	53	45	36	Tr	10	*
Lympne	00.9	+10	SSE	4	o	46	97	46	6	5	-	-	10	10	800	1	§3	52	45	41	0.5	2	0.3
Manston	00.0	0	S'W	3	zo	43	97	42	6	5	2	-	9+	10	900	1	*	52	42	40	Tr	1	0.0
Shoeburyness	99.8	+4	SE	3	zo	47	92	44	6	5	-	-	2-3	2-3	1500	1	*	52	44	31	1	0.3	0.3
Felixstowe	99.8	+8	SSE	2	zo	47	85	42	6	-	7	-	0	9	-	1	2	51	44	39	Tr	1	0.2
Gorleston	00.1	+6	SSW	3	c-bc	45	92	42	7	5	-	-	7-8	7-8	2500	1	2	51	44	42	-	1	0.3
Mildenhall	99.4	+12	SSE	3	m	42	97	41	4	5	7	-	4-6	10	5700	1	*	52	41	34	1	2	0.0
Cranwell	99.2	+18	SSW	1	m	42	97	42	4	5	-	-	10	10	300	1	*	50	37	31	Tr	1	0.0
Birmingham	98.5	+6	SE	2	rf	42	97	41	2	6	-	-	10	10	450	1	*	49	39	30	9	0.2	0.0
Upper Heyford	97.9	+6	-	0	m/f	44	97	44	4	5	-	-	10	10	6500	1	*	51	41	39	0.2	4	*
Ross-on-Wye	97.5	+12	WSW	1	zo	40	97	39	5	5	-	-	10	10	1000	1	*	51	38	30	1	0.3	0.9
Hartland Point	96.1	+12	SSE	3	bc	44	92	42	7	4	-	1	2-3	4-6	1500	1	4	52	43	40	0.2	-	0.3
Bristol	98.1	+12	S	1	zo	43	97	43	6	5	-	-	4-6	4-6	2500	1	*	51	41	36	1	1	0.0
Portland Bill	96.4	+6	ESE	4	rr	52	92	50	7	5	-	-	10	10	2500	1	5	54	50	*	0.6	2	*
Plymouth	96.4	+10	ENE	2	zo	45	97	44	6	8	7	-	7-8	9	2500	1	4	53	41	39	1	1	0.6
The Lizard	96.2	+14	NNE	3	b-bc	50	92	48	8	4	-	-	2-3	2-3	2000	0	4	54	44	*	Tr	-	
Scilly (St. Mary's)	96.0	+18	WN	2	b-bc	48	92	46	8	8	-	-	2-3	2-3	1200	1	4	54	46	*	Tr	-	0.5
Guernsey																							
Pembroke	95.9	+16	S	2	bc	49	85	44	8	2	4	-	2-3	4-6	2500	1	3	53	*	*	4	-	0.0
Holyhead (Valley)	95.9	+18	SSE	4	c	48	92	46	7	3	-	-	9+	9+	2500	1	3	51	42	39	4	1	*
Chester (Sealand)	97.1	+8	SSE	3	m	39	97	38	4	5	-	-	10	10	2500	1	*	51	38	35	4	0.5	0.3
Manchester	97.4	+18	SE	3	zo	42	92	40	5	5	-	-	4-6	4-6	5000	1	*	50	42	37	4	0.4	*
Spurn Head	99.8	+18	S'W	3	of	42	97	42	2	5	-	-	10	10	<150	1	3	47	41	*	Tr	-	0.0
Catterick	97.9	+18	SSE	1	F-	40	97	40	0	-	-	-	10	10	<150	1	*	48	40	38	2	0.2	0.0
Tynemouth	96.8	+10	SW	3	bcf	42	97	42	3	5	-	-	4-6	4-6	1500	1	3	49	42	40	0.2	0.3	*
St. Abbs Head	95.3	+20	S	2	c	44	97	44	7	5	-	-	9+	9+	2500	1	3	46	43	*	5	3	
Leuchars	95.0	+14	-	0	zo	42	92	40	6	-	7	-	0	7-8	-	1	*	48	41	33	4	0.3	0.0
Renfrew (Abbots I.)	94.6	+20	SE	1	zo	44	92	43	5	8	-	-	4-6	4-6	2500	1	*	49	43	35	0.3	Tr	0.0
Eskdalemuir	95.3	+14	S'E	1	iro	43	97	42	6	-	2	-	10	10	400	1	*	47	42	41	10	3	0.0
Point of Ayre	94.6	+20	SW'S	3	b	46	92	43	8	4	-	-	1	1	2000	1	3	51	44	*	0.6	0.3	0.0
Tiree	91.4	+16	S	4	pro	48	92	45	7	2	-	8	9+	10	1500	1	5	52	48	46	-	Tr	0.0
Stornoway	91.7	+18	SSW	4	c-bc	48	97	47	8	-	7	-	0	7-8	-	1	*	52	47	43	Tr	-	1.0
Dalwhinnie	93.3	+16	SSE	2	bc	43	85	38	7	5	-	-	4-6	4-6	2500	1	*	44	42	37	3	0.2	0.0
Aberdeen †	94.7	+16	SW	2	zo	45	92	43	5	5	-	-	2-3	2-3	4000	1	2	48	44	41	3	5	0.0
Wick	92.5	+14	SSW	3	c	46	85	43	6	5	-	-	9+	9+	2000	1	*	48	43	40	-	1	*
Sumburgh	92.8	-2	SSE	3	roro	47	97	47	6	5	2	-	9+	10	600	1	4	48	45	45	0.4	7	0.0
Blacksod Point	92.4	+28	W	3	bc	48	97	47	8	9	-	-	4-6	4-6	800	2	3	52	46	*	4	9	
Malin Head	90.8	+18	SW	3	bc	45	85	41	8	8	-	-	4-6	4-6	1500	2	3	50	42		-	-	0.4
Aldergrove	93.6	+16	SSE	1	b-bc	42	92	40	7	5	-	-	2-3	2-3	2500	1	*	50	40	33	-	0.2	0.0
Birr Castle	94.2	+22	SSW	2	c-bc	44	92	42	8	8	-	-	7-8	7-8	1500	1	*	53	42	39	-	0.5	4.4
Valentia Obsy.	96.4	+34	NW	3	bc	49	85	45	8	2	-	-	4-6	4-6	2500	1	3	53	46	42	0.1	1	0.8
Roches Point	95.4	+24	WN	2	b-bc	46	97	45	8	5	-	1	2-3	2-3	2500	1	*	53	46	*	1	2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 17th December $C_L C_M$	$wwVhN_h$	DDFWN	18h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN	01h. G.M.T. 18th December $C_L C_M$	$wwVhN_h$	DDFWN	07h. G.M.T. $C_L C_M$	$wwVhN_h$	DDFWN
109	57	02645	46627	52	02644	45627	52	62545	11368	52	02634	10266
115				77	02844	45626	58	02854	16227	54	02844	16325
205		02947	16427	5-	02847	12327						
206	87	02854	14427	57	61757	08368	55	02863	00028	54	01863	00013
210	59	02854	08327	57	51745	11368	10	02896	00066	58	01863	00013
220	83	01744	14515	83	07441	16414				52	02643	14328
230	8-	02857	10287	5-	02767	00027	53	01853	16224	8-	01854	18284
245	57	05654	14467	62	64636	12167	53	05654	16257	57	05564	00014
260	62	21654	08158	53	22545	09268	53	75655	00085	5-	05655	12225
278	52	02845	10387	53	05644	12216	73	01754	14125	5-	81754	14284
279	62	61744	10267	5-	05657	16261	5-	05676	16326	50	05564	29214
285	--	67209	10369	27	02745	04367						
288	52	22647	44468	90	08490	15227	53	08462	00026	07	45290	22143
575	20	02853	18326	5-	02846	18226	27	10752	00012	5-	25647	00087
301	86	22546	14367	51	62544	14388	57	05663	12265	50	05663	12253
321				26	05553	17224	53	08472	14226	51	43338	14148
290	5-	22648	14568	5-	05657	14327	54	05654	22214	00	45490	22240
292	62	52636	15368	03	08490	13254	53	45355	11148	--	48609	12249
310												
614				50	05663	16414	07	08490	18113	--	48609	00049
333	5-	62638	18568	83	02744	16385	86	02755	16316	40	02753	18385
334	--	65647	24288	--	55437	24288				--	01643	18114
340	87	05644	18266	5-	05647	20257	0-	01590	15212	--	57209	16249
136	57	02744	16457	03	05690	18364	53	22653	18263	53	08423	15217
336	52	22644	20468							50	01754	12314
350	87	02754	18455	55	05663	16257	58	01651	*	5-	05647	14227
368	53	02753	18114				80	00753	*	54	01753	16114
379	57	21735	20366				--	48609	18259	--	48609	18149
390	82	03555	16367	57	47335	17288				5-	47348	12218
382	87	02754	18536	57	65666	19268	50	05651	14118	5-	61568	12228
438	82	02745	20626	80	64646	20566	8-	02765	21485	82	61746	16386
430	87	02643	51425	87	02746	17528	03	02790	20325	5-	64648	18268
402				36	01851	16313	23	02861	17225	54	01851	00004

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

Stations	Weather Morning	Afternoon	Night
Kew	$ir_0 d_0$ bcm	$r_0 ir_0$ cm	$r_0 ir_0$ wcr_0
Croydon	$cm_0 r_0 e_0$ cm	$ep f_0 m_0$	$cm_0 cm_0$
Greenwich	c	ir_0	igcbcr_0
Camden Square	c	c	*
Kensington	cdbcpbc	cdcr	*
Hampstead	od	+cp	oT

Atmospheric Pollution, Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0.3, Time 16/17hrs 17th. Min. 0.1, Time 0-5hrs 18th.

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	52	43	31	1	1	1.2	*	*
Croydon	53	44	39	4	0.3	*	*	*
Greenwich	53	44	34	0.8	0.8	0.9	84	97
Westminster	53	47	39		3.5	*	82	93
Regents Park	52	46	41	Tr	2.9	*	79	92
Camden Square	52	46	38	1.0	1.8	*	*	94
Kensington	54	45	*	0.4	1.9	*	88	96
Hampstead	53	44	40	0.2	4.1	*	*	98

Page 1 BRITISH SECTION

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

SECRET

Saturday 19th December, 1942

No. 29612

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	99·3	−8	ENE	2	m/r	49	85	46	4	5	–	–	10	10	1500
	Croydon	99·8	−6	ESE	1	•m	48	97	48	4	5	–	–	10	10	900
	S. Farnborough	00·0	−4	ENE	2	z₀	49	92	47	6	8	7	–	7-8	10	1600
	Boscombe Down	99·8	+2	NE	3	e/r	47	97	47	7	5	7	–	4-6	9+	700
	Thorney Island	98·6	−2	NE'N	3	ir₀	50	92	49	6	5	6	–	4-6	9+	1500
	Lympne	99·4	−18	E	2	id₀	47	97	46	6	5	2	–	9	10	1100
	Manston	99·8	−14	E'S	3	id₀	47	97	47	5	5	2	–	9+	10	900
2	Shoeburyness	01·2	−12	NE	2	r₀r₀	47	97	47	5	–	2	–	10	10	1500
	Felixstowe	02·4	−8	ENE	2	r₀r₀	47	97	46	6	5	–	–	10	10	700
	Gorleston	02·1	0	SE	2	⁰/pr	46	85	43	6	5	–	–	10	10	1500
	Mildenhall	00·9	+2	E	2	r₀r₀	47	97	46	6	5	–	–	10	10	1500
	Cranwell	01·8	+10	SE'S	1	F+	44	97	44	1	–	–	–	10	10	<150
3	Birmingham	01·1	+2	–	0	z₀	45	97	44	5	5	–	–	9+	9+	800
	Upper Heyford	99·6	+2	ENE	1	e/r	48	97	46	6	5	7	–	2-3	9+	1800
4	Ross-on-Wye	00·3	+6	NW	1	id₀	45	97	44	4	5	–	–	10	10	450
5	Hartland Point	99·8	+10	–	0	b-bc	50	92	47	7	2	–	3	1	2-3	2000
	Bristol	00·4	+6	NNE	3	of	47	97	47	3	5	–	–	10	10	1500
	Portland Bill	98·5	+10	N	4	ir₀	49	92	47	7	5	–	–	10	10	2500
	Plymouth	99·3	+10	WNW	2	z₀	50	85	47	6	–	7	3	0	7-8	–
	The Lizard	99·1	+18	NW	3	bc	52	85	47	8	2	6	–	4-6	4-6	2000
	Scilly (St. Mary's)	00·3	+22	W'N	3	bc	55	85	49	8	8	4	–	4-6	4-6	1200
	Guernsey															
6	Pembroke	00·2	+16	SW'S	1	z₀	50	97	49	6	2	4	–	2-3	4-6	2500
7	Holyhead (Valley)	99·2	+10	S'E	3	c-bc/pr	50	92	48	7	3	7	3	4-6	7-8	1500
	Chester (Sealand)	00·4	+12	SSE	2	of–	41	92	40	2	5	–	–	10	10	2500
8	Manchester	01·0	+8	SE	2	z₀	45	85	42	6	5	–	–	10	10	1500
10	Spurn Head	01·6	+6	–	0	of	44	97	44	3	5	–	–	10	10	4000
	Catterick	01·6	+12	SSW	2	F	38	97	38	0	–	–	–	10	10	<150
	Tynemouth	00·3	+14	S	3	bcf–	41	92	39	3	5	–	–	4-6	4-6	1800
11	St. Abbs Head	98·4	+8	SW	3	c-bc	46	92	43	7	5	7	–	4-6	7-8	2000
	Leuchars	98·6	+14	–	0	z₀	42	92	40	5	5	3	–	2-3	4-6	3500
12	Renfrew (Abbots I.)	98·2	+14	SSE	2	z₀	50	85	44	6	8	3	–	9	9	2500
	Eskdalemuir	99·2	+14	SSE	1	ir₀	43	97	42	6	5	–	–	10	10	900
	Point of Ayre	98·6	+12	WSW	2	c-bc/r	50	85	47	8	8	7	–	2-3	7-8	2000
13A	Tiree	95·3	+18	SSW	3	c	49	92	47	8	8	–	–	9+	9+	2500
13B	Stornoway	94·2	+10	S	6	ir₀	49	97	49	8	5	–	–	9+	9+	1300
15	Dalwhinnie	97·4	+6	SSE	3	c-bc	43	85	39	7	8	–	–	7-8	7-8	2500
	Aberdeen	98·7	+10	S'W	2	m	47	85	43	4	–	4	1	0	Tr	–
	Wick	96·6	+16	SSW	2	bc	46	92	44	7	5	7	8	Tr	4-6	3000
16	Sumburgh	97·2	+22	S	3	bc	47	97	46	7	5	7	–	4-6	4-6	3000
17	Blacksod Point	98·0	+26	W	3	r₀r₀	49	97	48	8	6	–	–	9	9	1500
18	Malin Head	95·4	+20	S	3	b-bc	48	75	41	8	8	–	–	2-3	2-3	2500
	Aldergrove	97·8	+18	SW'S	2	z₀	45	92	44	5	5	–	–	10	10	500
19	Birr Castle	99·4	+22	SSW	1	b	50	85	46	8	–	–	–	0	0	–
20	Valentia Obsy.	02·0	+22	W'S	4	c-bc/pr	50	85	46	8	3	–	–	7-8	7-8	2500
	Roches Point	00·8	+16	N'W	3	bc	49	85	45	8	5	3	–	1	4-6	2500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	01·3	+14	NNE	3	r₀r₀	47	92	45	4	6	2	–	7-8	10	800	1	•
Croydon	01·0	+10	–	0	df	47	97	47	3	–	–	–	10	10	<150	1	•
S. Farnborough	01·3	+10	N'E	2	rf	47	97	46	3	5	–	–	10	10	700	1	•
Boscombe Down	02·8	+20	N	2	id₀	46	97	45	6	5	2	–	7-8	10	2500	1	•
Thorney Island	00·4	+14	NNE	3	r₀r₀	48	92	46	6	–	2	–	10	10	4000	1	•
Lympne	00·1	+10	SE	1	r₀r₀	47	97	47	5	–	2	–	10	10	800	1	4
Manston	00·9	+4	SSE	2	rr	47	97	47	4	–	2	–	10	10	600	1	•
Shoeburyness	02·1	+16	NE	3	r₀r₀	47	97	46	5	–	2	–	10	10	1500	1	•
Felixstowe	01·1	+6	–	0	r₀r₀	47	97	47	4	5	–	–	10	10	2000	1	2
Gorleston	01·9	+2	E	2	r₀r₀	46	97	45	6	6	–	–	10	10	800	1	2
Mildenhall	02·0	+10	N	2	r₀r₀	46	97	45	5	5	–	–	10	10	2500	1	•
Cranwell	03·2	+10	E'N	1	dF	44	97	44	1	–	–	–	10	10	<150	1	•
Birmingham	03·7	+20	NNW	1	of+	44	92	42	3	5	–	–	10	10	800	1	•
Upper Heyford	02·1	+14	NE'E	1	m	46	97	45	4	5	–	–	7-8	10	500	1	•
Ross-on-Wye	03·2	+26	NW'N	2	z₀	44	92	42	5	5	–	–	10	10	800	1	•
Hartland Point	03·5	+26	W	1	bc	47	97	47	7	4	4	–	2-3	4-6	1500	1	3
Bristol	03·7	+22	–	0	of+	45	97	44	3	5	–	–	10	10	1300	1	•
Portland Bill	02·3	+20	N	4	o	50	92	47	7	5	–	–	10	10	2500	1	5
Plymouth	03·6	+32	NNW	3	m	46	97	45	4	–	3	–	0	1	–	1	2
The Lizard	03·4	+18	NW	3	⁰/pr	49	92	47	8	8	2	–	7-8	9+	1500	1	4
Scilly (St. Mary's)	04·2	+24	NW'W	4	b-bc	50	85	46	8	8	6	–	2-3	2-3	1200	1	4
Guernsey																	
Pembroke	03·5	+24	N	3	c-bc	49	92	46	7	8	3	–	4-6	7-8	2500	1	3
Holyhead (Valley)	02·6	+22	WSW	1	c	47	92	46	7	8	3	–	2-3	9+	2500	1	2
Chester (Sealand)	03·5	+28	S	1	of	39	97	39	2	5	–	–	10	10	1500	1	•
Manchester	04·0	+22	S'W	1	of	43	92	41	3	5.	–	–	10	10	900	1	•
Spurn Head	03·6	+12	–	0	f	45	97	44	2	–	–	–	10	10	<150	1	1
Catterick	04·0	+22	SE	1	F–	39	97	39	1	–	–	7	10	10	<150	1	•
Tynemouth	02·8	+14	SW	3	oF	39	97	39	1	5	–	–	10	10	1500	1	3
St. Abbs Head	00·6	+12	SW	3	b-bc	43	97	42	7	1	4	–	2-3	2-3	2000	0	3
Leuchars	00·9	+22	–	0	m/f	38	97	37	4	5	3	8	1	4-6	3500	1	•
Renfrew (Abbots I.)	01·0	+22	SSW	2	pr	48	92	46	4	8	3	–	7-8	9+	2500	1	•
Eskdalemuir	01·9	+20	S	2	c	43	97	42	6	5	–	–	10	10	400	1	•
Point of Ayre	01·4	+12	SW'W	1	c	47	97	46	8	8	–	–	9+	9+	2500	1	1
Tiree	97·8	+8	SSW	3	pr	48	92	45	8	8	–	–	7-8	7-8	2000	0	4
Stornoway	96·5	+22	SSW	5	c	49	97	48	8	5	3	–	4-6	9+	1200	1	
Dalwhinnie	99·4	+16	S	2	c-bc	43	85	38	8	8	–	–	7-8	7-8	2500	1	•
Aberdeen	01·1	+14	S'W	2	bf+	43	92	41	2	5	–	–	Tr	Tr	4000	1	2
Wick	98·7	+14	S	2	bc	45	92	43	8	–	–	9	0	4-6	–	1	•
Sumburgh	99·6	+18	S'W	3	z₀	46	97	46	6	5	3	–	1	4-6	700	1	3
Blacksod Point	00·2	+14	WSW	3	c	47	97	46	8	8	–	–	9+	9+	1500	2	3
Malin Head	98·6	+20	S'E	1	ir₀	45	85	41	8	8	–	–	7-8	7-8	1500	2	3
Aldergrove	01·8	+18	S'W	1	fg	41	97	39	6	–	7	–	0	4-6	–	1	•
Birr Castle	02·2	+6	S	1	b	41	92	39	8	–	–	–	0	0	–	1	•
Valentia Obsy.	04·5	+14	SW'W	3	bc	46	75	39	8	5	6	–	4-6	4-6	2500	1	4
Roches Point	03·8	+14	WNW	3	b	46	85	42	8	5	–	–	1	1	2500	1	4

PAST 24 HOURS.

Stations	Weather 7h.—13h. 18th (39)	Weather 13h.—18h. 18th (40)	Weather 18h. 18th to 1h. 19th (41)	Weather 1h.—7h. 19th (42)
London (Kew)	rfir₀m	orr₀fm	rr₀cm₀	cm₀
Croydon	cm₀ir₀cm	cm₀dfid₀f	cd₀d₀fcdd₀	cm
S. Farnborough	Rrfr₀m cm₀	cm₀fcrf	cr₀rr₀cm	cm₀d₀id₀d
Boscombe Down	cr₀r₀m₀c	cid₀m₀	cd₀m₀m₀	oFof
Thorney Island	cr₀r₀cir₀	cm₀rr	cbcc	cm₀
Lympne	omrr₀d₀	cm₀r₀d₀r₀	crorfm₀	ofmm₀d₀
Manston	RRm₀id₀m	orrm₀m	cRR₀r₀r₀m	crr₀r₀id₀
Shoeburyness	orrcr₀r₀	cm₀r₀r₀	cm₀rr	cm₀r₀
Felixstowe	cm₀ir₀r₀r₀	r₀r₀m₀m	cr₀r₀m₀r₀r₀f	cr₀r₀id₀fcm
Gorleston	pr₀z₀	or₀r₀	pr₀r₀m	or₀r₀d₀d₀
Mildenhall	cmcm₀r₀r₀	cm₀r₀r₀	cr₀r₀m₀	cr₀r₀mcm
Cranwell	cm₀amfe	oid₀F	oFFf	oid₀ff
Birmingham	ofr₀o	of	ofm	om
Upper Heyford	cmr₀r₀m₀	ir₀d₀d₀m	mr₀r₀cf	oid₀of
Ross-on-Wye	cfofm	om₀	omof	cmbc
Hartland Point	bc	bc	bcirprc	c
Bristol	bcm₀cf	cmfm	cf	cflofcm
Portland Bill	orr	o	bcc	c
Plymouth	cm₀	cbcm₀m	bcm₀	bcm₀b
The Lizard	bccbc	bcprc	cbc	bcprc
Scilly (St. Mary's)	b	pr₀cbc	bc	bccr₀
Guernsey				
Pembroke	bcm₀	bccprbc	bc	cq
Holyhead (Valley)	cprm₀bc	bccm₀c	cpr₀fg	bw
Chester (Sealand)	ffc	cffo	off r₀	bccff
Manchester	bccm₀	cm₀mf	cff	cFF
Spurn Head	of	f	c	om
Catterick	oFe	oFe	oFe	oFe
Tynemouth	bcff	bcomF	oFeFe	cbcm₀c
St. Abbs Head	bcc	cbcm₀	cbcm₀	oFeFe
Leuchars	cmcmbcm	bcm₀fm	bmwcm	cm₀bm₀qw
Renfrew (Abbots I.)	bcpr₀cm₀	cm₀pr₀cm	bm₀bcm₀	bbccm₀
Eskdalemuir	cir₀	cir₀cm₀	cir₀	cpr
Point of Ayre	r₀r₀ir₀	•cprc	bbcc	cbcb
Tiree	cpr₀c	cbcpr₀	bcpr₀bc	bcc
Stornoway	ccir₀b	cir₀bcc	cpr₀cbc	bccpr₀bc
Dalwhinnie	bcc	cir₀		cir₀o
Aberdeen	bm₀bcbz	bz₀mfe	bfeccc	bccr₀c
Wick	cbc	bc	bcbbc	bc
Sumburgh	cm₀r₀r₀c	bcm₀	cm₀	cm₀
Blacksod Point	r	c	bc	r
Malin Head	d	r	r	c
Aldergrove	bcir₀cm₀	cm₀bcfg	cbcb	bccir₀
Birr Castle	b	b	•	r
Valentia Obsy.	pr	pr	r	r
Roches Point	bc	b	bc	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 19th December 1942.

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands	Freshening Southwest winds, dull becoming rainy; bright periods with some showers tomorrow; mild.
5 S.W. England; 6 South Wales ✝; 7 North Wales ✝	Fresh Southwest winds veering westerly, strong perhaps gale locally on coast; rain early, then showers and bright periods; rather mild.
8 N.W. England ✝; 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland	Fresh south to southwest winds, strong locally; dull, rainy today; showers and bright periods tomorrow, mainly mild.
12 S.W. Scotland & Isle of Man ✝; 13A W. Scotland ✝; 13B N.W. Scotland ✝	Strong to gale southerly winds veering southwest; dull, rainy; frequent showers but brighter intervals later; mainly mild.
14 Mid Scotland; 15 N.E. Scotland ✝	Strong to gale southerly winds; dull; rain at times; mild.
16 Orkneys and Shetlands ✝	As 14-15.
17 N. W. Ireland ✝; 18 N. E. Ireland ✝; 19 S. E. Ireland ✝; 20 S. W. Ireland ✝	Squally westerly winds, fresh to strong or gale at times on coast; squally showers of rain, with hail locally, perhaps local thunder; rather cold.

GENERAL INFERENCE

An exceptionally deep depression is moving northeast between Iceland and Greenland. An associated trough of low pressure will cross the British Isles with rain and be followed by variable cloud with occasional showers. Gales will occur locally on the northwest and west seaboard, conditions will continue mainly mild.

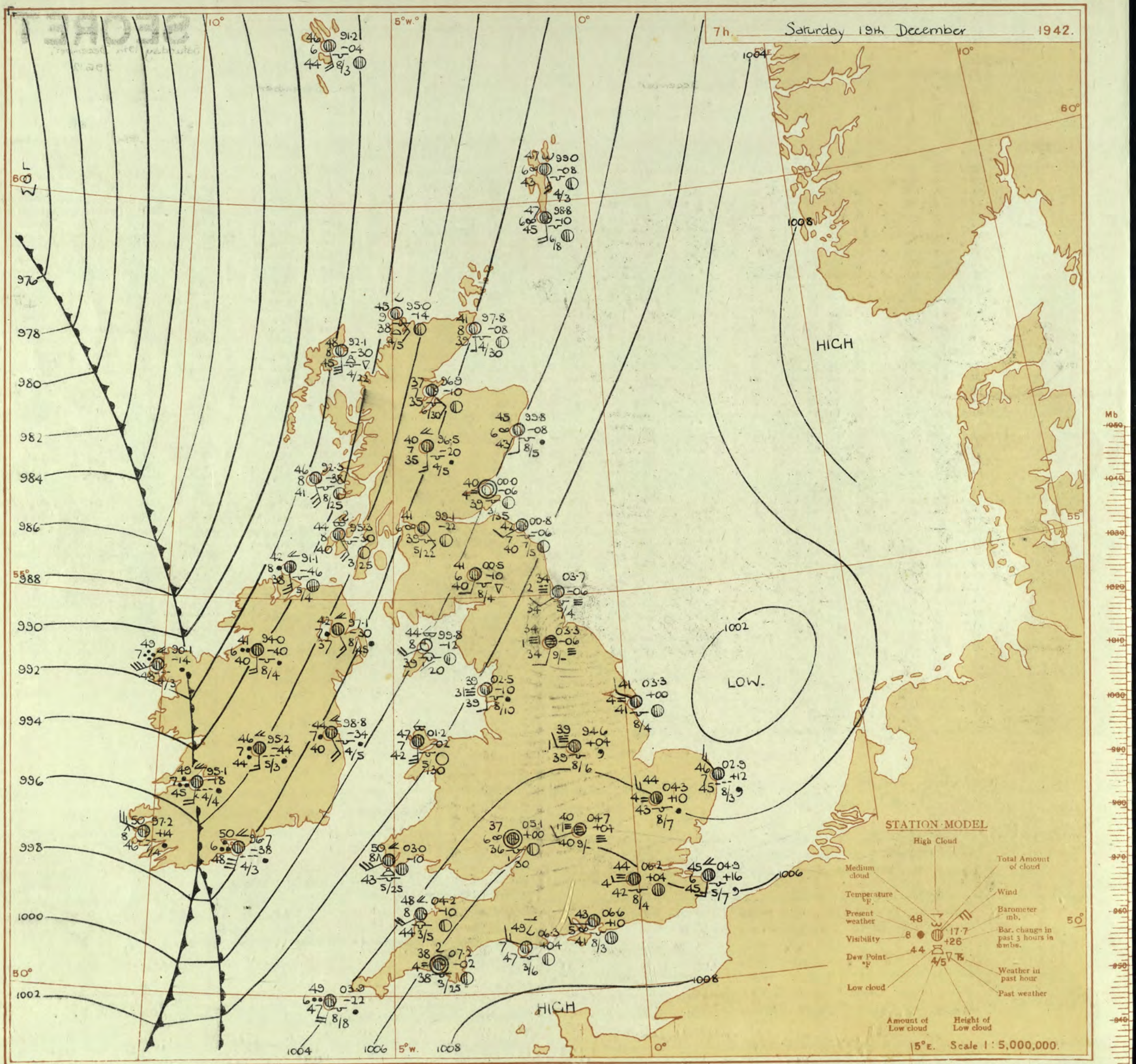
FURTHER OUTLOOK

Continuing unsettled and mainly mild generally.

✝ Gale warning in operation in districts 13A, 13B, 17, 18 and 20 (parts of) Time of issue 0210GMT 19Dec1942.
In districts 6, 7, 8, 12, 16, 19 and 15, 18, 20 (parts of) Time of issue 0445 G.M.T 19Dec1942.

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.

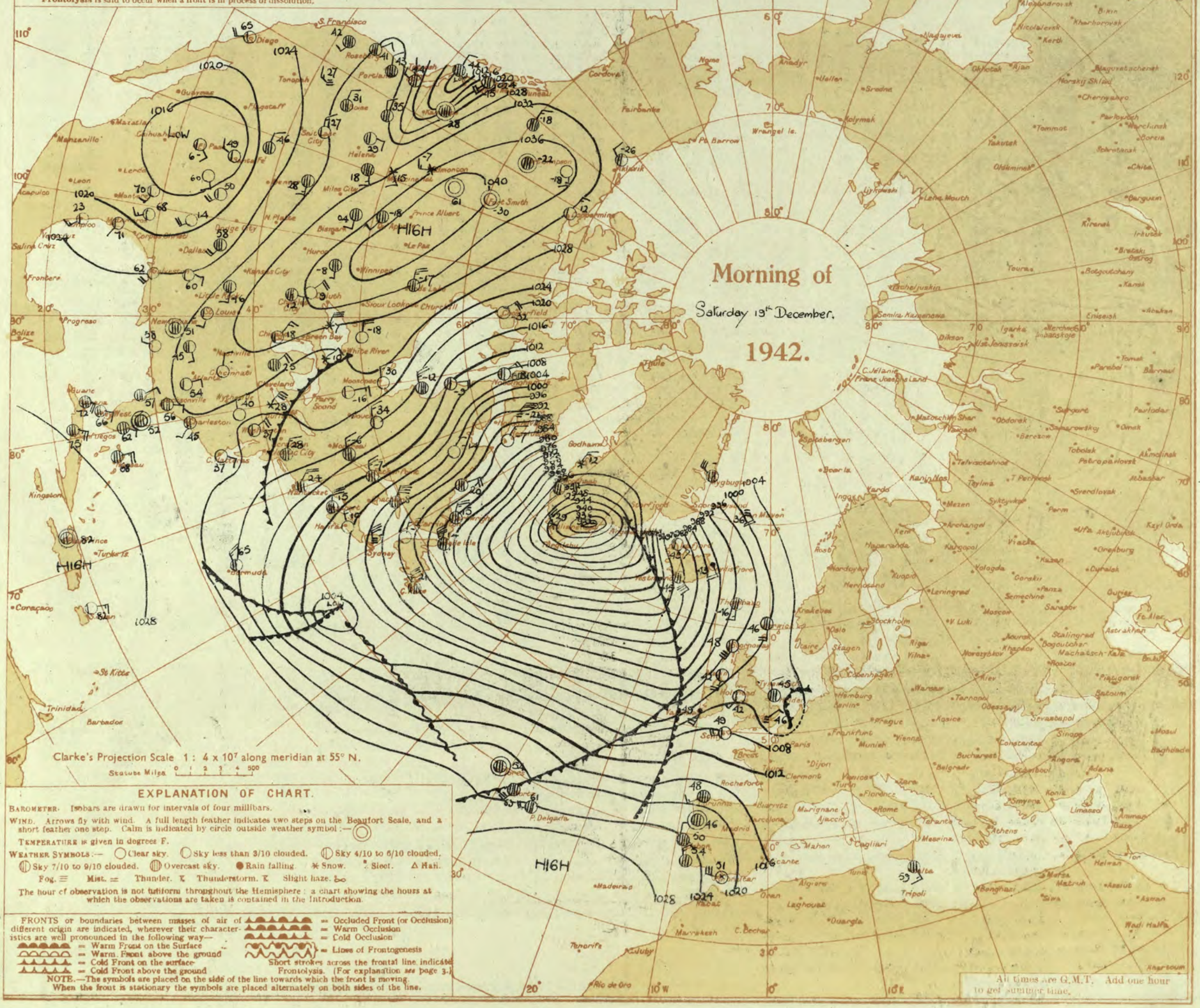
Cold Front. The air mass which moves towards this boundary is normally of polar, etc., origin, while that which moves away from it is of tropical, etc., origin.

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.



Page 4.

BRITISH SECTION

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

Saturday 19th December, 1942

No. 29612

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

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	03.5	+6	ENE	1	of-	46	97	44	4	5	-	-	10	10	600
	S. Farnborough	226	04.4	+14	WNW	2	m	45	97	45	4	5	2	-	10	10	1000
	Boscombe Down	417	05.6	+18	NW'W	3	m	42	97	41	4	5	-	-	10	10	300
	Thorney Island	10	04.5	+14	WNW	3	Zo	47	85	43	6	5	-	-	9	10	1500
	Lympne	283	02.4	+2	SSW	2	of-	47	97	47	3	5	-	-	10	10	<150
	Manston	154	02.0	+2	W'S	2	roro	47	97	47	6	6	2	-	7-8	10	1200
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	01.2	-2	W'S	1	rf	47	97	47	3	5	-	-	10	10	3000
	Gorleston	5	01.5	-4	-	0	roro	46	92	44	4	6	-	-	10	10	800
	Mildenhall	15	02.3	0	NW'N	2	roro	46	97	45	5	5	2	-	10	10	400
	Cranwell	203	03.9	0	NNW	1	F-	43	97	43	2	-	-	-	10	10	<150
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	03.7	+8	N'W	2	df	44	97	44	3	-	-	-	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	05.5	+6	NW	3	c	49	85	45	8	5	-	-	9	9	2500
	Bristol	209	06.1	+10	-	0	cf+	39	97	39	2	5	-	-	9+	9+	5700
	Portland Bill	32	05.2	+12	W	3	c	47	92	46	7	2	-	-	9	9	4000
	Plymouth	82	06.9	+12	-	0	Zo	42	97	42	5	8	3	-	2-3	4-6	3500
	The Lizard	240	07.2	+6	NW'W	4	bc	48	85	45	8	2	-	-	4-6	4-6	2000
	Scilly (St. Mary's)	163	07.1	0	WSW	4	b-bc	49	75	42	8	8	-	-	2-3	2-3	1200
	Guernsey	175															
6	Pembroke	142	05.3	+2	W	3	c-bc	49	85	43	8	8	3	-	4-6	7-8	2500
7	Holyhead (Valley)	32	03.8	0	SW	1	b	42	97	42	8	1	-	-	Tr	Tr	2500
	Chester (Sealand)	16	04.4	+2	SE'E	2	cbcf	36	97	36	2	-	1	-	0	7-8	-
8	Manchester	235	05.2	+8	-	0	oF+	39	97	39	2	5	-	-	10	10	300
10	Spurn Head	29															
	Catterick	175	04.5	-2	S	1	F-	36	97	36	1	-	-	-	10	10	<150
	Tynemouth	108	03.6	0	SW	3	F+	39	97	39	0	-	-	-	10	10	<150
11	St. Abbs Head	280	01.5	0	SW	4	c	45	97	45	7	5	-	-	10	10	2500
	Leuchars	36	01.6	-2	-	0	Zo	43	92	42	5	5	-	-	9+	9+	4000
12	Renfrew (Abbots I.)	19	01.7	-2	S	1	Zo	43	92	43	6	3	-	-	2-3	2-3	2500
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	02.4	+2	SW	2	cbc	43	92	41	8	8	3	-	7-8	7-8	2000
13A	Tiree	44	98.2	-6	S'W	3	bc	47	85	43	8	2	-	-	4-6	4-6	2500
13B	Stornoway	15	96.8	0	SSW	6	bc	48	97	46	8	8	6	-	4-6	4-6	2200
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	01.3	0	S'W	3	Zo	43	92	42	6	5	-	-	9	9+	3500
	Wick	114	99.2	0	S'W	3	b	43	92	41	9	8	-	-	1	1	3000
16	Sumburgh	19	99.8	-4	S	4	Zo	46	92	44	6	5	-	-	9	9	400
17	Blacksod Point	18	96.8	-30	SSW	5	bc	49	85	45	8	8	-	-	4-6	4-6	2500
18	Malin Head	84	98.1	-14	S	3	b-bc	42	85	38	8	-	-	1	0	2-3	-
	Aldergrove	268	01.7	-10	SSE	2	b	38	97	38	7	-	-	S	0	1	-
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	00.6	-34	S'W	5	roro	49	92	47	6	5	2	-	2-3	10	1500
	Roches Point	22	04.2	-14	W	2	bc	44	85	40	8	5	3	-	1	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 19th December — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 18th Hrs. (38)
London (Kew)	05.8	+14	W'S	2	Zo	43	92	41	6	5	-	-	10	10	1500	1	*	49	43	41	4	4	0.0
Croydon	06.2	+4	W	1	m	44	92	42	4	5	-	-	10	10	400	1	*	48	43	42	5	2	0.0
S. Farnborough	06.2	+8	SWW	3	of+	41	97	40	3	5	-	-	10	10	8400	1	*	49	41	42	14	2	0.0
Boscombe Down	06.7	+2	W'S	2	F-	42	97	42	3	-	-	-	10	10	<150	1	*	47	40	40	2	0.3	0.0
Thorney Island	06.6	+10	W	1	Zo	43	92	41	5	5	-	-	10	10	800	1	*	50	42	40	4	1	*
Lympne	05.8	+18	W	3	Zo	45	97	44	6	5	-	-	9+	9+	700	2	§ 2	48	44	43	8	9	0.0
Manston	04.9	+16	S'W	3	c/d	45	97	45	6	5	2	-	7-8	10	700	1	*	47	45	44	7	11	0.0
Shoeburyness	05.4	+6	SW	3	Zo	45	92	43	5	5	-	-	7-8	7-8	1500	1	*	48	44	41	5	3	0.0
Felixstowe	03.9	+8	W'S	3	m	45	97	45	4	5	-	-	10	10	2000	1	3	47	45	43	6	8	0.0
Gorleston	02.9	+12	NW'N	3	∞/d	46	97	45	7	6	-	-	10	10	800	1	2	46	45	45	4	16	0.0
Mildenhall	04.3	+10	W'N	3	m	44	97	43	4	5	-	-	10	10	700	1	*	47	43	43	3	8	0.0
Cranwell	03.9	0	W'S	3	of	40	97	39	3	5	-	-	10	10	200	1	*	45	39	39	Tr	0.2	0.0
Birmingham	94.9	-2	SSW	3	m	39	97	38	4	5	-	-	10	10	1500	1	*	45	38	36	0.2	-	
Upper Heyford	04.7	+4	WSW	2	F+	40	97	40	1	-	-	-	10	10	<150	1	*	48	39	37	1	2	*
Ross-on-Wye	05.1	0	-	0	Zo	37	97	36	6	5	-	6	Tr	9	3000	1	*	46	36	30	Tr	-	0.0
Hartland Point	04.2	-10	SW	4	c	48	85	44	8	4	2	-	2-3	9	2500	1	4	51	45	39	-	2	4.7
Bristol	06.0	+2	SE	2	m/f	43	97	43	4	5	4	6	1	9	2500	1	*	48	38	31	Tr	-	0.0
Portland Bill	06.3	+4	W	3	ebc	49	97	47	7	5	4	8	2-3	7-8	4000	1	4	52	44	*	5	-	*
Plymouth	07.2	-2	-	0	m	38	97	38	4	5	-	6	2-3	9	2500	1	3	50	37	31	-	-	2.9
The Lizard	05.8	-8	WSW	5	c/pr	50	75	43	7	8	2	-	7-8	9+	2000	1	4	52	47	*	Tr	0.5	4.2
Scilly (St. Mary's)	03.9	-22	S'W	4	roro	49	92	47	6	5	-	-	10	10	800	1	4	55	47	*	1	11	4.8
Guernsey																							
Pembroke	03.0	-10	SW	5	eq	50	75	43	8	8	2	-	7-8	10	2500	1	3	53	*		0.4	Tr	3.3
Holyhead (Valley)	01.2	-2	S	5	cr	47	85	42	7	5	7	-	7-8	10	3000	1	3	50	38	30	3	Tr	*
Chester (Sealand)	03.0	-4	-	0	cf	37	97	37	2	-	4	-	0	9	-	1	*	42	36	32	-	0.1	0.0
Manchester	04.1	-4	SSE	2	oF-	39	97	38	3	5	-	-	10	10	600	1	*	45	39	37	-	-	*
Spurn Head	03.3	0	WNW	2	m	41	97	41	4	5	-	-	10	10	1500	1	2	46	41	*	-	Tr	0.0
Catterick	03.3	-6	SSW	2	F-	34	97	34	1	-	-	-	10	10	<150	1	*	40	33	33	Tr	0.2	0.0
Tynemouth	03.7	-6	SW	2	cbcf-	34	97	34	2	5	-	-	7-8	7-8	1500	1	2	42	34	33	-	Tr	*
St. Abbs Head	00.8	-6	SW	2	c	42	92	40	7	5	-	-	9+	9+	2500	0	2	47	42	*	-	-	
Leuchars	00.0	-6	-	0	m	40	92	39	4	5	-	-	2-3	2-3	3500	1	*	45	37	30	-	-	0.3
Renfrew (Abbots I.)	99.1	-22	SE	1	Zo	41	92	39	6	5	-	-	7-8	7-8	2200	1	*	50	37	31	0.1	Tr	0.2
Eskdalemuir	00.5	-10	S'W	2	c	41	97	40	6	5	-	-	10	10	400	1	*	44	40	40	0.3	2	0.0
Point of Ayre	99.8	-12	SW	4	b	44	85	39	8	4	7	-	Tr	1	2000	1	3	51	37	*	2	-	0.6
Tiree	92.3	-38	S'E	6	c	46	85	41	8	5	-	-	10	10	2500	1	5	50	45	43	Tr	0.2	0.8
Stornoway	92.1	-30	S	6	bc	48	85	45	8	8	-	-	4-6	4-6	2200	1	*	49	46	43	Tr	1	0.0
Dalwhinnie	96.5	-20	S	3	c	40	85	35	7	5	2	-	4-6	10	2500	1	*	44	37	30	1	0.2	0.0
Aberdeen †	99.8	-8	S	2	Zo	45	92	43	6	5	-	-	10	10	2500	0	2	47	43	35	-	0.1	0.8
Wick	97.8	-8	S	1	bc	41	92	39	8	5	-	-	4-6	4-6	3000	1	*	47	41	33	-	-	
Sumburgh	98.8	-10	S	4	Zo	47	92	45	6	5	-	-	9	9	800	1	3	48	46	42	3	-	0.0
Blacksod Point	90.1	-14	SWW	7	RR	49	97	48	7	6	2	-	4-6	10	800	2	5	50	46	*	2	9	
Malin Head	91.1	-46	S'E	5	r	42	85	38	8	5	2	-	7-8	10	1500	2	4	48	46	39	0.1	0.5	2.7
Aldergrove	97.1	-30	SSE	3	iro	42	85	37	7	-	2	-	10	10	4500	1	*	46	36	30	0.3	0.2	0.2
Birr Castle	95.2	-44	S	3	ir	46	92	44	7	6	2	-	7-8	10	800	1	*	51	38	32	-	2	2.1
Valentia Obsy.	97.2	+14	WNW	5	c/r	50	85	46	8	6	-	-	9+	9+	1500	1	4	51	39	36	Tr	4	3.5
Roches Point	96.7	-38	S'W	6	rr	50	92	48	6	6	2	-	4-6	10	800	1	5	50	44	*	-	7	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 18th Dec. $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 19th Dec. $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	57	05671	16114	50	05663	16213	5-	05671	17301	5-	01662	13202
115	56	02854	16225	52	81834	16387	52	02954	16327	74	02954	12325
203	55	02853	16427	50	02945	16485	5-	02847	16427	5-	02845	16485
206	53	05662	00044	53	05661	24123	53	01861	00012	5-	02766	12216
210	54	01854	14214	06	01890	13114	00	00890	00010	00	00890	00000
220				52	63636	17468						
230	57	81856	16187	83	25853	16184	83	25856	00087	5-	01854	16224
245	57	05565	00016	04	05590	24114	5-	05667	19217	50	05664	18114
260	84	02765	17126	53	05654	17215	53	08454	18228	53	08455	26124
278	33	02857	18287	87	05646	22127	13	01761	13202	5-	02754	14314
279	57	02755	18226	5-	05667	00087	83	47365	00048	53	05564	15386
285				5-	47227	04347						
288	5-	45338	19248	5-	45338	16248	--	46109	18249	--	48109	18249
575	14	01841	00011	07	01890	20114	03	01890	18213	5-	62641	16468
301	5-	08425	14447	5-	61434	15227	5-	67328	16168	5-	47348	16268
321	5-	05528	17128	--	49309	04129	5-	45328	28148	--	48109	20149
299	--	46109	22x19	--	46309	22349				--	46209	22149
292	5-	41439	14148	--	48209	00049	--	46309	00049	--	46109	16159
310				--	08435	16345						
614				5-	47338	00058	5-	57338	28158	5-	45138	24158

III	13h. G.M.T. 18th Dec. $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 19th Dec. $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	23	05644	14214	53	05654	00086	00	47190	00080	51	05654	16328
334	--	01772	12203	--	01662	02103				--	04445	00015
340	--	05635	18147	5-	05538	00028	--	44109	20149	5-	41454	16144
136	02	05548	14228	62	62414	16168	02	62418	31368	5-	08418	25368
336	--	48109	20349							50	01654	12314
350	02	41438	06158	5-	58428	02268	5-	08438	28268	5-	45128	24248
368	00	41490	04246	03	08490	00014	00	47190	00040	5+	43254	16144
379	87	09455	02167	--	48309	32159	--	44209	32159	--	48109	28349
390	5-	62448	12268	5-	67328	06168	5-	67338	28268	5-	53336	20268
382	5-	05648	08158	5-	08448	02228	5-	51438	27248	--	46309	20349
438	5-	03748	08368	52	62745	20168	5-	08448	24258	5-	03548	24328
430	52	62636	04328	5-	64438	32268	5-	05544	30128	5-	08448	26228
409	20	01763	30213	37	81757	26227	20	01753	25223	5-	02767	17317

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

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

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 19th December, 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	rfiom	orrofm	rrocmo
Croydon	cmoirocm	cmodfrdodf	cdodfcm
Greenwich	iromom	iromrrf	rrfom
Camden Square	or	or	*
Kensington	or	or	*
Hampstead	or	or	of

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max 0.5 Time 12-46h 18th; Min. 0.? Time 0-46 19th.

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 13h % Yesterday	Humidity 9h % To-day
Kew	49	43	41	4	4	0.0	*	*
Croydon	48	43	42	5	2	0.0	*	*
Greenwich	48	42	42	7	2	0.0	97	95
Westminster	49	42	41	10			98	95
Regents Park	48	42	41	5	5		96	96
Camden Square	49	42	42	6	4	*	*	97
Kensington	49	42	1	4			97	95
Hampstead	50	39	37	2	5		*	97

SECRET

Page 1 **BRITISH SECTION**

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

Sunday 20th December 1942

No. 29613

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Amount Low 0–10 (13)	Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	04·8	-18	SSW	3	zo	47	85	44	6	5	2	-	4-6	10	4000
	Croydon	06·2	-10	S	3	zo	47	92	45	5	5	7	-	7-8	10	2500
	S. Farnborough	04·8	-22	S'W	3	zo	46	92	45	6	-	7	-	0	10	-
	Boscombe Down	04·7	-26	S	4	rr	46	92	44	6	5	-	-	10	10	2000
	Thorney Island	05·7	-18	SSW	3	c	51	75	45	7	5	7	-	Tr	10	1500
	Lympne	06·6	-10	SW	2	zo	45	97	44	6	5	7	7	Tr	10	500
	Manston	06·2	-6	SW'W	2	zo	45	92	43	6	5	1	-	4-6	9+	1500
2	Shoeburyness	06·6	-4	SW	3	zo	45	85	43	5	5	-	-	7-8	7-8	2500
	Felixstowe	05·1	-4	S'W	3	m	44	92	42	4	5	-	-	10	10	800
	Gorleston	04·2	-4	W'N	3	zo	44	85	41	6	5	-	-	10	10	800
	Mildenhall	04·2	-8	SW'S	4	zo	45	92	42	6	5	3	-	2-3	9	800
	Cranwell	02·3	-18	SSW	3	zo	43	97	42	6	5	7	-	7-8	10	4000
3	Birmingham	02·5	-12	SSW	3	Lr	43	97	42	6	6	2	-	4-6	10	800
	Upper Heyford	03·5	-16	SSW	3	zo	44	97	42	6	5	2	-	2-3	10	800
4	Ross-on-Wye	01·9	-24	SSW	4	rr	45	92	43	6	6	-	-	10	10	800
5	Hartland Point	00·1	-16	SSW	5	ir	51	92	49	6	5	2	-	7-8	10	1000
	Bristol	03·1	-28	S	3	rr	47	92	45	6	6	2	-	7-8	10	1200
	Portland Bill	04·8	-20	SW	5	rr	49	92	47	7	5	-	-	10	10	2500
	Plymouth	02·1	-38	SSW	5	rr	52	97	52	6	6	2	-	9	10	400
	The Lizard	00·8	-32	NW	6	c/r	52	97	52	7	5	2	-	9	10	1000
	Scilly (St. Mary's)	03·2	+14	WNW	7	c-bc	51	75	44	7	8	-	-	7-8	7-8	1200
	Guernsey															
6	Pembroke	00·4	-8	NW	6	oq	50	75	42	7	5	-	-	10	10	2000
7	Holyhead (Valley)	97·2	-18	SW'W	3	c/r	46	97	45	7	8	2	-	7-8	10	1000
	Chester (Sealand)	99·0	-28	S	3	rr	43	97	41	6	-	2	-	10	10	1500
8	Manchester	00·9	-22	S'E	4	rr	43	92	40	4	6	2	-	2-3	10	600
10	Spurn Head	02·5	-8	SW'S	4	zo	42	97	41	5	5	-	-	10	10	1500
	Catterick	00·0	-26	SSE	3	F+	39	97	39	1	-	-	-	10	10	<150
	Tynemouth	99·8	-16	SW	2	of	40	97	40	3	5	-	-	10	10	2400
11	St. Abbs Head	96·8	-24	S	3	c	43	75	37	6	5	2	-	7-8	10	3000
	Leuchars	95·7	-24	SSE	3	ir	44	85	39	6	5	2	-	9	10	2000
12	Renfrew (Abbots I.)	94·5	-26	SSW	1	roro	45	85	43	6	5	2	-	7-8	10	900
	Eskdalemuir	96·3	-24	S'E	3	roro	41	92	39	6	-	2	-	10	10	900
	Point of Ayre	95·5	-22	SW'S	5	roro	47	92	45	7	6	2	-	7-8	10	800
13A	Tiree	92·0	+22	W	5	c/pr	47	75	40	8	2	-	8	7-8	9	1500
13B	Stornoway	86·4	-30	SSE	8	c/r	47	92	45	8	5	2	-	9+	10	1500
15	Dalwhinnie	93·0	-16	S	3	rr	39	85	35	6	5	2	-	9	10	2500
	Aberdeen	95·5	-24	S'E	3	zo	45	92	43	6	5	7	-	1	10	1500
	Wick	92·8	-30	SE	5	c	45	85	40	9	-	7	-	0	10	-
16	Sumburgh	96·1	-18	S'E	6	c	45	85	41	7	5	2	-	9	10	1000
17	Blacksod Point	98·1	+38	W	6	bc	48	97	47	8	8	-	6	4-6	4-6	4000
18	Malin Head	93·3	+30	WSW	4	c	47	85	43	8	8	2	-	4-6	9	2500
	Aldergrove	95·9	+20	W'S	3	c/pr	46	92	44	7	8	7	-	4-6	9	2000
19	Birr Castle	00·6	+34	WNW	3	pro	46	75	39	7	8	-	-	7-8	7-8	1500
20	Valentia Obsy.	04·1	+26	W'N	6	b-bc	50	65	39	8	2	-	-	2-3	2-3	2500
	Roches Point	03·0	+32	WNW	5	b	49	65	38	8	5	-	-	1	1	2500

OBSERVATIONS at 18h. G.M.T. 19th December — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	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)	Weather 7h.–13h. 19th (39)	13h.–18h. 19th (40)	18h. 19th to 1h. 20th (41)	1h.–7h. 20th (42)
London (Kew)	03·1	-6	SSW	4	roro	48	92	46	6	6	2	-	10	10	400	1	*	cmo	rrmoro	Crorcmo	bcbbc
Croydon	03·8	-16	S	3	iro	48	97	47	5	6	2	-	7-8	10	900	1	*	cmmo	roirom	Ciromobcmo	bcmobm
S. Farnborough	02·7	-8	SSW	4	ro	48	92	46	5	5	2	-	9+	10	800	1	*	cfeocmo	cmiror	crrormob	bmocmoc
Boscombe Down	04·3	+14	WNW	4	c/r	46	92	44	6	5	-	-	2-3	10	5000	1	*	ofcmo	crrmcmo	cmovcbbc	bcc
Thorney Island	03·7	-4	SW'S	4	rr	49	97	48	6	-	2	-	10	10	1900	1	*	otcmc	ccrr	cbcb	cbcmo
Lympne	05·4	-2	S	4	roro	47	92	45	6	5	2	-	9	10	1300	1	§5	omcmo	cmiro	crorqmo	cbc
Manston	04·6	-6	SW	4	roro	49	97	48	4	5	2	-	10	10	2000	1	*	cocmo	cmoiro	CroroRqrorm	cbcbm
Shoeburyness	05·2	-8	S	3	rr	48	92	45	5	-	2	-	10	10	1500	1	*	bcmocmo	cmrr	crrcmo	bcmo
Felixstowe	04·0	-10	SSE	4	roro	47	97	46	5	5	7	-	7-8	10	4000	1	4	cm	cmcrorom	Croromocmo	cmobcmo
Gorleston	03·6	-4	SW	3	pro	45	85	40	6	5	-	-	10	10	800	1	3	cmo	cmpro	cprororo	cbc
Mildenhall	02·3	-10	S	3	roro	47	92	44	4	5	2	-	7-8	10	800	1	*	cmcmo	omcmroro	Cmrorocmo	cmobmo
Cranwell	01·2	+2	SW'S	4	roro	45	97	45	6	5	2	-	7-8	10	1500	1	*	omcmo	crorodd m	cdodobcmo	bcmo
Birmingham	02·5	+14	W	3	c	45	92	43	6	6	1	-	7-8	10	800	1	*	o	orrc	cbcpro	bc
Upper Heyford	02·7	+8	W'N	3	c/r	46	85	42	6	5	-	-	9+	9+	3000	1	*	ofcmmo	cmrrirom	bcbcmobmo	bmobcmo
Ross-on-Wye	04·4	+40	W	3	c	45	75	37	8	5	1	3	7-8	9	2000	1	*	cor	rorc	bbcc	bbcc
Hartland Point	07·1	+40	NW	5	b-bc	49	65	39	7	1	-	-	2-3	2-3	1500	1	5	crrirc	ircbc	bccbc	bcc
Bristol	05·7	+36	W'N	5	m	46	85	40	4	5	1	-	4-6	7-8	2500	1	*	crorr	crrpro	bmobcmoc	cmobcmo
Portland Bill	05·0	+24	WNW	5	o	49	92	47	7	5	-	-	10	10	2500	1	5	corr	o	cbbc	c
Plymouth	08·3	+52	WNW	4	zo	47	75	40	6	5	-	-	1	1	2500	1	3	crrmo	crrbcbmo	bcc	cbcw
The Lizard	09·1	+52	NW'N	6	bc	50	65	39	8	8	-	-	4-6	4-6	2000	1	4	orrc	cbc	bc	bccbc
Scilly (St. Mary's)	09·8	+40	WNW	5	b-bc	49	75	40	8	6	-	-	2-3	2-3	1200	1	4	crrc	cbc	ccb, c	cbc
Guernsey																					
Pembroke	06·3	+24	W'N	5	cbcq	49	75	40	8	8	2	-	4-6	7-8	2500	1	3	rrmocq	bcq	bcq	bcq
Holyhead (Valley)	04·7	+36	NW'W	6	c-bc	47	75	38	8	7	-	-	7-8	7-8	2500	1	4	prrmoc	cbc	bp bcp	cbbcb
Chester (Sealand)	02·6	+38	W'S	3	iro	46	75	39	6	5	-	-	7-8	7-8	2500	1	*	ffrrc	crridomo	bmobcpro	cbc
Manchester	01·9	+22	WSW	3	zo	44	92	41	6	4	6	-	2-3	7-8	2500	1	*	cffmir	crrm	cprobmo	cmobmdv
Spurn Head	01·1	0	S'W	4	roro	45	92	43	6	5	2	-	7-8	10	1500	1	3	fom	crormo	bc	bc
Catterick	99·4	+6	SSW	1	cf-	42	97	42	2	6	7	-	2-3	9	400	1	*	oFeoF	oFido	Fmbcb	bbcc
Tynemouth	98·6	+6	SSW	3	o/r	43	97	42	3	5	-	-	10	10	1600	1	2	coff	offrr	off bc b	bbc
St. Abbs Head	96·9	+12	SW	3	rr	43	92	41	6	5	-	-	10	10	2500	1	2	cmo	cmrorr	cmob	bbc
Leuchars	96·6	+20	WNW	2	zo	43	92	41	6	5	7	-	7-8	9+	2500	1	*	bcmw c	rrromo	cmobcb	bbccmo
Renfrew (Abbots I.)	99·7	+46	W'S	2	c/pr	43	85	39	6	8	3	-	2-3	9	2500	2	*	cmroro	crroprcmo	bcbbc	bcprocbc
Eskdalemuir	98·7	+34	W'N	3	c	41	65	26	7	5	-	-	9	9	1800	1	*	croro	crirc	bbc	cmo
Point of Ayre	01·6	+46	NW	6	bc	46	75	39	8	-	3	-	0	4-6	-	1	4	rrroro	rorocbc	bcb	bbcc
Tiree	98·1	+42	W	3	b-bc	44	65	34	8	3	-	3	2-3	2-3	2500	1	3	crrprc	cjpbc	bclbc	bcbbc
Stornoway	94·2	+48	WSW	6	pro	42	97	42	7	3	-	3	4-6	4-6	1800	1		bccroroc	cprom	cbbccpro	ciro
Dalwhinnie	96·6	+24	SW	4	bc	39	75	32	8	5	-	8	1	4-6	2500	1	*	orr	oirobc	*	bcproc
Aberdeen	96·3	+22	SSW	3	iro	44	92	42	4	6	2	-	4-6	10	1500	1	2	czo	czoirom	czbczobx	bbc
Wick	93·9	+16	S'W	3	c	44	85	39	8	5	2	-	4-6	10	5000	1	*	c	c	cbcb	bc
Sumburgh	93·8	-12	S	6	iro	46	85	41	6	5	2	-	7-8	10	1000	1	4	cmo	cmiro	Crorooc	cbcb
Blacksod Point	02·1	+26	WSW	4	b/pr	45	97	44	8	5	-	-	1	1	2500	2	4	bc	pr	bc	c
Malin Head	99·4	+38	W'N	5	bc	47	65	36	8	8	-	-	4-6	4-6	2500	2	4	pr	c	r	c
Aldergrove	02·6	+44	SW'S	2	c	40	85	36	8	5	3	-	4-6	9+	2500	1	*	crorom oc	ccprc	cbcc	bccbcb
Birr Castle	05·2	+38	WSW	2	b-bc	41	85	37	8	-	-	8	0	2-3	-	1	*	pr	pr	*	c
Valentia Obsy.	08·6	+30	WSW	4	c	49	85	45	8	5	-	-	9+	9+	2500	1	4	bc	pr	pr	pr
Roches Point	08·1	+36	W	3	c-bc	47	85	43	8	5	7	-	4-6	4-6	2500	1	4	r	b	bc	c

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

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands	Freshening Southwest to South winds; fair at first, mainly overcast with some occasional rain mostly slight later; rather cold becoming mild.
4 W. Midlands; 5 S.W. England ↓; 6 South Wales ↓	Fresh to strong southerly winds, perhaps gale locally on the coast; cloudy or dull; occasional rain; mild.
7 North Wales ↓; 8 N.W. England; 9 N. Midlands	Fresh to strong southerly winds, gale at times on the coast; becoming dull and rainy; mild.
10 N.E. England; 11 S.E. Scotland	Freshening southerly winds; mainly fair at first, occasional rain later; rather cold becoming milder.
12 S.W. Scotland & Isle of Man; 13A W. Scotland ↓; 13B N.W. Scotland ↓; 14 Mid Scotland	Strong to gale southerly winds; dull; rain at times; mainly mild.
15 N.E. Scotland; 16 Orkneys and Shetlands	Winds southwest backing south increasing strong to gale; cloudy; becoming dull and rainy; mainly mild.
17 N.W. Ireland ↓; 18 N.E. Ireland ↓; 19 S.E. Ireland ↓; 20 S.W. Ireland ↓	Strong to gale southerly winds, veering southwest and easing by tomorrow; dull and rainy today; showers and bright intervals tomorrow; mild today then somewhat colder

GENERAL INFERENCE

A very deep and active depression is moving north to Iceland, and further secondaries are indicated on the eastern Atlantic moving northeast. Stormy conditions with strong to gale, southerly winds will prevail over the northwest half of the British Isles with rain at times, but weather will be fair today in the southeast but with some light rain during the night; conditions will continue mainly mild.

FURTHER OUTLOOK

Continuing generally unsettled and mainly mild.

↓ Gale warning in operation in districts 5, 6, 7, 17, 20 time of issue 04·55 20-12-42
13A, 13B, Part of 18, 19 time of issue 0900 20-12-42

Forecasts issued at 10·30

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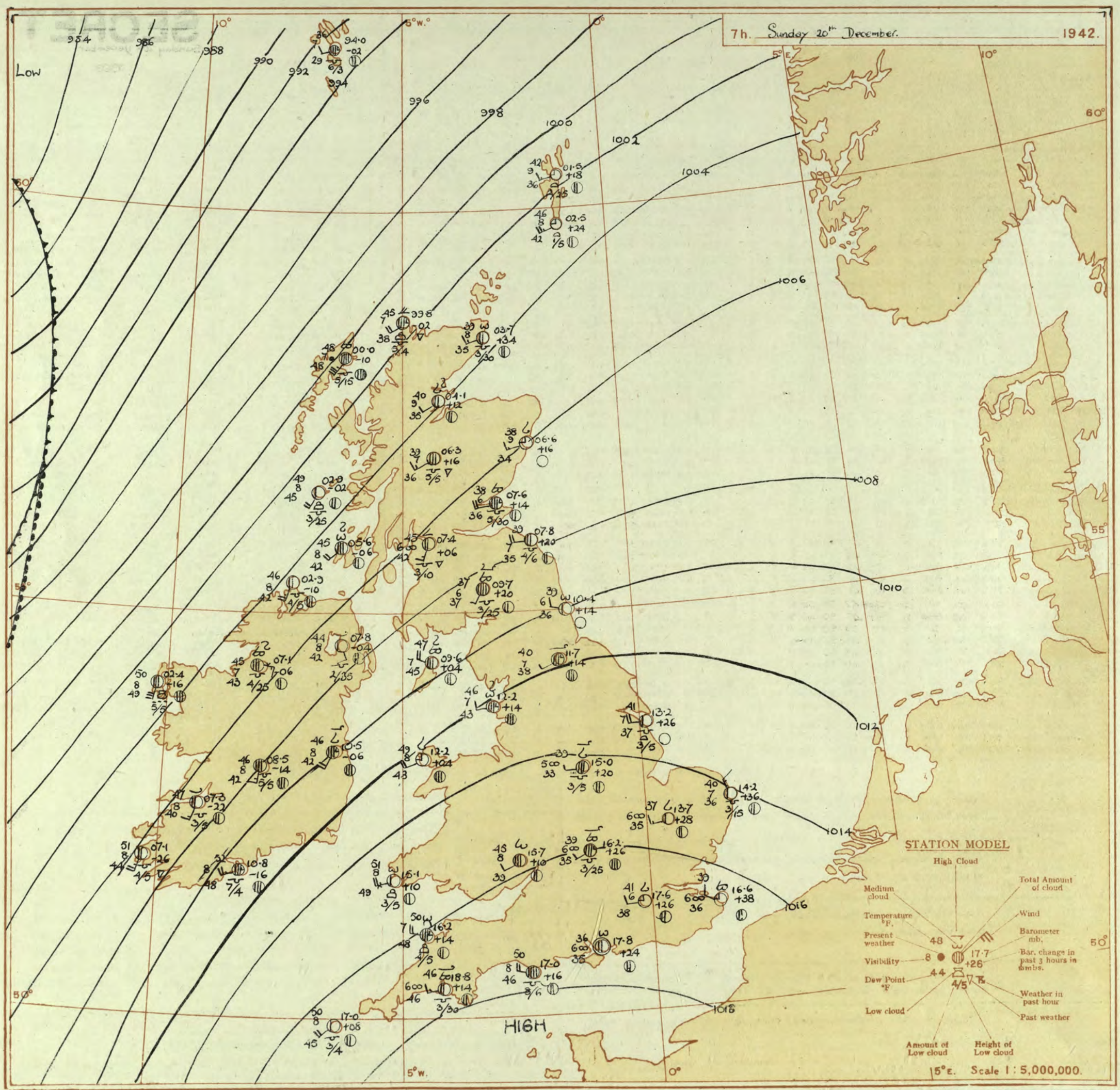


H.M.S.O. Press, M.O., Dunstable.

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

Explanation of Frontal Lines shown on Charts

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

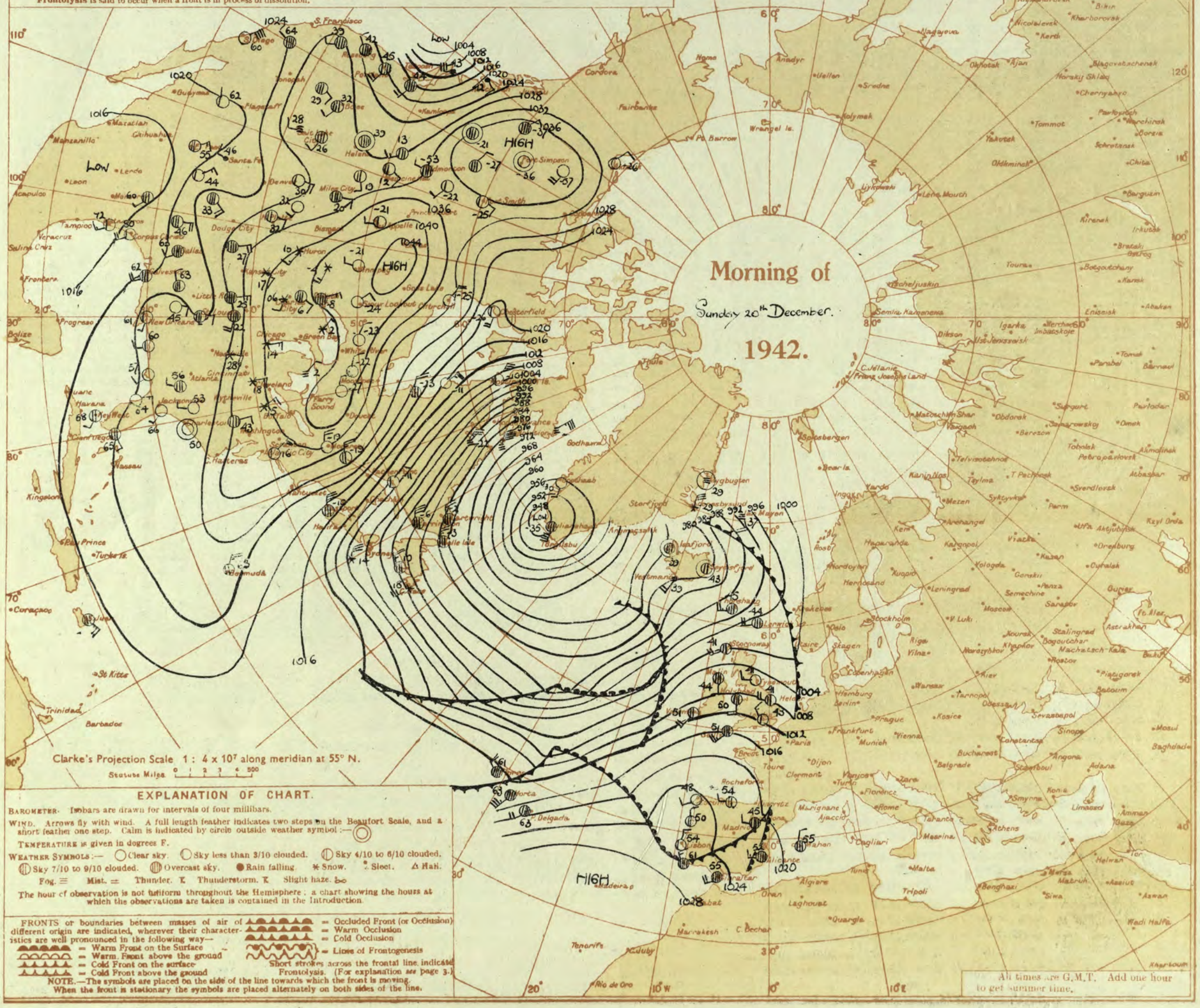
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

BRITISH SECTION

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

Sunday 20th December 1942
No. 29613

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

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	*	*	*	*	*	44	*	*	*	*	*	*	*	*	*
	Croydon	290	12.2	+40	NW	3	20	43	92	41	6	-	7	-	0	2-3	-
	S. Farnborough	226	12.3	+34	WN	3	b	41	85	37	8	-	7	-	0	1	-
	Boscombe Down	417	13.4	+30	W'N	4	bc	40	85	36	7	-	-	6	0	4-6	-
	Thorney Island	10	12.6	+38	NW	2	b	41	85	37	7	-	3	-	0	1	-
	Lympne	283	10.6	+46	NW	6	c	44	85	39	7	5	-	-	9+	9+	4500
	Manston	154	09.4	+38	NW	4	c/r	45	85	41	6	5	7	-	4-6	9	4500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	08.0	+30	NS	5	20	46	75	39	5	5	-	-	10	10	2500
	Gorleston	5	06.6	+26	NNW	4	o/r	45	85	43	6	6	-	-	10	10	800
	Mildenhall	15	09.0	+34	WNW	4	20	43	85	40	6	-	7	-	0	10	-
	Cranwell	203	09.6	+38	W	3	20	41	92	38	6	-	5	-	0	2-3	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	10.7	+28	WNW	3	20	43	85	39	6	-	7	-	0	1	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	12.9	+10	WNW	4	bc	49	85	44	7	2	4	-	2-3	4-6	2500
	Bristol	209	13.4	+20	W	2	20	41	85	37	6	-	-	6	0	7-8	-
	Portland Bill	32	12.8	+18	WNW	4	c-bc	45	85	41	8	2	4	-	4-6	7-8	4000
	Plymouth	82	15.7	-20	W	2	c	45	92	42	8	5	7	-	4-6	9	2000
	The Lizard	240	15.3	+16	WNW	6	bc	50	85	46	8	4	6	-	4-6	4-6	2000
	Scilly (St. Mary's)	163	15.5	+14	SW'W	5	c	51	85	47	8	5	-	-	9+	9+	1500
	Guernsey	175															
6	Pembroke	142	12.5	+12	SSE	4	c-bcq	50	85	45	8	2	7	-	4-6	7-8	2500
7	Holyhead (Valley)	32	09.9	+14	W	3	c-bc	47	85	43	8	2	3	6	2-3	7-8	2500
	Chester (Sealand)	16	10.0	+26	SSW	2	bc/pr	42	75	36	7	2	6	-	4-6	4-6	2500
8	Manchester	235	10.0	+28	S	2	20	39	92	36	6	1	3	-	1	2-3	4000
10	Spurn Head	29	07.9	+44	W'N	5	bc	44	85	40	7	7	3	2	4-6	4-6	2500
	Catterick	175	08.2	+34	WNW	1	b	38	85	34	7	-	4	-	0	Tr	-
	Tynemouth	108	06.1	+30	W	3	b	41	85	37	7	-	-	-	0	0	-
11	St. Abbs Head	280	04.8	+44	W	2	b	42	75	34	7	-	-	-	0	0	-
	Leuchars	36	03.8	+26	SW	2	b	36	92	34	8	5	4	-	Tr	Tr	3000
12	Renfrew (Abbots I.)	19	04.9	+14	SSW	2	bc	44	75	35	7	3	-	-	4-6	4-6	2000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	07.5	+20	W'N	4	b-bc	43	85	39	8	4	3	4	Tr	2-3	2800
13a	Tiree	44	02.6	+20	WSW	3	b-bc	44	75	37	8	2	-	-	2-3	2-3	3000
13b	Stornoway	15	00.0	+18	SW	4	bc/pr	41	97	40	8	3	-	-	4-6	4-6	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	03.2	+30	N'S	3	b	39	75	31	8	-	-	-	0	0	-
	Wick	114	00.6	+26	SW'W	4	b	36	92	33	8	-	-	-	0	0	-
16	Sumburgh	19	99.0	+30	WSW	6	c-bc	47	75	40	8	2	3	-	4-6	7-8	1800
17	Blacksod Point	18	05.0	+6	SW	4	bc	51	97	50	8	8	6	-	2-3	4-6	2500
18	Malin Head	84	03.4	+12	S	2	c	44	85	40	8	8	2	-	4-6	10	2500
	Aldergrove	268	07.2	+16	SW'S	2	bc	40	92	38	8	-	-	8	0	4-6	-
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	10.9	+6	SW'S	4	bc	51	85	47	8	2	-	-	4-6	4-6	2500
	Roches Point	22	12.0	+12	W	3	bc	57	85	53	8	5	-	-	4-6	4-6	2500

OBSERVATIONS at 7 hr. G.M.T. 20th December — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	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)	Temperature Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 19th Hrs. (38)
London (Kew)	17.8	+30	SW	3	b-bc	40	85	36	7	5	-	6	1	2-3	2500	1	*	48	40	31	2	1	0.0
Croydon	17.6	+26	WS	2	b	41	85	38	6	-	4	-	0	Tr	-	1	*	48	39	*	2	1	0.0
S. Farnborough	17.7	+24	SWW	2	b-bc	38	92	37	7	-	4	-	0	2-3	-	1	*	48	36	26	2	0.6	0.0
Boscombe Down	17.7	+18	SSE	2	c-bc	39	92	37	7	5	3	-	1	7-8	2500	1	*	48	37	32	9	Tr	0.0
Thorney Island	17.8	+24	-	0	20	36	92	35	6	-	3	-	0	4-6	-	1	*	51	35	29	6	Tr	*
Lympne	17.9	+38	WNW	2	b-bc	34	97	33	7	-	4	-	0	2-3	-	1	§4	48	34	30	0.4	7	0.0
Manston	16.6	+38	WN	2	20	39	85	36	6	-	7	-	0	1	-	1	*	49	39	36	0.1	6	0.3
Shoeburyness	14.2	+24	WNW	2	20	40	85	36	6	-	3	-	0	2-3	-	1	*	48	38	31	0.6	4	0.0
Felixstowe	15.8	+28	SW	3	20	41	85	36	6	-	7	-	0	Tr	-	1	4	47	39	35	1	2	0.0
Gorleston	14.2	+36	NW	3	b-bc	40	85	36	7	5	-	-	2-3	2-3	1500	1	2	45	39	35	Tr	5	0.0
Mildenhall	13.7	+28	SWW	3	20	37	92	35	6	-	4	-	0	2-3	-	1	*	47	36	29	1	1	0.2
Cranwell	13.9	+22	WSW	4	20	39	92	36	5	-	7	-	0	4-6	-	1	*	45	37	34	1	0.2	0.0
Birmingham	15.3	+20	SSW	2	b-bc	39	92	37	6	-	7	-	0	2-3	-	1	*	45	38	32	5	0.1	0.0
Upper Heyford	16.2	+26	SW	1	20	39	85	35	6	5	7	8	2-3	9+	2500	1	*	47	37	31	5	0.1	*
Ross-on-Wye	15.7	+10	SW	2	c-bc	45	85	39	8	-	5	-	0	7-8	-	1	*	49	41	31	3	-	0.0
Hartland Point	16.2	+14	W	4	c	50	92	48	7	2	6	-	4-6	9	2500	1	4	51	48	45	6	-	0.0
Bristol	17.0	+8	WSW	2	20	46	92	44	6	5	-	-	9+	9+	1500	1	*	50	39	32	6	Tr	0.0
Portland Bill	17.0	+16	W	4	c	50	92	46	8	5	-	-	10	10	4000	1	4	50	42	*	8	-	*
Plymouth	18.8	+14	WSW	3	20	46	97	46	6	5	7	1	2-3	4-6	3000	1	2	52	43	32	16	-	0.0
The Lizard	17.7	+12	W	5	bc	51	85	47	8	8	-	-	4-6	4-6	2000	1	4	53	48	*	7	-	1.0
Scilly (St. Mary's)	17.0	+8	SW'S	4	b-bc	50	85	45	8	5	-	-	2-3	2-3	1500	1	4	52	49	*	6	-	2.1
Guernsey																							
Pembroke	15.1	+10	WSW	5	b-bcq	51	92	48	8	2	3	-	2-3	2-3	2500	1	3	51		*	7	-	0.3
Holyhead (Valley)	12.2	+4	SW	4	b	49	85	43	8	-	4	-	0	1	-	1	3	48	45	41	8	Tr	*
Chester (Sealand)	12.8	+12	-	0	bc	41	85	38	7	-	4	8	0	4-6	-	1	*	48	38	29	5	0.2	0.0
Manchester	13.4	+18	S	3	20	39	85	36	6	-	4	-	0	2-3	-	1	*	46	36	32	6	0.1	*
Spurn Head	13.2	+26	N'S	4	b-bc	41	85	37	7	7	-	-	2-3	2-3	2500	0	3	45	38	*	0.6	0.1	0.0
Catterick	11.7	+14	SW	1	c	40	92	38	7	-	-	8	0	9	-	1	*	42	38	27	0.5	-	0.0
Tynemouth	10.4	+14	W	2	b-bc	39	85	36	6	-	3	-	0	2-3	-	1	3	46	39	35	2	-	*
St. Abbs Head	07.8	+20	WSW	4	bc	39	85	35	7	5	-	-	4-6	4-6	4000	0	2	44	36	*	1	0.1	*
Leuchars	07.6	+14	WSW	4	c	38	92	36	6	5	7	-	7-8	9+	3000	1	*	44	35	28	2	-	0.0
Renfrew (Abbots I.)	07.4	+6	S	3	20	45	85	42	6	5	1	-	2-3	4-6	1000	1	*	46	37	30	7	Tr	0.0
Eskdalemuir	09.7	+20	SSW	1	c	37	97	37	6	5	7	7	2-3	10	2500	1	*	42	35	31	6	1	0.0
Point of Ayre	09.6	+4	W	4	c-bc	47	92	45	7	-	7	6	0	7-8	-	1	5	49	42	*	3	-	0.0
Tiree	02.9	-2	SSW	4	b-bc	49	85	45	8	8	-	-	2-3	2-3	2500	1	4	48	42	41	6	Tr	0.0
Stornoway	00.0	-10	SSW	7	ir0	48	97	48	7	5	7	-	7-8	10	1500	1	*	49	39	35	2	3	0.0
Dalwhinnie	06.3	+16	SW	3	c-bc	39	92	36	7	5	-	-	7-8	7-8	2500	1	*	42	34	25	3	0.3	0.0
Aberdeen †	06.6	+16	SW'W	3	b	38	85	34	9	-	4	-	0	1	-	1	2	45	36	29	0.2	-	0.0
Wick	03.7	+34	SW'W	3	bc	39	92	35	8	5	3	-	2-3	4-6	3000	1	*	46	36	31	0.5	-	*
Sumburgh	02.5	+24	SW	5	b	46	85	42	8	1	-	-	Tr	Tr	2500	1	4	47	46	42	-	1	0.0
Blacksod Point	02.4	-16	S	6	c-bc	50	97	49	8	9	-	-	7-8	7-8	2500	1	4	50	44	*	3	-	*
Malin Head	02.9	-10	S	5	bc	46	85	42	8	5	-	-	4-6	4-6	2500	2	4	48	41		3	0.6	0.5
Aldergrove	07.8	-4	SSE	2	b-bc	44	92	42	8	5	-	1	1	2-3	3500	1	*	46	38	32	7	1	0.4
Birr Castle	08.3	-14	S	3	c-bc	46	85	42	8	5	-	-	7-8	7-8	2500	1	*	49	40	36	3	2	2.6
Valentia Obsy.	07.1	-26	SW	5	bc/pr	51	75	44	8	5	-	-	4-6	4-6	2500	1	4	51	47	42	Tr	Tr	3.8
Roches Point	10.8	-16	WSW	5	c	52	85	48	8	5	-	-	9+	9+	1500	1	4	52	45	*	2	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

IIIC_L C_M (13h. G.M.T. 19th December)	wwVhN_h	DDFWN	C_L C_M (18h. G.M.T.)	wwVhN_h	DDFWN	C_L C_M (01h. G.M.T. 20th December)	wwVhN_h	DDFWN	C_L C_M (07h. G.M.T.)	wwVhN_h	DDFWN
109 57	02696	47626	52	22645	60467	70	01763	21413	57	01663	19314
115 52	64735	14568	87	25844	91686	87	81844	57587	82	02745	20487
203 5-	02847	16627	50	00851	20681						
206 57	22863	20368	93	02853	22467	50	01863	12213	04	01990	20114
210 52	61755	14428	53	02865	20368	03	01890	19311	04	02890	18317
220									52	03435	22628
230 62	62257	18468	8-	02865	20385	3-	25963	20483	50	01853	18183
245 57	05665	16428	52	05653	26168	00	00890	00000	20	02851	00017
260 02	63648	16268	57	22655	20368	00	05690	20300	3-	05657	20227
278 52	22834	22834	53	01863	57467	54	01861	24324	53	02864	14227
270 62	62645	15368	33	29655	22386	03	01790	22413	57	05664	18426
285 27	05625	12128	6-	22626	24568						
288 5-	08448	18228	5-	61448	17368	00	00790	16200	57	05652	15214
575 86	81235	20487	86	02845	20415	01	02890	20218	57	02754	41315
301 02	64435	15468	26	01751	26464	00	01890	28402	03	02790	22427
321			52	22445	19266	00	05690	25100	57	05662	22224
290 5-	08448	22228	5-	02648	20468	50	01753	26313	00	00790	22113
292 --	44509	12249	5-	45348	17268	40	01761	23341	07	05690	15228
310											
614 52	08536	18348	5-	22448	22268	00	08690	22110	54	05553	22115

IIIC_L C_M (13h. G.M.T. 19th December)	wwVhN_h	DDFWN	C_L C_M (18h. G.M.T.)	wwVhN_h	DDFWN	C_L C_M (01h. G.M.T. 20th December)	wwVhN_h	DDFWN	C_L C_M (07h. G.M.T.)	wwVhN_h	DDFWN
338 52	22744	24362	80	01855	22515	00	01890	24214	5-	02755	20325
334 --	64537	20166									
340 02	64448	14368	57	01672	26224	04	01790	28102	34	01641	16213
136 57	05526	20348	02	62468	17368	57	02763	26527	03	05690	23214
336 62	64626	20368	57	02753	28427						
350 5-	05645	18348	62	62535	20368	00	01890	27222	07	05690	20214
368 62	62635	16268	50	00662	24213	00	02690	26116	24	01753	20413
379 62	61528	70328	52	21536	22458						
390 52	47535	16248	52	67336	16368	00	05690	61420	04	05590	22313
382 5-	61758	17428	5-	22767	28467	07	01790	26313	07	01690	27125
438 87	02743	24418	8-	62648	20468	50	01764	28314	30	01753	24313
430 57	02765	18248	5-	64434	55568	04	00790	28313	00	05690	28415
409 82	22768	20568	54	01794	28514	5-	02767	25627	60	01753	22923

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

Stations	Weather Morning	Weather Afternoon	Weather Night
Kew	cm0	rom0r0	cr0rcm0
Croydon	cmm0	rir0m0	cir0m0bcm0
Greenwich	cm0	crr0	rr0bbcf
Camden Square	or	or	*
Kensington	orrc	bc	*
Hampstead	bc	or	orbc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 0.3 Time 11-12h 19th
Min. <0.1 Time 0-5h 20th.

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	48	40	31	2	1	0.0	*	*
Croydon	48	39	*	2	1	0.0	*	*
Greenwich	48	37	30	1	1	0.0	89	90
Westminster	49	38	31	3			89	95
Regents Park								
Camden Square	48	38	30	1	1	*	*	94
Kensington	49	39	30	2	1			93
Hampstead	47	39	38	0.4	2		*	96

SECRET

BRITISH SECTION

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

Monday, 21st December 1942

No. 2964

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	19·4	+6	SW	3	z_0	49	85	45	6	5	3	8	7-8	9	2500
	Croydon ...	20·0	+14	SSW	3	z_0	51	75	45	6	5	-	6	4-6	7-8	3000
	S. Farnborough	19·4	+4	SW	3	c	50	85	46	7	5	-	2	9	9+	1000
	Boscombe Down	19·0	-4	S	4	c bc	50	85	46	7	5	-	8	1	7-8	4000
	Thorney Island	19·8	+2	SW'W	2	z_0	52	75	46	7	5	3	-	9	9+	4000
	Lympne ...	20·4	+6	W'S	2	c	47	85	43	7	-	7	6	0	9	-
	Manston ...	19·4	0	W'S	3	bc	48	75	41	7	-	4	7	0	10	-
2	Shoeburyness ...	19·6	+8	SW'S	3	z_0	48	85	43	5	-	3	5	0	9	-
	Felixstowe ...	18·6	+2	S'W	3	m	46	85	41	4	-	1	6	0	4-6	-
	Gorleston ...	17·5	+10	W	2	bc	48	75	39	7	-	7	4	0	4-6	-
	Mildenhall ...	17·8	+2	SW'S	4	z_0	47	85	42	6	-	4	6	0	9+	-
	Cranwell ...	15·6	+4	SSW	4	z_0	48	85	43	6	-	7	3	0	7-8	-
3	Birmingham ...	15·1	-4	SSW	3	c	47	92	45	6	5	7	-	7-8	9	1500
	Upper Heyford	17·5	0	SSW	3	c	47	92	44	7	5	-	8	7-8	9+	1200
4	Ross-on-Wye	16·2	-6	SSW	4	c	47	75	45	7	1	-	7	2-3	9	2000
5	Hartland Point	14·3	-18	SW	5	c bc	51	85	47	7	4	4	5	4-6	7-8	900
	Bristol ...	17·4	-10	S'W	4	c	50	85	45	7	1	7	6	Tr	9+	2500
	Portland Bill ...	18·4	-4	S	4	c	51	92	49	8	5	7	-	4-6	10	4000
	Plymouth ...	18·4	-8	SW	5	c	52	85	48	7	5	7	7	7-8	10	2000
	The Lizard ...	17·0	-10	WSW	6	c	52	85	48	8	8	2	-	7-8	9+	2000
	Scilly (St. Mary's)	14·1	-18	SSW	5	c	52	85	47	7	5	7	-	7-8	9+	1500
	Guernsey ...															
6	Pembroke ...	13·1	-20	SW'S	6	cq	51	92	48	8	5	-	-	9+	9+	2600
7	Holyhead (Valley)	10·3	-22	S'W	5	c/r	51	85	46	8	5	1	-	7-8	9+	1500
	Chester (Sealand)	13·0	-4	S	2	c	51	65	40	7	7	7	6	4-6	9	1500
8	Manchester ...	14·1	-6	SE	3	z_0	47	85	41	5	5	3	5	7-8	9+	2500
10	Spurn Head ...	15·2	+6	S	3	c	45	85	40	6	7	3	-	4-6	9+	4000
	Catterick ...	12·8	-2	SSW	3	m	45	85	42	4	5	7	-	7-8	10	2500
	Tynemouth ...	11·0	-4	SW	3	z_0	46	85	42	5	8	-	-	7-8	7-8	2500
11	St. Abbs Head	09·0	+2	ESE	2	c	45	92	43	7	5	-	-	10	10	3500
	Leuchars ...	07·6	-6	WNW	1	z_0	45	85	41	6	5	7	7	4-6	10	2500
12	Renfrew (Abbots I.)	06·4	-12	S	3	c	50	75	43	7	5	7	6	4-6	9+	1600
	Eskdalemuir ...	08·3	-14	SSW	6	z_0	46	92	45	6	5	-	-	9+	9+	500
	Point of Ayre ...	09·1	-6	SW	5	c	51	75	42	8	6	7	6	4-6	9+	2500
13A	Tiree	00·0	-22	S'E	6	c	48	85	43	7	5	7	6	4-6	9+	3000
13B	Stornoway ...	97·4	-12	SSW	8	ir_0	49	92	47	6	5	7	-	7-8	9+	1400
15	Dalwhinnie ...	03·5	-2	SSW	3	o	43	75	47	7	5	2	-	7-8	10	2500
	Aberdeen ...	06·9	-8	S'W	2	m	43	92	40	4	5	9	6	7-8	9+	2000
	Wick ...	03·7	-6	S	4	c	46	85	42	8	5	7	-	2-3	9	3000
16	Sumburgh ...	03·5	-4	S'W	4	ir_0	46	85	41	8	5	7	-	4-6	10	3000
17	Blacksod Point	96·3	-26	S	7	rr	49	97	48	6	6	2	-	4-6	10	1500
18	Malin Head ...	99·1	-30	S'E	6	r_0r_0	47	85	43	8	5	2	-	7-8	10	1500
	Aldergrove ...	05·1	-18	S'E	3	c	48	75	41	7	5	7	-	9	9+	2000
19	Birr Castle ...	03·9	-26	SSW	5	c	50	85	46	8	6	2	-	7-8	10	1500
20	Valentia Obsy.	00·8	-28	S'W	7	rr	52	97	51	5	5	2	-	9	10	800
	Roches Point	05·9	-34	SSW	6	ir_0	52	85	48	6	6	2	-	4-6	9+	1500

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

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. (31)	Sea. 0–9 (32)
1	London (Kew)	19·2	+6	SW	4	z_0	49	85	45	6	5	-	-	9+	9+	2500	1	*
	Croydon ...	19·9	+2	SSW	4	z_0	49	85	45	6	5	-	-	7-8	7-8	2000	1	*
	S. Farnborough	19·3	+6	SW'S	5	z_0	48	85	44	6	5	7	-	2-3	9+	1000	1	*
	Boscombe Down	17·7	-6	SSE	5	z_0	48	92	46	6	5	7	-	7-8	9	1500	0	*
	Thorney Island	20·0	+8	SSW	5	c	50	75	45	7	5	-	7	9	10	2500	1	*
	Lympne ...	20·6	+2	SSE	2	z_0	47	97	47	6	-	7	2	0	9	-	1	3
	Manston ...	20·4	+2	SSW	3	z_0	45	97	45	6	-	5	-	0	9	-	1	*
2	Shoeburyness ...	19·5	0	SSW	4	z_0	46	92	44	5	-	3	5	0	9	-	1	*
	Felixstowe ...	19·0	+6	SE'S	5	z_0	46	92	44	5	-	7	6	0	4-6	-	1	4
	Gorleston ...	18·3	+2	SW	3	z_0	45	85	41	5	-	7	-	0	4-6	-	0	2
	Mildenhall ...	17·3	-2	S'W	4	m	47	85	42	4	-	3	-	0	9+	-	1	*
	Cranwell ...	14·3	-10	E'N	4	z_0	42	97	42	6	-	7	-	0	7-8	-	1	*
3	Birmingham ...	13·6	-14	S	4	c	47	85	43	8	5	1	-	4-6	9+	800	1	*
	Upper Heyford	15·4	-20	SSW	5	z_0	48	85	42	6	-	-	7	0	9	-	1	*
4	Ross-on-Wye	13·7	-16	SSW	4	c	49	75	42	7	6	1	-	2-3	10	1000	1	*
5	Hartland Point	10·8	-16	SW	6	c	52	85	47	7	5	3	-	7-8	10	2500	1	5
	Bristol ...	15·4	-12	SSW	5	c	50	85	45	7	5	3	6	1	9	2500	1	*
	Portland Bill ...	16·8	-12	SSE	5	c	50	92	48	8	5	7	-	7-8	10	4000	1	5
	Plymouth ...	16·3	-14	SSW	7	z_0	53	92	50	6	5	7	-	4-6	10	2000	1	5
	The Lizard ...	14·7	+4	SW	7	pr	53	85	48	7	5	-	-	10	10	1000	1	5
	Scilly (St. Mary's)	10·0	-16	S'W	6	rr	52	85	49	6	5	-	-	10	10	1000	1	5
	Guernsey ...																	
6	Pembroke ...	08·6	-22	SSW	8	RR	50	97	49	7	6	1	-	7-8	10	1500	1	5
7	Holyhead (Valley)	06·2	-26	S	7	o/r	50	85	47	6	5	-	-	10	10	1500	1	5
	Chester (Sealand)	11·1	-4	SSW	3	c	50	65	41	7	5	7	-	4-6	10	3500	1	*
8	Manchester ...	11·6	-10	S'E	4	z_0	46	85	41	6	5	3	2	2-3	9	2500	1	*
10	Spurn Head ...	14·4	-8	S	4	z_0	45	85	41	6	7	3	-	4-6	9	4000	1	3
	Catterick ...	10·6	-6	SSE	3	f-	44	92	42	3	5	2	-	4-6	10	900	1	*
	Tynemouth ...	10·1	-6	S	5	m	46	85	42	4	5	-	-	7-8	7-8	2500	1	3
11	St. Abbs Head	05·9	-10	SSE	4	c	47	85	44	7	5	-	-	9+	9+	2500	0	3
	Leuchars ...	04·2	-10	S	3	id	48	75	41	6	5	2	-	9	10	1800	1	*
12	Renfrew (Abbots I.)	02·9	-18	S'E	4	r_0r_0	49	92	46	5	5	-	-	4-6	10	1000	1	*
	Eskdalemuir ...	05·7	-20	SSW	6	rr	45	92	43	6	5	2	-	7-8	10	1100	1	*
	Point of Ayre ...	04·2	-26	SW'S	6	r_0r_0	50	92	48	7	6	2	-	4-6	10	800	1	4
13A	Tiree	96·8	-14	S	6	dd	48	97	47	5	6	2	-	9	10	400	1	
13B	Stornoway ...	96·2	-2	S	7	r_0r_0	48	97	48	6	5	2	-	9+	10	1300	1	
15	Dalwhinnie ...	01·5	-16	S	4	pr_0	43	85	38	7	5	-	-	9+	9+	2500	1	*
	Aberdeen ...	04·0	-12	S'E	4	z_0	47	85	44	5	5	7	-	4-6	10	4000	1	3
	Wick ...	00·5	-26	S'E	5	c	46	85	42	8	5	7	-	4-6	10	3000	1	*
16	Sumburgh ...	01·3	-18	S'W	5	c	46	92	44	8	5	7	8	4-6	9+	3000	1	4
17	Blacksod Point	92·8	-22	SW'W	6	dd	52	97	51	7	6	2	-	4-6	10	800	2	5
18	Malin Head ...	94·7	-26	S	6	c/r	49	85	45	8	5	2	-	7-8	10	1500	2	5
	Aldergrove ...	99·8	-28	S'E	3	RR	48	92	46	6	6	2	-	9	10	900	1	*
19	Birr Castle ...	98·9	-26	SSW	3	c	51	92	49	7	6	2	-	4-6	10	800	1	*
20	Valentia Obsy.	96·4	-20	S'E	6	iR	54	97	53	5	6	-	-	10	10	800	1	5
	Roches Point	01·1	-18	S'W	7	dd	53	97	52	6	5	-	-	10	10	450	1	

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 20th (39)	Weather. 13h.—18h. 20th (40)	Weather. 18h. 20th to 1h. 21st (41)	Weather. 1h.–7h. 21st (42)
1	London (Kew)	cmxcm$_0$	cm$_0$	cr$_0$rr$_0$c	cr$_0$cm$_0$
	Croydon ...	cm$_0$bcm$_0$	bcm$_0$cm$_0$	cir$_0$rrm$_0$	addmr$_0$id$_0$
	S. Farnborough	bcbccm$_0$c	ccm$_0$	cr$_0$R$_0$ddm$_0$cid$_0$m$_0$id$_0$	
	Boscombe Down	cm$_0$bcm$_0$c	cm$_0$	cm$_0$cr$_0$m$_0$	cm$_0$c
	Thorney Island	bccm$_0$c	cbcc	crr	errcd$_0$d$_0$c
	Lympne ...	bccx	cbccm$_0$	ccr$_0$	cr$_0$r$_0$m$_0$dd
	Manston ...	bm$_0$cm$_0$	cm$_0$	cm$_0$cir$_0$	crrddm$_0$
2	Shoeburyness ...	cm$_0$	cm$_0$	cm$_0$rr	cm$_0$rr
	Felixstowe ...	cm$_0$cm	cmcbcm$_0$	bcm$_0$cir$_0$	cir$_0$m$_0$cm$_0$
	Gorleston ...	bc	bcz$_0$bcm$_0$	bbcmcpr$_0$z$_0$	cbc
	Mildenhall ...	cm$_0$	cm$_0$cm	cmcircq	cqbcc
	Cranwell ...	cm$_0$	c$_0$bcm$_0$	cr$_0$r$_0$	cb
3	Birmingham ...	bcc	c	cor	obc
	Upper Heyford	cm$_0$mm$_0$c	ccm$_0$	cir$_0$m$_0$c	c
4	Ross-on-Wye	cc	c	cdqrq	cqbq
5	Hartland Point	cbcc	c	cirlrrr$_0$c	cbcc
	Bristol ...	cm$_0$	c	cerirm$_0$c	cbc
	Portland Bill ...	c	cc	odd	rc
	Plymouth ...	cm$_0$c	ccm$_0$	cr$_0$r$_0$m$_0$	cr$_0$m$_0$
	The Lizard ...	bcc	topr	crrc	co
	Scilly (St. Mary's)	cbq	crr	rrir$_0$c	cbcc
	Guernsey ...				
6	Pembroke ...	cq	cprRRq	cir$_0$bcq	cq
7	Holyhead (Valley)	bcir$_0$	corr$_0$	corrm$_0$	bbcm$_0$c
	Chester (Sealand)	cm$_0$	c	cr$_0$bcpr$_0$	bqbc
8	Manchester ...	bm$_0$xcm	cm$_0$	cir$_0$m$_0$c	cbbc
10	Spurn Head ...	cm$_0$	cm$_0$	cqrr	bc
	Catterick ...	ccm$_0$m	cmcmp	cfd$_0$m$_0$z$_0$	Rmcbq
	Tynemouth ...	bcffcm$_0$	cm$_0$m	cmoq	cqb
11	St. Abbs Head	cbc	cirm$_0$	cm$_0$ir$_0$	cm$_0$qprbq
	Leuchars ...	ccm$_0$c	cm$_0$c	d$_0$r$_0$r$_0$cir$_0$	cir$_0$c
12	Renfrew (Abbots I.)	cm$_0$c	cm$_0$r$_0$r$_0$	cm$_0$rrr$_0$r$_0$	rrr$_0$r$_0$bcm$_0$
	Eskdalemuir ...	bmir$_0$m$_0$	cm$_0$ir$_0$rr	cRR	RRrrc
	Point of Ayre ...	c	cr$_0$r$_0$	r$_0$r$_0$c	cpr$_0$b
13A	Tiree	c	cr$_0$r$_0$dd	cddpR	cprbpr$_0$
13B	Stornoway ...	cir$_0$m$_0$	cm$_0$r$_0$r$_0$	cir$_0$	cr$_0$r$_0$rrm$_0$bc
15	Dalwhinnie ...	co	opr$_0$c		cprb
	Aberdeen ...	bbczcfz	czz$_0$	coir$_0$cm$_0$	cm$_0$cbc
	Wick ...	c	c	ccir$_0$c	ccrr
16	Sumburgh ...	cir$_0$	cir$_0$cbcc	cir$_0$	cr$_0$r$_0$m$_0$
17	Blacksod Point	r	d	bc	bc
18	Malin Head ...	r	r	r	r
	Aldergrove ...	bbcc	cr$_0$r$_0$rrm$_0$	cr$_0$r$_0$c	bbc
19	Birr Castle ...	c	r		pr
20	Valentia Obsy.	r	r	pr	c
	Roches Point	r	r	r	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 21st December

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

GENERAL INFERENCE

A deep depression off Northwest Scotland is moving north-northeast and another, west of Ireland is moving northeast. Weather will be cloudy and mild with rain at times. Rainfall amounts will however be mainly small in the Southeast.

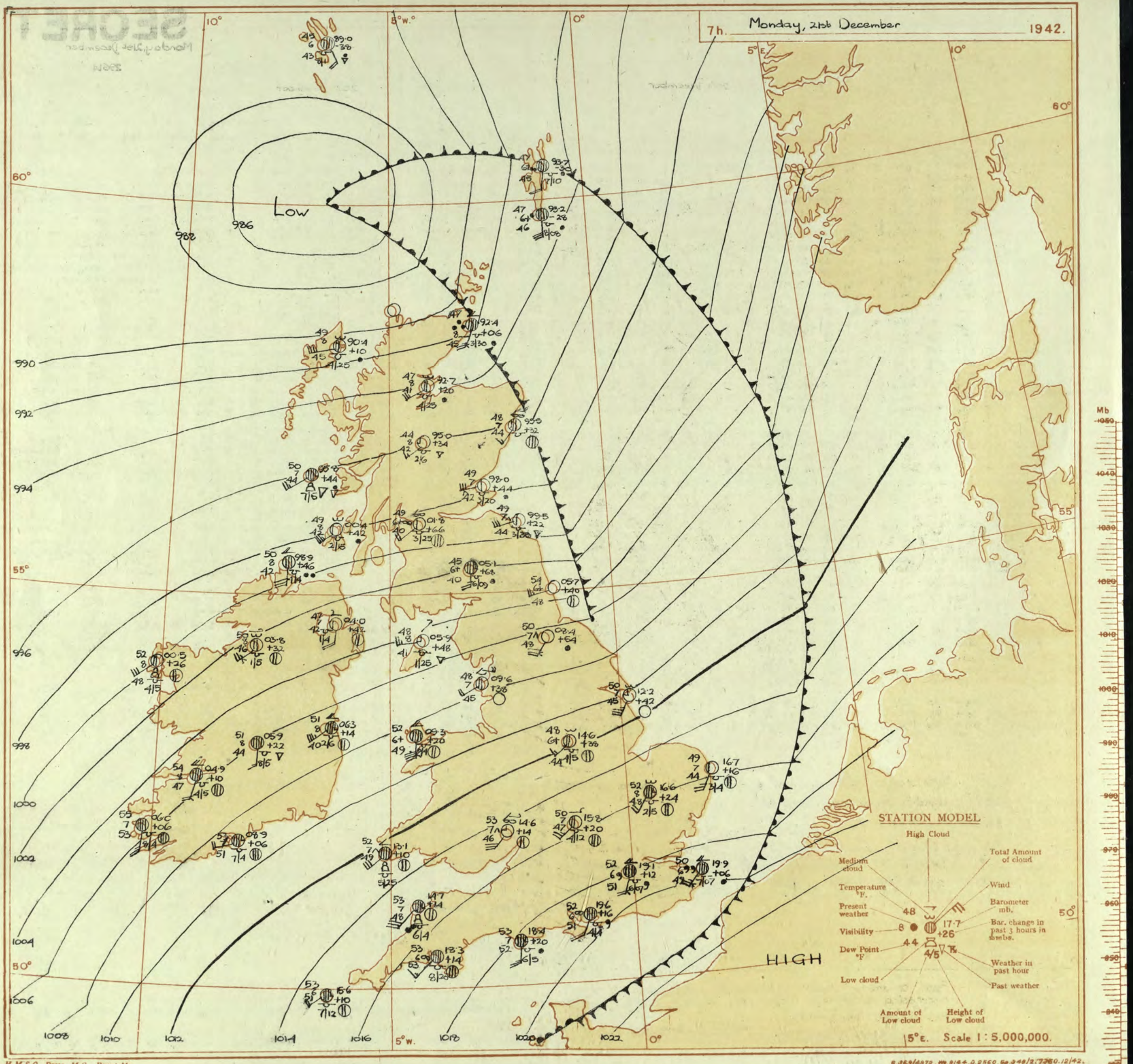
FURTHER OUTLOOK

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

▼ Renewed gales, 1100, 21st December 1942, in districts 6, 7, 13A, 13B, 15, 16, 17, 18, 19, 20.

Forecasts issued at

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



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

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

Page 4. BRITISH SECTION

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

Monday, 21st December 1942

No 29614

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	49	*	*	*	*	*	*	*	*	*
	Croydon	290	17·2	−8	S	6	r_or_o	48	97	48	6	5	7	–	7-8	10	2000
	S. Farnborough	226	16·3	−6	SSW	5	dd	49	97	48	5	5	2	–	9+	10	1200
	Boscombe Down	417	15·6	0	S'W	6	r_or_o	50	97	50	6	5	2	–	9+	10	500
	Thorney Island	10	17·0	−14	SSW	6	rr	50	92	48	6	5	–	–	10	10	4000
	Lympne	283	20·1	−8	SSW	4	ir_o	48	85	44	7	5	7	–	7-8	10	2000
	Manston	154	19·7	+6	SW	5	ir_o	48	85	44	7	5	7	–	9+	10	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	19·7	+2	S'E	6	ir_o	48	85	45	5	5	–	–	10	10	3100
	Gorleston	5	17·1	−4	SSW	6	pr	47	85	45	6	5	–	–	10	10	1500
	Mildenhall	15	12·9	−28	S	6	q/r	49	85	45	9	5	7	–	4-6	10	2500
	Cranwell	203	09·1	−24	S'E	6	c/r	49	85	46	7	5	7	–	4-6	9	1500
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	12·7	−10	SW'S	6	c	49	92	47	7	5	–	–	4-6	10	1300
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	10·6	+28	SW	7	c	53	97	52	7	8	–	–	9	9	1500
	Bristol	209	13·5	+8	SW	5	c/r	53	85	50	7	5	–	–	9	9	1500
	Portland Bill	32	15·2	−6	SW	6	d_od_o	53	92	52	7	5	–	–	10	10	2500
	Plymouth	82	14·8	+14	SSW	7	ir_o	54	97	53	6	5	–	–	9	9	1500
	The Lizard	240	14·9	+36	W'S	6	c/r	54	97	54	7	8	2	–	9	10	1000
	Scilly (St. Mary's)	163	13·3	+30	SW	5	c-bc	53	97	52	6	5	–	–	7-8	7-8	800
	Guernsey	175															
6	Pembroke	142	08·0	+20	WSW	8	b-bc	54	85	50	7	2	–	–	2-3	2-3	2500
7	Holyhead (Valley)	32	02·6	+6	SW'S	8	b	53	75	45	7	–	–	–	0	0	–
	Chester (Sealand)	16	04·7	−20	SW'S	6	b/pr	55	65	42	8	2	–	–	1	1	2500
8	Manchester	235	05·6	−14	S	6	c	50	85	46	8	2	–	–	9	9	2000
10	Spurn Head	29	08·2	−38	S'W	7	ir_o	47	92	44	7	8	3	–	4-6	9+	1500
	Catterick	175	02·7	−38	SW'S	4	c/d	51	75	43	6	5	2	–	7-8	10	2500
	Tynemouth	108	00·6	−44	S	6	q/pr	48	85	45	6	8	–	–	9	9	2500
11	St. Abbs Head	280	97·1	−48	SE	5	c/r	46	92	44	7	5	–	–	9	9	2500
	Leuchars	36	96·7	−32	ESE	4	ir_o	47	85	44	7	5	2	–	7-8	10	2000
12	Renfrew (Abbots I.)	19	92·7	−52	SSE	3	r_or_o	52	85	49	5	5	2	–	7-8	10	1400
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	96·3	−30	WNW	6	c	50	85	46	8	8	7	–	Tr	9+	1800
13A	Tiree	44	89·1	−38	S	4	pr	50	97	49	6	8	–	–	7-8	10	1500
13B	Stornoway	15	91·9	−30	SE	3	ir_o	49	97	48	8	5	–	–	9+	9+	3500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	96·7	−42	S	5	c/d	46	92	45	6	5	2	–	9+	10	1200
	Wick	114	95·6	−34	S'E	5	c	46	92	44	8	5	7	–	2-3	9+	1000
16	Sumburgh	19	98·5	−22	SSE	5	ir_o	49	92	46	7	5	–	–	10	10	2000
17	Blacksod Point	18	94·6	+54	WSW	7	b-bc	50	85	46	8	8	–	–	2-3	2-3	2500
18	Malin Head	84	89·6	−10	SSW	4	c/r	49	85	45	8	5	2	–	7-8	10	1500
	Aldergrove	268	93·6	−10	E	4	c	49	85	44	7	5	2	–	7-8	10	1500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	04·6	+42	SW	6	b-bc	51	85	47	8	1	–	3	Tr	2-3	2500
	Roches Point	22	06·6	+48	WSW	5	b-bc	51	75	43	8	–	–	5	0	2-3	–

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

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)	19·5	+18	SW	4	z_o	51	92	48	6	5	–	–	10	10	1500	1	*
Croydon	19·1	+12	SSW	4	id_o	52	97	51	6	5	2	–	9	10	700	1	*
S. Farnborough	18·4	+14	SW'W	3	id_o	53	97	51	5	5	2	–	9+	10	1300	1	*
Boscombe Down	18·3	+16	SSW	5	c-bc	51	97	51	7	5	7	–	7-8	7-8	1500	1	*
Thorney Island	19·6	+16	SSW	4	z_o	52	92	51	6	5	–	–	4-6	10	1500	1	*
Lympne	21·4	+14	SW	3	d_od_o	49	97	49	5	5	–	–	10	10	800	1	§6
Manston	19·9	+6	SW'W	5	d_od_o	50	97	49	6	6	2	–	9+	10	700	1	*
Shoeburyness	19·8	+20	SW	4	z_o	52	92	49	5	5	–	–	10	10	1500	1	*
Felixstowe	18·8	+6	SSE	4	z_o	49	97	48	6	5	–	–	10	10	1200	1	4
Gorleston	16·7	+16	SW'S	5	b-bc	49	85	44	7	5	–	–	2-3	2-3	1500	1	5
Mildenhall	16·6	+24	SW'S	4	c	52	85	48	8	5	3	–	1	9	2500	1	*
Cranwell	14·3	+58	SW'S	6	b-bc	51	85	47	7	–	7	–	0	2-3	–	1	*
Birmingham	15·0	+32	SW	3	b-bc	49	85	45	7	5	–	–	2-3	2-3	1500	1	*
Upper Heyford	15·8	+20	SW	5	bc	50	85	47	7	5	–	8	4-6	4-6	1200	1	*
Ross-on-Wye	14·6	+14	SW'S	6	bq	53	85	46	7	–	7	1	0	1	–	1	*
Hartland Point	14·7	+14	SW	6	c	53	85	48	7	8	–	–	9	9	1500	1	5
Bristol	17·8	+26	WSW	2	z_o	51	85	47	6	5	–	–	4-6	4-6	2500	1	*
Portland Bill	18·4	+20	S	5	c	53	97	52	7	5	–	–	9	9	2500	1	5
Plymouth	18·3	+14	SW	3	z_o	53	97	53	6	5	–	–	10	10	2000	1	2
The Lizard	17·3	+10	WSW	4	o	53	97	53	7	5	–	–	10	10	1500	1	4
Scilly (St. Mary's)	15·6	+10	SW'S	4	c	53	92	51	6	5	–	–	9+	9+	1200	1	5
Guernsey																	
Pembroke	13·1	+10	SW	6	cq	52	92	49	7	8	1	–	7-8	10	2500	1	4
Holyhead (Valley)	09·3	+20	S	8	o	52	85	49	6	5	2	–	9	10	1500	1	6
Chester (Sealand)	10·2	+24	SW'S	4	bc	53	65	43	8	–	3	8	0	4-6	–	1	*
Manchester	12·6	+54	S'E	4	c-bc	49	85	42	7	–	–	2	0	7-8	–	1	*
Spurn Head	12·2	+42	SW'S	7	b	50	85	45	7	–	3	–	1	1	–	1	4
Catterick	08·4	+54	SW	6	bq	50	92	48	7	–	–	–	0	0	–	1	*
Tynemouth	05·7	+40	WSW	5	b	54	65	48	6	–	–	–	0	0	–	1	3
St. Abbs Head	99·5	+22	WSW	6	b-bcq	49	75	44	7	5	–	–	2-3	2-3	3000	1	4
Leuchars	98·0	+44	WSW	6	b-bc	49	75	42	7	5	–	–	2-3	2-3	2000	1	*
Renfrew (Abbots I.)	01·8	+66	SW	4	z_o	48	75	40	6	5	7	–	2-3	2-3	2500	2	*
Eskdalemuir	05·1	+68	S'W	5	c	45	85	40	6	5	–	–	9	9	900	1	*
Point of Ayre	05·9	+48	W'S	5	b	48	75	41	8	4	–	4	Tr	Tr	2500	1	4
Tiree	95·8	+44	SW'W	5	q/pr	50	85	44	7	2	–	–	9+	9+	2500	1	5
Stornoway	90·4	+10	WSW	7	bq	49	85	45	8	5	3	–	4-6	4-6	2500	1	
Dalwhinnie	95·0	+34	SW	3	b	44	92	42	8	5	–	–	1	1	4000	1	*
Aberdeen †	98·5	+32	SW'S	3	c-bc	48	85	44	7	5	7	8	Tr	7-8	4000	1	2
Wick	92·4	+6	SSW	5	rr	47	92	45	8	5	2	–	2-3	10	3000	1	*
Sumburgh	93·2	−28	S	6	ir_o	47	97	46	6	5	–	–	10	10	800	1	5
Blacksod Point	00·5	+26	S·W	6	bc	52	88	48	8	8	–	–	4-6	4-6	2500	1	5
Malin Head	98·9	+46	S'W	6	c-bc/r	50	75	42	8	5	2	–	4-6	7-8	1500	2	5
Aldergrove	04·0	+42	S	4	b-bc	47	85	42	7	5	–	5	Tr	2-3	1500	1	*
Birr Castle	05·9	+22	S	3	c	51	75	44	8	5	–	–	10	10	2500	1	*
Valentia Obsy.	06·0	+6	S'W	5	c	55	92	53	7	5	–	–	10	10	1500	1	4
Roches Point	08·9	+6	WSW	4	c	53	92	51	7	5	–	–	9+	9+	1500	1	5

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 20th Hrs. (38)
London (Kew)	49	47	44	–	2	1·3
Croydon	52	47	46	Tr	4	3·0
S. Farnborough	51	47	44	–	2	1·5
Boscombe Down	50	47	43	–	2	0·9
Thorney Island	53	49	49	–	1	*
Lympne	51	46	43	–	2	2·7
Manston	50	45	42	–	1	3·0
Shoeburyness	50	45	39	–	2	1·6
Felixstowe	47	46	42	–	3	2·8
Gorleston	47	44	40	–	1	5·0
Mildenhall	48	46	39	Tr	1	0·6
Cranwell	48	42	40	–	0·3	0·0
Birmingham	47	47	42	–	1	0·2
Upper Heyford	48	47	44	–	2	*
Ross-on-Wye	50	49	44	–	2	0·1
Hartland Point	52	50	48	–	2	0·0
Bristol	51	50	45	–	3	0·4
Portland Bill	51	48	*	–	3	*
Plymouth	53	38	34	–	2	0·8
The Lizard	53	51	*	Tr	1	0·0
Scilly (St. Mary's)	52	52	*	0·2	4	0·0
Guernsey						
Pembroke	52	*	*	1	7	0·0
Holyhead (Valley)	51	50	47	1	5	*
Chester (Sealand)	51	49	45	–	1	0·0
Manchester	47	45	42	–	1	*
Spurn Head	46	46	*	–	0·6	0·9
Catterick	46	43	40	–	2	0·0
Tynemouth	47	45	42	–	0·4	*
St. Abbs Head	47	43	*	Tr	Tr	*
Leuchars	49	46	44	–	1	0·0
Renfrew (Abbots I.)	50	48	43	1	11	0·3
Eskdalemuir	47	43	42	1	20	0·0
Point of Ayre	52	47	*	0·2	7	0·1
Tiree	49	48	47	6	5	0·0
Stornoway	51	46	44	1	5	0·0
Dalwhinnie	45	42	39	0·1	5	0·0
Aberdeen †	47	46	45	–	0·3	0·0
Wick	46	45	43	–	Tr	*
Sumburgh	48	46	44	Tr	2	0·0
Blacksod Point	52	49	*	20	4	
Malin Head	50	47		2	1	0·0
Aldergrove	50	46	42	6	6	0·0
Birr Castle	51	46	43	6	9	0·1
Valentia Obsy.	55	51	47	13	2	0·0
Roches Point	53	51	*	9	4	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 20th December C_LC_M	wwVhNh	DDFWN	18h. G.M.T. C_LC_M	wwVhNh	DDFWN	01h. G.M.T. 21st December C_LC_M	wwVhNh	DDFWN	07h. G.M.T. C_LC_M	wwVhNh	DDFWN
109	57	02774	16526	5-	02855	48515	62	61644	48568	5-	51648	17428
115				52	81835	16387						
203				52	02734	16628				80	02845	20685
206	57	02855	18327	57	62864	20467	5-	02866	14266	53	01854	21564
210	57	02864	12326	57	02865	12128	53	02863	11426	5-	22865	21365
220	52	02745	16668									
230	57	02854	15228	02	64648	14168	5-	64648	00068	5-	0	
245	59	05644	19327	52	51656	17428	5-	05644	15666	57	01861	22482
260	57	02754	18326	57	02764	51 26	5-	02746	49426	50	01752	20512
278	54	02745	16327	52	62637	47468	62	62834	18468	54	01853	20365
279	6-	51647	18557	5-	62648	12328	02	62648	16868	20	05653	55663
285												
288	05	05690	15426	53	08464	49627	57	21554	51557	00	00790	52700
575	57	22745	51568	52	61747	51468	58	81748	51688	53	01851	53514
301	57	05566	19327	5-	61658	16528	8-	82558	51668	04	01790	20404
321				53	05543	16425	5-	22747	18667	07	01790	15513
299	54	05554	22315				5-	14457	20667	50	01752	20502
292	07	08490	14228	57	08455	13428	51	22643	16268	00	00790	21210
310										--	01634	20414
614				57	05509	16425	57	05655	51568	53	01654	20314

III	13h. G.M.T. 20th December C_LC_M	wwVhNh	DDFWN	18h. G.M.T. C_LC_M	wwVhNh	DDFWN	01h. G.M.T. 21st December C_LC_M	wwVhNh	DDFWN	07h. G.M.T. C_LC_M	wwVhNh	DDFWN
333	5-	02744	16527	62	62644	24968				5-	05645	54418
334										--	03647	24128
340	57	02754	18327	57	05654	18427	03	02890	49468	04	01790	24413
136	09	05690	20216	53	05664	20326	5-	22644	53566	53	02753	53414
336										14	01752	24413
350	53	05644	20325	53	05651	19425	5-	22636	51666	87	05645	20427
368				53	02653	22415	50	00651	53561	54	01653	20313
379	00	05690	18416	57	05631	51527	62	61635	53568	50	05643	53464
390	5-	45358	20348	5-	47346	20346	62	62555	51568	5-	52537	515*8
382	07	02790	51425	57	05643	20526	52	61746	52568	5-	02856	21426
438				8-	02756	22616				8-	61648	24688
430	57	05656	20236	57	05643	19427	62	62535	16568	5-	21538	53658
499	55	02755	17626	52	61744	50768	50	01643	19663	04	01790	17423

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 21st December
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	$cmxcm_o$	$m_ocr_om_oc$	cr_ocm_o
Croydon	cm_obcm_o	bcm_ocm_o	$cir_or_or_oid_o$
Greenwich	bcm	bcc	c⊕qRc
Camden Square	bc	c	*
Kensington	bc	bc	*
Hampstead	bc	bc	orbc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre. Kew 24 hours ended 7h. Max. 0·8 Time 9-10h 20th. Min. <0·1 Time 0-4h 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	49	47	44	–	2	1·3	*	*
Croydon	52	47	46	Tr	4	3·0	*	*
Greenwich	51	48	39	–	3	1·6	71	91
Westminster	54	43	42		2		85	91
Regents Park								
Camden Square	49	49	33	–	3	*	*	90
Kensington	52	38	34	Tr	2		85	93
Hampstead	49	46	40	–	3		*	97

SECRET

Page 1

BRITISH SECTION

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

Tuesday 22nd December 1942

No. 29615

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	20·4	0	SSW	3	Z_0	52	92	50	6	5	7	-	7-8	9+	800
	Croydon ...	21·3	-2	S'W	5	id_0	53	92	52	6	5	-	-	10	10	700
	S. Farnborough	20·6	-2	SSW	3	c	53	92	51	7	5	7	-	9+	10	1200
	Boscombe Down	19·8	-2	S'W	6	c	53	85	50	7	5	-	6	4-6	9	1300
	Thorney Island	21·6	0	S'W	3	Z_0	52	92	49	6	5	-	-	9	10	1300
	Lympne ...	23·1	-2	SW	3	Z_0	50	97	49	5	5	-	-	10	10	200
	Manston ...	22·2	-2	SW	5	Z_0	51	97	50	6	6	2	-	9	10	800
2	Shoeburyness ...	22·0	+4	SW	4	c	53	85	50	7	5	-	-	10	10	1500
	Felixstowe ...	21·1	+2	S'W	4	Z_0	50	92	48	6	5	7	-	2-3	9+	1500
	Gorleston ...	19·9	+8	SW'W	4	c-bc	53	85	48	7	-	7	-	0	7-8	-
	Mildenhall ...	18·3	+6	S'E	5	c	55	85	49	7	5	3	2	2-3	9	2000
	Cranwell ...	16·7	+1·4	SW'S	5	c-bc	52	85	48	7	5	7	3	Tr	7-8	1800
3	Birmingham ...	16·7	+4	SSW	4	Z_0	53	85	49	6	5	7	-	2-3	9+	1500
	Upper Heyford	18·5	-2	SW'S	5	c	53	85	47	7	5	7	6	4-6	9	1200
4	Ross-on-Wye	17·3	0	S'W	3	c	54	75	47	7	5	-	1	9	9+	2500
5	Hartland Point	14·8	-12	SW	4	c	55	85	50	7	5	-	-	9+	9+	1500
	Bristol ...	18·6	-2	SSW	3	id_0	54	85	50	7	5	-	-	9+	9+	1500
	Portland Bill ...	20·0	+4	S	5	ir	53	97	51	7	5	-	-	10	10	2500
	Plymouth ...	18·5	-6	S'W	5	$+_0+_0$	54	97	54	5	5	-	-	9+	10	400
	The Lizard ...	17·1	-4	SW	6	d_0d_0	54	97	54	4	5	-	-	10	10	800
	Scilly (St. Mary's)	14·3	-1·4	SW'S	5	cf+	53	97	53	3	-	-	-	10	10	<150
	Guernsey ...															
6	Pembroke ...	10·9	-18	SSW	6	df	52	97	52	3	6	-	-	10	10	1500
7	Holyhead (Valley)	11·1	-10	S	6	Z_0	53	85	50	6	8	7	-	7-8	10	1500
	Chester (Sealand)	13·9	+6	S'E	3	c-bc	56	65	45	7	2	4	1	4-6	7-8	3000
8	Manchester ...	14·9	+6	SSW	4	c	50	85	45	7	5	3	-	4-6	9	4000
10	Spurn Head ...	15·8	+16	S'W	4	c-bc	51	85	47	7	7	3	1	4-6	7-8	4000
	Catterick ...	13·7	+12	SSW	4	Z_0	53	65	43	6	5	7	-	2-3	9+	3000
	Tynemouth ...	11·2	+20	SW	4	c	53	75	46	6	8	-	-	9	9	2400
11	St. Abbs Head	06·0	+1·4	SW	6	c-bc	52	85	47	7	5	6	-	4-6	7-8	3500
	Leuchars ...	06·2	+28	WSW	6	c-bc	51	75	44	7	5	7	2	Tr	7-8	5000
12	Renfrew (Abbots I.)	07·0	+18	SSE	3	Z_0	52	85	46	6	8	2	-	9	10	2000
	Eskdalemuir ...	10·1	+4	S'E	5	0	49	92	47	6	5	-	-	10	10	900
	Point of Ayre ...	09·8	+10	SSW	4	c	52	92	50	7	6	7	-	4-6	10	800
13A	Tiree ...	09·2	-2	S'E	5	c	50	92	48	8	5	7	-	7-8	10	3000
13B	Stornoway ...	96·7	+18	SSW	6	c-bc	49	92	46	8	-	3	6	0	7-8	-
15	Dalwhinnie ...	02·0	+26	SSW	4	c-bc	45	75	38	7	5	-	5	2-3	7-8	2500
	Aberdeen ...	04·3	+26	SW	4	c-bc	51	75	42	7	-	9	6	0	7-8	-
	Wick ...	00·5	+36	SSW	5	bc	47	85	41	8	-	3	-	0	4-6	-
16	Sumburgh ...	99·2	+44	SW	6	bc	50	85	45	8	2	7	-	1	4-6	2500
17	Blacksod Point	97·0	-3·4	S	6	c/pr	53	97	52	7	9	-	-	10	10	1500
18	Malin Head ...	00·1	-18	S	5	c	53	85	49	8	8	-	-	9+	9+	1500
	Aldergrove ...	05·3	-10	SSE	4	c/+	52	85	47	7	5	2	-	7-8	10	1500
19	Birr Castle ...	04·7	-1·4	S	3	c	54	92	52	7	6	2	-	7-8	10	800
20	Valentia Obsy.	02·4	-30	S'W	7	$^0/_d$	55	85	51	7	5	-	-	10	10	1500
	Roches Point	07·3	-18	S	5	id	53	97	52	6	5	-	-	10	10	800

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

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)	18·7	-1·4	SSW	4	Z_0	53	92	51	6	5	2	-	9	10	1500	1	*
	Croydon ...	20·2	-6	SSW	4	id_0	52	97	52	6	5	-	-	10	10	600	1	*
	S. Farnborough	18·9	-12	S	4	dd	58	87	52	6	5	-	-	10	10	400	1	*
	Boscombe Down	17·5	-18	S	6	$+_0+_0$	53	97	53	5	5	-	-	10	10	400	1	*
	Thorney Island	19·6	-14	S	4	it	52	97	51	5	5	-	-	10	10	1000	1	*
	Lympne ...	22·0	-6	S.w.b.s	4	Z_0	50	97	49	6	5	-	-	10	10	400	1	5
	Manston ...	21·8	-2	SSW	5	c	51	97	50	7	-	2	-	10	10	1000	1	*
2	Shoeburyness ...	21·0	-8	SW	4	c	51	92	49	7	5	-	-	10	10	1500	1	*
	Felixstowe ...	20·5	-6	SE'S	4	Z_0	48	97	47	6	5	-	-	10	10	2500	1	4
	Gorleston ...	19·9	-8	S'W	4	Z_0	50	92	47	6	5	-	-	10	10	800	1	3
	Mildenhall ...	18·1	-10	S'W	4	Z_0	53	85	49	6	5	4	7	1	10	4000	1	*
	Cranwell ...	15·2	-18	S	4	Z_0	50	92	48	6	-	7	-	0	9	-	1	*
3	Birmingham ...	13·9	-12	SSE	3	0	52	85	48	6	5	-	-	10	10	1500	1	*
	Upper Heyford	16·5	-14	SW'S	3	ir	52	92	51	6	5	-	-	10	10	800	1	*
4	Ross-on-Wye	13·6	-20	S	4	c/d	54	92	52	6	6	1	-	7-8	10	1000	1	*
5	Hartland Point	11·6	-18	SW	4	d_0d_0	55	97	54	6	5	2	-	7-8	10	800	1	4
	Bristol ...	15·4	-10	S	5	d_0d_0	55	92	53	6	5	-	-	9	10	700	1	*
	Portland Bill ...	16·8	-6	S	5	rr	51	92	49	7	5	-	-	10	10	2500	1	6
	Plymouth ...	15·6	-18	S'W	7	d_0d_0	54	97	54	6	5	-	-	10	10	300	1	4
	The Lizard ...	14·6	-10	SW'W	7	dd	54	97	54	6	5	-	-	10	10	800	1	5
	Scilly (St. Mary's)	11·6	-10	SSW	8	id_0	54	97	54	5	5	-	-	10	10	2500	1	5
	Guernsey ...																	
6	Pembroke ...	09·9	-10	SSW	6	df	53	97	53	3	6	-	-	10	10	1500	1	5
7	Holyhead (Valley)	07·5	-26	S	7	d_0d_0	52	97	51	6	-	2	-	10	10	450	1	3
	Chester (Sealand)	10·6	-22	S	3	d_0d_0	52	85	49	6	5	-	-	9+	9+	200	1	*
8	Manchester ...	12·1	-18	S'E	4	Z_0	52	85	48	6	5	-	-	9+	9+	5000	1	*
10	Spurn Head ...	15·9	-4	S	4	Z_0	48	92	46	6	7	2	-	4-6	10	4000	1	3
	Catterick ...	11·6	-8	S'E	3	Z_0	50	85	45	5	5	3	-	4-6	7-8	2000	1	*
	Tynemouth ...	09·6	-16	S	4	c	50	85	46	6	8	-	-	9+	9+	2400	1	3
11	St. Abbs Head	06·3	0	S	6	c	50	85	45	7	5	-	-	10	10	2500	0	4
	Leuchars ...	04·4	-12	SW	4	c	52	85	47	8	5	-	-	10	10	3000	1	*
12	Renfrew (Abbots I.)	03·0	-22	SSE	3	id_0	55	85	49	6	5	2	-	7-8	10	1200	2	*
	Eskdalemuir ...	06·8	-12	SW	6	c	50	85	47	6	5	-	-	10	10	1100	1	*
	Point of Ayre ...	05·7	-20	SSW	5	d_0d_0	52	97	51	6	6	7	-	7-8	10	800	1	4
13A	Tiree ...	94·5	-24	SSE	6	c	53	85	48	7	5	2	-	7-8	10	1000	1	5
13B	Stornoway ...	91·6	-52	S	10	c/+	51	92	49	6	5	7	-	7-8	9+	1200	1	
15	Dalwhinnie ...	99·0	-20	SSE	3	$i+_0$	49	85	46	7	5	-	-	10	10	2500	1	*
	Aberdeen ...	94·5	-4	S	4	Z_0	49	85	46	6	5	9	5	7-8	9	2000	1	2
	Wick ...	00·5	-14	SE	5	c	49	75	42	7	5	2	-	4-6	10	2000	1	*
16	Sumburgh ...	01·9	+4	S	4	c	48	85	45	8	-	7	8	0	9+	-	1	4
17	Blacksod Point	93·3	-10	S	6	p+	53	97	52	7	9	-	-	10	10	1500	2	5
18	Malin Head ...	93·7	-30	S'W	7	c	55	75	48	8	8	-	-	9+	9+	1500	2	5
	Aldergrove ...	00·9	-18	SSE	5	c	53	85	49	7	5	2	-	9+	10	1800	1	*
19	Birr Castle ...	01·4	-6	SSW	4	c-bc	55	83	51	8	5	-	-	7-8	7-8	2500	1	*
20	Valentia Obsy.	99·7	-14	S'W	6	c	55	85	51	7	5	-	-	10	10	1500	1	4
	Roches Point	94·3	-10	SSW	5	c/d	53	97	52	7	5	-	-	9	9	800	1	5

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 21st (39)	13h.—18h. 21st (40)	18h. 21st to 1h. 22nd (41)	1h.—7h. 22nd (42)
1	London (Kew)	cm_0	cm_0	cr_0cr_0	$r_0rr_0cr_0$
	Croydon ...	$cm_0cm_0id_0$	cm_0id_0	$cd_0d_0m_0cir_0$	$cddmcrr$
	S. Farnborough	cr_0m_0bcc	cid_0dm_0	$cddrm_0cr_0$	$cir_0r_0rm_0$
	Boscombe Down	c	$cddm_0+r_0$	$or_0r_0m_0$	$cr_0r_0m_0$
	Thorney Island	$d_0d_0m_0$	$m_0d_0ci+_0$	cir_0rid_0	$crrm_0r_0r_0$
	Lympne ...	om_0cm_0	om_0id_0	oid_0m_0	$or_0r_0dr_0m_0$
	Manston ...	$cd_0d_0cm_0$	cm_0i+_0c	$cr_0d_0d_0m_0$	$cd_0d_0r_0r_0m_0$
2	Shoeburyness ...	cm_0	c	$oddm_0c$	ddm_0
	Felixstowe ...	cm_0	cm_0	cm_0oddm_0	$cm_0idm_0cm_0$
	Gorleston ...	bc	cm_0	or_0ir_0	or_0r_0q
	Mildenhall ...	cbcc	ccm_0 ⊕	$ccir_0m_0c$	ccr_0r_0c
	Cranwell ...	cbcc	c	$cd_0d_0m_0$	$crrr_0r_0cm_0$
3	Birmingham ...	bcmp+c	co	oir_0	oir
	Upper Heyford	bccm$_0$	c	$cr_0r_0d_0d_0m_0$	cm_0crrm_0
4	Ross-on-Wye	bcc	ccod	$idcr_0c$	rrRc
5	Hartland Point	c	cd_0r_0c	d_0rrr_0c	rr_0r_0c
	Bristol ...	cbc	$cd_0+d_0+_0m_0$	$cddm_0r_0r_0$	$cr_0r_0cir_0$
	Portland Bill ...	oir	oir	orr	prrpr
	Plymouth ...	$cir_0r_0m_0$	$cmcd_0m_0$	$d_0d_0m_0$	$cd_0d_0rrm_0$
	The Lizard ...	oir_0m	od_0iddm	oddrr	prrc
	Scilly (St. Mary's)	cr_0off	$ofecid_0$	cidr	cidrc
	Guernsey ...				
6	Pembroke ...	cdfq	cdfq	cir_0PRm_0q	prprq
7	Holyhead (Valley)	cm_0	cm_0od_0	$od_0d_0m_0$	$od_0d_0m_0c$
	Chester (Sealand)	bccz$_0$	c	$cd_0d_0cm_0$	cm_0rrr_0
8	Manchester ...	cz_0	cm_0	cm_0ir_0	cr_0r_0rr
10	Spurn Head ...	c	cm_0	om_0	or_0m_0
	Catterick ...	cz_0	cz_0m_0	$d_0m_0fmcm_0$	cm_0rrm_0
	Tynemouth ...	bcc	c	c	bcmpc
11	St. Abbs Head	bc	c	cm_0prcm_0	cm_0r_0c
	Leuchars ...	$bccid_0c$	ccm_0c	cir_0pr_0	bccir
12	Renfrew (Abbots I.)	ccm_0	$c++id_0$	cm_0id_0	$cm_0r_0r_0cm_0$
	Eskdalemuir ...	com_0	oir_0c	cir_0	cir_0c
	Point of Ayre ...	bbcc	$cddd_0d_0$	$d_0d_0id_0c$	cidc
13A	Tiree ...	cpr_0cbcc	$ci+_0c$	$r_0r_0irr_0r_0$	$cr_0r_0rrm_0$
13B	Stornoway ...	cbcc	$c++cm_0$	$cr_0r_0m_0$	$cr_0r_0ir_0m_0$
15	Dalwhinnie ...	bpr_0c	$ci+_0o$	*	oir
	Aberdeen ...	bcbgbbccc	$bccz_0$	$cbcz_0$	cz_0c
	Wick ...	bc	bcc		cr_0r_0
16	Sumburgh ...	$c+_0+_0bc$	bcbc	$cir_0rrr_0r_0$	$cm_0r_0r_0cm_0$
17	Blacksod Point	pr	pr	pr	bc
18	Malin Head ...	+	+	r	r
	Aldergrove ...	cir_0c	$cim+c$	$ccir_0$	cir_0cbc
19	Birr Castle ...	+	c	*	pr
20	Valentia Obsy.	+	+	pr	pr
	Roches Point	d	d	r ⊕	c

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

Districts.	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate west wind backing southwest; slight rain at first, fair later; mild.
4 W. Midlands 5 S.W. England 6 South Wales	Moderate west wind backing south; fair; mild.
7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Moderate west wind, backing south and freshening, mainly fair; mild.
12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland	Moderate or fresh west wind, backing south, strong to gale on coasts tomorrow; variable cloud and showers at first, rain later; mild.
14 Mid Scotland 15 N.E. Scotland	As 7-11.
16 Orkneys and Shetlands	Moderate west wind, backing south and freshening; variable cloud; showers; mild.
17 N.W. Ireland 18 N.E. Ireland 19 S.E. Ireland 20 S.W. Ireland	As 12-13B.

GENERAL INFERENCE

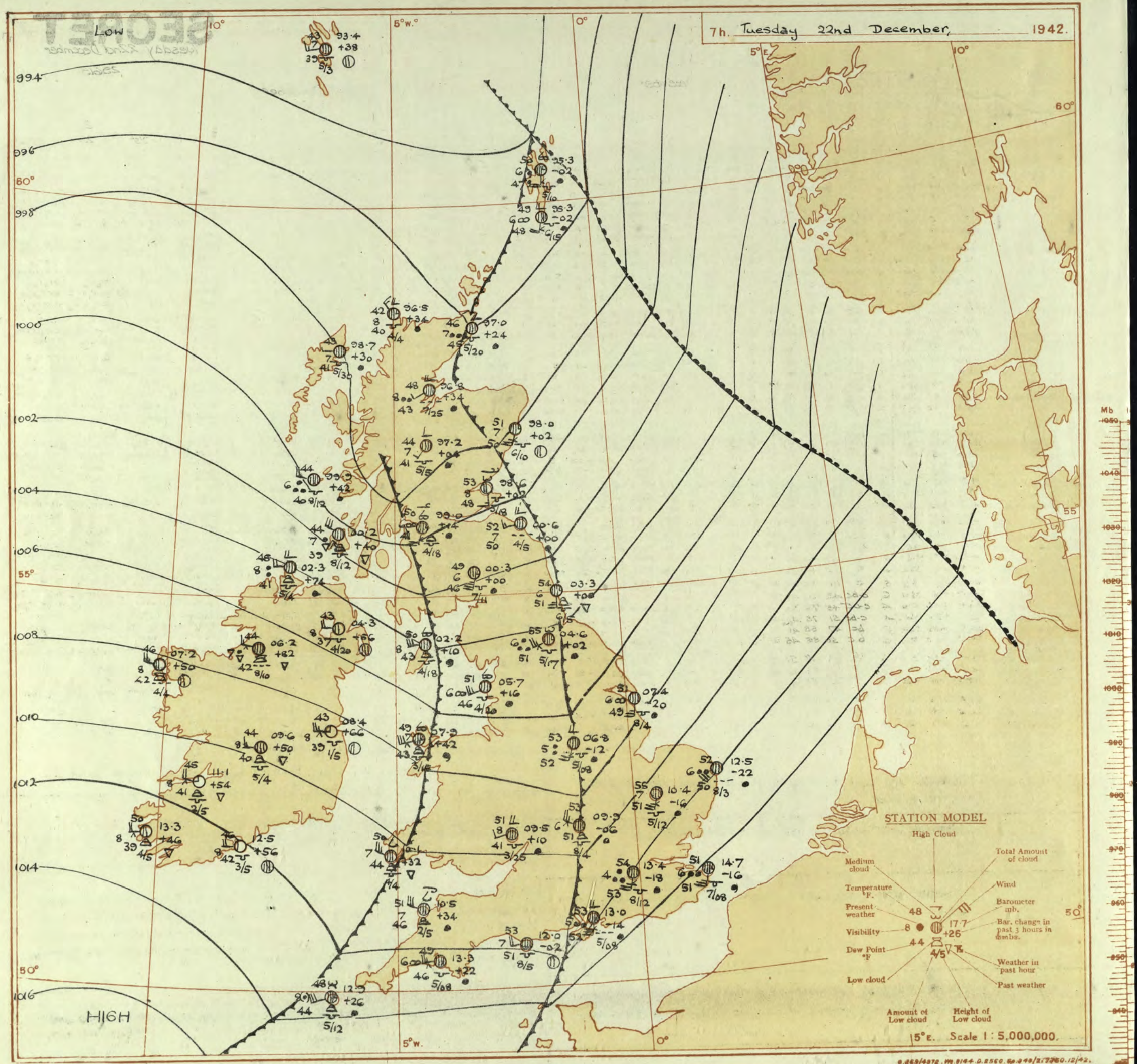
A complex trough of low pressure over eastern and southern districts of Great Britain, is moving east, and a strong ridge of high pressure will move in over the country. After some rain or showers early in the eastern counties, weather will become fair to fine over much of England, but there will continue to be some showers in the west and northeast.

FURTHER OUTLOOK

Unsettled in the west and north, with rain and strong south to southwest winds or gales; fair at first in the southeast, but cloud increasing later with perhaps slight rain; mild 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.

6.369/4872. m.9144. D.2560. Gp.249/2.7260. 12/42.

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).

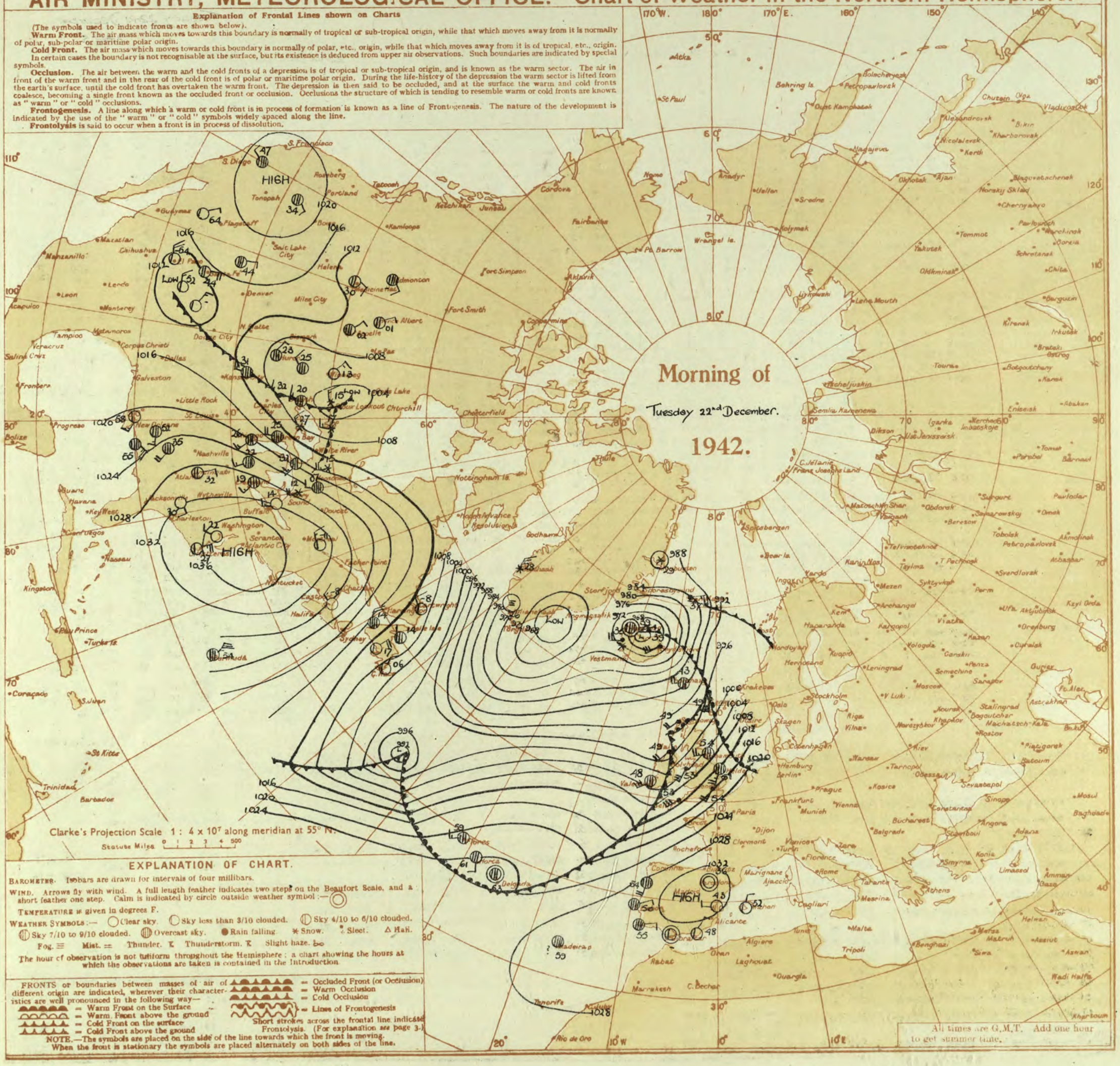
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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 22nd December 1942

No. 29615

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

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	*	*	*	*	*	53	*	*	*	*	*	*	*	*	*
	Croydon	290	17·1	-18	S'W	5	ir_0	54	97	53	5	5	-	-	10	10	700
	S. Farnborough	226	15·4	-18	SSW	5	ir_0	53	97	52	7	5	-	-	9+	9+	800
	Boscombe Down	417	14·4	-18	S'W	6	r_0r_0	53	97	53	5	-	2	-	10	10	500
	Thorney Island	10	16·5	-6	S'W	5	ir_0	53	92	51	7	5	2	-	7-8	10	3600
	Lympne	283	19·0	-24	SW	4	z_0	51	97	51	6	5	-	-	10	10	800
	Manston	154	18·6	-22	SSW	5	d_0d_0	51	97	50	6	6	2	-	9	10	500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	18·1	-16	S'W	5	z_0	49	97	48	6	5	-	-	10	10	800
	Gorleston	5	11·8	-24	SSW	6	o/r	49	92	47	6	6	-	-	10	10	800
	Mildenhall	15	14·3	-26	S'W	5	c	55	85	51	8	5	-	-	10	10	1000
	Cranwell	203	11·3	-16	S'W	4	id_0	54	97	54	6	5	2	-	9	10	900
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	13·6	-14	SSW	6	o/d	54	92	52	6	5	-	-	10	10	1000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	07·9	-16	SW	6	rr	54	97	53	6	6	2	-	7-8	10	1500
	Bristol	209	12·1	-16	S	5	r_0r_0	55	92	53	6	5	2	-	9	10	1200
	Portland Bill	32	14·2	-14	SE	5	rr	51	92	49	7	5	-	-	10	10	2500
	Plymouth	82	12·2	-20	SSW	7	d_0d_0	54	97	54	5	5	-	-	10	10	200
	The Lizard	240	11·2	-10	WSW	6	r_0r_0	54	97	54	6	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	09·1	-8	SW'S	6	dr	53	97	53	5	5	-	-	10	10	500
	Guernsey	175															
6	Pembroke	142	07·1	-12	SSW	6	PR	53	97	53	6	5	-	-	10	10	1500
7	Holyhead (Valley)	32	04·6	-12	S'W	6	d_0d_0	53	97	52	5	5	-	-	10	10	450
	Chester (Sealand)	16	07·6	-10	S	1	z_0	55	92	53	6	5	2	-	9	10	1500
8	Manchester	235	08·4	-14	S'E	4	c	55	92	52	7	5	-	-	10	10	2100
10	Spurn Head	29	11·1	-2	S	5	z_0	51	97	50	6	5	-	-	10	10	1500
	Catterick	175	06·8	-20	SSW	4	c/f	54	92	52	6	5	2	-	7-8	10	1000
	Tynemouth	108	05·8	-16	WSW	5	c	54	85	50	6	8	-	-	9	9	2500
11	St. Abbs Head	280	02·4	-12	S	5	c	52	85	48	6	5	-	-	9+	9+	2500
	Leuchars	36	00·5	-16	SSW	4	c-bc	54	75	47	8	5	3	-	7-8	7-8	1800
12	Renfrew (Abbots I.)	19	99·7	-16	S	5	id_0	55	85	51	5	5	-	-	10	10	1200
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	02·0	-18	SW	6	c/d	54	92	52	7	6	2	-	9	10	1000
13A	Tiree	44	99·8	-2	SW'S	3	r_0r_0	49	97	49	6	5	-	-	10	10	1500
13B	Stornoway	15	92·6	+10	SW	4	r_0r_0	49	97	48	6	5	-	-	10	10	1000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	99·5	-20	S'W	7	c	51	85	47	7	5	-	-	9+	9+	2000
	Wick	114															
16	Sumburgh	19	97·2	-10	SSE	6	r_0r_0	49	92	47	6	-	2	-	10	10	1000
17	Blacksod Point	18	94·7	+10	W'N	5	PR	46	92	44	7	6	2	-	4-6	10	1500
18	Malin Head	84	93·5	-2	SW	4	rr	49	97	49	8	8	2	-	7-8	10	1500
	Aldergrove	268	97·6	-14	S	3	ir_0	54	85	50	7	5	-	-	10	10	2000
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	03·1	+8	W'S	6	c/pr	48	85	44	8	5	-	-	9+	9+	2500
	Roches Point	22	03·2	+12	WSW	5	bc	52	97	52	8	5	-	7	4-6	4-6	1500

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

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)	11·5	-14	SSW	5	r_0r_0	52	97	51	6	6	2	-	7-8	10	1500	1	*
Croydon	13·4	-18	SSW	5	rr	54	97	53	4	5	-	-	10	10	1200	1	
S. Farnborough	11·7	-14	SSW	5	rr	53	97	52	6	5	2	-	9+	10	800	1	*
Boscombe Down	12·1	-6	W'S	4	r_0r_0	51	97	50	5	6	2	-	9+	10	800	1	*
Thorney Island	13·0	-14	SSW	6	r_0r_0	53	92	52	5	6	2	-	7-8	10	800	1	*
Lympne	15·2	-20	SSW	4	dr	51	97	51	5	-	2	-	10	10	500	1	§5
Manston	14·7	-16	SSW	5	r_0r_0	51	97	51	6	5	-	-	9+	9+	800	1	*
Shoeburyness	14·3	-10	SW	5	dd	52	97	51	5	-	2	-	10	10	800	1	*
Felixstowe	13·8	-20	S'W	5	o/d	50	97	49	6	5	-	-	10	10	1700	1	4
Gorleston	12·5	-22	SW'S	5	r_0r_0	52	92	50	6	6	-	-	10	10	800	1	5
Mildenhall	10·4	-16	SSW	5	c/r	55	85	51	7	5	-	-	7-8	10	1200	1	*
Cranwell	07·6		S'W	4	z_0	53		51	6	-	7		0	9+	-	1	*
Birmingham	08·7	0	WSW	3	ir_0	51	92	49	6	6	2	-	7-8	10	800	1	*
Upper Heyford	09·9	-6	W'N	5	c/r	53	92	51	6	8	-	-	10	10	1500	1	*
Ross-on-Wye	09·6	+10	SW'W	2	c	51	75	41	8	5	2	-	2-3	10	2500	1	*
Hartland Point	10·8	+34	WNW	6	c-bc	51	85	46	7	2	4	3	1	7-8	2500	1	5
Bristol	11·9	+20	SSW	2	r_0r_0	50	85	44	7	6	2	-	2-3	2-3	1800	2	*
Portland Bill	12·0	-2	WSW	4	o	53	92	51	7	5	-	-	10	10	2300	1	5
Plymouth	13·3	+22	W'S	5	z_0	49	85	46	6	5	-	-	7-8	10	800	1	4
The Lizard	13·6	+20	WNW	6	c-bc	50	85	45	8	8	6	-	7-8	7-8	1500	1	5
Scilly (St. Mary's)	12·9	+26	W'S	6	cjp	48	85	44	8	8	6	-	7-8	9+	1200	1	5
Guernsey																	
Pembroke	10·1	+32	WNW	5	c-bc/pr	50	85	44	7	8	4	-	4-6	7-8	1500	1	5
Holyhead (Valley)	07·9	+42	WSW	6	c	49	75	43	7	8	7	-	2-3	9+	1500	1	4
Chester (Sealand)	07·0	+14	S	3	c	52	65	42	7	5	7	-	9+	10	2500	1	*
Manchester	07·2	+10	SW	4	rr	51	92	49	7	9	-	-	10	10	3700	1	*
Spurn Head	07·4	-20	S'W	5	z_0	51	92	49	6	5	-	-	10	10	1500	1	4
Catterick	04·6	+2	SW	5	rr	55	85	51	6	5	3	-	7-8	9	1700	1	*
Tynemouth	03·3	0	S	5	c/pr	54	85	51	6	8	-	-	9	9	2500	1	3
St. Abbs Head	00·6	0	SW	3	c-bc	52	92	50	7	6	2	-	4-6	7-8	2500	1	4
Leuchars	98·6	+2	SSW	3	bc	53	85	48	8	5	3	2	2-3	4-6	1800	1	*
Renfrew (Abbots I.)	99·0	+14	SSW	4	z_0	50	75	41	6	8	7	8	4-6	9+	1800	2	*
Eskdalemuir	00·3	0	SSW	7	c	49	92	46	6	5	-	-	9+	9+	1100	1	*
Point of Ayre	02·2	+10	W'S	6	c	50	75	43	8	8	7	-	4-6	10	1800	1	4
Tiree	99·9	+42	W'N	4	rr	44	85	40	6	5	-	-	10	10	1200	1	4
Stornoway	98·7	+30	W	1	c/r	43	92	41	7	5	7	-	7-8	10	3000	1	
Dalwhinnie	97·2	+4	SW	1	o	44	85	41	7	5	2	-	7-8	10	2500	1	*
Aberdeen †	99·0	+2	SSW	5	c	51	97	50	7	5	-	-	9	9	1000	1	3
Wick	97·0	+24	NW	2	r_0r_0	46	92	45	7	5	2	-	7-8	10	2000	1	*
Sumburgh	95·3	-2	S'W	4	z_0	49	92	48	6	5	2	-	9	10	1500	1	4
Blacksod Point	07·2	+50	WNW	4	bc	46	85	42	8	9	-	-	4-6	4-6	1500	2	4
Malin Head	02·3	+74	W	4	ir	45	85	41	8	8	2	-	7-8	10	1500	2	5
Aldergrove	04·3	+56	W	4	bc	43	85	37	8	5	-	-	4-6	4-6	2000	1	*
Birr Castle	09·6	+50	W	3	c-bc	44	85	40	8	8	-	-	7-8	7-8	1500	1	*
Valentia Obsy.	13·3	+46	W	4	bc	50	65	39	8	2	-	-	4-6	4-6	2500	1	4
Roches Point	12·5	+56	W	4	b-bc	46	85	42	8	5	-	-	2-3	2-3	2500	1	5

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (33)	Min. Night 18h–7h °F (34)	Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 21st Hrs. (38)
London (Kew)	53	52	51	-	4	0·0
Croydon	53	51	50	0·1	11	0·0
S. Farnborough	53	52	51	Tr	10	0·0
Boscombe Down	54	50	49	1	11	0·2
Thorney Island	52	51	51	Tr	7	*
Lympne	51	48	47	0·3	13	0·0
Manston	51	49	48	0·5	0·4	0·0
Shoeburyness	53	50	49	-	0·6	0·0
Felixstowe	52	48	47	-	1	1·4
Gorleston	55	48	45	-	0·3	2·0
Mildenhall	55	52	47	-	0·6	1·5
Cranwell	53	50	40	-	5	0·8
Birmingham	54	51	47	0·2	7	0·6
Upper Heyford	54	52	51	0·1	8	*
Ross-on-Wye	54	50	47	0·2	8	0·1
Hartland Point	56	50	47	1	8	0·0
Bristol	55	50	46	0·4	11	1·1
Portland Bill	53	51	*	3	9	*
Plymouth	54	49	46	3	14	0·0
The Lizard	55	49	*	1	8	0·0
Scilly (St. Mary's)	55	48	*	0·2	7	0·0
Guernsey						
Pembroke	54	*		2	2	0·0
Holyhead (Valley)	53	49	47	1	Tr	*
Chester (Sealand)	57	51	42	Tr	2	0·3
Manchester	52	51	50	-	4	*
Spurn Head	52	47	*	-	6	1·6
Catterick	53	48	46	-	2	0·0
Tynemouth	53	50	47	-	0·5	*
St. Abbs Head	52	48	*	-	3	*
Leuchars	53	51	47	-	Tr	0·3
Renfrew (Abbots I.)	55	50	44	6	3	0·0
Eskdalemuir	50	48	47	1	5	0·0
Point of Ayre	53	49	*	0·5	0·6	0·0
Tiree	53	43	42	0·5	15	0·1
Stornoway	52	42	42	6	11	0·2
Dalwhinnie	49	44	41	1	6	0·1
Aberdeen †	51	48	47	-	-	2·5
Wick	49	46	45	Tr	4	*
Sumburgh	50	(48)	44	Tr	2	0·5
Blacksod Point	55	44	*	10	31	*
Malin Head	55	43		0·4	8	0·0
Aldergrove	54	42	38	Tr	0·3	0·0
Birr Castle	56	43	40	0·1	1	0·0
Valentia Obsy.	55	47	43	0·1	1	0·0
Roches Point	54	46	*	0·6	2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	$C_L C_M$ 13h. G.M.T. 21st December	$wwVhN_h$	DDFWN	$C_L C_M$ 18h. G.M.T.	$wwVhN_h$	DDFWN	$C_L C_M$ 01h. G.M.T. 22nd December	$wwVhN_h$	DDFWN	$C_L C_M$ 07h. G.M.T.	$wwVhN_h$	DDFWN
109	04	51790	17443	52	02754	16518	5-	02757	48658	52	62646	28468
115	54	02844	49385	51	61845	49568				62	22844	28367
203										6-	62838	20468
206	8-	01654	53424	57	02862	20427	53	01864	55524	61	61857	20268
210	46	02864	20385	09	02890	14626	53	02863	48526	5-	22846	00068
220	61	02844	16418							52	62424	24168
230	17	05852	16328	57	51745	51668	52	25844	18388	5-	64648	20288
245	20	02761	21515	5-	02746	18516	5-	02757	17457	54	01854	15265
260	53	05663	51615	53	05664	23416	5-	02755	49526	50	01763	20425
278	57	47428	07452	62	02637	51468	5-	02738	49428	52	61855	53428
279	52	05455	18426	53	21654	48666	52	05645	18768	53	05664	18765
285	27	05634	22767									
288	07	05650	18617	53	05663	47525	51	05643	48628	52	61656	16468
575	5-	02748	20228	57	02847	49457	5-	22743	53468	9-	81748	58388
301	57	05564	18327	51	05554	49628	5-	05665	16455	57	05654	20568
321	08	04690	18425	07	05690	16426	62	62646	43468	57	05646	50428
299	51	05564	20313	5-	08490	05654	5-	05657	16317			
292	07	05590	19316	07	08490	12328	6-	22424	15468	5-	63644	16368
310	--	01685	20415							--	62628	20368
514	5-	06547	20327	57	05658	18328	5-	62538	51568	52	63535	51468

III	$C_L C_M$ 13h. G.M.T. 21st December	$wwVhN_h$	DDFWN	$C_L C_M$ 18h. G.M.T.	$wwVhN_h$	DDFWN	$C_L C_M$ 01h. G.M.T. 22nd December	$wwVhN_h$	DDFWN	$C_L C_M$ 07h. G.M.T.	$wwVhN_h$	DDFWN
333	5-	51648	51558	57	51636	49657	62	63538	49558	87	02754	57467
334	--	02646	24417	--	51537	26428				--	02646	24417
340	57	05634	18427				57	02844	49467	5-	02648	55568
136	19	05643	20517	52	05664	19328	5-	22536	51568	5-	22635	51468
336	51	02755	20520	52	22656	20468						
350	57	05643	20325	5-	05645	16428	5-	21636	50568	51	52644	51468
368	57	02656	20418	5-	22647	20367	62	62746	53568			
379	57	06545	24427	52	51644	16428	62	64635	53568			
390	57	05544	58427	5-	41436	16458	52	52437	17468	62	63436	18468
382	57	02854	18426	5-	62638	16428	5-	62748	51658	57	21745	55557
438	--	67109	22659	5-	14637	20647	87	25634	22687	8-	52648	22768
430	5-	51638	18528	5-	53538	18558	5-	05638	49528	5-	62548	49668
409	5-	52618	18558	5-	51628	17658	5-	21638	18658	57	05644	54425

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 22nd December
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_0	cm_0	$cr_0r_0cr_0$
Croydon	$cm_0cm_0id_0$	cm_0id_0	cddmcrr
Greenwich	c	cr_0cd_0	d_0ir_0r
Camden Square	c	c	*
Kensington	bcc	oc	*
Hampstead	bc	od	or

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h.
Max. 0·2 Time 1742h 21st
Min. <0·1 Time 0-6h 22nd

Stations	Temperature Day Max °F	Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	53	52	51	-	4	0·0	*	*
Croydon	53	51	50	0·1	11	0·0	*	*
Greenwich	54	52	50	Tr	4	0·0	88	92
Westminster	55	51	50		3		88	91
Regents Park	54	48	47	Tr	4		87	86
Camden Square	54	54	48	-	4	*	*	89
Kensington	55	52	49	Tr	4		91	93
Hampstead	53	49	47	Tr	4		*	93

Page 1 **BRITISH SECTION**

SECRET

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

Wednesday 23rd December 1942

No. 29616

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	7·7	+36	W'N	3	Z_0	52	85	46	6	6	2	-	4-6	10	1500
	Croydon	17·7	+22	WSW	4	• c	51	85	47	6	5	2	-	2-3	10	1500
	S. Farnborough	18·1	+34	W'N	4	c	51	85	46	8	5	7	-	2-3	9+	1800
	Boscombe Down	19·2	+34	W	4	bc	50	75	43	7	5	4	6	Tr	4-6	2500
	Thorney Island	18·5	+30	W'N	3	Z_0	51	85	46	6	5	7	-	2-3	9+	2500
	Lympne	18·2	+32	WSW	3	c/t	51	97	50	7	5	7	-	7-8	10	400
	Manston	16·9	+24	WSW	3	it	51	92	49	7	6	2	-	2-3	10	1200
2	Shoeburyness	17·1	+26	WSW	3	Z_0	51	92	49	6	5	-	-	9+	9+	4000
	Felixstowe	16·0	+34	WSW	3	o	51	97	48	5	5	-	-	10	10	800
	Gorleston	14·7	+24	W	3	t_0t_0	52	85	48	6	6	-	-	10	10	1000
	Mildenhall	15·6	+34	WSW	4	c	51	85	46	7	5	2	-	4-6	10	6000
	Cranwell	15·3	+46	W'N	4	c	48	75	41	7	5	2	-	2-3	10	3500
3	Birmingham	17·8	+50	W	4	c-bc	48	75	41	8	8	7	-	2-3	7-8	2500
	Upper Heyford	17·6	+50	NW'W	4	c	48	85	43	8	8	7	8	1	9	1500
4	Ross-on-Wye	18·9	+50	W	4	b-bc	50	65	39	8	1	-	1	2-3	2-3	3000
5	Hartland Point	21·5	+42	NW	4	bc	50	65	39	8	2	-	-	4-6	4-6	1500
	Bristol	20·4	+52	W	3	c	49	85	44	7	8	-	-	9	9	2500
	Portland Bill	20·8	+50	NW	4	c-bc	51	86	47	8	2	-	-	7-8	7-8	4000
	Plymouth	22·7	+44	NW	4	b-bc	51	75	43	8	1	-	-	2-3	2-3	2500
	The Lizard	23·7	+30	NW'N	6	bc	52	65	40	8	8	-	-	4-6	4-6	2000
	Scilly (St. Mary's)	24·1	+42	W	5	bc/pr	50	85	45	8	8	6	-	4-6	4-6	1200
	Guernsey															
6	Pembroke	20·9	+40	WNW	4	b-bcq	51	65	41	8	2	4	-	2-3	2-3	3000
7	Holyhead (Valley)	17·4	+42	W'N	4	bc	51	65	38	8	2	6	-	Tr	Tr	3000
	Chester (Sealand)	17·0	+46	WNW	4	bc	49	65	37	8	1	-	1	Tr	1	2500
8	Manchester	16·5	+50	W'S	5	c-bc	47	85	42	7	2	6	3	4-6	7-8	2500
10	Spurn Head	13·9	0	SW'W	5	c	48	75	41	7	5	2	-	4-6	10	1400
	Catterick	13·1	+46	WSW	3	c	47	75	40	8	5	7	-	4-6	9+	2500
	Tynemouth	11·0	+58	WSW	5	Z_0	47	75	39	6	8	-	-	9	9	2200
11	St. Abbs Head	06·4	+42	W	6	bc	47	75	40	7	5	4	-	4-6	4-6	2000
	Leuchars	07·0	+58	SW	5	bc	48	65	38	9	8	6	3	1	4-6	4000
12	Renfrew (Abbots I.)	10·6	+44	W'S	3	bcjp	47	75	38	8	3	7	3	4-6	4-6	2000
	Eskdalemuir	10·7	+48	WSW	6	c-bc	45	75	36	8	8	7	-	7-8	7-8	1900
	Point of Ayre	14·9	+30	NW'W	5	bc	48	75	41	8	1	-	5	Tr	1	3500
13A	Tiree	10·9	+50	W'N	5	bc	47	65	36	9	2	-	3	4-6	4-6	2500
13B	Stornoway	07·7	+50	SW	5	pr	41	92	39	8	8	7	-	4-6	10	2200
15	Dalwhinnie	00·0	+64	W	3	c	40	85	37	7	5	-	2	7-8	9	1500
	Aberdeen	03·8	+40	NW	6	c/t	46	85	41	9	5	7	-	4-6	9	3000
	Wick	05·0	+46	WNW	2	it	43	97	42	7	5	-	-	10	10	1000
16	Sumburgh	02·9	+34	NW	3	t_0t_0	44	92	43	7	5	7	-	2-3	10	3000
17	Blacksod Point	15·7	+34	W	3	bc	49	75	41	8	3	-	3	2-3	4-6	2500
18	Malin Head	12·4	+46	NW'W	4	pt	46	65	35	8	8	-	-	7-8	7-8	2500
	Aldergrove	14·9	+42	SW'S	3	bc	46	75	39	9	8	-	-	4-6	4-6	3000
19	Birr Castle	17·6	+30	W'N	2	b-bc	48	75	40	8	5	-	-	2-3	2-3	2500
20	Valentia Obsy.	21·0	+34	W'S	5	bc/pt	50	65	39	8	3	-	-	1	1	2500
	Roches Point	20·5	+28	W	3	b-bc	49	75	41	8	3	-	-	2-3	2-3	1500

OBSERVATIONS at 18h. G.M.T. 22nd December — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Weather 7h.–13h. 22nd (39)	Weather 13h.–18h. 22nd (40)	Weather 18h. 22nd to 1h. 23rd (41)	Weather 1h.–7h. 23rd (42)
London (Kew)	26·7	+48	W	2	Z_0	46	75	39	6	5	-	-	Tr	Tr	1500	1	•	$cr_0it_0cm_0$	$cbcbZ_0$	bm_0x	bfx
Croydon	26·7	+48	W	3	m	46	85	41	4	-	4	-	0	Tr	-	1	•	$cit_0m_0cm_0$	bcm_0bm	bm	bm_0
S. Farnborough	26·7	+40	WNW	3	b	44	85	39	8	-	-	-	0	0	-	1	•	ctm_0t_0c	cb	bm_0b	bm_0fx
Boscombe Down	27·6	+48	W	3	b	43	85	39	8	-	-	-	0	0	-	0	•	c	bcb	bbm_0bm	bm_0bmx
Thorney Island	27·2	+52	WNW	2	Z_0	44	85	41	6	-	3	-	0	Tr	-	1	•	$cttm_0c$	cm_0cbc	obm_0	bm_0fgx
Lympne	26·3	+40	NW	3	Z_0	46	85	39	6	-	4	2	0	2-3	-	1	§2	$d_0t_0m_0ct$	$cepr_0m_0$	$bcbm_0w$	bm_0x
Manston	25·2	+54	NW	3	Z_0	47	85	42	6	5	7	-	Tr	7-8	2000	1	•	$ct_0t_0m_0cit$	cir_0bcm_0	bm	bm_0
Shoeburyness	25·3	+40	NW	3	Z_0	46	85	42	6	-	4	-	0	2-3	-	1	•	cm_0oddzm	cm_0bcm_0	bm	bm
Felixstowe	24·6	+34	W'N	3	Z_0	48	75	39	6	-	7	2	0	4-6	-	1	3	$cit_0m_0cm_0$	cm_0bcbcm_0	bcm_0cm_0	bm_0bm
Gorleston	22·6	+32	W	3	bc	48	85	42	6	5	-	-	4-6	4-6	2500	1	3	ot_0t_0	$otcbcbcz_0$	bcbmzw	b
Mildenhall	24·7	+56	W'S	3	b-bc	43	85	39	7	-	4	1	0	2-3	-	1	•	$ccir_0c$	cbc	bbm_0	bm_0bfx
Cranwell	23·7	+58	W	3	b	43	85	37	6	-	-	-	0	0	-	1	•	cit_0m_0c	cbcb	cm_0bcbm_0	bm_0
Birmingham	25·1	+48	WSW	3	b	44	75	37	9	-	-	-	0	0	-	1	•	it_0c	cb	b	bz
Upper Heyford	26·1	+52	W'S	1	bc	42	85	37	9	-	-	8	0	Tr	-	1	•	cm_0it_0c	cbcb	$bcbm_0$	bmb
Ross-on-Wye	26·1	+44	W'S	2	bc	44	75	37	8	5	-	-	Tr	Tr	3000	1	•	cebc	bcb	bb	bbc
Hartland Point	27·0	+34	WNW	5	b-bc	50	85	44	8	2	-	-	2-3	2-3	1500	1	4	cprbc	$bepr_0$	bcbc	bcbcb
Bristol	27·6	+42	-	0	Z_0	45	85	39	6	-	-	-	0	0	-	1	•	ccm_0bc	bm_0	bm_0bw	bxbw
Portland Bill	27·8	+28	NW	3	b	50	75	43	8	-	-	-	0	0	-	1	4	ca	bcb	bb	bb
Plymouth	29·2	+42	NW'W	3	Z_0	48	85	45	6	8	6	-	2-3	4-6	2500	1	3	cm_0prbc	$bcbm_0$	bm_0	$bcbm_0$
The Lizard	28·3	+20	NW	4	bc	50	75	43	8	8	6	-	4-6	4-6	2000	1	4	cp_0bc	bc	bcw	bcw
Scilly (St. Mary's)	29·1	+30	W	4	bc	50	85	44	8	2	-	-	Tr	Tr	1500	1	5	cppbc	bcb	bw	bbcw
Guernsey																					
Pembroke	27·1	+16	WSW	5	bcq	50	75	42	8	2	-	-	1	1	4000	1	4	bcq	bcq	bc	bccq
Holyhead (Valley)	24·1	+38	WSW	4	b-bc	47	92	45	8	2	-	-	2-3	2-3	2500	1	3	cbcb	bbc	bccb	bbc
Chester (Sealand)	23·7	+42	W	1	b-bc	47	75	40	8	5	-	-	1	2-3	3500	1	•	citbc	bc, b	b	$bbcm_0$
Manchester	24·1	+46	S	2	bc	42	85	37	7	5	6	-	2-3	4-6	2500	1	•	$ttpr_0c$	$bbcm_0$	bm_0	b
Spurn Head	22·2	+38	W'N	4	bc	46	75	39	7	7	3	-	4-6	4-6	2500	0	4	c	bc	bm_0	b
Catterick	21·6	+32	W	1	bc	45	75	37	8	3	-	-	Tr	Tr	2500	1	•	c	cbcb	b	bc
Tynemouth	19·1	+36	W	5	b	45	75	36	6	-	-	-	0	0	-	1	3	cm_0	bcb	b	bbc
St. Abbs Head	15·6	+36	W	6	b-bc	46	55	34	7	4	-	-	2-3	2-3	4000	0	5	cbc	cbc	b	bc
Leuchars	16·2	+30	SW	3	b	42	75	34	9	-	-	-	0	0	-	1	•	bccbc	bcb	bcbc	bcwcw
Renfrew (Abbots I.)	19·1	+52	SW	3	bc	44	75	37	8	8	6	-	4-6	4-6	2500	2	•	cpr_0bc	bc	bceprprcb	$bcbcm_0bc$
Eskdalemuir	20·0	+50	S	2	c-bc	39	85	35	8	5	-	-	7-8	7-8	2500	1	•	cpr_0c	cbc	$bcpr_0b$	$bcom_0$
Point of Ayre	21·4	+36	WNW	5	bc	46	85	40	8	2	-	-	1	1	3000	0	4	cbcb	b	b	bbcb
Tiree	17·6	+38	WNW	2	bcjp	43	85	39	9	3	4	-	4-6	4-6	2500	1	3	ttpRbc	bcbcjp	bcjpbc	bcc
Stornoway	15·1	+50	SSW	3	bc	38	92	36	8	3	-	-	1	1	2500	1	*	cpr_0	cpr_0bcb	bcc	c
Dalwhinnie	16·0	+48	W	3	bc	37	85	31	8	2	-	-	1	1	4000	1	•	oprc	coitb		bpr_0c
Aberdeen	15·3	+58	WNW	3	bc	43	75	35	8	4	4	-	Tr	Tr	2500	1	3	$cbcz_0it_0c$	$cqpr_0bcb$	bx	bxcz
Wick	13·2	+34	W	3	c-bc	42	85	37	8	8	3	-	4-6	7-8	2000	1	•	ctt	ctte	bbccv	o
Sumburgh	10·3	+50	W	5	it_0	47	75	38	8	5	7	-	2-3	9+	2000	1	3	cct_0t_0	$ccir_0$	bbc	bcc
Blacksod Point	19·8	+24	WSW	3	b-bc	48	75	41	8	8	-	-	2-3	2-3	2500	2	3	bc	bc	c	c
Malin Head	18·0	+34	SW	3	bc	45	85	41	8	2	-	-	4-6	4-6	2500	2	3	t	pr	bc	c
Aldergrove	21·2	+44	SSW	2	c-bc	42	85	37	8	5	-	-	7-8	7-8	3000	1	•	bc	bbcc	bcbcbc	c
Birr Castle	23·4	+36	S	2	b	41	85	37	8	-	-	-	0	0	-	1	•	bc	b	•	c
Valentia Obsy.	25·0	+24	SSW	4	bc	47	85	43	8	8	3	1	4-6	4-6	2500	1	4	pt	bc	bc	c
Roches Point	25·9	+34	W'S	3	b	47	85	43	8	3	-	1	Tr	1	1500	1	4	bc	bc	b	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 23rd December

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands; 5 S.W. England; 6 South Wales	Light or moderate south to southwest wind freshening tomorrow; fine at first; cloudy later; mild.
7 North Wales; 8 N.W. England; 9 N. Midlands; 10 N.E. England; 11 S.E. Scotland	Moderate or fresh south wind, strong on coasts, gale locally; fair at first; cloudy later with light rain; mild
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland	Fresh south wind, strong to gale on coasts; veering and decreasing; cloudy with occasional rain at first; variable cloud and local showers later; mild.
16 Orkneys and Shetlands; 17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	As 12 - 15

GENERAL INFERENCE

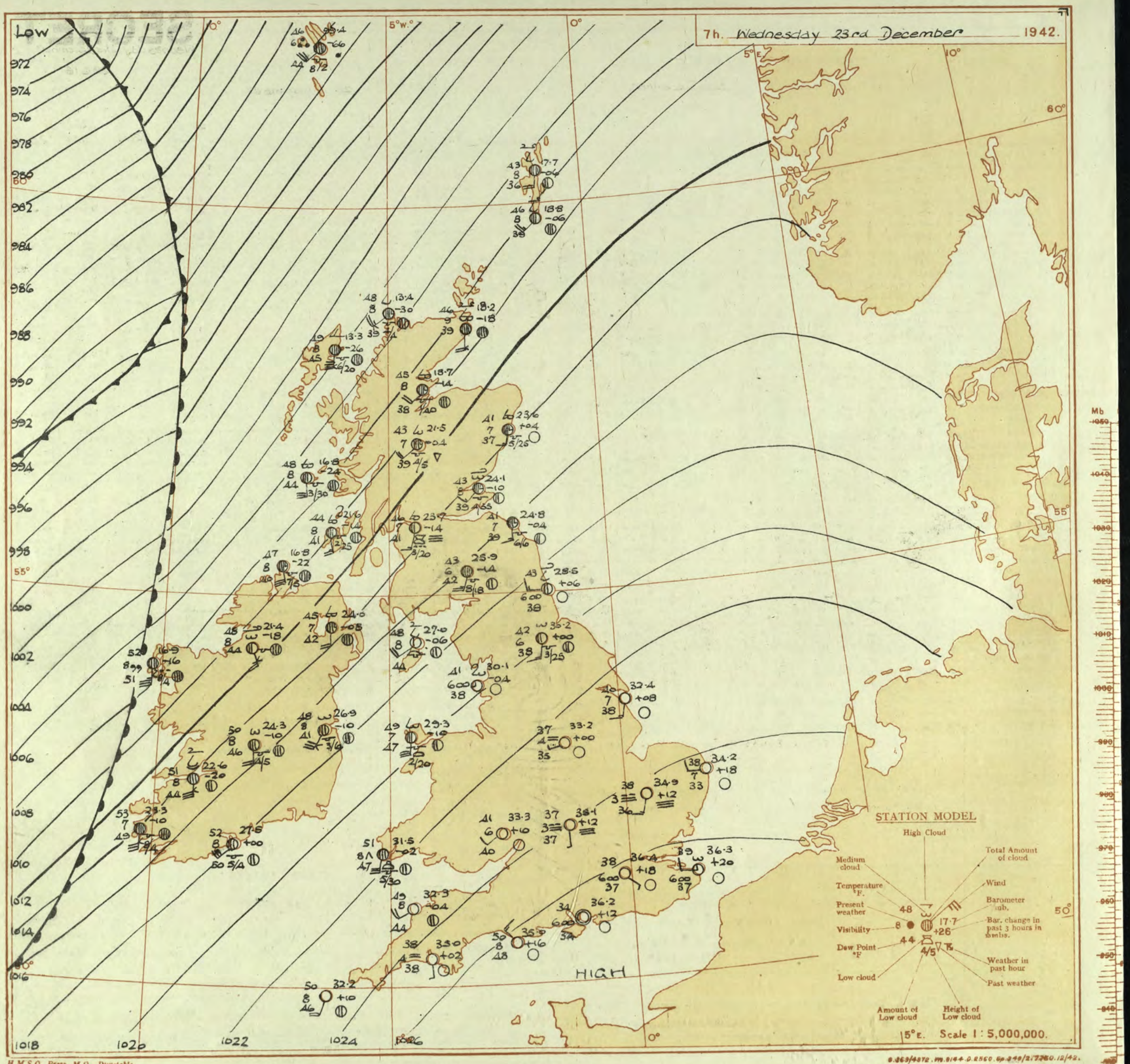
A very deep depression near Iceland is moving northeast and associated fronts to west of Ireland are moving east and northeast. Weather will be fine in the East and South at first but there will be increasing amounts of cloud later. In the North and West there will be much cloud and universal rain with southerly gales at exposed places

FURTHER OUTLOOK

Variable cloud and local showers in the North. Cloudy at first in the South with light rain, becoming fair later. Continuing mild.
Gale warning in operation in districts 6,7,8,10,12,13A,13B,16,17,18 issued at 0745 G.M.T. 23rd Dec 1942
" " " " " " " 0120 " " " "

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).

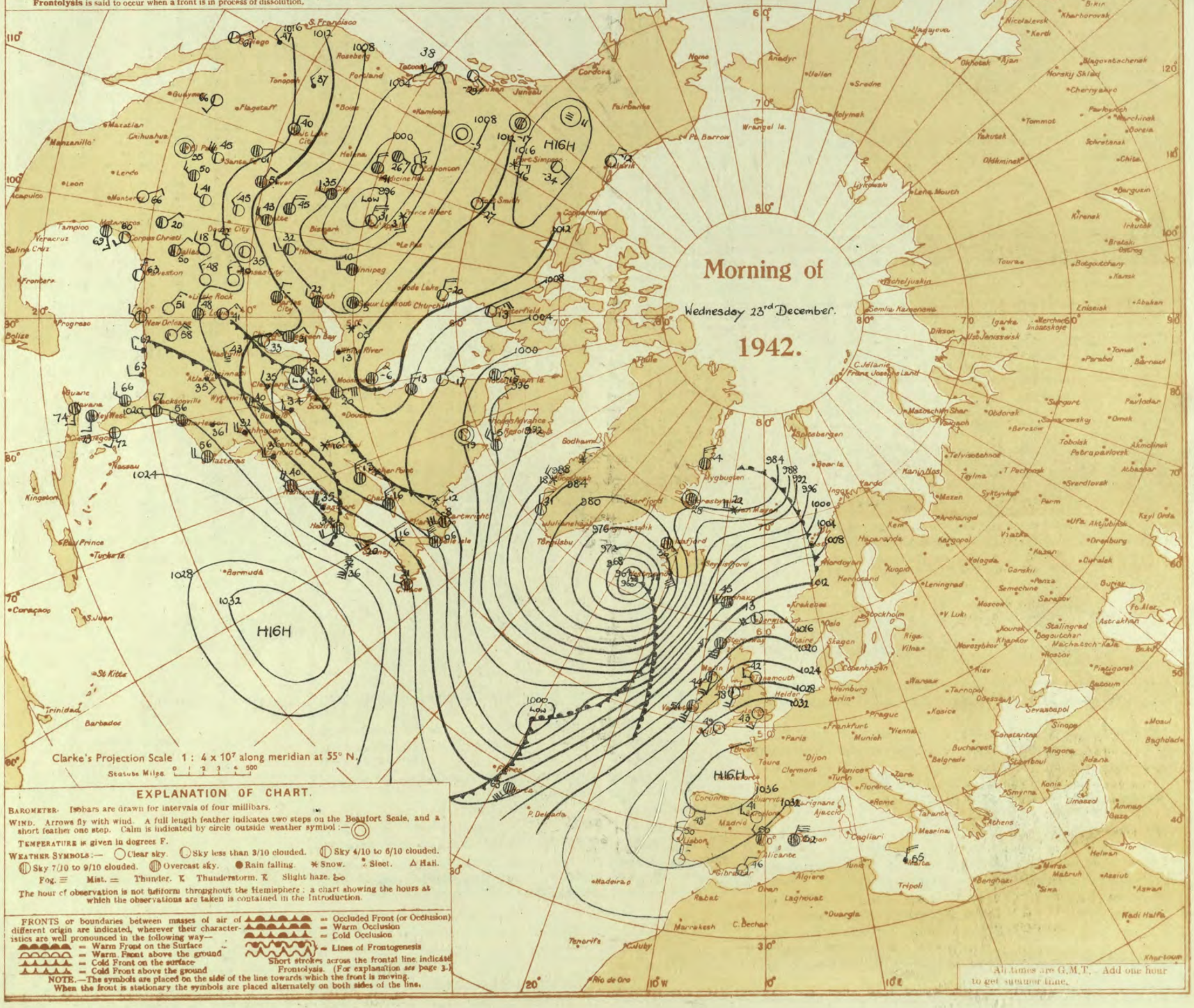
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.

Wednesday 23rd December 1942
No. 29616

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

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	33·5	+44	S	2	z0	43	92	40	6	-	-	-	0	0	-
	S. Farnborough	226	34·2	+26	WSW	1	b	37	97	36	7	-	4	-	0	1	-
	Boscombe Down	417	34·3	+26	SSE	2	z0	36	97	36	5	-	-	-	0	0	-
	Thorney Island	10	34·0	+18	-	0	z0	36	97	34	5	-	-	-	0	0	-
	Lympne	283	33·7	+26	SW	1	z0	35	97	34	6	-	-	-	0	0	-
	Manston	154	33·0	+22	SW'W	1	m	37	92	36	4	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	32·6	+26	W	2	z0	40	92	38	6	-	-	-	0	0	-
	Gorleston	5	32·3	+34	W'S	3	z0	39	92	37	6	-	-	-	0	0	-
	Mildenhall	15	32·2	+32	SW'S	3	z0	38	85	35	6	-	-	-	0	0	-
	Cranwell	203	30·9	+26	W'S	3	z0	40	85	38	6	-	-	1	0	1	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	32·5	+22	SW'S	2	z0	37	97	37	5	-	-	-	0	0	-
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	32·2	+16	W	4	bc	50	85	44	8	2	-	-	4-6	4-6	2500
	Bristol	209	33·1	+16	S	1	b	43	92	41	7	-	-	-	0	0	-
	Portland Bill	32	32·8	+14	NW	3	b	50	92	47	8	-	-	-	0	0	-
	Plymouth	82	34·1	+12	ENE	1	z0	49	97	48	6	-	4	-	0	1	-
	The Lizard	240	33·6	+20	W	3	b-bc	49	85	47	8	2	-	-	2-3	2-3	2000
	Scilly (St. Mary's)	163	32·9	+8	SW'S	3	b	49	92	47	8	-	-	-	0	0	-
	Guernsey	175															
6	Pembroke	142	30·2	+8	SW	5	b	50	85	46	8	2	-	-	1	1	4000
7	Holyhead (Valley)	32	29·3	+10	S'W	4	b	48	85	43	8	-	4	-	0	1	-
	Chester (Sealand)	16	31·0	+26	WSW	1	b	39	85	36	7	-	4	1	0	1	-
8	Manchester	235	30·2	+20	SSE	3	b	39	85	35	7	-	-	-	0	0	-
10	Spurn Head	29	29·8	+24	WSW	3	z0	42	85	38	6	-	-	-	0	0	-
	Catterick	175	28·6	+20	SE	1	b	41	92	39	8	1	-	-	Tr	Tr	1500
	Tynemouth	108	27·4	+20	W	3	b	42	85	36	6	-	-	-	0	0	-
11	St. Abbs Head	280	23·3	+16	WSW	4	b	40	92	38	7	-	-	-	0	0	-
	Leuchars	36	24·7	+24	SW	2	bc	37	97	36	7	-	-	8	0	4-6	-
12	Renfrew (Abbots I.)	19	25·2	+20	SW'S	2	b-bc	44	86	40	7	8	4	-	2-3	2-3	1800
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	27·4	+16	WSW	3	b	42	92	40	8	*	*	*	0	0	*
13A	Tiree	44	20·5	+4	S'W	4	bc	47	85	43	9	-	3	-	0	4-6	-
13B	Stornoway	15	17·1	-10	S	7	c	47	85	42	8	5	1	-	7-8	10	2000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	23·2	+20	-	0	c	35	85	31	9	-	4	7	0	10	-
	Wick	114	20·9	+22	SSW	2	c	40	85	35	9	-	-	7	0	10	-
16	Sumburgh	19	18·2	+26	W'N	4	b-bc	46	75	37	8	2	3	-	2-3	2-3	3000
17	Blacksod Point	18	18·6	-10	S	6	c	51	85	47	8	8	-	-	9+	9+	2500
18	Malin Head	84	20·2	-6	S	4	bc	44	85	40	8	-	5	-	0	4-6	-
	Aldergrove	268	25·5	+6	SSE	2	b-bc	41	85	37	8	-	7	-	0	2-3	-
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	25·5	-2	S'W	6	bc	51	85	47	8	2	-	-	4-6	4-6	1500
	Roches Point	22	28·1	+2	WSW	4	b	49	85	45	8	-	-	5	0	1	-

OBSERVATIONS at 7 hr. G.M.T. 23rd December — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	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)	36·2	+14	WSW	1	bf+	35	97	35	3	-	-	-	0	0	-	1	*	53	35	21	1	Tr	0·5
Croydon	36·4	+18	SE	1	z0	38	97	37	6	-	-	-	0	0	-	1	*	54	37	29	2	-	0·3
S. Farnborough	36·7	+18	S'W	2	bf+	33	97	33	3	5	4	5	Tr	1	2000	1	*	53	32	27	0·6	-	1·2
Boscombe Down	36·2	+16	S	1	m	34	97	33	4	5	-	-	2-3	2-3	100	0	*	58	34	29	Tr	Tr	2·3
Thorney Island	36·2	+12	-	0	z0	34	92	34	6	-	-	-	0	0	-	1	*	54	31	26	1	Tr	*
Lympne	36·4	+16	SW'W	1	z0	33	97	33	6	-	4	-	0	Tr	-	1	§2	52	33	23	3	Tr	0·0
Manston	36·3	+20	W'N	2	z0	39	85	37	6	-	3	-	0	1	-	1	*	52	36	32	1	-	0·0
Shoeburyness	35·7	+12	SW	2	m	39	92	37	4	-	1	-	0	2-3	-	1	*	53	39	26	3	0·5	0·0
Felixstowe	35·5	+14	SSW	1	m	38	92	36	4	-	-	-	0	0	-	1	2	52	38	30	1	-	0·0
Gorleston	34·2	+18	W	2	b	38	85	33	7	-	-	-	0	0	-	0	2	53	37	33	2	-	0·0
Mildenhall	34·9	+12	SSW	3	bf	38	92	36	3	-	-	-	0	0	-	1	*	55	36	28	0·5	Tr	0·0
Cranwell	33·1	+6	SW	2	z0	34	97	33	5	-	-	-	0	0	-	1	*	54	33	25	0·2	Tr	0·3
Birmingham	33·7	+4	SSW	3	z0	39	97	39	6	-	-	-	0	0	-	1	*	51	38	33	0·2	-	2·1
Upper Heyford	35·1	+12	SSE	1	bf	37	97	37	3	-	-	-	0	0	-	1	*	53	36	31	0·1	-	*
Ross-on-Wye	33·3	+10	SW	2	b	41	97	40	6	-	-	-	0	0	-	1	*	51	35	28	-	-	3·7
Hartland Point	32·3	-4	SW	4	b	49	85	44	8	-	-	-	0	0	-	1	4	51	44	42	0·1	-	4·0
Bristol	35·1	+10	S	2	b	41	92	39	7	-	-	-	0	0	-	1	*	51	38	31	0·1	Tr	2·6
Portland Bill	35·0	+16	SSW	3	b	50	92	48	8	-	-	-	0	0	-	1	4	53	46	*	-	-	*
Plymouth	35·0	+2	SSE	1	m	38	97	38	4	-	-	-	0	0	-	1	1	62	37	31	Tr	-	4·2
The Lizard	34·1	+4	SW	4	b-bc	49	97	47	8	4	-	9	2-3	2-3	2500	1	4	53	48	*	0·6	-	5·4
Scilly (St. Mary's)	32·2	+10	SSW	4	b	50	85	46	8	-	-	-	0	0	-	1	4	50	48	*	1	-	0·0
Guernsey																							
Pembroke	31·5	-2	SSW	6	c-bcq	51	85	47	8	8	-	-	7-8	7-8	3000	1	4	51		*	Tr	-	4·8
Holyhead (Valley)	29·3	-10	S'W	6	c-bc	49	92	47	7	7	5	-	1	7-8	2500	1	4	51	46	45	-	-	*
Chester (Sealand)	31·2	0	SW	2	b	39	85	36	6	5	4	-	Tr	Tr	4000	1	*	62	38	31	0·5	-	3·1
Manchester	31·3	-4	SSE	4	z0	40	85	36	6	-	4	-	0	Tr	-	1	*	51	37	31	0·3	-	*
Spurn Head	32·4	+8	SSW	3	b	40	92	7	-	-	-		0	0	-	0	2	53	39	*	-	-	0·0
Catterick	30·2	0	SSW	3	bc	42	85	38	6	5	3	-	2-3	4-6	2500	1	*	55	39	30	1	-	1·5
Tynemouth	28·5	+6	W	3	z0	43	85	38	6	-	4	1	0	4-6	-	1	2	54	40	35	-	-	*
St. Abbs Head	24·8	-4	S	3	c	41	92	36	7	5	-	-	9	9	4000	0	2	52	36	*	-	-	*
Leuchars	24·1	-10	SW	3	c	43	85	39	8	5	3	1	4-6	9+	5500	1	*	53	36	28	-	-	3·0
Renfrew (Abbots I.)	23·7	-14	S'W	3	b-bc	46	85	41	7	9	7	-	2-3	2-3	2000	1	*	50	41	37	0·4	0·4	2·9
Eskdalemuir	25·9	-14	SSW	5	o	43	97	42	6	5	-	-	10	10	1800	1	*	49	35	31	Tr	0·3	1·3
Point of Ayre	27·0	-6	SW'W	4	b-bc	48	85	44	8	4	4	5	Tr	2-3	1800	0	4	50	39	*	-	-	3·5
Tiree	16·8	-24	S'E	6	c-bc	48	85	44	8	5	7	-	2-3	7-8	8000	1	4	47	41	36	2	-	4·5
Stornoway	13·3	-26	S	8	c	49	85	45	8	5	2	-	9	10	2000	1		44	39	29	1	-	0·6
Dalwhinnie	21·5	-4	SW	4	c	43	85	39	7	5	5	-	4-6	9+	2500	0	*	45	33	24	7	0·1	0·0
Aberdeen †	23·6	+4	S'W	3	c	41	85	37	7	5	7	-	7-8	9+	2500	1	2	51	33	25	0·1	-	0·8
Wick	18·2	-18	S'E	4	c	46	75	39	9	-	7	7	0	10	-	1	*	46	37	33	7	Tr	-
Sumburgh	18·8	-6	SW'S	5	c-bc	46	75	39	8	-	4	8	0	7-8	-	1	4	50	45	37	4	Tr	0·0
Blacksod Point	16·9	-16	S	7	dd0	52	97	52	8	6	-	-	10	10	1500	1	5	49	46	*	3	-	*
Malin Head	16·8	-22	SSE	6	c	47	75	40	8	5	-	-	9+	9+	2500	2	3	53	41		3	-	2·3
Aldergrove	24·0	-8	S'E	4	c	45	85	42	7	-	7	-	0	9+	-	1	*	46	37	30	Tr	-	4·6
Birr Castle	24·3	-10	S	4	c-bc	50	85	46	8	5	3	-	4-6	7-8	2500	1	*	49	41	37	-	-	4·4
Valentia Obsy.	23·3	-10	S'W	6	c	53	85	49	7	5	-	-	10	10	1500	1	4	51	47	43	0·3	-	3·7
Roches Point	27·5	0	SW	6	c-bc	52	92	50	8	5	-	-	7-8	7-8	1500	1	4	52	46	*	-	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 22nd December $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 23rd December $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	02	02758	26368	26	01853	24364	00	01890	20314	57	02753	49528
115	52	10845	28468	87	02844	24486	51	02844	16527	54	02844	53527
203												
206	52	22953	26468	50	25853	26383	50	02971	00028	57	02861	20427
210	62	62748	25368	56	01753	22384	00	02890	17318	54	02864	49528
220	80	02855	25415	20	01753	19213						
230	8-	01963	53483	54	01852	18144	47	02863	20215	87	01853	16224
245	86	02954	25426	50	01951	23311	00	02990	23215	53	02856	18318
260				50	05663	24213	50	01851	20211			
278	24	01852	57462	24	01752	22313	53	02851	17207	5-	02745	14427
279				40	05663	24213	00	00690	18310			
285										23	05634	26527
288				00	00890	18300	00	00890	17300			
575	26	01842	22413	46	01841	22301	57	02851	14316	53	01851	47524
301	24	01851	22523	26	01854	24414	00	00890	22310	00	05690	16402
321				00	05590	25320	00	05690	20200	00	05690	19300
299							00	05690	24200	04	05690	24201
292	57	02843	25566	40	01852	23322	00	00790	20280	04	08490	17301
310												
614	57	05644	24466	00	05690	24420	00	05590	18100	00	08490	22100
333	20	00963	25313	26	01862	20213	56	01761	20202	87	02745	41417
334				--	02646	26317						
340	20	01952	26224	40	01764	23114	04	00790	14101	04	00590	16301
136	52	05654	58568	00	05690	23423	00	05590	21200	00	08490	20200
336	10	01754	28514	20	01754	24414				50	01753	20413
350	51	02754	26328	04	01890	22212	00	05690	18200	04	05690	20201
368	30	01753	24413	80	00·62	24302						
379	57	02843	24426				00	05690	20200			
390	52	05644	22368	00	05690	24313	00	47390	23240	00	47390	22140
382	27	02863	26526	00	00890	25310	00	05590	00000	00	08490	00000
438	8-	03636	22628	40	01763	28313	00	00790	28300	00	05690	26200
430	57	05665	22428	04	01690	24311	00	05590	30100	00	04690	00003
409	24	01853	26524	20	01854	26414	00	00890	16300	00	01790	16301

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 23rd December
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	cr0ir0cm0	cbcbz0	bm0xbfx
Croydon	cir0m0cm0	bcm0bm	bm0
Greenwich	rf0c	cb	bxf
Camden Square	o	c	*
Kensington	orbc	bc	*
Hampstead	or	bc	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0·5 Time 18-20h 22nd. Min. 0·1 Time 2-4h 23rd.

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	53	35	21	1	Tr	0·5	*	*
Croydon	54	37	29	2	-	0·3	*	*
Greenwich	53	34	26	0·3	Tr	0·0	70	98
Westminster	53	35	30	·3			77	99
Regents Park	51	37	30	-	-		73	91
Camden Square	52	37	29	Tr	-	*	*	98
Kensington	53	36	26	1	Tr		74	95
Hampstead	50	36	30	0·2	-		*	96

Page 1

SECRET

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

BRITISH SECTION

Thursday 24th December, 1942

No. 29,617.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	35·2	-12	SW	2	z0	48	85	44	6	-	-	3	0	Tr	—
	Croydon	38·9	-8	SW'S	3	b-bc	51	75	45	6	-	-	5	0	2-3	—
	S. Farnborough	35·3	-16	SSW	3	b	51	85	45	7	1	4	1	Tr	Tr	2000
	Boscombe Down	34·6	-22	S	3	z0	48	85	45	6	-	-	5	0	2-3	-
	Thorney Island	35·9	-10	S	2	b	51	85	47	7	5	-	-	1	1	2500
	Lympne	36·8	-10	S	1	z0	49	75	42	6	-	4	1	0	1	-
	Manston	36·6	-10	SW'S	2	b	50	75	42	7	-	4	1	0	Tr	-
2	Shoeburyness	36·2	0	SW	2	z0	49	85	45	5	-	-	9	0	1	-
	Felixstowe	35·2	-10	S'W	2	z0	48	75	41	5	-	-	9	0	4-6	-
	Gorleston	34·2	-10	SW'W	3	b	49	65	37	7	-	4	-	0	1	-
	Mildenhall	34·4	-10	SW	3	z0	49	75	43	6	-	4	1	0	2-3	-
	Cranwell	32·2	-14	SW'S	4	bc	48	75	40	7	-	-	2	0	4-6	-
3	Birmingham	32·4	-4	SSW	3	z0	46	85	42	6	5	-	5	Tr	1	2500
	Upper Heyford	34·1	-12	SSW	4	z0	47	85	43	6	5	4	8	1	2-3	1500
4	Ross-on-Wye	32·9	-8	SW	3	bc	50	75	42	7	1	4	1	2-3	4-6	3000
5	Hartland Point	32·0	-10	SW	4	c-bc	51	85	47	7	5	4	6	4-6	7-8	2400
	Bristol	34·1	-12	SSW	4	bc	50	85	45	8	1	-	2	2-3	4-6	2600
	Portland Bill	34·6	-16	S	4	c-bc	52	92	50	8	2	-	-	7-8	7-8	(2500)
	Plymouth	35·2	-6	S	4	c	52	85	49	7	8	7	-	9	9	2000
	The Lizard	33·7	-10	SW	3	c-bc	52	85	48	8	8	3	-	4-6	7-8	2000
	Scilly (St. Mary's)	32·3	-10	SSW	4	bc	52	75	45	8	5	3	5	4-6	4-6	1200
	Guernsey															
6	Pembroke	31·7	-2	SSW	6	c-bcq	52	85	48	8	8	7	2	4-6	7-8	2500
7	Holyhead (Valley)	28·6	-14	SSW	6	c	51	85	47	7	5	-	-	9+	9+	2000
	Chester (Sealand)	30·2	-10	SSW	2	c	50	75	42	8	5	4	9	1	9	2500
8	Manchester	30·9	-12	S'E	5	z0	41	85	37	6	-	4	9	0	Tr	-
10	Spurn Head	31·8	-12	SW	4	z0	46	85	42	6	5	3	1	2-3	4-6	2500
	Catterick	29·3	-14	S	3	z0	46	85	41	5	5	4	-	2-3	4-6	2200
	Tynemouth	28·4	-4	SSW	3	z0	47	75	40	5	2	3	-	2-3	4-6	2500
11	St. Abbs Head	22·1	-22	SSW	6	c	49	85	47	7	5	4	-	7-8	9	3000
	Leuchars	22·9	-10	W	3	c	50	75	43	8	5	4	6	4-6	9+	3000
12	Renfrew (Abbots I.)	23·1	-6	S'E	2	c	52	75	44	8	5	7	8	7-8	9+	1800
	Eskdalemuir	25·3	-8	SW	7	c	47	92	43	8	5	-	-	9+	9+	300
	Point of Ayre	16·3	-4	SW'W	6	c-bc	52	85	46	7	6	-	6	7-8	7-8	1000
13A	Tiree	15·4	-14	S	6	r0r0	50	85	47	7	5	2	-	4-6	10	2000
13B	Stornoway	10·5	-14	SSW	8	ir0	49	97	49	6	5	-	-	10	10	1200
15	Dalwhinnie	19·5	-4	SW	4	c	47	85	42	8	5	-	2	7-8	9+	1500
	Aberdeen	21·5	-4	SSW	4	z0	47	85	43	6	6	7	-	7-8	10	1500
	Wick	15·9	-12	S	6	c	49	75	40	9	9	7	-	2-3	9+	2500
16	Sumburgh	14·4	-26	S	6	c	48	85	43	7	5	7	-	4-6	10	5000
17	Blacksod Point	15·3	-18	SW	7	RR	52	97	51	7	6	2	-	4-6	10	1500
18	Malin Head	15·5	-18	S	6	c	52	97	51	8	5	-	-	9+	9+	1500
	Aldergrove	22·2	-16	S'W	6	c	50	85	46	7	5	-	-	9+	9+	2000
19	Birr Castle	22·5	-16	S	5	c	54	85	50	8	5	7	-	7-8	9	2500
20	Valentia Obsy.	21·5	-14	S	6	d0d0	53	92	51	6	5	-	-	10	10	800
	Roches Point	25·8	-18	SSW	6	o	52	92	50	7	5	-	-	10	10	450

OBSERVATIONS at 18h. G.M.T. 23rd December / PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Weather 7h.–13h. 23rd (39)	Weather 13h.–18h. 23rd (40)	Weather 18h 23rd to 1h 24th (41)	Weather 1h.–7h. 24th (42)
London (Kew)	34·2	0	SW	2	z0	47	92	44	6	5	-	6	2-3	7-8	2500	1	*	fFexbm0	bcm0	bccm0	cbcmw
Croydon	34·7	-2	SSW	3	z0	47	97	46	5	5	3	-	2-3	4-6	2000	1	*	bmbcm0	bcm0cm0	bcm0	cm0bcmb
S. Farnborough	34·5	-4	SSW	2	z0	46	92	44	6	5	3	2	2-3	7-8	2000	1	*	bfxm0b	bbm0fcm0	cbbcbm0w	bm0cb0w
Boscombe Down	34·1	-2	S'W	3	z0	45	97	44	6	5	7	-	7-8	9	2100	0	*	bcmbm0	bm0	bcm0	bcm0cw
Thorney Island	34·6	-6	SW'S	3	z0	47	92	46	6	5	-	-	2-3	2-3	4000	1	*	bm0fgbm0b	bbc	bcm0b	bcb
Lympne	35·4	-2	SW	1	b-bc	44	97	43	7	-	4	5	0	2-3	-	1	3	bcbm0bz0	bz0bc	cm0bc	bccw
Manston	35·2	+2	SW	2	z0	43	97	42	6	-	-	6	0	2-3	-	1	*	bbcm0	bbm0	cm0fg	cm0bc
Shoeburyness	34·9	0	SW	2	z0	45	85	42	5	5	-	-	4-6	4-6	2500	1	*	bm0	bcm0bm0	bcm0	bcm0∞
Felixstowe	34·3	-2	SSW	2	z0	43	97	42	5	-	4	6	0	4-6	-	0	2	bmbcm0	bm0bcm0w	bcm0wcm	bm0cm0w
Gorleston	33·7	-2	SW'S	2	m	44	85	41	5	-	7	-	0	2-3	-	0	2	bcz0b	bccm0	bcm0wbz0	bccz0w
Mildenhall	33·2	-2	SSW	3	z0	46	85	42	5	5	4	2	2-3	9	4000	1	*	bfxbcm0bz0	bz0cm0	bcmcfbm	bmbfbcm
Cranwell	31·5	-2	S'W	3	z0	42	92	40	5	-	-	2	0	4-6	-	1	*	bm0bc	bcbcm0	cm0bcm0w	cm0bcm0x
Birmingham	31·0	-6	SSW	4	bc	46	85	42	6	-	7	1	0	4-6	-	1	*	bz	bbcpr0	bc	bc
Upper Heyford	33·4	-2	SSW	3	z0	47	85	43	6	5	-	-	10	10	2200	1	*	bfbcm0	bbccm0	bcm0cm0c	cbc
Ross-on-Wye	31·5	-6	WSW	2	c	49	75	43	7	5	-	1	7-8	9+	3000	1	*	bbc	bcc	c	c
Hartland Point	29·9	-14	WSW	4	c	50	85	45	8	5	-	-	9	9	2500	1	4	bbcc	c	cbc	bcc
Bristol	33·1	+4	S	3	c	49	85	45	7	5	-	-	9+	9+	2500	1	*	bwbcbc	bcc	c	c
Portland Bill	34·0	+2	SSW	4	c-bc	53	85	49	8	5	-	-	7-8	7-8	(2500)	1	4	bcc	bcc	c	c
Plymouth	33·5	-6	SW	4	c	52	85	49	7	5	-	-	9	9	2000	1	3	bm0bc	cbcc	c	c
The Lizard	31·9	-14	SW'W	6	c	51	75	44	8	8	-	-	9	9	1500	1	5	cbcc	c	c	c
Scilly (St. Mary's)	30·0	-10	SSW	5	c	51	75	44	8	5	-	-	9+	9+	1200	1	4	bbccbc	bcc	c	cbcc
Guernsey																					
Pembroke	29·3	-8	SSW	6	cq	51	92	48	8	8	-	-	10	10	2500	0	4	bccq	cq	cq	cq
Holyhead (Valley)	27·3	-2	S'W	7	c	51	85	48	6	5	-	-	10	10	1900	1	4	bcc	c	cm0	cm0
Chester (Sealand)	28·7	-2	S'W	3	bc	52	65	49	7	5	7	-	4-6	4-6	4000	1	*	bm0c	c	bcc	c
Manchester	29·9	-6	S'E	4	z0	46	85	40	6	-	4	2	0	7-8	-	1	*	bccm0	cm0cz0	bccm0	cbcm0m0w
Spurn Head	31·0	-8	SSW	4	z0	45	85	41	6	5	3	-	2-3	4-6	2500	0	3	bcz0	bcz0	c	bc
Catterick	28·4	-2	S'E	3	z0	46	85	41	5	-	7	-	0	9	-	1	*	cm0bcm0	bcm0cm0	cm0mf	cf
Tynemouth	27·0	-2	SSW	3	z0	49	75	41	5	5	-	-	7-8	7-8	2500	1	3	bcm0	bccm0	cm0bcc	cbc
St. Abbs Head	19·9	-6	SSW	7	c-bc	49	85	45	7	5	-	-	7-8	7-8	2500	0	5	c	c	c	c
Leuchars	21·1	-8	SW	3	c	51	85	45	8	5	-	-	10	10	2000	1	*	c	c	c	c
Renfrew (Abbots I.)	21·1	+6	SSW	5	c/d	52	85	47	6	5	7	-	9	10	1600	1	*	bccm0c	cir0id0	cm0	cm0
Eskdalemuir	24·5	0	SSW	6	r0r0	46	97	45	4	-	2	-	10	10	200	1	*	bd0m0c	cod0r0	or0r0m	or0r0om0
Point of Ayre	25·0	0	SW'W	6	c	52	85	47	7	6	2	-	4-6	10	800	0	5	bbcc	c	c	c
Tiree	14·8	-6	S	6	c	52	92	49	7	5	-	-	7-8	9+	1800	1	6	ccr0r0	rr0dm0irc	cid0r0cd	d.dRrq
Stornoway	10·2	+2	SSW	9	r0r0	51	97	50	6	5	-	-	10	10	900	1		cir0m0	cir0r0r0d0m	crdr0d0dmc	ccir0m
Dalwhinnie	15·8	-4	SW	3	ir0	47	92	44	7	5	-	-	10	10	1500	1	*	c	cir0o	*	crro
Aberdeen	19·8	-4	SE	2	c	49	85	44	7	6	7	-	4-6	9+	1500	1	3	cxcz0	cz0c	ccz0	cz0
Wick	14·6	-4	S	3	c-bc	50	85	46	8	-	7	-	0	7-8	-	1	*	c.	c	c	c
Sumburgh	13·6	-4	S'W	6	r0r0	48	92	46	7	5	2	-	4-6	10	3000	1	4	cir0c	ccr0r0	c	c
Blacksod Point	13·5	-12	S	7	dd	53	97	52	7	6	2	-	2-3	10	800	2	6	r	d	d	r
Malin Head	15·5	+6	S	6	c	53	85	49	8	8	-	-	10	10	1500	2	3	c	r	c	r
Aldergrove	21·2	0	S'W	4	c	52	85	48	7	5	-	-	10	10	1200	1	*	c	ccid0c	c	cid0c
Birr Castle	20·7	-14	S	6	c	53	85	49	8	6	2	-	7-8	10	1500	1	*	c	c	*	r
Valentia Obsy.	19·3	-10	S'W	7	z0	53	92	51	6	5	-	-	10	10	800	1	5	r	d	r	r
Roches Point	24·2	-8	SSW	6	id.	52	92	50	7	5	-	-	9+	9+	450	1	5	d	d	d	d

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

Districts	Forecast
1 S.E. England, 2 E. England, 3 E. Midlands	Light or moderate south to southwest wind, fair at first; slight rain later; local morning fog; mild.
4 W. Midlands, 5 S.W. England, 6 South Wales, 7 North Wales, 8 N.W. England, 9 N. Midlands, 10 N.E. England, 11 S.E. Scotland, 12 S.W. Scotland & Isle of Man	Light or moderate south wind veering southwest; cloudy at first with occasional rain; mainly fair later; local morning fog; mild.
13A W. Scotland, 13B N.W. Scotland	Moderate or fresh southwest wind backing south and freshening, strong on coasts later; bright intervals and local showers at first; rain later; mild.
14 Mid Scotland, 15 N.E. Scotland	Moderate or fresh south to southwest wind, decreasing temporarily, increasing again tomorrow; bright intervals and local showers at first; rain later; mild.
16 Orkneys and Shetlands ↓	As 14-15
17 N. W. Ireland, 18 N. E. Ireland, 19 S. E. Ireland, 20 S. W. Ireland	Light or moderate southwest wind backing south and freshening tomorrow; fair at first, rain spreading from west tomorrow; mild.

GENERAL INFERENCE

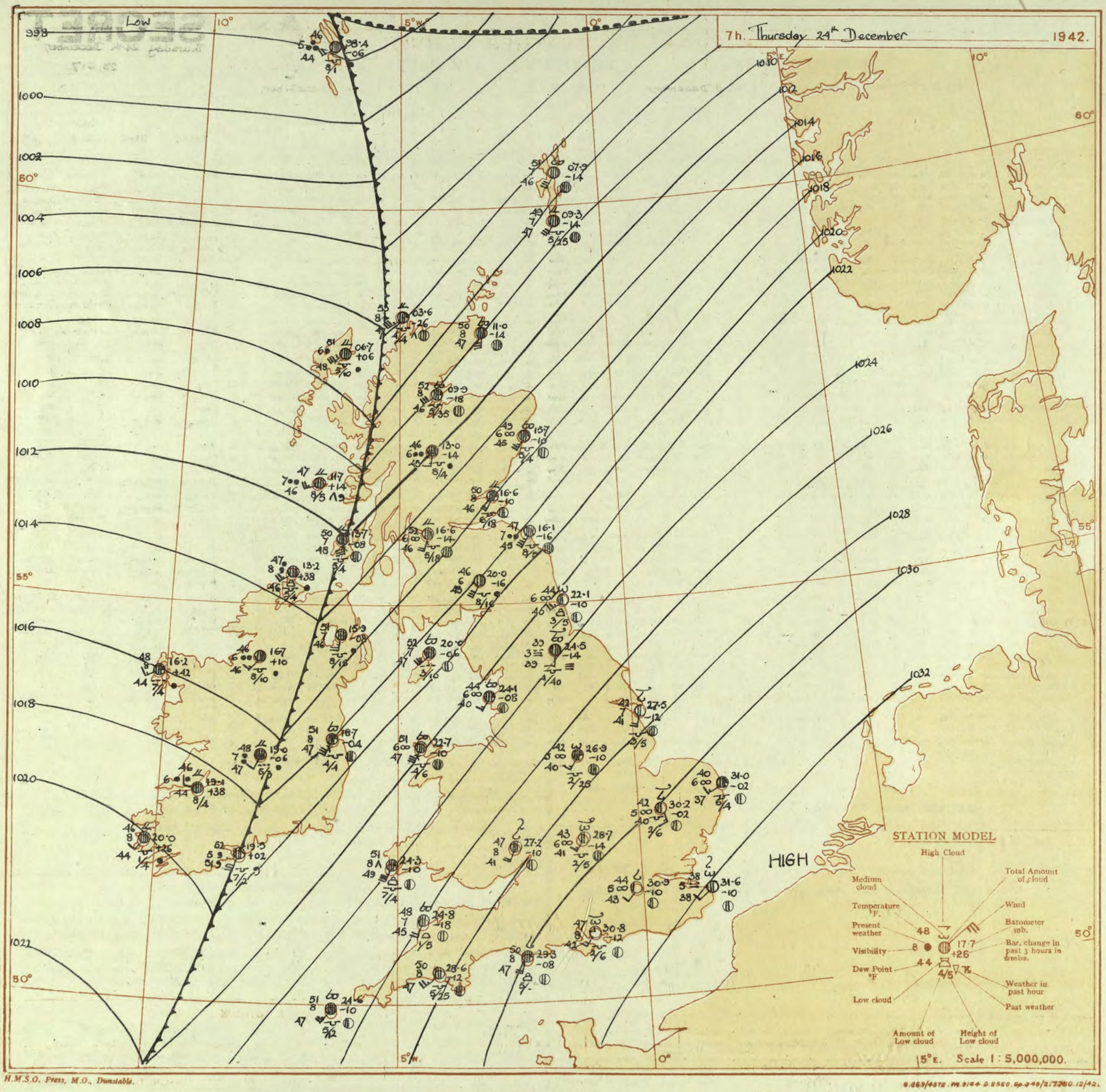
A cold front over western districts of the British Isles is moving east; and a ridge of high pressure is spreading eastwards from the Atlantic. A deep depression south of Greenland is moving northeast and associated fronts will affect the Northwest and West tomorrow; there will be clear intervals and local showers in the North and West at first, followed by rain tomorrow. In the East and South weather will be fair at first but slight rain will occur later.

FURTHER OUTLOOK

Rain in the North and West of the British Isles spreading northeast; fair at first in the South apart from local fog but cloud increasing later; mild.
↓ Gale warning in operation in district 16 Time of issue 07·45 G.M.T 23 Dec 1942.

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).

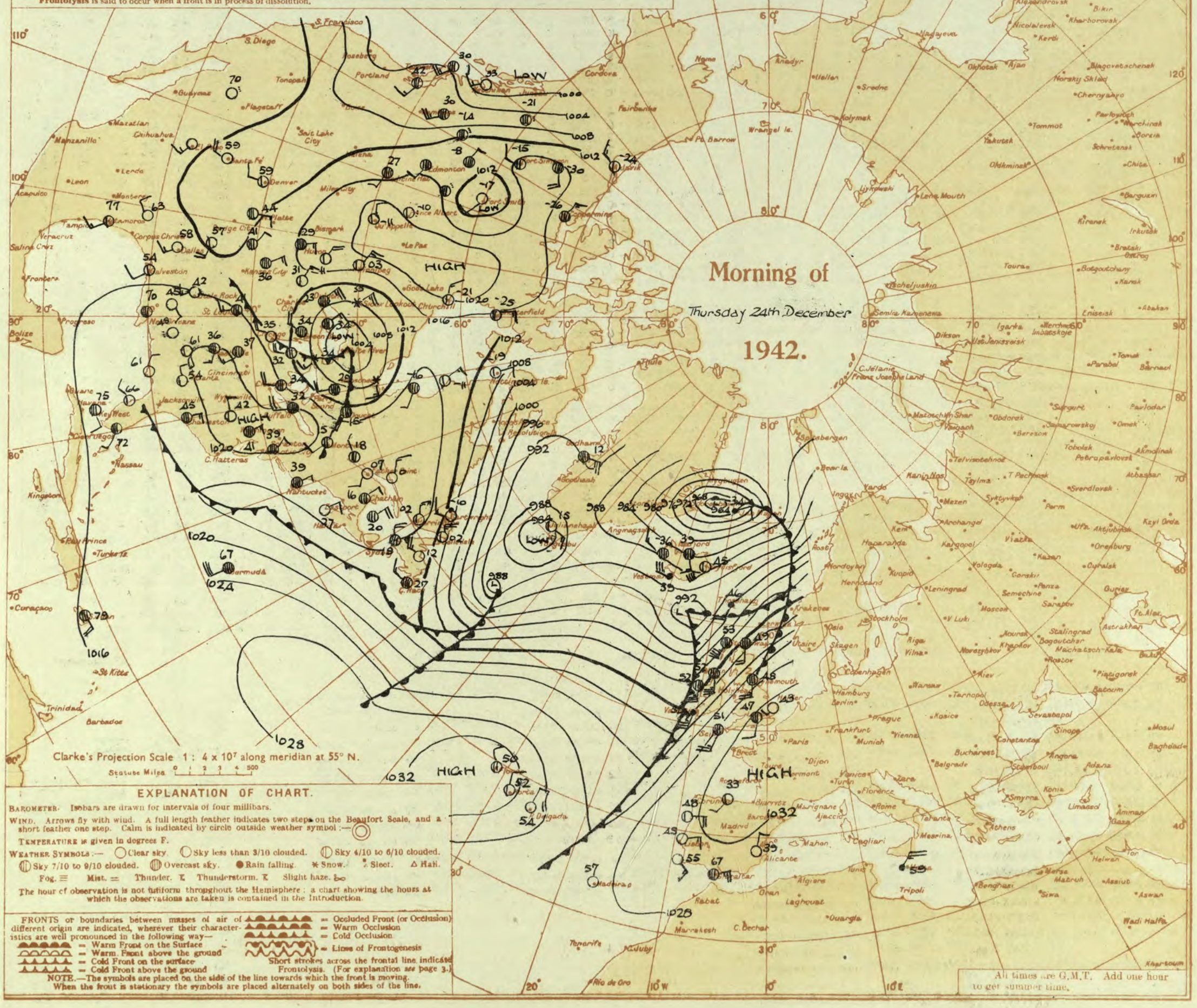
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.



BRITISH SECTION

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

Thursday 24th December 1942

No 29,617.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	42	*	*	*	*	*	*	*	*	*
	Croydon ...	290	32.5	-12	SSW	2	zo	47	97	46	6	5	-	-	7-8	7-8	2000
	S. Farnborough	226	32.0	-10	S'W	2	zo	43	97	42	5	-	-	-	0	0	-
	Boscombe Down	417	31.8	-8	S'E	3	zo	43	97	43	6	5	-	-	2-3	2-3	2200
	Thorney Island	10	32.5	-14	SSW	3	c-bc	48	92	46	7	5	-	-	7-8	7-8	2500
	Lympne ..	283	33.4	-14	W'S	1	b-bc	44	97	43	7	-	-	8	0	2-3	-
	Manston ...	154	33.1	-10	SSW	2	cfg	38	97	38	6	5	-	8	1	10	2000
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	32.4	-14	SW'S	3	zo	45	92	43	6	-	-	-	0	0	-
	Gorleston ...	5	31.5	-14	SW'W	2	zo	43	85	39	6	-	-	-	0	0	-
	Mildenhall ...	15	31.2	-14	S'W	2	m/f	43	92	41	4	-	4	1	0	2-3	-
	Cranwell ...	203	29.9	-8	S'E	3	zo	37	97	37	6	-	4	2	0	7-8	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	30.9	-8	SW'S	3	c	45	92	43	7	5	-	-	9+	9+	1900
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	27.7	-14	SW	4	bc	49	85	45	8	4	4	5	2-3	4-6	2500
	Bristol ...	209	31.0	-8	SW'S	3	c	48	85	43	7	5	4	6	7-8	9	4000
	Portland Bill ...	32	33.3	-12	S	4	c-bc	51	85	47	8	2	-	-	7-8	7-8	4000
	Plymouth ...	82	30.7	-12	SSW	5	c	51	85	47	8	5	-	-	9	9	2500
	The Lizard ...	240	28.8	-10	SSW	6	c	51	85	47	8	8	2	-	7-8	9+	1500
	Scilly (St.Mary's)	163	27.0	-14	SSW	5	c	51	85	47	8	5	-	-	9+	9+	1200
	Guernsey ...	175															
6	Pembroke ...	142	26.8	-14	SSW	6	cq	51	85	47	8	5	-	-	9	9	2500
7	Holyhead (Valley)	32	25.2	-14	S	7	zo	50	85	46	6	-	-	7	0	10	-
	Chester (Sealand)	16	26.8	-12	SE	2	c	49	75	40	8	1	-	8	Tr	9	2500
8	Manchester ...	235	28.2	-10	SSE	4	zo	43	85	39	6	5	7	-	2-3	9+	4000
10	Spurn Head ...	29	29.5	-12	SW'S	3	c	44	85	40	7	7	3	-	4-6	9	2500
	Catterick ...	175	27.2	-10	SSE	2	cf+	42	92	40	3	5	7	-	4-6	9+	2500
	Tynemouth ...	108	25.4	-10	SSW	5	zo	48	75	41	6	5	-	-	7-8	7-8	2500
11	St. Abbs Head	280	19.7	+4	SSW	6	c	49	92	47	7	5	-	-	9+	9+	2500
	Leuchars ...	36	20.1	-6	SSW	1	c	51	85	46	3	5	2	-	4-6	9	2500
12	Renfrew (Abbots I.)	19	19.5	-14	S	4	zo	51	85	46	6	5	7	-	9	10	1600
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	22.2	-16	SW'W	6	c	51	85	45	7	6	-	7	2-3	10	1000
13A	Tiree	44	12.5	-18	S'E	6	c	51	85	48	7	5	-	-	4-6	9+	1500
13B	Stornoway ...	15	08.0	-14	SSW	9	c	53	85	49	7	5	1	-	7-8	10	800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	17.8	-10	S'W	5	c	50	85	47	7	5	7	-	7-8	10	1300
	Wick ...	114	13.6	-14	S	4	c	49	85	45	8	-	7	-	0	10	-
16	Sumburgh ..	19	12.2	-10	SSW	5	c	50	85	46	7	5	7	-	9	10	3000
17	Blacksod Point	18	09.7	-26	S	7	o/d	52	97	51	7	6	-	-	10	10	800
18	Malin Head ...	84	12.5	-12	S	7	zo	52	85	48	8	8	2	-	7-8	10	1500
	Aldergrove ...	268	18.8	-14	SE	4	c	50	85	45	7	5	2	-	9	10	1400
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	16.2	-14	S'W	7	dd	53	97	52	6	5	-	-	10	10	800
	Roches Point	22	21.0	-18	SSW	6	c	51	85	47	7	5	-	-	9+	9+	800

OBSERVATIONS at 7 hr. G.M.T. 24th December

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	30.7	-8	SSW	2	zo	43	92	41	6	5	-	-	2-3	4-6	2500	1	*
Croydon ...	30.9	-10	SSW	2	zo	44	97	43	5	-	4	-	0	2-3	-	1	*
S. Farnborough	30.5	-10	S'W	2	zo	44	97	43	6	5	-	-	9+	9+	800	1	*
Boscombe Down	30.1	-8	S	3	zo	42	97	41	6	5	-	6	1	7-8	2500	1	*
Thorney Island	30.8	-12	SSW	3	b	47	85	42	8	5	3	1	1	1	4000	1	*
Lympne ..	30.20	-10	SW	1	c-bc	44	92	42	7	-	4	8	0	7-8	-	1	§2
Manston ...	31.6	-10	SW'S	2	bfg	38	97	38	5	-	3	-	0	4-6	-	1	*
Shoeburyness ...	31.4	-4	SSW	3	zo	43	92	41	5	5	-	2	Tr	4-6	2500	1	*
Felixstowe ...	31.5	-6	S'W	3	zo	44	97	43	6	-	7	6	0	9	-	1	3
Gorleston ...	31.0	-2	SW'S	2	zo	40	92	37	6	5	-	-	9	9	1500	1	3
Mildenhall ...	30.2	-2	SE'S	3	zo	42	92	40	5	5	4	1	1	4-6	4000	1	*
Cranwell ...	27.9	-10	S	2	zo	38	97	38	6	-	4	2	0	4-6	-	1	*
Birmingham ...	27.2	-8	S	3	c-bc	44	85	40	7	-	-	6	0	7-8	-	1	*
Upper Heyford	28.7	-14	SSW	3	zo	43	92	41	6	5	3	2	1	4-6	2500	1	*
Ross-on-Wye	27.2	-10	SSW	4	c-bc	47	85	41	8	-	4	6	0	7-8	-	1	*
Hartland Point	24.8	-18	S	4	c-bc	48	85	45	7	1	7	-	Tr	7-8	2500	1	4
Bristol ...	29.4	-6	W	2	c	47	85	43	7	5	-	-	9+	9+	2500	1	*
Portland Bill ...	29.3	-8	S	4	c	50	92	47	8	2	4	-	7-8	9	4000	1	4
Plymouth ...	28.6	-12	SW'S	5	c-bc	50	85	47	8	5	-	-	7-8	7-8	2500	1	3
The Lizard ...	26.5	-16	SSW	6	c-bc	51	85	47	8	8	6	-	7-8	7-8	1500	0	5
Scilly (St.Mary's)	24.6	-10	SSW	5	c	51	85	47	8	5	7	-	7-8	10	1200	1	4
Pembroke ...	24.3	-10	SSW	7	cq	51	92	49	8	8	-	-	9+	9+	1500	0	4
Holyhead (Valley)	22.7	-10	SSW	7	zo	51	85	47	6	5	7	-	4-6	10	4000	1	5
Chester (Sealand)	24.3	-6	SSE	3	c	47	75	40	7	5	2	8	7-8	10	4000	1	*
Manchester ...	25.8	-10	SSE	4	zo	43	85	40	6	-	3	2	0	4-6	-	1	*
Spurn Head ...	27.5	-12	S	4	bc	42	92	41	7	5	4	1	2-3	4-6	2500	1	3
Catterick ...	24.5	-14	S	2	cf	39	97	39	3	5	7	1	4-6	10	4000	1	*
Tynemouth ...	22.1	-10	SW	5	zo	44	85	40	6	2	3	-	2-3	4-6	2500	1	3
St. Abbs Head	16.1	-16	SSW	7	ro/ro	47	92	45	7	5	-	-	10	10	2500	0	5
Leuchars ...	16.6	-10	SSW	4	c	50	85	46	8	5	2	-	9	9+	1800	1	*
Renfrew (Abbots I.)	16.6	-14	S'W	4	zo	52	85	46	6	5	2	-	7-8	10	1800	1	*
Eskdalemuir ...	20.0	-16	SSW	6	o	46	85	43	6	5	-	-	10	10	1600	1	*
Point of Ayre...	20.0	-6	SW'S	6	c	52	85	47	7	6	7	-	2-3	10	1000	0	5
Tiree	11.7	+14	SW'W	5	ro/ro	47	92	46	7	-	2	-	10	10	2500	2	6
Stornoway ...	06.7	+6	SW	8	ir	51	92	48	6	5	2	-	7-8	10	1000	1	*
Dalwhinnie ...	13.0	-14	S	3	ro/ro	46	97	45	6	5	-	-	10	10	1500	1	*
Aberdeen † ...	15.7	-10	SSW	5	zo	49	85	45	6	5	7	-	7-8	9+	1500	1	3
Wick ...	11.0	-14	S'E	6	c	50	85	47	8	-	7	-	0	10	-	1	*
Sumburgh ..	09.3	-14	S'W	6	c	49	92	47	7	5	2	-	7-8	10	2500	1	5
Blacksod Point	16.2	+42	WSW	3	c	48	85	44	8	6	-	-	9+	9+	1500	2	3
Malin Head ...	13.2	+38	SW	5	dr	47	97	46	8	8	2	-	7-8	10	1500	2	5
Aldergrove ...	15.9	-8	S	5	o/r	51	85	46	7	5	-	-	10	10	1500	0	*
Birr Castle ...	19.0	-6	SSW	2	ir	48	97	47	7	6	2	-	7-8	10	800	1	*
Valentia Obsy.	20.0	+26	SW'S	2	c/r	46	92	44	8	5	2	-	Tr	10	1500	1	4
Roches Point	19.5	+2	SSW	6	id	52	97	51	5	5	-	-	9+	9+	450	1	5

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (33)	Temperature Min. Night 18h–7h °F (34)	Temperature Min. on Grass °F. (35)	Rainfall Day 7h–18h mm. (36)	Rainfall Night 18h–7h mm. (37)	Sunshine 23rd Hrs. (38)
London (Kew)	48	42	30	Tr	Tr	4.3
Croydon ...	52	44	36	-	-	6.1
S. Farnborough	51	41	32	Tr	-	5.7
Boscombe Down	50	41	35	Tr	0.1	4.0
Thorney Island	52	45	38	Tr	Tr	*
Lympne ..	50	44	33	-	0.1	6.6
Manston ...	50	36	31	-	-	6.2
Shoeburyness ...	50	42	30	-	0.4	5.6
Felixstowe ...	49	41	31	-	-	5.3
Gorleston ...	50	40	36	-	-	6.4
Mildenhall ...	50	39	33	-	Tr	4.8
Cranwell ...	49	35	27	Tr	Tr	5.0
Birmingham ...	48	43	39	Tr	-	5.0
Upper Heyford	49	42	38	-	-	*
Ross-on-Wye	50	46	41	-	-	5.1
Hartland Point	52	48	45	-	-	3.8
Bristol ...	52	47	43	-	Tr	3.7
Portland Bill ...	53	48	*	-	-	*
Plymouth ...	53	49	47	-	-	4.3
The Lizard ...	53	49	*	-	-	3.4
Scilly (St.Mary's)	53	50	*	-	-	2.5
Pembroke ...	52	*	*	-	-	1.3
Holyhead (Valley)	52	49	47	-	-	*
Chester (Sealand)	52	47	*	-	-	2.8
Manchester ...	47	43	36	-	-	*
Spurn Head ...	46	41	*	-	-	4.9
Catterick ...	47	38	35	-	-	0.3
Tynemouth ...	49	44	40	-	-	*
St. Abbs Head	50	45	*	-	-	*
Leuchars ...	51	50	45	-	-	0.1
Renfrew (Abbots I.)	52	51	49	0.3	-	0.5
Eskdalemuir ...	48	45	44	0.6	3	0.0
Point of Ayre...	52	50	*	-	-	0.0
Tiree	52	47	46	1	7	0.0
Stornoway ...	52	49	43	1	0.4	0.0
Dalwhinnie ...	48	45	43	0.3	10	0.0
Aberdeen † ...	49	48	48	-	-	0.0
Wick ...	51	48	41	-	-	*
Sumburgh ..	49	48	43	0.6	Tr	0.0
Blacksod Point	53	46	*	9	8	*
Malin Head ...	53	47		0.3	3	0.0
Aldergrove ...	52	49	47	Tr	Tr	0.0
Birr Castle ...	54	47	47	-	0.2	0.0
Valentia Obsy.	53	45	44	1	9	0.0
Roches Point	53	51	*	0.2	0.6	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

Station	13h. G.M.T. 23rd Dec. III	$C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 24th Dec. $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	57	02763	50626	57	02655	16567	57	02753	49428	57	02755	50528	
115	52	02844	53628	52	62735	53618	52	14844	87787	52	14844	87727	
203				6-	02838	16668				6-	62838	16828	
206	57	01861	54724	57	62865	22368	5-	02866	20566	57	02865	53627	
210	57	02861	18625	02	63890	51568	59	02871	51516	54	02863	16227	
220	62	22735	17768	62	03435	17828				62	64425	20568	
230	5-	05848	14428	5-	22858	15268	5-	02858	18368	62	61756	16468	
245	57	05644	20427	52	05647	18428	52	02746	15338	5-	02848	51418	
260	07	01890	51413	57	05665	20226	57	02764	53525	53	02754	53526	
278	57	02844	49427	52	02836	47428	57	02744	51527	52	02756	49528	
279	53	02747	51627	52	52645	20658	57	05654	49655	57	02755	51726	
285				5-	[illegible]	21458				5-	02747	26327	
288	04	05590	17515	04	05590	50515	07	05590	49527	57	05663	16327	
578	5-	02848	14328	5-	02848	49628	6-	22648	51568	5-	62648	20368	
301	04	05590	16424	09	05590	12324	04	05590	14314	07	05690	18326	
321	00	08490	16114	07	08490	15224	50	08461	17112	04	08390	17225	
299				57	05553	20414	57	05653	20314	57	05653	20404	
292	04	41590	17345	04	08490	12225	04	08490	15328	04	08490	14325	
310				--	0634	22444				--	46209	20549	
814	50	05571	20144	54	05553	20244	54	05551	18125	53	05552	18326	

Station	13h. G.M.T. 23rd Dec. III	$C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 24th Dec. $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	57	02745	18427	57	02744	16528	5-	02748	50528	5-	05644	49528	
334				--	02643	28214				--	02646	20417	
340	50	02755	16315	59	02762	18326	5-	05665	18225	07	05590	16326	
136	04	05690	19312	07	05690	20316	5-	05557	19317	54	41661	17233	
336	13	01754	20415	50	01754	20414				13	02754	16416	
350				54	05656	18327	5-	05657	18327	54	05662	20323	
368				5-	02756	20316	5-	02658	20218	54	02654	16415	
379				53	02744	20326	5-	05647	51327	07	05690	20324	
390	03	43290	19141	50	43363	18343	00	45390	19140	07	47390	18143	
382	54	01731	17214	53	05654	18225	53	02755	18206	53	02754	18225	
438				20	01763	22313	50	01763	22313	87	01753	20314	
430	10	01751	19142	50	05642	20322	5-	05665	18215	51	05544	18114	
409	50	01854	18314	57	02857	18628	54	01851	17514	54	02851	16516	

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

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

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 24th December
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 ...	ffefbm$_0$	bcm$_0$	cbcmgw	
Croydon ...	bmbcm$_0$	bcm$_0$cm$_0$	cm$_0$bcm$_0$	
Greenwich ...	b	bc	bcwm$_0$	Kew 24 hours ended 7h.
Camden Square	o	o	*	Max. Time
Kensington ...	bc2	bc	*	0.8 10-11hrs 24th.
Hampstead ...	bc	bc	bc	Min. Time
				<0.1 0-5hrs 23rd

Stations.	Temperature Day Max °F	Temperature Night Min °F	Temperature Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h %	Humidity 9h % To-day
Kew ...	48	42	30	Tr	Tr	4.3	*	*
Croydon ...	52	44	36	-	-	6.0	*	*
Greenwich ...	52	40	30	-	0.3	5.6	82	92
Westminster ...	52	37	35	0.1		*	83	93
Regent's Park ...	53	38	31	-	-	*	76	92
Camden Square	50	38	31	-	-	*	*	93
Kensington ...	53	48	34	-	Tr	*	88	92
Hampstead ...	50	41	36	-	-	*	*	96

BRITISH SECTION

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

SECRET

Friday 25th December 1942

No. 22618

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (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)	28·5	-8	S'W	3	z_0	47	75	42	6	–	–	6	0	2-3	–
	Croydon ...	30·0	+2	SSW	2	bc	51	75	43	6	1	–	8	Tr	4-6	3000
	S. Farnborough	28·9	-8	SW'S	2	bc	51	66	38	8	–	7	8	0	4-6	–
	Boscombe Down	28·2	-16	S	3	c	48	85	44	7	–	–	8	0	9	–
	Thorney Island	29·1	-6	SSW	3	bc	50	76	40	8	–	–	2	0	4-6	–
	Lympne ...	31·1	-2	SE	3	m/f	39	97	39	4	5	–	–	10	10	200
	Manston ...	30·5	-2	SSW	4	ft	41	97	41	2	5	–	–	10	10	150
2	Shoeburyness ...	29·9	-6	SW	3	z_0	50	75	44	6	9	–	8	2-3	4-6	2500
	Felixstowe ...	29·9	-6	S'E	4	z_0	48	85	45	6	7	–	2	7-8	7-8	800
	Gorleston ...	29·5	0	SSW	4	bc	46	85	42	7	1	7	–	2-3	4-6	2000
	Mildenhall ...	28·4	-2	S	3	z_0	49	85	43	5	–	–	2	0	4-6	–
	Cranwell ...	25·7	-22	WSW	4	c	48	85	43	7	–	–	2	0	9	–
3	Birmingham ...	26·3	-4	SSW	3	z_0	46	85	42	6	5	7	–	2-3	9+	1500
	Upper Heyford	28·0	-12	SW	3	c	48	75	41	7	5	7	6	Tr	9	1500
4	Ross-on-Wye	26·9	-6	SW'W	3	c	48	75	41	7	5	1	7	Tr	9+	2500
5	Hartland Point	25·1	-4	SSW	4	c	51	75	45	7	4	7	–	7-8	9	1200
	Bristol ...	28·1	-8	SSW	4	c	49	75	41	8	1	7	6	Tr	10	2500
	Portland Bill ...	27·5	-16	S	4	c	50	85	46	8	3	–	5	2-3	9	2500
	Plymouth ...	27·4	-12	S	5	c	51	92	49	7	5	7	–	4-6	10	3000
	The Lizard ...	25·8	-14	SSW	3	c	52	85	47	8	8	1	–	9	10	1500
	Scilly (St. Mary's)	24·7	-4	S	4	c	52	85	48	7	5	–	–	10	10	1500
	Guernsey ...															
6	Pembroke ...	24·2	-10	SSW	5	oq	52	92	49	8	5	–	–	10	10	2000
7	Holyhead (Valley)	23·8	+8	SW'W	5	dd	50	97	50	5	5	–	–	10	10	600
	Chester (Sealand)	24·4	-8	ESE	3	c	48	75	41	6	5	7	8	2-3	10	5000
8	Manchester ...	24·6	-14	S'E	5	z_0	46	85	42	6	5	7	–	4-6	10	4000
10	Spurn Head ...	26·1	-14	SW	3	c-bc	47	85	42	7	7	3	2	4-6	7-8	2500
	Catterick ...	24·4	0	SSE	1	z_0	47	85	42	5	5	7	8	7-8	10	2000
	Tynemouth ...	22·9	0	SSW	3	c-bc	48	75	40	6	8	–	–	7-8	7-8	2600
11	St. Abbs Head	17·7	-10	SSW	5	c	50	92	48	7	5	2	–	4-6	9+	2000
	Leuchars ...	17·7	+14	SW	5	c-bc/d	50	85	46	8	5	7	–	4-6	7-8	2500
12	Renfrew (Abbots I.)	19·8	+36	W'S	3	c	48	85	44	8	8	7	1	7-8	9	2500
	Eskdalemuir ...	20·2	+8	SW	6	$r_0 r_0$	47	92	45	6	–	2	–	10	10	800
	Point of Ayre...	22·0	+10	W'N	4	$d_0 d_0$	50	92	48	7	6	7	–	7-8	10	800
13A	Tiree	17·6	+20	SW	3	bc	50	75	42	8	2	–	–	4-6	4-6	2500
13B	Stornoway ...	18·0	+26	SSW	6	b-bc	49	75	38	8	2	3	–	2-3	2-3	2500
15	Dalwhinnie ...	16·2	+26	WSW	3	bc	42	75	35	8	8	3	–	2-3	4-6	2500
	Aberdeen ...	16·6	+14	SW	3	c	52	85	46	7	5	7	–	9	10	1500
	Wick ...	14·4	+38	WSW	5	c-bc	46	85	42	9	5	–	–	7-8	7-8	3000
16	Sumburgh ...	10·7	+18	WSW	6	c	49	92	46	8	5	7	–	4-6	9+	800
17	Blacksod Point	21·6	+18	WSW	3	bc	50	75	43	8	8	–	–	4-6	4-6	2500
18	Malin Head ...	19·6	+22	SW	3	b-bc	49	75	42	8	8	–	–	2-3	2-3	2500
	Aldergrove ...	22·2	+22	WSW	2	bc	47	85	43	9	5	4	3	2-3	4-6	2000
19	Birr Castle ...	23·0	+10	SW	2	c-bc	47	92	45	8	5	–	–	7-8	7-8	2500
20	Valentia Obsy.	24·0	+14	–	0	c	47	92	45	8	1	7	3	Tr	9	2500
	Roches Point	24·1	+12	N'W	2	c/r	47	92	45	8	6	2	–	4-6	9+	1500

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

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	°F. Temp. (21)	% Humid. (22)	°F. Dew Point (23)	Visibility 0–9 (24)	Cloud Form Low (25)	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)	29·3	+10	SW'S	1	z_0	41	92	39	6	5	–	1	2-3	4-6	2500	1	*
	Croydon ...	29·2	+6	SSE	3	m	40	92	38	4	–	4	–	0	1	–	1	*
	S. Farnborough	29·2	+8	SSW	2	z_0	40	92	39	6	5	4	8	2-3	4-6	2000	1	*
	Boscombe Down	28·5	+10	SE'E	3	z_0	43	92	41	6	5	–	–	7-8	7-8	2200	1	*
	Thorney Island	28·9	0	E'S	1	z_0	41	92	39	6	5	–	–	1	1	4000	1	*
	Lympne ...	30·0	-6	SE'E	2	m	40	92	38	4	5	–	–	9+	9+	700	1	§
	Manston ...	29·3	-6	S'W	3	z_0	40	97	40	5	5	–	–	9	9	400	1	*
2	Shoeburyness ...	29·7	-2	SW	2	z_0	40	92	38	6	5	–	–	1	1	1500	1	*
	Felixstowe ...	29·1	-6	SSW	3	z_0	42	85	39	6	–	7	–	0	Tr	–	1	2
	Gorleston ...	28·8	-6	SW'S	3	bc	42	92	40	7	5	–	–	4-6	4-6	1500	0	3
	Mildenhall ...	28·4	+10	S'E	3	z_0	43	92	41	6	–	–	–	0	0	–	1	*
	Cranwell ...	27·2	+10	S'E	3	z_0	40	97	39	6	–	–	2	0	2-3	–	1	*
3	Birmingham ...	26·8	+2	SSE	2	z_0	43	92	41	5	–	1	–	0	7-8	–	1	*
	Upper Heyford	27·6	0	S'E	1	z_0	43	92	41	6	5	–	–	2-3	2-3	2000	0	*
4	Ross-on-Wye	26·1	0	W	3	c	45	85	40	7	5	1	–	2-3	10	2500	1	*
5	Hartland Point	24·4	+2	SE	2	c-bc	48	85	44	7	5	2	–	4-6	7-8	2500	0	4
	Bristol ...	27·4	0	S	2	z_0	46	85	43	6	5	7	–	7-8	9+	3000	1	*
	Portland Bill ...	27·0	+2	SSE	4	0	50	85	46	8	5	–	–	10	10	2500	1	4
	Plymouth ...	26·4	-2	SSW	3	z_0	50	97	49	6	5	7	–	7-8	9+	2000	1	3
	The Lizard ...	24·9	0	SSW	4	0	52	85	48	8	5	–	–	10	10	1000	0	4
	Scilly (St. Mary's)	23·8	-4	S	3	c	52	92	50	7	5	–	–	7-8	10	1500	1	4
	Guernsey ...																	
6	Pembroke ...	24·0	0	S'W	4	c	51	97	51	7	5	–	–	10	10	1500	0	3
7	Holyhead (Valley)	24·5	+?	–	0	o/d	46	97	46	5	5	–	–	10	10	1800	1	2
	Chester (Sealand)	25·3	+14	S'E	1	c	48	85	44	6	5	–	–	10	10	3000	0	*
8	Manchester ...	25·0	+6	SSE	3	z_0	46	85	42	5	5	7	–	4-6	10	1900	1	*
10	Spurn Head ...	27·9	+2	S'W	4	bc	44	92	42	7	7	–	–	4-6	4-6	1500	1	3
	Catterick ...	25·2	+14	–	0	m	49	85	45	4	5	7	–	7-8	10	1300	1	*
	Tynemouth ...	24·0	+10	WSW	2	m	48	85	44	4	5	–	–	7-8	7-8	2500	1	2
11	St. Abbs Head	21·9	+10	SW	3	c	47	75	40	7	5	–	–	9+	9+	2500	0	3
	Leuchars ...	22·3	+22	SW	1	bc	42	92	39	7	–	4	1	0	4-6	–	1	*
12	Renfrew (Abbots I.)	22·8	+14	SW'W	2	z_0	44	85	41	6	5	–	2	2-3	2-3	2000	1	*
	Eskdalemuir ...	24·3	+14	–	0	bc	40	85	37	8	5	–	–	4-6	4-6	2500	1	*
	Point of Ayre...	24·3	+8	NW	3	c	48	85	44	8	4	7	–	Tr	9	2000	0	3
13A	Tiree	20·9	+18	WSW	3	bc	46	75	39	8	2	–	–	4-6	4-6	2500	1	4
13B	Stornoway ...	17·9	+36	SW	4	b-bc	44	92	42	8	3	–	3	2-3	2-3	2200	0	
15	Dalwhinnie ...	20·8	+14	S	2	bc	38	75	32	8	5	–	–	4-6	4-6	2500	1	*
	Aberdeen ...	21·9	+26	WSW	1	z_0	45	75	36	6	–	9	8	0	4-6	–	1	2
	Wick ...	18·6	+12	SW	4	c-bc	43	85	38	9	8	–	–	7-8	7-8	3000	1	*
16	Sumburgh ...	15·3	+26	WSW	7	b-bq/pr	47	85	41	8	2	–	–	2-3	2-3	2000	1	5
17	Blacksod Point	23·3	+10	SW	2	b-bc	47	85	43	8	8	–	–	2-3	2-3	4000	1	2
18	Malin Head ...	21·7	+14	SSW	2	b-bc	44	75	37	8	4	–	–	2-3	2-3	2500	2	3
	Aldergrove ...	24·5	+10	SSW	2	bc	40	92	39	7	–	7	1	0	4-6	–	1	*
19	Birr Castle ...	24·1	+8	SSE	1	c-bc	42	97	41	7	5	–	–	7-8	7-8	2500	1	*
20	Valentia Obsy.	26·5	+12	SSE	0	0	40	97	39	8	5	–	3	1	2-3	4000	1	1
	Roches Point	24·7	+6	ENE	1	ir_0	47	97	46	8	6	2	–	4-6	9	1500	1	4

PAST 24 HOURS.

District	Stations	Weather 7h.–13h. 24th (39)	Weather 13h.–18h. 24th (40)	Weather 18h. 24th – 1h. 25th (41)	Weather 1h.–7h. 25th (42)
1	London (Kew)	bcm$_0$z$_0$w	z$_0$wbcm$_0$x	bcffx	bffx
	Croydon ...	bcm$_0$z$_0$	bcm$_0$bm	bcfbm$_0$fm	bcm$_0$cm$_0$cm$_0$x
	S. Farnborough	bcm$_0$bc	bccm$_0$bcm$_0$	bcm$_0$fcffx	bcm$_0$xfbcfx
	Boscombe Down	c	cm$_0$	cm$_0$ofc	cfm
	Thorney Island	bc	bcbm$_0$	bcmcm$_0$	cm$_0$ccm$_0$
	Lympne ...	cm$_0$of	cm$_0$mcm	cm$_0$w	cm$_0$w
	Manston ...	bcm$_0$afm	afcm$_0$	cm$_0$	cm$_0$cm
2	Shoeburyness ...	bcm$_0$	bm$_0$bcm$_0$		cm$_0$
	Felixstowe ...	bcm$_0$cm$_0$	cm$_0$bm$_0$	bm$_0$cm$_0$	cm$_0$
	Gorleston ...	bcz$_0$bc	cbc	bbcmzw	bcz$_0$cw
	Mildenhall ...	bcm$_0$wcbcm	bcm$_0$cm$_0$bm	bm$_0$bcm$_0$	fofcm
	Cranwell ...	bccm$_0$c	cm$_0$	bm$_0$cm$_0$	cm$_0$wf
3	Birmingham ...	bccz	cbcc	cfz	cm
	Upper Heyford	bcm$_0$cm$_0$c	ccm$_0$bcm$_0$		ofldof
4	Ross-on-Wye	c	c	c	c
5	Hartland Point	cbcc	c	c	c
	Bristol ...	c	ccm$_0$	cm$_0$	cm$_0$
	Portland Bill ...	c	o	c	c
	Plymouth ...	c	cm$_0$	cm$_0$idccm$_0$	cm$_0$
	The Lizard ...	c	c	cproc	cidd
	Scilly (St. Mary's)	c	c	cid	cidc
	Guernsey ...				
6	Pembroke ...	cq	qirc	cid$_0$	cdd
7	Holyhead (Valley)	oddm	crd$_0$d$_0$	cro$_0$rom$_0$	cro$_0$rom$_0$
	Chester (Sealand)	ccm$_0$	cm$_0$	cm$_0$c	bcm$_0$c
8	Manchester ...	bcm$_0$cm$_0$	cm$_0$	cm$_0$m	cmm$_0$
10	Spurn Head ...	c	bc	cm$_0$	cz$_0$m
	Catterick ...	cfcm$_0$	cm$_0$cm	of dodof	of
	Tynemouth ...	c	cm	cm	bmb
11	St. Abbs Head	c	cprc	c	cro
	Leuchars ...	cid$_0$c	c$_0$bc	ccm$_0$w	cm$_0$w
12	Renfrew (Abbots I.)	cpr$_0$qc	dccm$_0$	bcmcfw	cbbcfc
	Eskdalemuir ...	od$_0$r$_0$	cd$_0$r$_0$bc	bcc	cro$_0$c
	Point of Ayre...	cd$_0$d$_0$	d$_0$d$_0$	cdodo$_0$c	ro$_0$cebc
13A	Tiree	or$_0$d$_0$bc	bccpr$_0$bc	prbcprob	bcbbc
13B	Stornoway ...	cpr$_0$bbc	cpr$_0$c	bcb	bbcc
15	Dalwhinnie ...	oirbc	bc		bcb
	Aberdeen ...	cz$_0$c	bcbcz$_0$	bccz$_0$	cz$_0$bcx
	Wick ...	cr$_0$r$_0$cjpc	bbc	bcb	bcb
16	Sumburgh ...	cd$_0$d$_0$	ir$_0$bcpr$_0$	bcpr$_0$bc	bcprob
17	Blacksod Point	bc	bc	bc	r
18	Malin Head ...	r	bc	bc	b
	Aldergrove ...	cr$_0$r$_0$c	cbc	cbc	cxm$_0$b
19	Birr Castle ...	r	c		b
20	Valentia Obsy.	c	bc	b	bc
	Roches Point	m	r	r	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 25th December

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Light south or southwest winds. Fog persisting locally all day, becoming fairly general at night, some bright periods outside foggy areas; rather cold with slight local night frost.
5 S.W. England 6 South Wales 7 North Wales 8 N.W. England	Light variable winds; mainly cloudy with slight local rain; rather cold.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 0-4
12 S.W. Scotland & Isle of Man 13A W. Scotland ... ↓ 13B N.W. Scotland ↓ 14 Mid Scotland 15 N.E. Scotland	Moderate to fresh south or southwest winds, strong to gale temporarily in the Northwest. Occasional rain spreading northeast across area. Mainly rather cold.
16 Orkneys and Shetlands 17 N. W. Ireland 18 N. E. Ireland	As 12-15
19 S. E. Ireland	Light variable winds; mainly fair; rather cold.
20 S. W. Ireland	As 12-18.

GENERAL INFERENCE

A feeble trough of low pressure extending from South Scotland to Southwest England is moving slowly east and dying out. A deep depression near Iceland is moving northeast and an associated trough will move northeast across Ireland and Scotland. There will be occasional rain in the North and West of the British Isles. Elsewhere there will be persistent local fog by day and fog will become extensive at night. It will be rather cold generally.

FURTHER OUTLOOK

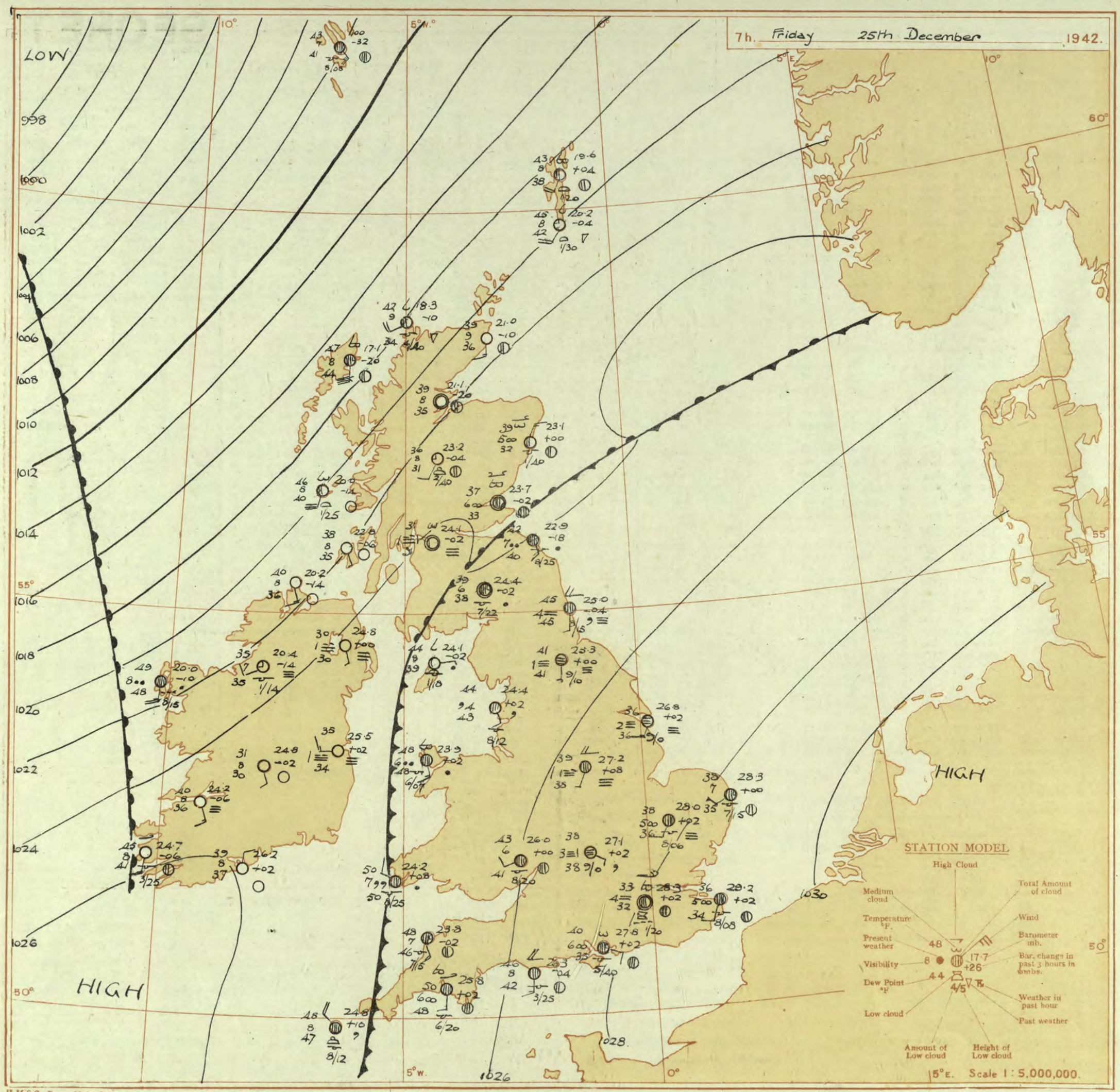
Quiet foggy conditions in the South. Rain at times in the North.

↓ Gale warning issued in districts 13A, 13B at 0820h. on the 25th Dec. 1942.

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. Friday 25th December 1942.



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

6.369/4372. Wt. 8144. D.2560. Gp. 348/2. 7760. 12/42.

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

Explanation of Frontal Lines shown on Charts

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

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

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

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

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

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

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

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

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

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

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

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

BRITISH SECTION

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

Friday 25th December 1942

No. 25618

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	32	*	*	*	*	*	*	*	*	*
	Croydon ...	290	28·7	-4	SSW	1	m	37	97	37	4	5	-	1	4·6	4·6	1400
	S. Farnborough	226	28·3	-10	SE	2	cf-	34	97	34	3	-	-	8	0	9	-
	Boscombe Down	417	28·1	-2	ESE	2	cf	38	97	38	2	-	-	-	10	10	<150
	Thorney Island	10	27·9	-8	E'N	2	Z_0	40	92	39	6	5	-	-	9+	9+	2500
	Lympne ..	283	29·4	-6	S	3	Z_0	37	92	33	5	5	-	-	10	10	500
	Manston ...	154	29·4	-2	SSW	1	Z_0	37	92	35	5	5	-	-	10	10	600
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	29·0	-6	S'W	1	Z_0	41	85	37	5	5	-	-	10	10	1000
	Gorleston ...	5	28·9	0	SW'W	2	Z_0	38	92	36	6	-	7	-	0	2-3	-
	Mildenhall ...	15	28·3	-2	SSE	3	F	36	97	36	1	-	-	-	10	10	<150
	Cranwell ...	203	26·9	-10	SE	1	Z_0	39	97	39	5	-	7	7	0	9+	-
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	27·3	-6	SW	1	cf+	39	97	38	1	-	-	-	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	24·0	-8	SSE	3	c	48	92	46	7	5	6	-	4·6	9	1500
	Bristol ...	209	27·1	-6	S	3	Z_0	44	92	42	6	-	3	6	0	9+	-
	Portland Bill ...	32	27·0	-6	S	4	c	47	92	45	8	5	-	-	4·6	10	2500
	Plymouth ...	82	26·2	-6	S'E	3	Z_0	49	92	47	7	5	7	6	4·6	9+	1200
	The Lizard ...	240	24·3	-8	S	5	c	51	97	50	7	5	2	-	9	10	1500
	Scilly (St. Mary's)	163	23·7	-4	SSE	3	c/d	52	97	52	6	5	2	-	9	10	800
	Guernsey ...	175															
6	Pembroke ...	142	23·8	-2	S'E	5	c	51	92	50	7	5	-	-	10	10	2500
7	Holyhead (Valley)	32	24·8	-6	SE	2	ro	48	97	47	5	-	2	-	10	10	300
	Chester (Sealand)	16	24·9	-6	S	2	bc	47	85	43	7	5	3	-	2-3	4-6	3500
8	Manchester ...	235	25·5	-8	SSE	3	Z_0	46	85	42	5	5	3	-	7-8	10	2000
10	Spurn Head ...	29	26·9	-4	SW	1	Z_0	43	92	41	6	7	-	-	9+	9+	4000
	Catterick ...	175	26·0	-8	-	0	df	43	97	43	1	-	-	-	10	10	<150
	Tynemouth ...	108	25·0	-8	SW	1	m	46	92	43	4	5	-	-	9+	9+	2500
11	St. Abbs Head	280	24·7	0	SW	2	c	44	85	39	7	5	-	-	10	10	2500
	Leuchars ...	36	24·7	+8	-	0	Z_0	40	92	38	6	-	7	7	0	10	-
12	Renfrew (Abbots I.)	19	25·1	0	-	0	cf+	38	97	36	3	-	-	7	0	9+	-
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	25·1	-2	S'E	2	c/d	45	85	40	8	6	2	-	T	10	2000
13A	Tiree	44	22·4	-4	S'W	4	bc	47	85	41	8	2	6	5	4·6	4·6	2800
13B	Stornoway ...	15	21·0	+6	SSW	4	b	43	85	39	8	2	-	-	Tr	Tr	2000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	23·9	+2	-	0	c-bc	40	85	33	9	-	-	6	0	7-8	-
	Wick ...	114	22·9	+16	SW	2	b-bc	39	85	35	9	-	3	-	0	2-3	-
16	Sumburgh ..	19	19·7	+8	WSW	5	b-bc/pr	47	85	43	8	2	6	-	2-3	2-3	2500
17	Blacksod Point	18	22·6	-8	SSW	4	c-bc	49	75	42	8	8	-	-	7-8	7-8	4000
18	Malin Head ...	84	22·9	-2	S	1	b	39	85	35	8	-	-	-	0	0	-
	Aldergrove ...	268	25·3	-2	SSE	1	Z_0	37	97	36	5	-	7	-	0	2-3	-
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	25·9	-2	NE'E	1	b	37	92	35	8	-	3	-	0	Tr	-
	Roches Point	22	25·3	-6	N	2	b	46	92	44	8	5	-	-	1	1	2500

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

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	+2	-	0	bf	32	97	31	1	-	-	-	0	0	-	1	*
Croydon ...	28·3	+2	-	0	m	33	97	32	4	9	7	2	T	7-8	2000	1	*
S. Farnborough	28·4	+10	S	1	bcf-	31	97	31	3	-	4	8	0	4-6	-	1	*
Boscombe Down	27·4	+2	SE'E	3	m	38	97	38	4	5	5	-	2-3	7-8	2500	1	*
Thorney Island	27·8	+2	ESE	2	Z_0	40	85	35	6	5	3	-	7-8	9+	4000	1	*
Lympne ..	29·1	+2	SSE	2	Z_0	36	92	33	5	5	-	-	10	10	600	1	*
Manston ...	29·2	+2	SSW	2	Z_0	36	92	34	5	5	-	-	10	10	800	1	*
Shoeburyness ...	28·7	0	SSW	3	Z_0	37	85	34	5	5	-	-	10	10	1500	1	*
Felixstowe ...	28·6	0	S'W	2	Z_0	39	92	36	6	5	-	-	9+	9+	1400	1	2
Gorleston ...	28·3	0	SW	2	c	38	85	35	7	5	-	-	9+	9+	1500	0	3
Mildenhall ...	28·0	+2	SSW	2	Z_0	38	92	36	5	5	-	-	10	10	600	1	*
Cranwell ...	27·1	+6	SSE	2	F	36	97	36	0	-	-	-	10	10	<150	1	*
Birmingham ...	26·5	0	S	3	m	40	97	39	4	5	1	-	2-3	10	800	1	*
Upper Heyford	27·1	+2	SE'E	1	f-	38	97	38	3	-	-	-	10	10	<150	1	*
Ross-on-Wye	26·0	0	SW'W	2	c	43	92	41	6	5	-	-	10	10	2000	1	*
Hartland Point	23·8	-2	SSE	3	c	48	92	46	7	5	-	-	9+	9+	1500	1	3
Bristol ...	26·9	+6	-	0	Z_0	42	92	40	6	5	1	-	7-8	10	4000	1	*
Portland Bill ...	26·3	-4	S	3	c	46	85	42	8	5	2	-	2-3	10	2500	1	4
Plymouth ...	25·8	+2	S	2	Z_0	50	97	48	6	5	7	1	9	10	2000	1	3
The Lizard ...	24·1	+2	S	3	do do	51	97	51	7	5	-	-	10	10	1000	1	4
Scilly (St. Mary's)	24·8	+10	NW'W	4	c	48	97	47	8	8	-	-	10	10	1200	1	4
Guernsey ...																	
Pembroke ...	24·2	+8	NW	2	do do	50	97	50	7	5	-	-	10	10	2500	1	3
Holyhead (Valley)	23·9	+2	SSE	3	ro ro	48	92	48	6	5	7	-	9	10	700	1	2
Chester (Sealand)	24·4	+2	S	1	Z_0	43	92	42	6	5	-	-	10	10	2500	0	*
Manchester ...	25·4	+2	SSE	3	Z_0	43	92	41	5	5	7	-	2-3	10	4000	1	*
Spurn Head ...	26·8	+2	S'W	3	f	36	97	36	2	-	-	-	10	10	<150	1	3
Catterick ...	25·3	0	S	1	f	41	97	41	1	-	-	-	10	10	<150	1	*
Tynemouth ...	25·0	-4	S	1	m/f	45	97	45	4	-	2	-	10	10	1500	1	2
St. Abbs Head	22·9	-18	SSE	3	ro	42	92	40	7	5	-	-	10	10	2500	1	3
Leuchars ...	23·7	-2	-	0	Z_0	37	85	33	6	-	7	7	0	9	-	1	*
Renfrew (Abbots I.)	24·1	-2	-	0	b-bcf-	31	97	31	1	-	3	-	0	2-3	-	1	*
Eskdalemuir ...	24·4	-2	-	0	c	39	92	38	6	5	-	-	9+	9+	2200	1	*
Point of Ayre ...	24·1	-2	E	1	b-bc	44	85	39	8	4	4	9	Tr	2-3	1800	1	2
Tiree	20·0	-14	S'W	6	bc	46	75	40	8	1	5	-	Tr	4-6	2500	1	5
Stornoway ...	17·1	-20	S	8	c	47	92	44	8	5	7	-	9	9+	2500	1	*
Dalwhinnie ...	23·2	-4	SSW	2	b	36	85	31	8	2	-	-	1	1	4000	3	*
Aberdeen † ...	23·1	0	NNE	3	Z_0	39	75	32	5	5	3	8	Tr	4-6	4000	1	1
Wick ...	21·0	-10	S	3	b	39	92	36	9	-	-	-	0	0	-	1	*
Sumburgh ..	20·2	-4	SSW	4	b	45	85	42	8	1	4	-	Tr	1	3000	1	3
Blacksod Point	20·0	-10	S	5	ro ro	49	97	48	8	6	-	-	10	10	1500	1	4
Malin Head ...	20·2	-14	S'E	3	b	40	85	36	8	-	-	-	0	0	-	2	2
Aldergrove ...	24·8	0	SSE	1	bf	30	97	30	1	-	-	-	0	0	-	3	*
Birr Castle ...	24·8	-2	SSE	1	b	31	97	30	8	-	-	-	0	0	-	1	*
Valentia Obsy.	24·7	-6	S	3	b-bc	45	85	41	8	5	-	1	2-3	2-3	2500	1	3
Roches Point	26·2	+2	N	2	b	39	92	37	8	-	-	-	0	0	-	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 24th Hrs. (38)
London (Kew)	48	28	20	Tr	Tr	5·6
Croydon ...	51	33	26	-	-	6·2
S. Farnborough	51	31	21	Tr	-	5·6
Boscombe Down	49	36	33	Tr	0·2	3·0
Thorney Island	51	35	28	Tr	-	*
Lympne ..	50	36	35	-	-	0·1
Manston ...	45	36	35	Tr	-	1·5
Shoeburyness ...	50	37	26	-	-	4·3
Felixstowe ...	49	39	34	-	-	4·2
Gorleston ...	48	36	34	-	-	4·6
Mildenhall ...	50	33	29	Tr	Tr	3·7
Cranwell ...	48	35	32	-	0·1	
Birmingham ...	47	38	36	-	-	0·3
Upper Heyford	49	38	33	-	Tr	*
Ross-on-Wye	49	42	37	-	-	0·0
Hartland Point	51	46	44	-	-	0·0
Bristol ...	51	42	*	-	-	1·5
Portland Bill ...	51	43	*	-	-	*
Plymouth ...	51	48	46	-	Tr	0·0
The Lizard ...	52	50	*	-	0·5	0·0
Scilly (St. Mary's)	53	48	27	-	0·4	0·0
Guernsey ...						
Pembroke ...	52	*	*	Tr	5	0·0
Holyhead (Valley)	51	45	45	9	16	*
Chester (Sealand)	52	40	21	-	-	3·4
Manchester ...	47	43	39	-	-	*
Spurn Head ...	48	35	*	-	-	3·1
Catterick ...	49	41	40	-	0·1	0·0
Tynemouth ...	51	45	42	-	0·1	*
St. Abbs Head	50	41	*	Tr	Tr	*
Leuchars ...	52	37	31	Tr	-	0·0
Renfrew (Abbots I.)	52	30	22	0·3	-	1·1
Eskdalemuir ...	47	35	31	4	0·6	0·0
Point of Ayre ...	52	44	*	0·2	1	0·0
Tiree	50	43	38	1	Tr	3·1
Stornoway ...	50	42	37	1	-	2·0
Dalwhinnie ...	47	35	26	3	-	1·7
Aberdeen † ...	52	35	30	-	-	0·0
Wick ...	51	38	33	Tr	-	*
Sumburgh ..	50	45	32	0·4	Tr	0·0
Blacksod Point	51	45	*	1	Tr	*
Malin Head ...	53	38	*	0·6	-	3·8
Aldergrove ...	51	27	21	1	-	1·6
Birr Castle ...	48	29	25	1	-	0·1
Valentia Obsy.	49	35	30	Tr	Tr	2·1
Roches Point	52	39	*	3	0·2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 24th Dec. ..... 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
109	67	22844	22657	·		
115	87	02844	53187			
203	8-	10846	20786			
206	53	01863	22364	40	01962	22312
210	52	25564	22386	46	01862	16313
220	80	01854	20684	80	86411	21481
230	2-	02955	20388	8-	25856	20386
245	57	22844	52467	57	02951	22225
260	5-	22548	20468			
278	87	61848	24367	07	01790	00024
279	62	52636	54458	07	02790	22254
285	5-	53528	22558			
288	07	05690	19228	52	05645	17428
575	50	01861	22111	54	01852	22102
301	52	05535	14428	5-	57348	00058
321	04	05690	20127	07	08490	16327
299				5-	05654	20214
292	07	08490	15227	57	08454	14428
310	--	02626	20426			
614	07	05690	20727	04	08490	14125

01h. G.M.T. 25th Dec. ..... 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
04	01790	20303	00	00690	18300	
57	81841	20487	54	01964	20484	
54	00862	24183	00	00890	00010	
00	01890	18315	00	01890	15211	
00	05690	20228	54	05562	32114	
07	05690	14128	54	17561	14221	
52	62573	30168	52	58654	02167	
5-	52418	23158	--	44209	19259	
50	47190	00040	50	01741	20241	
5-	54418	14258	5-	51448	14258	
07	45390	17248	5-	45338	14248	
00	47390	20128				

13h. G.M.T. 24th Dec. ..... 18h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
333	52	54524	17458	5-	52538	26258
334	--	02648	26447			
340	52	02661	15328	09	02690	14328
136	00	05690	20415	00	05690	18311
336				57	02754	24428
350	17	02753	20326	00	05690	16113
368	50	02754	16127	54	02653	14125
379	07	02790	22426	02	05690	18326
390	00	05490	16113	00	47390	22200
382	07	01890	22225	00	05590	14114
438	8-	02756	20326	80	06414	14314
430	00	01790	18214	5-	04545	06125
409	52	02854	17527	5-	61758	14323

01h. G.M.T. 25th Dec. ..... 07h. G.M.T.

III	$C_L C_M$	wwVhN$_h$	DDFWN	$C_L C_M$	wwVhN$_h$	DDFWN
5-	52438	17268	02	52438	17268	
5-	08454	16227	5-	08438	14228	
--	57109	15359				
5-	48109	10145				
03	05690	09116	57	05554	10227	
--	48109	16249	--	48009	18249	
5-	45348	14348	5-	45348	14348	
--	46209	00049	--	48209	12149	
52	02237	16228	5-	02637	16227	
5-	05567	04127	5-	05658	08128	
53	02744	15426	5-	52628	14558	

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

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

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

LONDON OBSERVATIONS

For the 24 hours ending morning of 25th December,
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$_0$z$_0$w	z$_0$wbcm$_0$x	bcfFx	Kew 24 hours ended 7h. Max. Time
Croydon ...	bcm$_0$z$_0$	bcm$_0$bm	bcfcm x	
Greenwich ...	bm$_0$	bm$_0$	bcbcfmx	
Camden Square	b	b	*	
Kensington ...	bc	bc	*	
Hampstead ...	bc	bcm	bcm	Min. Time

Stations.	Temperature Day Max °F	Temperature Night Min °F	Temperature Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h %	Humidity 9h % Today
Kew	48	28	20	Tr	Tr	5·6	*	*
Croydon ...	51	33	26	-	-	6·2	*	*
Greenwich ...	51	32	25	-	0·3	6·3	78	89
Westminster ..	51	35	29	-	-	*	70	93
Regents Park ...								
Camden Square	49	32	26	-	*	*	*	96
Kensington ...	51	32	22	-	-	*	61	92
Hampstead ...	49	34	27	-	-	-	*	94

SECRET

Saturday 26th December 1942

Page 1

BRITISH SECTION

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

No. 29619.

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Dew Point. °F. (8)	Visibility 0–9 (9)	Cloud. Form. Low. (10)	Form. Med. (11)	Form. High (12)	Amount. Low 0–10 (13)	Amount. Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	28·0	+2	SW's	1	m	40	85	38	4	5	–	–	10	10	1500
	Croydon ...	28·5	-2	S'W	1	z_0	40	85	35	5	5	–	–	10	10	2500
	S. Farnborough	28·1	-8	SE	1	c/f	39	85	36	6	7	–	–	9+	9+	3500
	Boscombe Down	27·5	-4	SSE	2	z_0	43	85	38	6	5	4	8	Tr	7-8	4000
	Thorney Island	27·8	-4	–	0	c	43	78	36	7	5	–	–	10	10	2500
	Lympne ...	28·8	-6	–	0	z_0	38	85	34	6	5	–	–	10	10	800
	Manston ...	28·6	-6	SW	1	z_0	36	85	33	6	5	–	–	9+	9+	1000
2	Shoeburyness ...	28·5	-6	SSW	2	z_0	38	85	34	6	5	–	–	10	10	800
	Felixstowe ...	27·4	-14	SSW	1	z_0	37	75	31	6	5	–	–	10	10	1600
	Gorleston ...	28·3	-4	WSW	2	z_0	38	85	33	6	5	–	–	10	10	1700
	Mildenhall ...	28·1	-2	SSW	2	z_0	39	85	34	6	5	–	–	10	10	1400
	Cranwell ...	26·9	-2	SSE	2	z_0	40	97	40	6	5	–	–	10	10	300
3	Birmingham ...	26·7	-2	SSW	2	z_0	43	85	39	6	–	7	6	0	9	–
	Upper Heyford	27·5	-2	S	2	z_0	41	85	37	5	1	–	6	4-6	9	1100
4	Ross-on-Wye	26·4	-6	S	2	z_0	45	85	40	6	5	–	–	10	10	2000
5	Hartland Point	25·0	+4	SSE	3	c	49	92	47	7	5	2	–	7-8	10	1500
	Bristol ...	27·2	-4	ESE	1	z_0	47	85	43	6	5	7	–	4-6	9	4000
	Portland Bill ...	26·8	+12	E	3	c	45	85	40	8	5	–	–	10	10	4000
	Plymouth ...	26·3	0	S	2	c/d	49	97	49	6	5	2	–	7-8	10	600
	The Lizard ...	24·9	0	NNW	3	c	49	97	49	8	8	2	–	7-8	9+	1500
	Scilly (St. Mary's)	26·9	+6	NNW	3	c	49	75	42	8	8	6	–	7-8	9+	1200
	Guernsey ...															
6	Pembroke ...	26·3	+4	N	2	c-bc	48	92	46	8	8	–	–	7-8	7-8	2500
7	Holyhead (Valley)	26·0	+4	–	0	c-bc	48	92	46	8	5	–	5	4-6	7-8	3000
	Chester (Sealand)	25·1	-2	S	1	c	47	92	45	6	5	–	–	10	10	3500
8	Manchester ...	25·4	-4	S	3	id_0	45	92	44	4	5	–	–	10	10	800
10	Spurn Head ...	27·4	+2	SW'W	1	F	38	97	36	1	–	–	–	10	10	<150
	Catterick ...	25·5	-4	S	1	F	40	97	40	1	–	–	–	10	10	<150
	Tynemouth ...	25·1	-4	WSW	2	cf	47	92	44	3	5	3	–	4-6	7-8	2400
11	St. Abbs Head	23·5	-4	WSW	3	c-bc	43	75	36	7	4	4	–	4-6	7-8	3000
	Leuchars ...	23·1	-6	WSW	1	m/f	37	97	37	4	5	–	8	Tr	2-3	<150
12	Renfrew (Abbots I.)	23·2	-10	SSW	2	z_0	43	85	39	5	5	7	9	2-3	4-6	2500
	Eskdalemuir ...	24·8	-2	–	0	b-bc	37	97	36	8	–	–	6	0	2-3	–
	Point of Ayre ...	24·8	+2	SW'W	2	b	.50	75	43	8	1	–	8	Tr	1	2000
13A	Tiree	18·8	-2	SSW	5	c	48	75	46	7	8	–	–	9+	9+	2000
13B	Stornoway ...	14·8	-8	SSW	8	rr	46	97	45	6	5	–	–	10	10	800
15	Dalwhinnie ...	22·0	-6	S	3	c-bc	38	75	30	7	8	3	–	2-3	7-8	2500
	Aberdeen ...	21·2	-20	SSW	3	z_0	42	85	36	6	–	4	8	0	1	–
	Wick ...	18·3	-14	SSW	5	c-bc	44	65	34	9	8	7	2	4-6	7-8	3000
16	Sumburgh ...	18·0	-16	SSW	5	b-bc	46	75	39	8	7	–	–	2-3	2-3	2500
17	Blacksod Point	21·0	+10	WSW	3	bc	51	85	47	8	8	–	6	2-3	4-6	2500
18	Malin Head ...	19·8	-2	S'W	4	c-bc	44	85	40	8	5	–	–	7-8	7-8	2500
	Aldergrove ...	23·4	-14	SW's	1	bc	43	75	36	7	5	4	–	1	4-6	5700
19	Birr Castle ...	24·1	-10	SSE	1	c-bc	43	85	39	8	5	3	–	4-6	7-8	2500
20	Valentia Obsy.	24·0	-10	S'W	4	d_0d_0	51	97	50	6	5	–	–	10	10	800
	Roches Point	26·0	-8	S	1	bc	48	85	44	8	5	–	5	1	4-6	2500

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

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)	28·6	+6	SSE	2	m	37	92	34	4	5	–	–	10	10	1500	1	*
	Croydon ...	28·9	+8	S'E	1	m	37	85	34	4	5	–	–	10	10	1200	1	*
	S. Farnborough	28·7	+4	–	0	cf	37	92	34	3	5	2	–	9	9+	1500	1	*
	Boscombe Down	28·1	+6	SE	2	z_0	35	92	33	6	5	–	–	7-8	7-8	2300	0	*
	Thorney Island	28·2	+4	–	0	z_0	40	85	35	6	5	–	–	10	10	1700	1	*
	Lympne ...	28·9	+4	–	0	z_0	36	92	33	6	5	–	–	10	10	1000	1	§
	Manston ...	28·8	+2	–	0	z_0	36	85	33	5	5	–	–	9	9	1500	1	*
2	Shoeburyness ...	29·0	+6	–	0	z_0	37	85	33	5	5	–	–	10	10	800	1	*
	Felixstowe ...	28·9	+6	SSE	1	z_0	38	92	36	6	5	–	–	10	10	1300	1	1
	Gorleston ...	28·6	0	S	2	z_0	36	92	34	6	5	–	–	10	10	1500	0	2
	Mildenhall ...	28·4	+6	SE'S	2	m	33	92	31	4	–	–	–	0	0	–	1	*
	Cranwell ...	27·1	+2	S'E	1	f+	39	97	39	2	–	–	–	10	10	<150	1	*
3	Birmingham ...	26·9	+2	SSW	2	z_0	43	92	41	6	5	7	–	7-8	10	2500	1	*
	Upper Heyford	27·4	0	SSE	1	m	37	97	36	4	5	7	–	Tr	1	300	1	*
4	Ross-on-Wye	26·8	+4	SW	1	z_0	45	85	42	5	5	–	–	10	10	800	1	*
5	Hartland Point	25·9	+10	SE	3	c	48	97	47	7	5	–	–	9+	9+	1500	1	3
	Bristol ...	27·7	+4	SSE	1	z_0	42	92	41	5	5	–	–	10	10	3100	1	*
	Portland Bill ...	27·6	+2	E	2	c-bc	43	85	38	8	5	–	–	7-8	7-8	4000	1	4
	Plymouth ...	27·3	+10	–	0	d_0d_0	47	97	47	5	5	2	–	7-8	10	800	1	1
	The Lizard ...	27·7	+10	N	3	c	45	92	44	8	8	2	–	7-8	9+	1500	1	3
	Scilly (St. Mary's)	27·7	+10	NNW	2	b-bc	48	85	44	8	5	–	–	2-3	2-3	1200	1	3
	Guernsey ...																	
6	Pembroke ...	27·1	+2	NNW	1	c-bc	46	85	43	8	8	–	–	7-8	7-8	2500	1	3
7	Holyhead (Valley)	26·4	+2	S'W	3	c	46	85	42	8	2	4	5	Tr	10	2500	1	2
	Chester (Sealand)	26·4	+10	–	0	c	41	92	39	5	5	7	–	4-6	9	1100	1	*
8	Manchester ...	26·4	+10	S'E	3	cf+	44	92	42	3	5	–	–	10	10	800	1	*
10	Spurn Head ...	27·3	0	S	3	f	40	97	40	3	–	–	–	10	10	<150	1	2
	Catterick ...	26·5	+4	S	1	f–	42	97	42	2	–	–	–	10	10	<150	1	*
	Tynemouth ...	24·8	+6	SW	2	bcf	43	97	42	3	2	–	–	4-6	4-6	2500	1	2
11	St. Abbs Head	22·2	0	SW	4	b-bc	40	92	38	7	4	–	–	2-3	2-3	4000	0	3
	Leuchars ...	22·8	+2	NW	1	z_0	39	85	34	5	–	4	5	0	2-3	–	1	*
12	Renfrew (Abbots I.)	22·8	+4	SSW	3	d_0d_0	44	92	41	5	5	2	–	9	10	1200	1	*
	Eskdalemuir ...	24·8	+6	S'E	2	m	38	97	37	4	5	–	–	10	10	100	1	*
	Point of Ayre ...	25·0	+4	SW	3	c-bc	40	92	38	8	5	7	–	4-6	7-8	4000	1	2
13A	Tiree	20·6	+10	WSW	3	c-bc/r	43	85	39	7	7	7	2	2-3	7-8	1500	1	3
13B	Stornoway ...	18·7	+26	WSW	3	b	40	85	36	8	8	–	–	1	1	2200	1	
15	Dalwhinnie ...		+2	S	3	ir_0	39	92	36	7	5	–	–	10	10	1500	1	*
	Aberdeen ...	21·3	+4	WSW	2	z_0	42	75	33	6	5	4	–	1	1	5700	1	2
	Wick ...	19·2	+10	SSW	4	b-bc	43	85	38	9	5	–	–	2-3	2-3	3000	1	*
16	Sumburgh ...	17·1	-4	SW's	6	c/r	44	85	41	7	5	2	–	7-8	10	2000	1	4
17	Blacksod Point	21·2	-2	S	2	c	49	92	47	7	5	–	–	10	10	2500	1	2
18	Malin Head ...	21·2	+12	S	2	r	44	92	42	8	5	2	–	4-6	9	1500	2	3
	Aldergrove ...	24·4	+8	S	2	c	43	92	40	7	5	–	–	10	10	1600	1	*
19	Birr Castle ...	24·1	+2	SSE	2	c	45	92	43	8	5	1	–	7-8	10	2500	1	*
20	Valentia Obsy.	23·8	+2	SSW	4	dr	52	97	51	5	5	–	–	10	10	450	1	3
	Roches Point	25·5	0	SW'W	3	id_0	50	97	49	7	5	–	–	10	10	800	1	4

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 25th (39)	13h.—18h. 25th (40)	18h. 25th to 1h. 26th (41)	1h.–7h. 26th (42)
1	London (Kew)	cFefm	cfcm	cm	cmcm$_0$
	Croydon ...	cm$_0$	cm$_0$mcm$_0$	cm	cm
	S. Farnborough	bcffcm$_0$	cm$_0$bcef	efcm$_0$cm	cm fid$_0$f
	Boscombe Down	cm$_0$	cbccm$_0$	bcm$_0$cm$_0$	cmm$_0$cmc
	Thorney Island	cm$_0$c	ccm$_0$	cbccm$_0$	cm$_0$bcm$_0$cm$_0$
	Lympne ...	cm$_0$	cm$_0$	cm$_0$	cm$_0$
	Manston ...	cm$_0$	cm$_0$	cm$_0$	cm$_0$
2	Shoeburyness ...	cm$_0$cm$_0$	cm$_0$cm$_0$	cm$_0$	cm$_0$
	Felixstowe ...	cm$_0$	cm$_0$	cm$_0$	cm$_0$
	Gorleston ...	cz$_0$	cz$_0$	cz$_0$	cz$_0$
	Mildenhall ...	cmcm$_0$	cm$_0$bm$_0$m	cmbcmcf	efcfid$_0$
	Cranwell ...	cfcm$_0$	cm$_0$f	pfcfcid$_0$	fcid$_0$fr
3	Birmingham ...	cm	cz	cbc	bcfe
	Upper Heyford	cfbcmfcm$_0$	bcm$_0$bm	cmcid$_0$m	cid$_0$d$_0$d$_0$cf
4	Ross-on-Wye	c	cad$_0$m$_0$	cm$_0$	cm
5	Hartland Point	cid$_0$c	cid$_0$	c	cid$_0$
	Bristol ...	cm$_0$	cm$_0$	cm$_0$mid$_0$m	cm$_0$cm
	Portland Bill ...	c	c	c	c
	Plymouth ...	cd$_0$d$_0$m$_0$	cd$_0$d$_0$m$_0$	d$_0$d$_0$id$_0$	cid$_0$m$_0$
	The Lizard ...	oidoc	cbcc	c	cido
	Scilly (St. Mary's)	c	cbc	bcw	bc
	Guernsey ...				
6	Pembroke ...	idc	c	cbccf	fffc
7	Holyhead (Valley)	or$_0$r$_0$m$_0$bc	bc	bccw	cwc
	Chester (Sealand)	cm$_0$	cd$_0$m$_0$	cm$_0$ffb	ffffxb
8	Manchester ...	cm$_0$r$_0$m	cid$_0$m	cffbcm	bccm$_0$w
10	Spurn Head ...	Ff	f	om	om
	Catterick ...	oF	of	oFbfc	F
	Tynemouth ...	oid$_0$ff	cff	cFF	cFFbcm
11	St. Abbs Head	cir$_0$c	cbcb	cc	cbc
	Leuchars ...	cm$_0$wFm	bcm$_0$bm	bcm$_0$bm$_0$	bcwcm$_0$w
12	Renfrew (Abbots I.)	bcfefbcm$_0$	bcm$_0$d$_0$d$_0$	cm$_0$f	cm id$_0$
	Eskdalemuir ...	cbcbv	bbccom	id$_0$f	id$_0$d$_0$m
	Point of Ayre ...	b	bbcc	c	cbcc
13A	Tiree	cr$_0$orrc	cprir$_0$	cbccr$_0$r$_0$	c++m$_0$c
13B	Stornoway ...	ccr$_0$r$_0$m$_0$	crrm$_0$bc	bcc	cir$_0$r$_0$m$_0$
15	Dalwhinnie ...	b, c	cir$_0$o	*	oir
	Aberdeen ...	bcxzfbz$_0$	bbcbz$_0$	bbcz$_0$w	bcwz$_0$
	Wick ...	bbcc	cbc	bcc	cir$_0$
16	Sumburgh ...	bcbbc	cir$_0$r$_0$r$_0$c	cbc.Φ	bcc
17	Blacksod Point	bc	c	r	d
18	Malin Head ...	r	r	r	r
	Aldergrove ...	bxfmbc	c	cid$_0$c	cid$_0$c
19	Birr Castle ...	c	c	*	d
20	Valentia Obsy.	r	r	r	r
	Roches Point	bc	d	d	d

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 26th December 1942.

Districts	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Light variable winds; some fair periods this afternoon but fog persisting locally all day and becoming fairly general tonight; rather cold.
5 S.W. England 6 South Wales	Light variable winds; a few bright periods but local rain or drizzle; rather cold.
7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Light south or southwest winds; local fog day and night in industrial area. Mainly fair at first, becoming cloudy with slight rain or drizzle later; rather cold.
16 Orkneys and Shetlands 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 7-15.

GENERAL INFERENCE

Pressure is high from the Azores to Central Russia; a deepening depression to the west of Scotland is moving northnortheast, and an associated trough of low pressure will move east across Scotland and Eire tonight. Weather will be cloudy at first in Scotland and Eire with local drizzle or rain in western districts; a narrow belt of rain will move east across these countries this evening and tonight, followed by variable cloud and a few showers; weather will be mainly dull in England and Wales with rather general low cloud, fog and mist. Improvements in visibility during daylight today will only be local and not very great; drizzle will occur locally in western districts; mild in Scotland and Eire; rather cold in England and Wales.

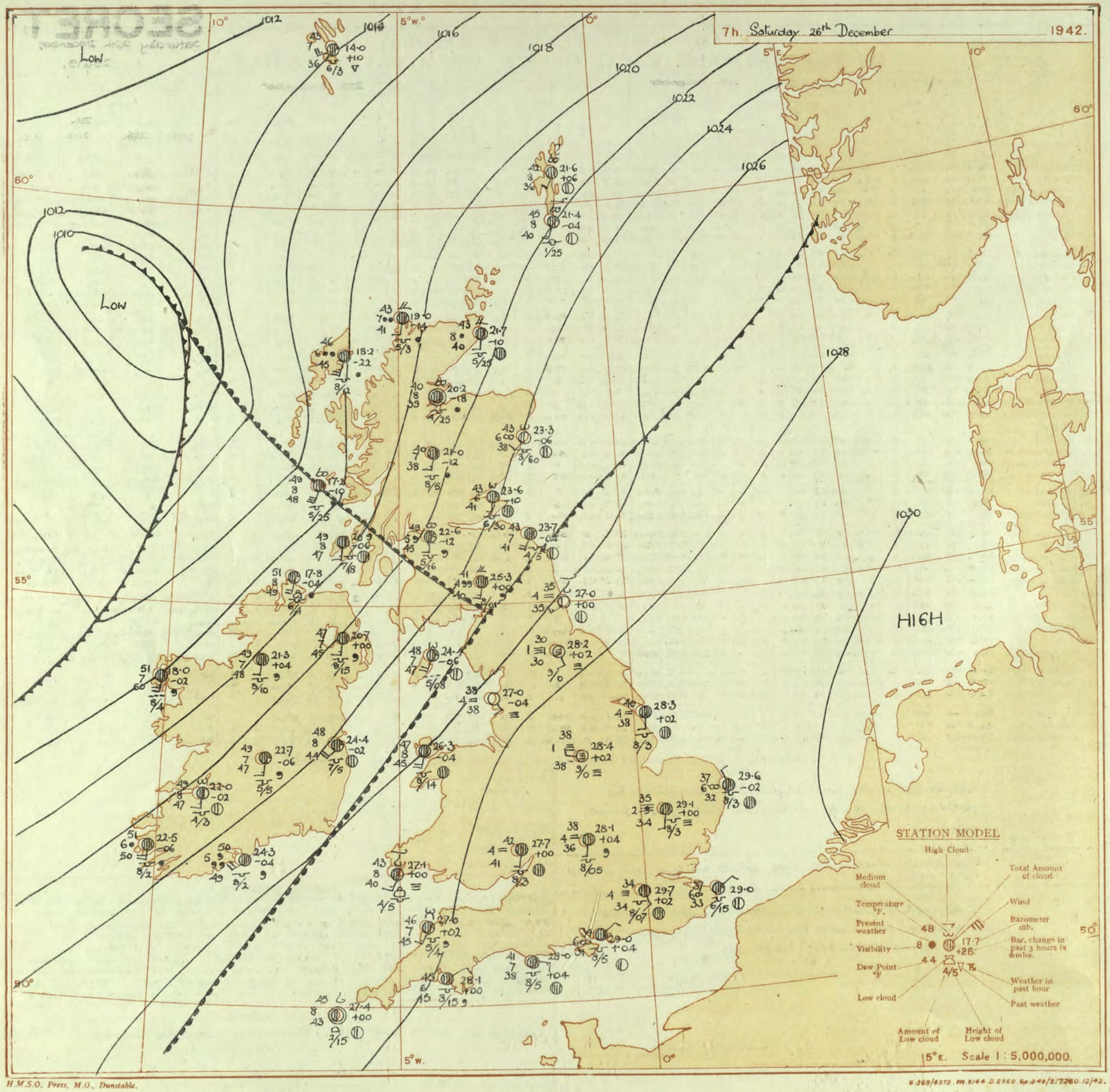
FURTHER OUTLOOK

Extensive fog over a large part of British Isles; mainly fair in 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.

6.369/4372. M.8144. D.2560. 6.340/2.7760. 12/42.

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).

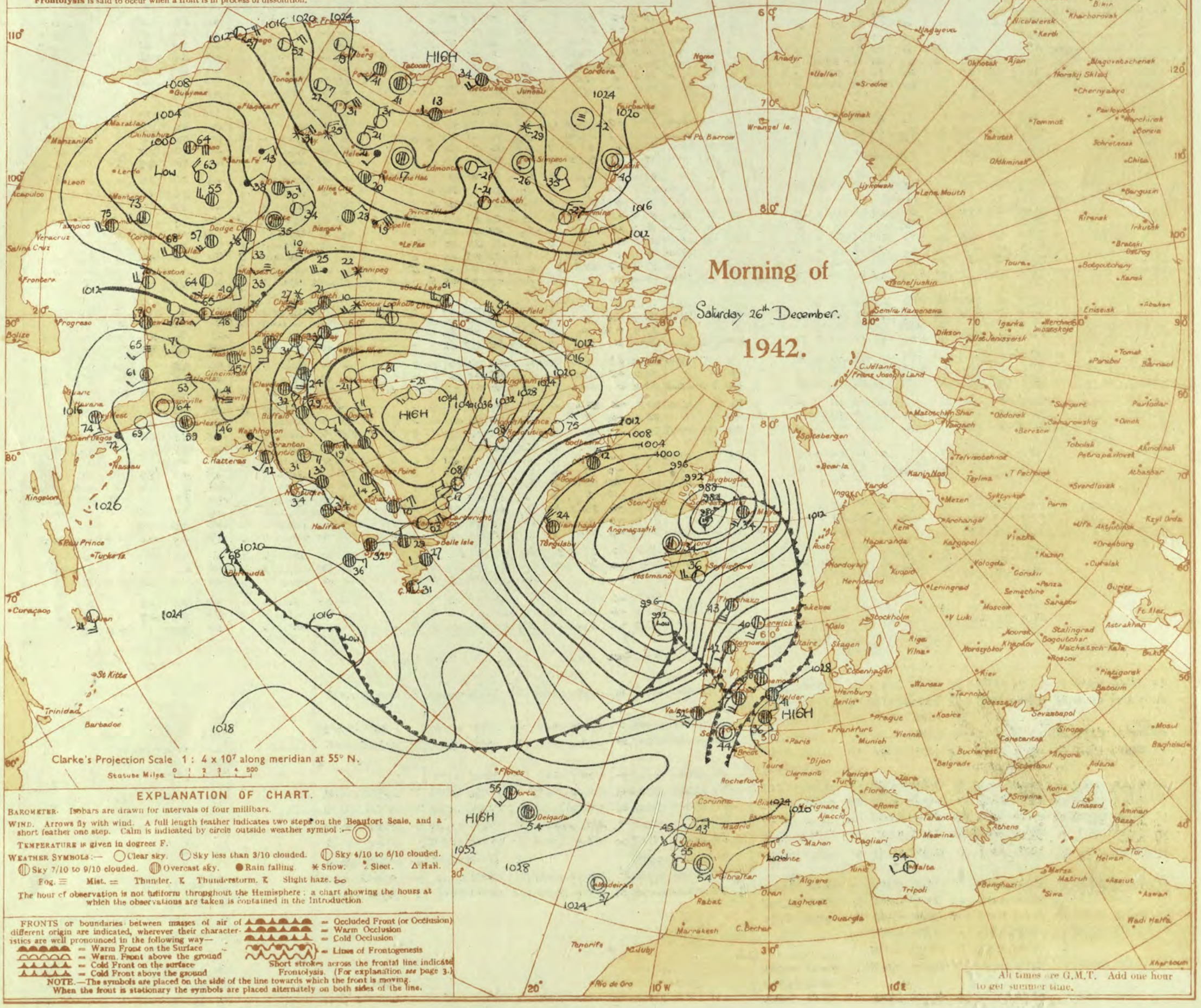
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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 26th December 1942

No. 28619

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

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	29.6	-2	SSE	1	m	35	92	32	4	5	-	-	10	10	1000
	S. Farnborough	226	29.1	-2	SE	1	m	37	97	35	4	5	-	-	10	10	500
	Boscombe Down	417	29.0	-4	E'N	2	m	37	97	36	4	5	-	-	10	10	900
	Thorney Island	10	28.6	+4	NE	2	Z_0	36	92	33	6	5	-	-	9+	9+	2500
	Lympne ...	283	29.4	-2	E	1	Z_0	34	92	32	5	5	-	-	10	10	800
	Manston ...	154	28.9	-6	-	0	Z_0	36	85	33	6	5	-	-	9+	9+	600
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	29.5	0	WSW	1	Z_0	37	85	33	5	5	-	-	10	10	1200
	Gorleston ...	5	29.4	+4	WSW	2	Z_0	35	85	30	6	5	-	-	10	10	800
	Mildenhall ...	15	28.9	-2	SE'E	1	cf+	32	97	31	3	5	-	-	9+	9+	2500
	Cranwell ...	203	28.0	-2	SE'S	1	df	40	97	40	3	5	-	-	10	10	600
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	27.8	-4	SSW	1	id_0	38	97	37	4	5	-	-	10	10	1000
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	26.8	+2	SSE	2	c	47	97	46	7	5	-	-	9+	9+	2500
	Bristol ...	209	28.5	-2	-	0	c/d	42	97	41	5	5	-	-	10	10	1200
	Portland Bill ...	32	28.2	-4	ESE	3	c	45	97	43	7	5	-	-	10	10	4000
	Plymouth ...	82	27.9	0	NE	2	id_0	46	97	46	6	5	-	-	10	10	1500
	The Lizard ...	240	26.6	-6	NE	3	c	47	85	43	8	8	6	-	7-8	9	1500
	Scilly (St. Mary's)	163	27.6	-4	-	0	b-bc	44	92	42	8	2	6	6	Tr	2-3	1800
	Guernsey ...	175															
6	Pembroke ...	142	27.7	0	ENE	2	f+	45	92	43	0	-	-	-	10	10	450
7	Holyhead (Valley)	32	26.5	-2	S'W	4	c	47	85	44	8	4	3	6	Tr	9+	2500
	Chester (Sealand)	16	27.2	+2	-	0	bf+	35	97	35	1	-	-	-	0	0	-
8	Manchester ...	235	27.6	-2	SSE	2	b-bcf+	41	97	40	3	5	-	-	2-3	2-3	2500
10	Spurn Head ...	29	28.0	0	S	1	m	41	92	39	4	5	-	-	10	10	450
	Catterick ...	175	27.8	-2	W	1	bf-	35	97	35	1	-	-	-	0	0	-
	Tynemouth ...	108	26.7	+4	SW	2	c-bc	38	97	37	7	8	-	-	7-8	7-8	2500
11	St. Abbs Head	280	24.4	+2	SSW	2	c	42	92	40	7	5	-	-	9	9	2500
	Leuchars ...	36	24.3	+4	-	0	Z_0	40	97	39	6	-	-	8	0	1	-
12	Renfrew (Abbots I.)	19	24.4	+2	S'E	1	Z_0	45	85	41	6	5	-	-	9+	9+	2500
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	25.3	0	SSW	2	c	48	92	46	8	5	7	*	2-3	10	2500
13A	Tiree	44	21.2	-6	S	4	r_0r_0	46	92	43	7	5	1	-	4-6	10	2500
13B	Stornoway ...	15	20.9	+2	SSW	4	c	42	85	38	8	2	7	-	Tr	9	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	24.1	+4	W	2	bc	36	97	35	8	-	-	1	0	Tr	-
	Wick ...	114	22.0	+10	SW	2	c-bc	41	92	39	9	-	3	6	0	7-8	-
16	Sumburgh ..	19	20.8	+18	WSW	5	bc	46	75	40	8	2	-	6	1	4-6	2500
17	Blacksod Point	18	19.0	-2	S	5	r_0r_0	51	97	51	7	6	2	-	4-6	10	1500
18	Malin Head ...	84	19.3	-26	S'E	3	r_0r_0	41	97	41	8	5	2	-	7-8	10	1500
	Aldergrove ...	268	23.3	-12	SSE	2	c	46	85	43	7	5	7	-	4-6	9+	1600
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	23.1	-6	S'W	4	c/d	52	92	50	7	5	-	-	10	10	800
	Roches Point	22	25.0	-6	SW	4	dd	50	97	50	5	5	-	-	10	10	450

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

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)	29.3	+2	ESE	1	Z_0	36	92	33	6	5	-	-	10	10	1500	1	*
	Croydon ...	29.7	+2	SE	2	m	34	97	34	4	5	-	-	10	10	700	1	*
	S. Farnborough	29.5	+2	ENE	1	id_0	35	97	33	3	5	-	-	10	10	400	1	*
	Boscombe Down	29.2	+2	SE'E	2	m	36	97	36	4	5	-	-	10	10	400	0	*
	Thorney Island	29.0	+4	NE'N	1	Z_0	34	92	31	6	5	-	-	10	10	2500	1	*
	Lympne ...	29.4	0	NE	1	Z_0	34	92	31	5	5	-	-	9+	9+	2000	1	2
	Manston ...	29.0	+2	NE	1	Z_0	37	85	33	6	5	-	-	9	9	1500	1	*
2	Shoeburyness ...	29.2	-2	W'N	1	Z_0	36	85	33	5	5	-	-	10	10	1500	1	*
	Felixstowe ...	29.5	-2	WNW	1	Z_0	36	92	33	5	5	-	-	9+	9+	1600	1	1
	Gorleston ...	29.6	-2	NW'W	1	Z_0	37	85	32	6	5	-	-	10	10	800	0	2
	Mildenhall ...	29.1	0	S	1	df	35	97	34	2	5	-	-	10	10	800	1	*
	Cranwell ...	28.3	+2	SE'S	1	df	39	97	39	0	5	-	-	10	10	400	1	*
3	Birmingham ...	28.5	0	SW	1	cf	39	97	38	1	-	-	-	10	10	4150	1	*
	Upper Heyford	28.1	+4	S	1	m	38	97	36	4	5	-	-	10	10	500	1	*
4	Ross-on-Wye	27.7	0	S'W	1	m	42	97	41	4	5	-	-	10	10	800	1	*
5	Hartland Point	27.0	+2	SSW	3	c	46	92	45	7	5	6	-	7-8	9	1500	1	3
	Bristol ...	28.7	+2	-	0	Z_0	42	92	39	5	5	-	-	10	10	800	1	*
	Portland Bill ...	28.0	+4	E	3	0	41	92	38	7	5	-	-	10	10	2500	1	3
	Plymouth ...	28.1	0	ENE	1	c/d	45	97	45	6	5	-	-	10	10	1500	1	3
	The Lizard ...	27.2	+2	SSE	3	0	48	92	46	7	5	-	-	10	10	1000	1	3
	Scilly (St. Mary's)	27.4	0	-	0	bc	45	92	43	8	1	4	-	1	4-6	1500	1	3
	Guernsey ...																	
6	Pembroke ...	27.1	0	S'W	3	c-bc	43	85	40	8	8	4	-	4-6	7-8	2500	1	1
7	Holyhead (Valley)	26.3	-4	S	4	c	47	92	45	8	5	-	-	10	10	1400	1	2
	Chester (Sealand)	27.3	+2	S	2	bf+	32	97	31	1	-	-	-	0	0	-	1	*
8	Manchester ...	27.6	0	-	0	bf+	35	97	33	3	-	-	-	0	0	-	1	*
10	Spurn Head ...	28.3	+2	S	2	m	40	92	38	4	5	-	-	10	10	800	1	2
	Catterick ...	28.2	+2	SSE	1	f-	30	97	30	1	-	-	-	10	10	4150	1	*
	Tynemouth ...	27.0	0	SW	3	m	35	97	35	4	-	4	1	0	2-3	-	1	2
11	St. Abbs Head	23.7	-4	SSW	4	c	43	92	41	7	5	-	-	4-6	10	2500	0	3
	Leuchars ...	23.6	-10	S	1	Z_0	43	92	41	6	5	3	-	9	9+	3000	1	*
12	Renfrew (Abbots I.)	22.6	-12	S	2	id_0	49	85	45	5	5	7	-	7-8	9	1600	1	*
	Eskdalemuir ...	25.3	0	S	3	d_0d_0	41	97	40	4	-	2	-	10	10	100	1	*
	Point of Ayre ...	21.4	-6	SSW	4	c	48	97	47	7	6	3	-	7-8	9	800	0	3
13A	Tiree	17.2	-10	S	6	c	49	97	48	8	5	7	-	7-8	10	2500	1	
13B	Stornoway ...	18.2	-22	SSW	5	r_0r_0	46	97	45	6	5	-	-	10	10	1200	1	
15	Dalwhinnie ...	21.0	-12	S	3	0	40	92	38	7	5	-	-	10	10	2500	1	*
	Aberdeen † ...	23.3	-6	SW'S	2	Z_0	43	85	38	6	5	3	-	2-3	4-6	6000	1	2
	Wick ...	21.7	-10	S	2	$i r_0$	43	85	40	8	5	2	-	7-8	10	2500	1	*
16	Sumburgh ..	21.4	-4	S'W	3	c	45	85	40	8	4	7	8	Tr	9+	2500	1	4
17	Blacksod Point	18.0	-2	S	5	c/d	51	97	50	7	6	-	-	10	10	1500	2	4
18	Malin Head ...	17.8	-4	S	4	c	51	92	49	8	8	-	-	9	9	1500	1	3
	Aldergrove ...	20.7	0	S	3	c/d	47	97	45	7	5	-	-	10	10	1500	1	*
19	Birr Castle ...	22.7	-6	S	3	c	49	92	47	7	5	-	-	7-8	9+	2500	1	*
20	Valentia Obsy.	22.5	-6	S'W	4	$i r_0$	51	97	60	6	5	-	-	10	10	450	1	3
	Roches Point	21.3	-4	SW	4	dd	50	97	49	5	5	-	-	10	10	450	1	*

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 25th Hrs. (38)
1	London (Kew)	40	33	32	Tr	-	0.1
	Croydon ...	41	33	33	-	-	3.0
	S. Farnborough	40	34	33	Tr	Tr	1.3
	Boscombe Down	43	35	33	Tr	Tr	1.7
	Thorney Island	43	34	30	-	-	*
	Lympne ...	39	32	28	-	-	0.0
	Manston ...	37	38	33	-	-	0.0
2	Shoeburyness ...	38	34	33	-	Tr	0.0
	Felixstowe ...	40	36	34	-	-	0.0
	Gorleston ...	39	39	34	-	-	0.0
	Mildenhall ...	40	32	22	-	Tr	0.1
	Cranwell ...	40	38	33	Tr	Tr	0.0
3	Birmingham ...	44	39	29	-	-	0.0
	Upper Heyford	42	36	*	-	0.1	*
4	Ross-on-Wye	46	43	43	Tr	-	0.0
5	Hartland Point	50	45	44	Tr	Tr	0.0
	Bristol ...	46	41	41	-	-	0.0
	Portland Bill ...	50	39	*	-	-	*
	Plymouth ...	50	45	44	1	0.3	0.0
	The Lizard ...	51	45	*	0.5	0.5	0.5
	Scilly (St. Mary's)	50	43	*	-	Tr	1.6
	Guernsey ...						
6	Pembroke ...	50	*	*	2	Tr	0.0
7	Holyhead (Valley)	51	45	41	0.2	-	*
	Chester (Sealand)	47	31	26	0.1	-	0.0
8	Manchester ...	46	35	29	Tr	-	*
10	Spurn Head ...	40	39	*	-	-	0.0
	Catterick ...	43	29	28	-	Tr	0.0
	Tynemouth ...	47	35	33	0.5	-	*
11	St. Abbs Head	46	39	*	Tr	-	*
	Leuchars ...	40	37	36	-	-	1.3
12	Renfrew (Abbots I.)	45	43	40	0.2	0.2	0.9
	Eskdalemuir ...	40	37	34	-	0.4	3.3
	Point of Ayre ...	51	40	*	-	-	5.0
13A	Tiree	48	42	39	5	3	0.0
13B	Stornoway ...	48	37	29	3	0.2	0.0
15	Dalwhinnie ...	40	37	31	0.1	0.1	2.2
	Aberdeen † ...	46	37	32	-	-	3.0
	Wick ...	49	39	35	-	-	*
16	Sumburgh ..	46	44	40	0.4	-	3.3
17	Blacksod Point	51	52	*	2	6	*
18	Malin Head ...	45	41		0.1	0.4	0.6
	Aldergrove ...	44	42	40	0.6	Tr	2.9
19	Birr Castle ...	46	45	44	-	0.1	1.3
20	Valentia Obsy.	52	51	49	1	1	0.0
	Roches Point	51	49	*	0.1	2	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 25th Dec.				18h. G.M.T.			01h. G.M.T. 26th Dec.			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	C$_L$C$_M$	wwVhN$_h$	DDFWN
109 42	02754	10506	5-	01754	19324	50	01752	20314	05	02690	15326			
115 52	62845	20468	57	02844	24566	57	02844	24526	52	62735	16268			
203						81	02953	20428	5-	62838	08428			
206 09	02890	53515	57	62864	20488	13	02853	22165	57	22854	00068			
210 04	02890	17215	03	01890	20313	53	02885	16326	57	02863	11267			
220			30	25654	22384				62	64315	17568			
230 02	62648	16368	5-	62848	16268	41	51751	14268	62	62846	14268			
245 54	01742	22343	04	05590	20113	5-	02648	26128	57	05655	00017			
260 00	43390	00042	03	01790	31142	53	05663	20254	04	01790	18425			
278 54	01851	14313	5-	52748	17358	57	02846	11257	02	52748	16358			
279 5-	05565	01166	50	45351	16141	5-	02857	18247	5-	02757	17127			
285														
288 57	41464	21247	5-	43346	14348	--	44209	17349	--	48109	19349			
575			50	05644	00026	52	21647	16258	5-	21748	16258			
301 62	52435	14158	07	05562	12153	00	43290	10140	00	41490	12240			
321 5-	08433	18248	5-	08458	16328	--	47009	00409						
299			5-	08428	20328	5-	08448	22128						
292 5-	41438	13248	5-	45348	13148	--	46009	00049	--	46009	00049			
810									--	46209	20349			
614 52	05547	20248	07	47390	00028	5-	47248	22148	--	46109	24149			

13h. G.M.T. 25th Dec.				18h. G.M.T.			01h. G.M.T. 26th Dec.			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	C$_L$C$_M$	wwVhN$_h$	DDFWN
333 57	04844	28157	00	04890	00025	53	04633	00024	53	05635	12128			
334														
340 5-	21438	00058	5-	02538	14128	00	47190	00040	--	44109	16349			
136 5-	05634	18247	00	05590	14210	5-	08466	15126	5-	43208	16148			
336														
350 04	05690	18127	5-	05647	16127	—	52109	16159						
368 52	02645	08328	61	05535	16258	5-	05538	08158	5-	05558	04128			
379 5-	47318	18248	5-	08428	20228	5-	08438	20228	5-	08428	22228			
390 5-	47347	19227	--	48209	00049	5-	45338	00048	5-	45338	24148			
882 07	05690	17127	00	47361	00012	5-	08448	00028	--	48309	16129			
438 5-	02638	16228				57	02644	32228	5-	05548	02228			
430 5-	02758	00028	5-	05548	00028	5-	05648	32128	5-	05648	04328			
409 5-	51826	30428	54	02946	30227	53	02864	15127	5-	22757	12267			

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 26th
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	cfefm	cfcm	cmcm$_0$	
Croydon ...	cm$_0$	om$_0$omcm$_0$	om	
Greenwich ...	bccm	cm	cdmw	
Camden Square	b	o	*	
Kensington ...	bc2c	c	*	
Hampstead ...	bcm	om	o	

*Kew 24 hours ended 7h. Max. Time 2.3 9-10h 25th. Min. Time 0.3 3-7h 26th.

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	35	32	Tr	-	0.1	*	*
Croydon ...	41	33	33	-	-	3.0	*	*
Greenwich ...	39	33	28	-	Tr	0.7	84	91
Westminster ...	40	35	30		-		78	95
Regents Park ...								
Camden Square	38	34	30	-	-	*	*	92
Kensington ...	43	34	28	Tr	-			95
Hampstead ...	37	33	28	-	-		*	99

BRITISH SECTION

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

SECRET

Sunday 27th December 1942

No. 29620.

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

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Dew Point. °F. (8)	Visibility. 0–9 (9)	Cloud. Form. Low. (10)	Cloud. Form. Med. (11)	Cloud. Form. High (12)	Cloud. Amount. Low 0–10 (13)	Cloud. Amount. Total 0–10 (14)	Cloud. Height of Base (feet) (15)
1	London (Kew)	29·4	-4	ESE	1	f+	36	85	33	2	-	-	-	10	10	<150
	Croydon ...	29·8	-4	E	2	of+	33	97	32	3	5	-	-	10	10	1000
	S. Farnborough	29·4	-6	E'N	1	mf	35	97	35	4	5	-	-	10	10	500
	Boscombe Down	29·3	-4	E'S	2	of+	35	97	35	1	5	-	-	10	10	400
	Thorney Island	29·3	-6	NE'N	2	z_0	33	85	3_0	6	8	-	-	9+	9+	1500
	Lympne ...	28·9	-8	E	2	c-bc	38	75	32	7	5	4	-	7-8	7-8	2000
	Manston ...	28·9	-6	N'E	1	z_0	39	85	35	6	5	-	-	9+	9+	1800
2	Shoeburyness ...	29·2	-4	NNW	1	z_0	39	85	35	8	5	-	-	10	10	1500
	Felixstowe ...	28·8	-12	ENE	1	z_0	41	75	35	6	5	-	-	10	10	1500
	Gorleston ...	29·5	-6	SE	2	c	40	75	32	7	5	-	-	9+	9+	1200
	Mildenhall ...	29·5	-4	SE	2	z_0	35	85	31	6	5	-	-	10	10	1200
	Cranwell ...	28·1	-8	SSE	2	F	39	97	39	1	-	-	-	10	10	<150
3	Birmingham ...	27·5	-2	SSW	1	m	42	97	42	4	5	-	-	10	10	800
	Upper Heyford	28·4	-6	SW	1	F	37	97	37	1	-	-	-	10	10	<150
4	Ross-on-Wye	27·7	-6	SW'S	2	z_0	44	92	42	5	5	-	-	10	10	800
5	Hartland Point	27·2	-10	S	2	c-bc	47	85	44	7	2	7	-	1	7-8	2000
	Bristol ...	28·9	-6	SSE	1	m	42	97	41	4	5	-	-	10	10	1000
	Portland Bill ...	28·5	+4	E	3	o	40	92	38	7	5	-	-	10	10	2500
	Plymouth ...	28·3	-6	-	0	c	48	85	44	7	5	-	-	9+	9+	2500
	The Lizard ...	27·7	-2	SE	2	c	48	85	44	8	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	27·4	-4	S	1	bc	53	75	46	8	8	4	-	4-6	4-6	1500
	Guernsey ...															
6	Pembroke ...	26·9	-6	SW'S	2	bc	51	85	47	8	2	-	-	4-6	4-6	3000
7	Holyhead (Valley)	26·3	-8	S'E	5	c	48	92	46	7	5	-	-	10	10	2000
	Chester (Sealand)	26·4	-12	S'E	2	z_0	41	92	39	6	-	-	-	0	0	-
8	Manchester ...	27·3	-12	SSE	2	m	42	97	41	4	5	-	-	2-3	2-3	800
10	Spurn Head ...	28·6	-2	S	3	of	39	97	39	3	5	-	-	10	10	800
	Catterick ...	27·2	-16	SSE	3	F	35	97	35	1	-	-	-	10	10	<150
	Tynemouth ...	26·3	-14	SW	3	m	39	92	35	4	-	3	-	0	1	-
11	St. Abbs Head	21·6	-14	S	4	bc	45	92	43	7	5	4	-	2-3	4-6	3000
	Leuchars ...	21·3	-16	S	3	c	50	92	44	7	8	3	5	2-3	9	1800
12	Renfrew (Abbots I.)	21·3	-10	S'W	3	d_0d_0	50	85	47	6	5	-	-	10	10	1400
	Eskdalemuir ...	24·3	-12	SSW	2	c	42	92	41	6	5	-	-	10	10	1100
	Point of Ayre ...	24·5	-4	SSW	4	c	49	92	41	7	6	-	-	9+	9+	800
13A	Tiree	15·3	-16	S	6	rr	50	92	48	6	5	2	-	9+	10	900
13B	Stornoway ...	10·1	-38	S	8	r_0r_0	50	92	48	6	5	-	-	10	10	800
15	Dalwhinnie ...	18·0	-8	S	3	ir_0	46	92	44	7	5	-	-	9+	9+	1500
	Aberdeen ...	21·0	-14	S	3	c	46	92	44	7	5	7	9	7-8	9+	700
	Wick ...	16·4	-22	SE'S	3	c-bc	46	85	43	9	5	7	-	4-6	7-8	2300
16	Sumburgh ...	16·6	-42	S	7	4/r	46	88	43	8	5	2	-	7-8	10	1400
17	Blacksod Point	18·5	+4	SSW	5	rr	52	97	52	7	6	2	-	4-6	10	1500
18	Malin Head ...	17·0	-2	S'W	7	c	51	92	49	8	8	-	-	10	10	1500
	Aldergrove ...	22·1	-6	SE'E	4	c	49	85	46	8	5	7	-	9	9+	600
19	Birr Castle ...	22·7	-4	S	2	id	51	92	49	7	6	2	-	7-8	10	800
20	Valentia Obsy.	22·8	+2	S'W	4	4/d	53	92	51	7	5	-	-	9+	9+	800
	Roches Point	24·6	-6	SW	4	id_0	50	97	50	6	5	-	-	9+	9+	450

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

District	Stations.	Barom. at M.S.L. mb. (16)	Change in 3 hours. (17)	Wind. Direc. (18)	Wind. Force 0–12 (19)	Weather. (20)	Temp. °F. (21)	Humid. % (22)	Dew Point. °F. (23)	Visibility. 0–9 (24)	Cloud. Form. Low. (25)	Cloud. Form. Med. (26)	Cloud. Form. High (27)	Cloud. Amount. Low 0–10 (28)	Cloud. Amount. Total 0–10 (29)	Cloud. Height of Base (feet) (30)	State of Ground. 0–9 (31)	Sea. 0–9 (32)
1	London (Kew)	29·0	+2	SSE	1	m	36	85	33	4	5	-	-	10	10	1500	1	*
	Croydon ...	29·3	+2	-	0	of	32	92	30	3	5	-	-	10	10	1000	1	*
	S. Farnborough	28·8	+4	E'N	1	of	34	97	34	3	5	-	-	10	10	400	1	*
	Boscombe Down	28·9	+2	E'S	1	F	35	97	35	1	-	-	-	10	10	<150	0	*
	Thorney Island	28·7	-2	NE'E	2	m	34	92	32	4	5	-	-	10	10	600	1	*
	Lympne ...	28·4	-2	NNE	2	z_0	37	85	32	6	5	-	-	10	10	2200	1	§2
	Manston ...	28·3	+2	ESE	1	z_0	38	97	37	6	5	-	-	9+	9+	1800	1	*
2	Shoeburyness ...	28·5	-2	NW	1	z_0	39	85	34	5	5	-	-	9	9	1500	1	*
	Felixstowe ...	28·4	-2	-	0	z_0	39	75	33	6	5	-	-	9+	9+	1900	1	1
	Gorleston ...	28·9	0	SE	2	z_0	39	75	32	6	5	-	-	10	10	1500	0	2
	Mildenhall ...	28·7	+2	S'E	2	z_0	34	92	31	6	5	-	-	10	10	1400	1	*
	Cranwell ...	27·8	0	S'E	2	F+	38	97	38	0	-	-	-	10	10	<150	1	*
3	Birmingham ...	27·4	0	S	1	of+	41	97	40	3	5	-	-	10	10	800	1	*
	Upper Heyford	28·1	0	S	1	f	37	97	37	2	-	-	-	10	10	<150	1	*
4	Ross-on-Wye	27·2	0	SW'W	2	m	43	92	42	4	5	-	-	10	10	800	1	*
5	Hartland Point	27·0	+2	ESE	3	c-bc	44	92	42	7	5	-	-	7-8	7-8	2500	1	3
	Bristol ...	28·2	0	SE'E	1	of+	41	97	41	3	5	-	-	10	10	500	1	*
	Portland Bill ...	28·2	0	E	2	o	38	92	35	7	5	-	-	10	10	2500		3
	Plymouth ...	28·2	0	-	0	z_0	45	92	43	6	5	-	-	10	10	2500	1	4
	The Lizard ...	27·1	0	SE	3	c	45	85	45	8	5	-	-	9	9	1500	0	3
	Scilly (St. Mary's)	27·1	0	S'E	2	c-bc	47	92	45	8	5	3	-	4-6	7-8	1200	1	3
	Guernsey ...																	
6	Pembroke ...	26·8	0	SW'S	4	c-bc	50	85	46	8	8	-	-	7-8	7-8	2500	0	2
7	Holyhead (Valley)	25·6	0	S'W	4	d_0d_0	48	97	48	5	5	-	-	10	10	300	1	3
	Chester (Sealand)	26·0	+16	S	1	b	40	85	37	5	-	4	-	0	1	-	1	*
8	Manchester ...	26·5	0	SE'E	1	m	38	92	37	4	-	-	-	0	0	-	1	*
10	Spurn Head ...	28·1	+2	SW'W	2	z_0	38	92	35	5	5	-	-	10	10	800	1	3
	Catterick ...	26·4	-2	SSE	3	F	37	97	37	1	-	-	-	10	10	<150	1	*
	Tynemouth ...	25·1	-4	SSW	3	m	37	97	37	4	5	-	-	4-6	4-6	800	1	2
11	St. Abbs Head	19·8	-6	SSW	5	bc	45	97	45	7	5	4	-	4-6	4-6	2500	0	3
	Leuchars ...	20·1	-4	SSW	4	c	49	85	44	7	5	-	-	9	9	1400	1	*
12	Renfrew (Abbots I.)	20·3	-2	SSW	4	r_0r_0	50	92	47	6	5	-	-	4-6	10	1000	1	*
	Eskdalemuir ...	22·5	-6	SSW	5	dd	43	97	43	4	-	2	-	10	10	100	1	*
	Point of Ayre ...	23·5	-2	SW'S	2	c	49	92	47	7	5	-	-	9+	9+	3000	1	2
13A	Tiree	19·6	+46	W'N	3	bc/r	46	85	43	8	8	7	3	2-3	4-6	2500	1	4
13B	Stornoway ...	17·1	+70	W	6	pr	43	92	42	7	8	-	-	9	9	1200	1	*
15	Dalwhinnie ...	18·0	-6	S	4	ir_0	47	92	44	6	5	-	-	10	10	1500	1	*
	Aberdeen ...	18·5	-14	S	4	c	48	85	45	8	5	7	-	7-8	9+	800	1	3
	Wick ...	13·1	-14	S'W	4	bc	49	85	45	8	5	7	-	4-6	4-6	2000	1	*
16	Sumburgh ...	11·3	-30	SW'S	5	rr	47	97	47	6	5	2	-	7-8	10	900	1	4
17	Blacksod Point	22·5	+28	N'W	1	b-bc/r	46	97	46	7	5	-	-	2-3	2-3	1500	2	2
18	Malin Head ...	20·1	+34	NW'W	2	r_0r_0	47	97	47	7	-	2	-	10	10	1500	2	3
	Aldergrove ...	21·7	+2	S'W	3	o	50	85	47	8	5	2	-	9+	10	3000	1	*
19	Birr Castle ...	22·2	+2	SW	2	c-bc	51	88	47	8	5	-	-	7-8	7-8	2500	1	*
20	Valentia Obsy.	23·0	+6	S	4	ir	51	97	51	8	5	-	-	10	10	450	1	3
	Roches Point	24·7	+6	SW	4	dd	50	97	50	5	5	-	-	10	10	450	1	4

PAST 24 HOURS.

District	Stations.	Weather. 7h.—13h. 26th (39)	Weather. 13h.—18h. 26th (40)	Weather. 18h. 26th to 1h. 27th (41)	Weather. 1h.—7h. 27th (42)
1	London (Kew)	cm_0mof	offm	cm	om
	Croydon ...	cmof	omof	of	ofcf
	S. Farnborough	$ofid_0d_0m$	$omfeid_0$	$ofeidof$	offecf
	Boscombe Down	cmcF	oF	of_0of	ofofe
	Thorney Island	cm_0	cm_0om	ombfcf	cmbm
	Lympne ...	cm_0c	cm_0	cm_0	cm_0
	Manston ...	cm_0c	cm_0	cm_0	cm_0
2	Shoeburyness ...	cm_0	cm_0	cm_0	cm_0
	Felixstowe ...	cm_0	cm_0	cm_0	cm_0
	Gorleston ...	cz_0c	cz_0	cz_0	cz_0
	Mildenhall ...	$ofid_0cm_0$	cm_0	cm	cm_0
	Cranwell ...	oF	oid_0FF	off	off
3	Birmingham ...	Fcom	omf	pff	off
	Upper Heyford	oF	oF	of	ofFcof
4	Ross-on-Wye	om	cm_0om	om	omd_0of
5	Hartland Point	c	cbcc	c	c
	Bristol ...	com_0m	mid_0om	ofcf	$omaid_0f$
	Portland Bill ...	o	o	oo	oo
	Plymouth ...	cm_0c	cm_0	cm_0	cm_0
	The Lizard ...	c	cbcc	coc	co
	Scilly (St. Mary's)	bc	bcc	cbcc	c
	Guernsey ...				
6	Pembroke ...	bc	c	o	cid
7	Holyhead (Valley)	c	$cd_0d_0m_0$	$cmid_0c$	$cod_0d_0m_0$
	Chester (Sealand)	$fibmm_0$	z_0bz_0	cm	mm_0c
8	Manchester ...	bfxoF	bccm	bmcffcm	$omcm_0$
10	Spurn Head ...	of	om_0	of	om_0
	Catterick ...	oFx	oF	pFcbcf	bcfpFw
	Tynemouth ...	bcm	bcm	bcbm	cbcb
11	St. Abbs Head	bcbc	bcbc	bcc	bbcom
	Leuchars ...	cm_0wc	c	cid_0m_0c	cbbox
12	Renfrew (Abbots I.)	cpr_0id_0	$cm_0id_0r_0r_0$	cr_0r_0rrc	$bcbm_0$
	Eskdalemuir ...	dd_0ddc	$oddm_0m$	od_0r_0	r_0cbx
	Point of Ayre ...	cid_0c	c	cd_0d_0	d_0ore
13A	Tiree	r_0irrrm	arrbc	cpr_0bc	bc
13B	Stornoway ...	$crrr_0r_0$	cr_0r_0c	cpr_0bbcb	bbcb
15	Dalwhinnie ...	oir_0c	cir_0o	*	$oirbc$
	Aberdeen ...	$bcoz_0c$	c	$ccir_0cx$	cxbx
	Wick ...	cbcc	c	cr_0rcbc	bc
16	Sumburgh ...	cir_0r_0c	$cm_0r_0r_0rr$	$crrpr_0bc$	$bcpr_0$
17	Blacksod Point	r	r	bc	pr
18	Malin Head ...	c	r	r	cbc
	Aldergrove ...	cid_0cc	c	cid_0c	odbf
19	Birr Castle ...	d	d	*	d
20	Valentia Obsy.	r	r	r	bc
	Roches Point	d	d	d	d

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 27th December

Districts.	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands	Light variable, mainly southwesterly winds; dull and misty generally with large areas of persistent fog and fog becoming widespread at night; slight local drizzle: rather cold.
5 S.W. England 6 South Wales	Light variable or southwest wind; cloudy with slight local rain or drizzle: mild.
7 North Wales 8 N.W. England 9 N. Midlands ... 10 N.E. England	As 1-4
11 S.E. Scotland 12 S.W. Scotland & Isle of Man 13A W. Scotland ... 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland	Light west or southwest winds backing southerly and freshening later; fair at first apart from a few scattered showers on the northwest seaboard, and some local fog patches; some bright periods; becoming cloudy later with some rain spreading from West: rather cold with slight local night frost, becoming milder in West later.
16 Orkneys and Shetlands 17 N.W. Ireland 18 N.E. Ireland	As 11-15
19 S.E. Ireland 20 S.W. Ireland	As 1-4.

GENERAL INFERENCE

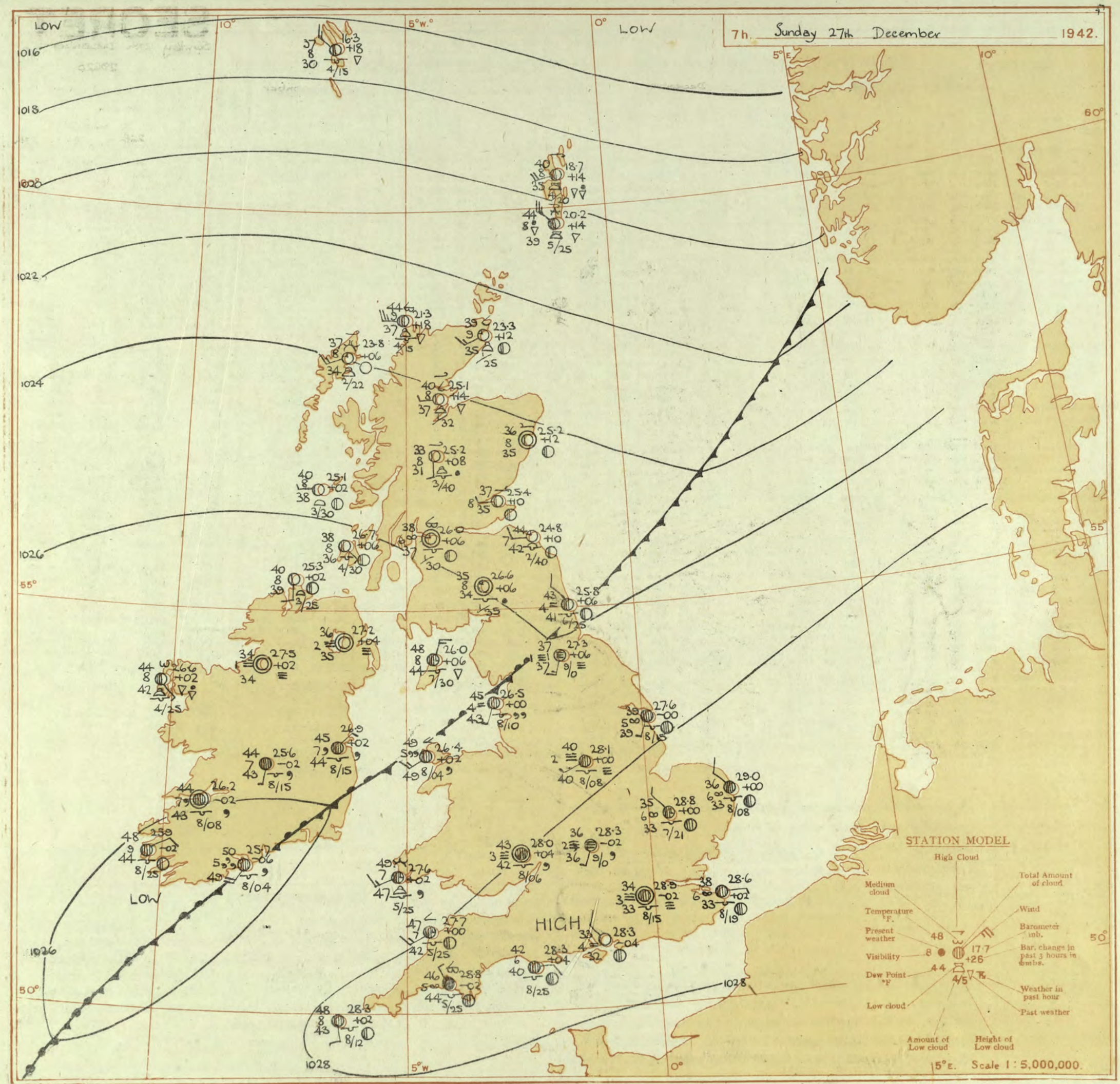
Pressure is high to the southeast of the British Isles. A ridge of high pressure will move east across Ireland and Scotland, followed by a trough associated with a depression now in Mid-Atlantic which is deepening and moving northeast. Weather will be generally dull over England, Wales and Southern Ireland with large foggy areas and some local drizzle. In Scotland and Northern Ireland it will be mainly fair at first, but rain will spread from West later. It will be mainly rather cold.

FURTHER OUTLOOK

Quiet and foggy in South. Rainy periods in North.

Forecasts issued at 1030h.

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.

6.369/4372. m.9144. 0.2560. 5p.946/2.7760. 12/42.

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

Explanation of Frontal Lines shown on Charts

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

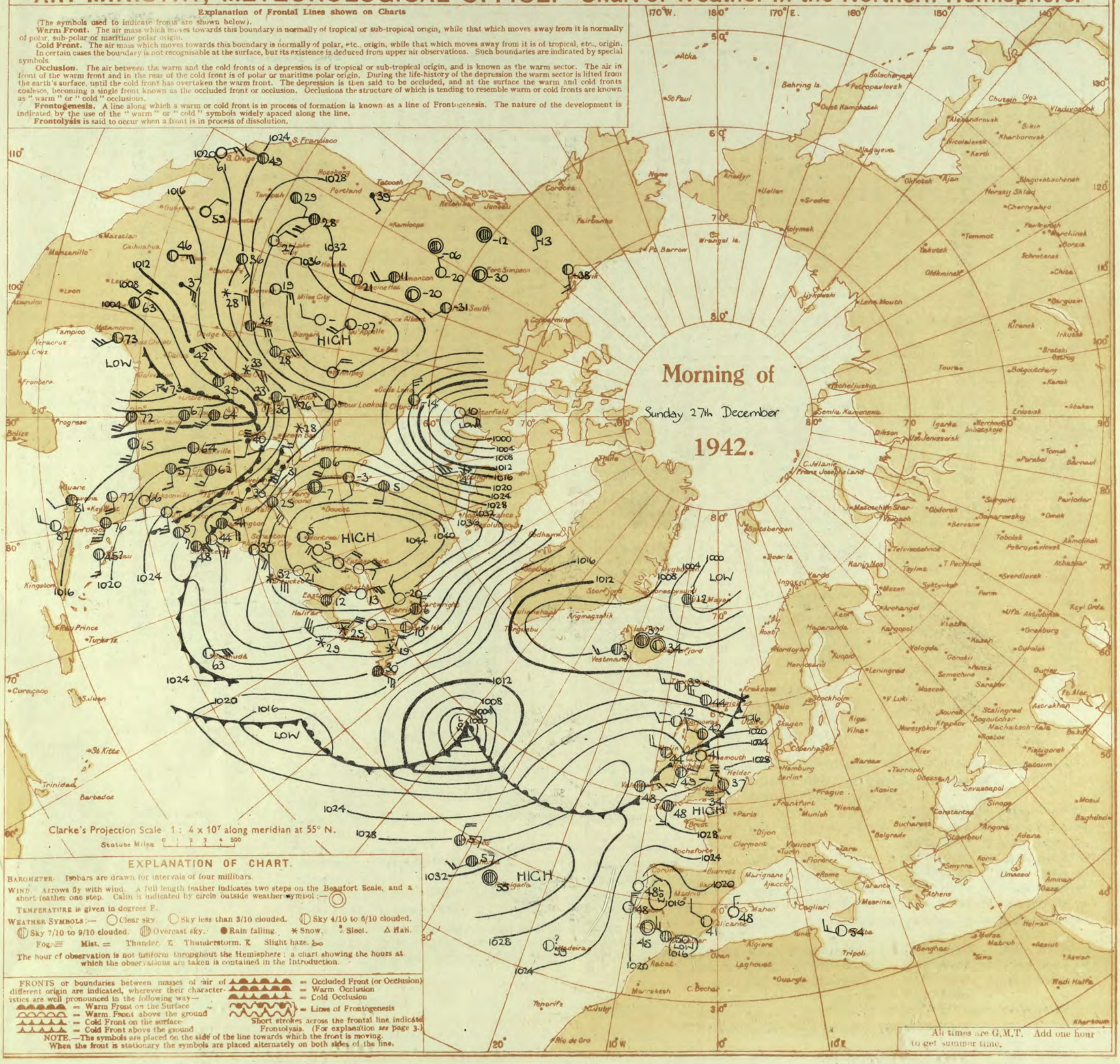
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

Fog. Mist. Thunder. Thunderstorm. Slight haze.

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

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

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

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

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

BRITISH SECTION

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

Sunday 27th December, 1942

No. 29620

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

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	29·0	-2	NE	1	of	34	97	33	3	5	-	-	10	10	500
	S. Farnborough	226	29·0	-4	-	0	f	32	97	32	2	5	-	-	10	10	<150
	Boscombe Down	417	28·9	0	-	0	f	35	97	35	3	-	-	-	10	10	<150
	Thorney Island	10	28·7	-2	NE'N	1	of+	33	97	32	3	5	-	-	10	10	800
	Lympne ..	283	28·1	-6	ENE	2	z_o	37	85	32	6	5	-	-	10	10	2000
	Manston ...	154	28·2	-4	E'N	1	z_o	38	85	34	6	5	-	-	10	10	1700
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	28·6	0	NW'W	2	z_o	38	75	32	5	5	-	-	10	10	1900
	Gorleston ...	28·9	0	WNW	1	c	37	85	35	6	5	-	-	10	10	1500
	Mildenhall ...	29·0	+2	-	0	z_o	34	92	31	6	5	-	-	10	10	900
	Cranwell ...	203	27·9	-2	SSE	1	F	37	97	37	1	-	-	-	10	10	<150
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	28·1	-2	SSW	1	F	36	97	36	1	-	-	-	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	27·3	-6	W	3	c	46	85	41	7	5	2	-	9+	10	2500
	Bristol ...	209	28·6	-2	SSE	1	of	40	97	40	3	5	-	-	10	10	2600
	Portland Bill ...	32	28·2	0	E	3	o	40	92	38	7	5	-	-	10	10	2500
	Plymouth ...	82	28·6	-2	SSE	2	z_o	44	97	43	6	5	7	-	4-6	10	2500
	The Lizard ...	240	27·8	-2	SE	1	c	46	85	41	8	5	2	-	9	10	1500
	Scilly (St. Mary's)	163	28·7	-2	S'E	3	c	48	85	44	7	5	-	-	10	10	1200
	Guernsey ...	175															
6	Pembroke ...	142	27·4	0	SW	3	c-bc	50	85	46	8	8	-	-	7-8	7-8	2500
7	Holyhead (Valley)	32	26·3	+2	SSW	3	c	49	97	48	7	5	-	-	9	9	2000
	Chester (Sealand)	16	26·5	-2	S	1	m	42	92	40	4	5	3	-	7-8	10	3500
8	Manchester ...	235	26·9	-2	S	3	m	43	92	41	4	5	7	-	7-8	10	1800
10	Spurn Head ...	29	28·1	+2	S'W	2	of	36	97	36	3	5	-	-	10	10	800
	Catterick ...	175	26·4	-4	S	2	c-bof-	41	97	40	2	5	-	-	7-8	7-8	1000
	Tynemouth ...	108	24·9	0	SSW	2	m	41	97	40	4	-	-	-	0	0	-
11	St. Abbs Head	280	23·6	+30	SW	3	c	47	92	45	7	5	-	-	9+	9+	2500
	Leuchars ...	36	22·9	+24	-	0	c-bc	48	85	42	8	5	3	-	2-3	7-8	2500
12	Renfrew (Abbots I.)	19	23·7	+18	W'S	2	c	45	92	42	7	5	7	-	4-6	9+	2000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	24·1	+4	W'S	4	d_od_o	50	97	49	7	5	2	-	9	10	1000
13A	Tiree	44	24·0	+14	W'N	2	b-bc	43	92	41	8	2	6	-	2-3	2-3	3000
13B	Stornoway ...	15	21·3	+14	WSW	4	b-bc	42	85	37	8	8	6	-	1	2-3	2200
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	22·1	+16	WNW	2	c-bc	42	85	38	9	8	7	6	1	7-8	3000
	Wick ...	114	20·4	+14	W'S	3	bc	40	85	36	9	1	3	4	Tr	4-6	2500
16	Sumburgh ..	19	16·8	+32	W'N	6	c-bc	46	85	43	8	1	-	-	7-8	7-8	1800
17	Blacksod Point	18	26·0	+6	-	0	bc	43	92	41	8	8	-	-	4-6	4-6	2500
18	Malin Head ...	84	24·3	+10	WNW	2	bc	44	85	40	8	2	-	-	4-6	4-6	2500
	Aldergrove ...	268	25·3	+10	-	0	o/d	45	97	44	7	5	-	-	10	10	2000
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	25·6	+2	NE	3	c	48	85	44	8	5	-	-	9+	9+	2500
	Roches Point	22	25·4	0	SW'S	4	DD	50	97	50	4	5	-	-	10	10	450

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

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)	28·7	0	NW'N	2	m	35	92	32	4	5	-	-	9+	9+	4000	1	*
Croydon ...	28·9	-2	-	0	of	34	97	33	3	5	-	-	10	10	1500	1	*
S. Farnborough	28·8	+2	NW'N	1	of-	34	97	33	3	5	-	-	10	10	400	1	*
Boscombe Down	29·0	+2	-	0	f	35	97	35	2	-	-	-	10	10	<150	0	*
Thorney Island	28·3	-4	NW'N	2	m	33	92	32	4	-	-	-	0	0	-	1	*
Lympne ..	28·7	-2	NE	2	z_o	36	85	33	6	5	-	-	10	10	2000	1	*
Manston ...	28·6	+2	E	1	z_o	38	85	33	6	5	-	-	10	10	1900	1	*
Shoeburyness ...	28·8	-2	-	0	z_o	36	85	33	5	5	-	-	10	10	1500	1	*
Felixstowe ...	28·6	-2	NW'W	2	z_o	36	85	32	5	5	-	-	10	10	1800	1	
Gorleston ...	29·0	0	NW	2	z_o	36	85	33	6	5	-	-	10	10	800	0	2
Mildenhall ...	28·8	0	NW	1	z_o	35	92	33	6	5	-	-	9+	9+	2100	1	*
Cranwell ...	27·9	-2	S'E	1	f-	38	97	38	2	-	-	-	10	10	<150	1	*
Birmingham ...	27·8	0	-	0	of	42	97	41	3	5	-	-	10	10	800	1	*
Upper Heyford	28·4	-2	S'W	1	df	36	97	36	2	-	-	-	10	10	<150	1	*
Ross-on-Wye	28·0	+4	-	0	of	43	97	42	3	5	-	-	10	10	600	1	*
Hartland Point	27·7	0	SW	3	c	47	85	42	7	5	1	-	7-8	9+	2500	1	3
Bristol ...	28·7	-2	-	0	df	42	92	41	3	5	-	-	10	10	600	1	*
Portland Bill ...	28·3	+4	E	2	o	42	92	40	6	5	-	-	10	10	2500	1	2
Plymouth ...	28·8	-2	NW	1	z_o	46	92	44	5	5	7	-	7-8	10	2500	1	1
The Lizard ...	28·2	-2	NE	2	o	47	85	43	7	5	-	-	10	10	1500	0	3
Scilly (St. Mary's)	28·3	+2	S'E	2	c	48	85	43	8	5	-	-	10	10	1200	1	3
Guernsey ...																	
Pembroke ...	27·6	+2	WSW	3	c	49	97	47	7	8	6	-	7-8	9+	2500	1	2
Holyhead (Valley)	26·4	+2	SW	3	d_od_o	49	97	49	5	-	2	-	10	10	400	1	2
Chester (Sealand)	26·7	0	SSE	1	c	45	92	43	5	5	-	-	9+	9+	3500	1	*
Manchester ...	27·2	+2	S'E	3	z_o	43	97	42	5	5	7	-	4-6	10	2500	1	*
Spurn Head ...	27·6	0	SSW	1	z_o	39	92	39	5	5	-	-	10	10	1500	1	1
Catterick ...	27·3	+6	S'W	3	F-	37	97	37	1	-	-	-	10	10	<150	1	*
Tynemouth ...	25·8	+6	NW'W	2	m	43	92	41	4	5	7	-	9	9	2500	1	3
St. Abbs Head	24·8	+10	W	2	b	44	92	42	7	4	-	-	1	1	4000	0	3
Leuchars ...	25·4	+10	W	1	bc	37	92	35	8	-	-	8	0	4-6	-	1	*
Renfrew (Abbots I.)	26·0	+6	-	0	z_o	38	97	37	6	5	7	-	Tr	1	3000	1	*
Eskdalemuir ...	26·6	+6	-	0	b	35	92	34	8	5	-	-	Tr	Tr	3500	1	*
Point of Ayre...	26·0	+6	NNE	3	c	48	85	44	8	5	-	-	9+	9+	3000	1	3
Tiree	25·1	+2	W	1	b-bc	40	92	38	8	1	-	-	2-3	2-3	2000	1	2
Stornoway ...	23·8	+6	WSW	3	b	37	92	34	8	2	6	1	1	1	2200	1	*
Dalwhinnie ...	25·2	+8	S	1	b-bc	33	92	31	8	8	-	1	2-3	2-3	4000	1	*
Aberdeen † ...	25·2	+12	-	0	b-bc	36	97	35	8	-	-	5	0	2-3	-	1	2
Wick ...	23·3	+12	SW	3	b	39	85	35	9	2	4	-	Tr	1	2500	1	*
Sumburgh ..	20·2	+14	WNW	5	pr_o	44	85	39	8	3	6	3	7-8	7-8	2500	1	3
Blacksod Point	26·6	-2	SE	1	c/pr	44	92	42	8	8	3	-	4-6	9	2500	2	2
Malin Head ...	25·3	+2	S	2	b-bc	40	92	39	8	2	-	-	2-3	2-3	2500	2	3
Aldergrove ...	27·2	+4	-	0	bf	36	97	35	2	-	-	-	0	0	-	1	*
Birr Castle ...	25·6	-2	S	1	c	44	97	43	7	5	-	-	10	10	1500	1	*
Valentia Obsy.	25·9	-2	E'N	2	c	48	85	44	9	5	-	-	10	10	2500	1	2
Roches Point	25·7	-6	SSW	4	dd	50	97	49	5	5	-	-	10	10	450	1	4

PAST 24 HOURS.

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

Abridged observations of additional stations in the AVIATION WEATHER CODE

13h. G.M.T. 26th Dec.: ...18h. G.M.T.						01h. G.M.T. 27th Dec.: ...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	61655	16468	07	02690	49568	34	10756	20386	20	03763	23484
115			52	62636	87786	24	02944	57565	87	02944	57586
203						80	01944	20424	20	02955	20455
206 83	81855	21487	62	62847	57568	83	25863	24485	24	01861	24183
210 54	02963	18326	54	01862	19523	53	01861	13314	03	01890	16314
220 62	58426	17768	80	28446	25386				20	01754	21204
230 52	61846	18368	62	62745	51368	87	02963	16166	24	01962	14123
245 5-	02747	16328	5-	03748	18328	57	02852	22265	50	01861	22115
260 44	05645	20415	5-	61654	53315	52	05644	00026	00	05690	00000
278 52	05635	16328	5-	XXX77	20327	54	61857	-8368	84	01867	00011
279 53	02835	19427	5-	05645	18427	62	62425	19568	57	02865	31126
285											
288 5-	43338	18348	5-	43326	17446	00	45390	16340	52	51464	22248
575 5-	21848	51558	5-	52638	18468	03	04590	00001	00	45190	00040
301 --	44309	26740	--	46309	12349	5-	57338	16258	5-	21448	18158
321			5-	08428	17248	--	48209	17248	--	44209	15149
299 --	48209	20249	--	46200	20249	5-	05548	22218	--	46309	22249
292 --	44309	16259	--	44308	14249	00	47390	16246	--	46009	13149
310											
614 --	44209	00059	--	48309	16149	5-	47238	20139	5-	45238	20148

13h. G.M.T. 26th Dec.: ...18h. G.M.T.						01h. G.M.T. 27th Dec.: ...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 59	05634	14227	52	05655	17258	5-	52648	20258	5-	51628	18158
334											
340 5-	43318	16148	5-	47334	16124				5-	02558	14148
136 5-	05518	14258	5-	05538	14228	5-	05528	18228	5-	08435	18228
336											
350 --	46109	12149	--	46109	00049	--	46109	00049	5-	43148	16148
368 5-	08438	10328	5-	45328	08248	52	08445	00048	02	52448	00058
379 --	44209	16149	5-	48109	16149				--	57109	20159
390 5-	05548	00028	5-	47348	00048	5-	48348	00048	5-	47357	00047
382 --	48309	16149	--	44208	16149	--	48109	15149	5-	57228	15148
438 5-	03538	04228	5-	03538	32328	5-	03538	32328	5-	03838	32328
430 5-	05538	03128	5-	08448	06228	5-	05548	04228	5-	05554	04124
409 54	02865	14325	5-	02765	14225	52	02756	14128	5-	02748	12128

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

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

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LONDON OBSERVATIONS

For the 24 hours ending morning of 27th December, Day 7h—18h Kew and Croydon, 9h—16h 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	cm.mf	offm	cmom	Kew 24 hours ended 7h. Max 0·9 Time 12-13h 26th; Min. 0·2 Time 0-1h 27th
Croydon ...	cmof	omof	ofcf	
Greenwich ...	om	om	omchw	
Camden Square	o	o	*	
Kensington ...	of	o	*	
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 %	Humidity 9h % To-day
Kew	37	34	32	-	-	0·0	*	*
Croydon ...	34	32	31	0·1	-	0·0	*	*
Greenwich ...	33	32	29	-	Tr	0·0	90	92
Westminster ..	37	34	33	-	-		89	93
Regents Park ...								
Camden Square	36	34	33	-	-	*	*	96
Kensington ...	36	33	32	-	-		90	90
Hampstead ...	34	31	29	-	-		*	98

Page 1 **SECRET**

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

BRITISH SECTION

Monday 28th December 1942

No. 29621.

OBSERVATIONS at 13h. G.M.T. Sunday 27th December.

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	29·1	-6	—	0	f	38	85	35	2	-	-	-	10	10	<150
	Croydon	29·6	-6	ESE	1	m	37	85	33	4	5	-	-	10	10	1000
	S. Farnborough	29·2	-8	—	0	cf	38	92	35	3	5	-	-	9+	9+	1300
	Boscombe Down	29·4	-4	ESE	1	z_0	38	97	38	5	5	-	-	10	10	1500
	Thorney Island	28·9	-4	NE	1	z_0	38	85	33	5	5	-	-	10	10	2500
	Lympne	29·2	-4	NE	2	z_0	37	85	32	6	5	-	-	9+	9+	1500
	Manston	28·9	-6	NE	1	z_0	39	75	33	6	5	-	-	9+	9+	1500
2	Shoeburyness	29·3	*	NNW	2	z_0	38	85	33	5	5	-	-	10	10	1500
	Felixstowe	30·0	+6	WNW	1	z_0	39	75	33	6	5	-	-	10	10	1500
	Gorleston	29·0	+6	—	0	z_0	39	75	31	6	5	-	-	9	9	1900
	Mildenhall	28·9	-6	SSW	1	d_0d_0	37	97	36	4	5	-	-	10	10	900
	Cranwell	28·1	-6	SSE	1	m	43	85	39	4	5	-	-	10	10	900
3	Birmingham	28·0	-4	SW	1	m	44	92	42	4	5	-	-	10	10	800
	Upper Heyford	28·7	-2	S	1	f	37	97	37	3	-	-	-	10	10	<150
4	Ross-on-Wye	28·1	-4	N	2	z_0	47	85	44	5	5	-	-	9+	9+	1000
5	Hartland Point	28·0	-4	WSW	3	c	48	86	44	8	5	-	-	9+	9+	2500
	Bristol	29·1	-6	—	0	m/f	45	97	44	4	5	-	-	10	10	800
	Portland Bill	28·5	+8	E	1	o	43	92	41	6	5	-	-	10	10	2500
	Plymouth	28·9	-6	NNW	2	z_0	48	92	43	5	5	-	-	9+	9+	2500
	The Lizard	28·9	-4	N	2	o	48	75	41	8	5	-	-	10	10	1500
	Scilly (St. Mary's)	28·8	-4	S	2	c	50	85	45	8	5	-	-	10	10	1200
	Guernsey															
6	Pembroke	28·3	-2	SW	4	d_0d_0	50	97	49	7	8	-	-	9+	9+	2500
7	Holyhead (Valley)	27·1	-4	S'W	3	dr	50	97	50	4	5	-	-	10	10	200
	Chester (Sealand)	27·4	-2	S	1	c	49	85	45	6	5	7	6	4-6	9+	3500
8	Manchester	27·6	-8	S	3	c-bc/d	46	92	44	5	5	-	-	7-8	7-8	2500
10	Spurn Head	28·1	0	SSE	1	z_0	43	92	40	5	7	1	-	7-8	9+	2500
	Catterick	27·6	-6	—	0	f-	41	97	41	2	-	-	-	10	10	<150
	Tynemouth	27·5	-4	NNW	1	o	46	75	39	6	5	-	-	9	9	3600
11	St. Abbs Head	26·3	0	W	1	c-bc	44	85	40	7	4	4	-	2-3	7-8	4000
	Leuchars	26·3	-2	WSW	1	bc	43	75	35	8	-	4	6	0	4-6	-
12	Renfrew (Abbots I.)	26·4	-6	—	0	bf	37	92	35	2	-	-	-	0	0	-
	Eskdalemuir	26·6	-8	—	0	bc	40	85	36	8	5	3	6	2-3	4-6	4500
	Point of Ayre	26·5	-26	ESE	2	c	48	85	44	8	5	7	-	1	9+	2500
13A	Tiree	25·2	-8	SSW	2	c/pr	47	75	41	9	8	3	-	4-6	9	2500
13B	Stornoway	23·1	-12	SSW	4	c	43	85	39	9	8	1	7	2-3	10	2200
15	Dalwhinnie	25·5	0	S	2	c-bc	38	92	35	8	5	3	-	2-3	7-8	2500
	Aberdeen	25·9	-2	—	0	bcft	41	85	36	5	-	3	8	0	4-6	-
	Wick	24·8	+2	SSW	3	c	40	85	35	9	-	7	-	0	9	-
16	Sumburgh	22·7	+6	W'N	4	c	45	75	38	9	8	7	8	4-6	9+	2500
17	Blacksod Point	24·6	-20	SSE	3	bc	46	88	42	8	5	3	6	2-3	4-6	4000
18	Malin Head	24·6	-14	S	1	c-bc	43	85	39	8	6	-	2	4-6	7-8	2500
	Aldergrove	26·7	-14	—	0	z_0	42	97	40	6	5	2	-	7-8	10	1800
19	Birr Castle	25·4	-2	SSW	1	id	46	97	46	7	5	-	-	10	10	1500
20	Valentia Obsy.	25·4	-10	SW	1	id_0	48	92	46	7	5	-	-	9+	9+	1500
	Roches Point	25·9	-8	S	1	dd	50	97	50	5	5	-	-	10	10	450

OBSERVATIONS at 18h. G.M.T. Sunday 27th December

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	28·8	-4	—	0	f	38	92	35	2	-	-	-	10	10	<150	1	•
Croydon	29·0	-2	—	0	f	38	92	36	2	-	-	-	10	10	<150	1	•
S. Farnborough	28·9	-4	WNW	1	of	38	85	35	3	5	-	-	10	10	1500	1	•
Boscombe Down	29·2	+2	—	0	id_0	38	92	36	4	5	-	-	10	10	1400	0	•
Thorney Island	28·7	-8	SE	1	z_0	38	92	36	5	5	-	-	10	10	1700	1	*
Lympne	29·0	+2	ENE	1	z_0	36	85	31	5	5	-	-	10	10	1000	1	3
Manston	28·9	+4	—	0	z_0	37	75	29	6	5	-	-	9+	9+	2000	1	•
Shoeburyness	28·8	+2	NW	2	ojf	37	85	33	6	6	-	-	10	10	1500	1	•
Felixstowe	28·7	+2	NNW	1	z_0	38	85	32	5	5	-	-	9+	9+	2100	0	0
Gorleston	28·6	-6	W'N	1	m	38	75	29	4	5	-	-	10	10	450	0	1
Mildenhall	28·4	-4	SSE	2	id_0	37	97	36	5	5	-	-	10	10	1100	1	•
Cranwell	27·8	0	S'W	2	f-	41	97	41	2	-	-	-	10	10	<150	1	•
Birmingham	27·8	0	—	0	m	44	85	40	4	5	-	-	10	10	800	1	•
Upper Heyford	28·5	-2	SSW	1	df	39	97	39	3	5	-	-	10	10	1300		•
Ross-on-Wye	27·7	0	E'S	1	m	45	92	43	4	5	-	-	10	10	800	1	•
Hartland Point	27·1	+2	SW	3	c	48	85	44	8	5	2	-	4-6	10	1500	1	3
Bristol	28·5	-2	—	0	of+	43	97	42	3	5	-	-	10	10	3000	1	•
Portland Bill	28·5	-6	E	2	c	43	85	38	6	5	-	-	10	10	2500	1	2
Plymouth	28·8	+2	—	0	z_0	49	92	46	5	5	-	-	10	10	2500	1	3
The Lizard	28·4	+2	NE'E	2	c	47	65	43	8	5	2	-	9	10	1500	0	3
Scilly (St. Mary's)	28·4	+2	SSE	2	c	48	85	43	8	5	-	-	10	10	1300	1	3
Guernsey																	
Pembroke	27·2	0	SW	4	d_0d_0	50	97	49	7	5	-	-	9+	9+	2500	1	3
Holyhead (Valley)	26·1	-2	S	4	d_0d_0	49	97	48	5	5	-	-	10	10	200	1	
Chester (Sealand)	26·6	-2	SSE	3	c	45	92	43	6	5	7	-	4-6	9+	2200	0	•
Manchester	27·0	-2	S	3	z_0	43	97	42	6	5	-	-	4-6	4-6	4000	1	•
Spurn Head	27·6	0	S	3	m	43	92	41	4	5	-	-	10	10	2500	0	1
Catterick	26·2	-6	S	1	oF+	43	97	43	0	-	-	-	10	10	<150	1	•
Tynemouth	26·0	-4	S	2	m	44	97	43	4	5	-	-	10	10	2500	1	2
St. Abbs Head	24·6	-4	SSE	2	bc	40	92	38	7	4	4	-	2-3	4-6	4000	0	2
Leuchars	24·0	-14	—	0	z_0	36	92	34	5	-	4	8	0	9+	-	1	•
Renfrew (Abbots I.)	23·8	-14	—	0	F	34	97	34	1	-	-	-	10	10	<150	1	•
Eskdalemuir	24·9	-10	—	0	o	37	85	34	8	5	-	-	10	10	3200	1	•
Point of Ayre	24·0	-10	S'W	3	c	47	97	47	8	8	-	-	9+	9+	1500	1	2
Tiree	20·6	-22	S	4	ir_0	46	75	37	8	8	2	-	1	10	2500	1	4
Stornoway	18·7	-26	S	6	ir	45	85	42	7	5	2	-	9	10	1500	1	*
Dalwhinnie	22·2	-10	S	3	c	39	85	33	8	5	1	-	7-8	9+	2500	1	
Aberdeen	23·5	-12	SSW	2	m	41	85	37	4	-	4	8	0	4-6	-	1	1
Wick	21·4	-20	SSW	2	bc	42	85	37	8	5	7	-	1	4-6	2000	1	•
Sumburgh	20·9	-14	WSW	4	c/pr	43	75	39	8	8	2	8	4-6	9	2500	1	3
Blacksod Point	20·9	-22	S	5	c	48	97	48	8	6	-	-	9	9	1500	1	4
Malin Head	20·6	-24	S	3	c	43	92	41	8	5	-	-	10	10	1500	2	2
Aldergrove	22·9	-18	SE'S	1	c/d	45	97	44	4	5	1	-	9	10	1500	1	•
Birr Castle	23·7	-2	SSW	1	id	47	97	47	7	5	-	-	10	10	1500	1	•
Valentia Obsy.	25·4	+4	S	3	c	45	85	41	9	5	3	-	2-3	9	4000	1	2
Roches Point	25·5	+2	WSW	3	c	48	92	46	8	5	-	-	9+	9+	1500	1	4

PAST 24 HOURS.

Stations	Weather 7h.—13h. 27th (39)	13h.—18h. 27th (40)	18h. 27th to 1h. 28th (41)	1h.—7h. 28th (42)
London (Kew)	moffw	offw	offcm₀	cid₀
Croydon	ofomcm	of	cmofid₀om	omcm
S. Farnborough	cf	cfof	cfofom₀	oidom₀
Boscombe Down	oFd₀cm₀	om₀dmd₀	oid₀mm₀	om₀ :om
Thorney Island	cmbcm	cm₀	cm₀	cm₀
Lympne	cm₀	cm₀	cm₀	cm₀
Manston	cm₀	cm₀	cz₀m₀	cm₀
Shoeburyness	cm₀bxcm₀	cm₀		cm₀
Felixstowe	cm₀	cm₀	om₀cmcm₀	cd₀d₀m
Gorleston	cm₀cz₀	cz₀m	cm₀z₀	cz₀z₀
Mildenhall	cm₀cmd₀d₀	cm₀d₀d₀id	cm₀cid₀m₀	cm₀id₀efcm
Cranwell	cm₀cm	cmof	fcmcid₀m	cd₀mcm₀
Birmingham	ofm	om	om	oz
Upper Heyford	of	ofid₀f	od₀d₀fef	
Ross-on-Wye	ofcm	czom	om	c
Hartland Point	c	c	cdoc	c
Bristol	od₀ffe	cm	ofcidom	ofomcm₀
Portland Bill	o	o	o	o
Plymouth	cmc	cm₀id₀m₀	cm₀	ccir₀m₀
The Lizard	oco	oc	co	ocdd
Scilly (St. Mary's)	c	c	c	cid
Guernsey				
Pembroke	cid₀f	cid₀	cddq	cqdd
Holyhead (Valley)	od₀d₀f	cd₀d₀mf	cdom₀	bcc
Chester (Sealand)	cm₀bc	bcm₀cm₀	cm₀	m₀c
Manchester	cid₀m	cbcm₀	cmm₀	cid₀m₀
Spurn Head	cm₀	om	om₀	cm₀
Catterick	oid₀F	cfoF	ofcm	cmcm₀
Tynemouth	cmc	com	ocm	cmc
St. Abbs Head	bc	cbbc	bccm₀	cm₀c
Leuchars	cbc	bccm₀	cm₀wcm	cddm₀c
Renfrew (Abbots I.)	bcfbf	bfcfbf₀F	ofdair₀	ddfr₀r₀
Eskdalemuir	bxbcv	bcvco	odrrm	or₀r₀
Point of Ayre	c	cd₀d₀bc	id₀bcc	cdd
Tiree	bccpr₀c	cpr₀c	cor₀r₀	odd
Stornoway	bcpr₀cjpc	c	cr₀r₀d₀d₀	cd₀d₀, cpr₀c
Dalwhinnie	bcc	c		cpr₀
Aberdeen	bxbczf	bcffz	bccz	czc
Wick	bcc	cbc	bccir₀cr₀	r₀ccid₀c
Sumburgh	bcpr₀c	cpr₀c	cbcc	r₀r₀r₀ir₀cm₀
Blacksod Point	bc	c	r	bc
Malin Head	bc	c	r	r
Aldergrove	bcmfgcm₀	cmd₀dcm	cm₀	cm₀d₀d₀d₀cm₀
Birr Castle	d	d	*	c
Valentia Obsy.	d	d	bc	r
Roches Point	d	d	bc	c

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 28th December

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	Moderate or fresh southwesterly winds, veering west; cloudy with local rain at first; bright intervals later with showers in western districts: rather cold.
8 N.W. England; 9 N. Midlands; 10 N.E. England	Fresh to strong westerly winds, veering northwest later; cloudy with local rain early, then bright intervals and showers: rather cold.
11 S.E. Scotland ↓; 12 S.W. Scotland & Isle of Man ↓	Fresh to strong westerly winds, veering northwest later; bright intervals and showers: rather cold to cold.
13A W. Scotland ↓; 13B N.W. Scotland ↓; 14 Mid Scotland; 15 N.E. Scotland ↓	Strong to gale westerly winds, veering northwest to north later; showers of rain and hail at first, snow showers later: rather cold to cold, becoming very cold in the North.
16 Orkneys and Shetlands ↓	As 13A-15.
17 N. W. Ireland; 18 N. E. Ireland ↓; 19 S. E. Ireland; 20 S. W. Ireland	Moderate to fresh westerly winds, freshening and veering northwest; bright intervals and showers: rather cold.

GENERAL INFERENCE

A deepening depression near the Faeroes is moving east; an associated trough across Scotland and Ireland will move southeast and clear the British Isles early to-morrow. A secondary trough will move south across Scotland, Northern Ireland and Northern England during to-night and to-morrow morning; pressure is high to the south of the British Isles. Weather will be cloudy at first in England and Wales with rain at times but fair intervals and showers later: rather cold. Showery conditions will prevail in Scotland and Northern Ireland, with snow showers spreading south over Northern and Central Scotland to-night; there will be westerly gales veering northwest later in northern districts; rather cold, becoming very cold in extreme North.

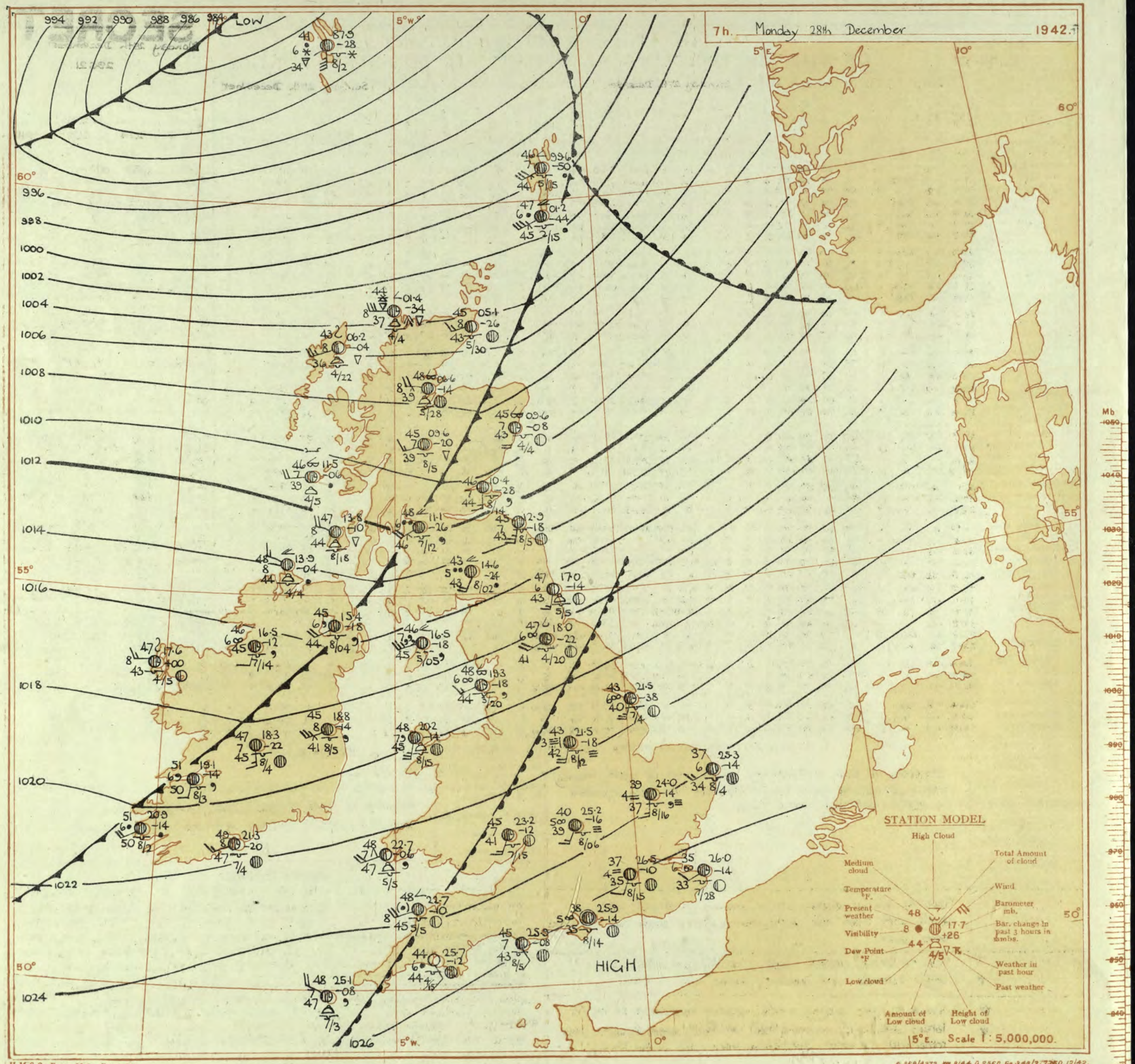
FURTHER OUTLOOK

North to northwest winds, with wintry showers in North and Northwest; cold.

↓ Warning of southerly gale in operation in districts, 11, 12, 13, 15, 16 & 18. Times of issue 1920 27th December and 0217 28th December 1942.

Forecasts issued at 1030.

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



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

6.369/4372. m.9144. 0.2560. 6p.349/2/7750.12/42.

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).

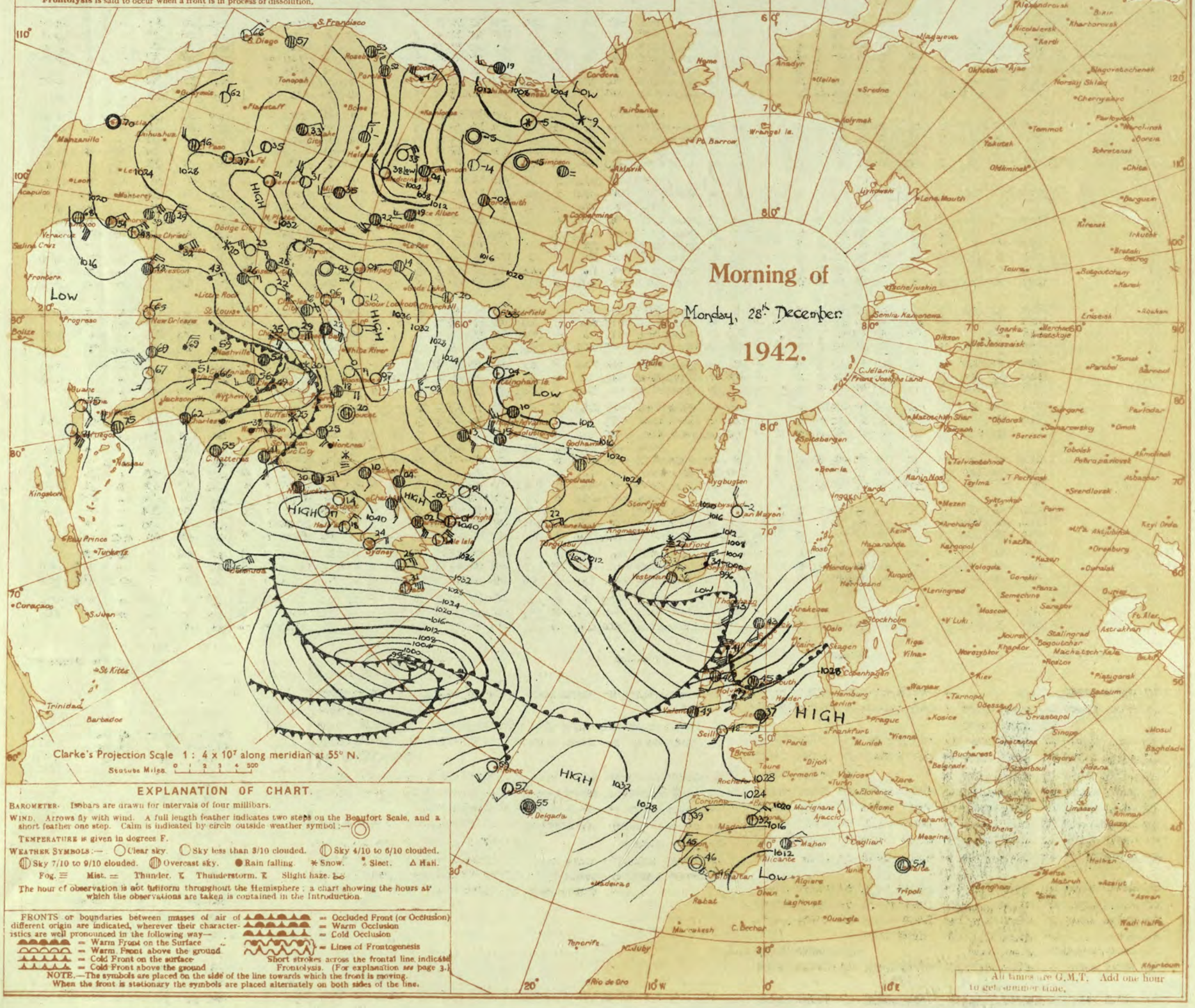
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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 28th December, 1942

No. 29621

OBSERVATIONS at 1 hr. G.M.T. 28th December,

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	28·0	-12	S'W	1	m	37	92	35	4	5	-	-	10	10	1200
	S. Farnborough	226	27·4	-16	SSE	2	zo	37	92	35	5	5	-	-	10	10	1700
	Boscombe Down	417	27·9	-10	S'W	1	zo	39	97	37	5	5	-	-	10	10	1200
	Thorney Island	10	27·8	-12	E	2	zo	37	85	33	5	5	-	-	10	10	1400
	Lympne	283	28·1	-10	NW	1	zo	46	85	43	6	5	-	-	10	10	1800
	Manston	154	27·8	-10	-	0	zo	37	85	34	6	5	-	-	10	10	2100
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	27·7	-10	SW'S	2	zo	39	85	33	5	5	-	-	9+	9+	1900
	Gorleston	5	27·6	-10	SSW	2	zo	37	75	30	6	5	-	-	10	10	1500
	Mildenhall	15	26·9	-14	S	2	°/d	38	92	37	5	5	-	-	10	10	800
	Cranwell	203	25·8	-16	S	3	ido	42	92	41	4	5	-	-	10	10	1400
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	27·4	-10	SW	1	f	40	97	40	2	-	-	-	10	10	<150
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	26·5	-8	SSW	3	c	47	85	42	8	4	7	-	4-6	9	1500
	Bristol	209	27·2	-6	S	2	of+	44	97	44	3	5	-	-	10	10	600
	Portland Bill	32	27·5	-12	E	1	o	41	92	39	6	5	-	-	10	10	2500
	Plymouth	82	28·1	-6	WNW	3	zo	47	92	45	6	5	2	-	7·8	10	2500
	The Lizard	240	27·6	-10	SW	2	o	47	85	43	8	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	27·5	-6	SSW	3	c	48	85	45	8	5	-	-	10	10	1200
	Guernsey	175															
6	Pembroke	142	25·4	-10	SSW	5	dd	49	97	49	7	5	-	-	9	9	2500
7	Holyhead (Valley)	32	23·2	-14	SSW	4	dodo	49	97	48	6	5	7	-	7·8	10	700
	Chester (Sealand)	16	23·7	-18	-	0	PR	43	92	41	6	5	3	-	2-3	9	4000
8	Manchester	235	24·2	-18	S'E	4	zo	45	85	42	6	5	3	-	7·8	10	4700
10	Spurn Head	29	25·4	-18	SSW	4	zo	42	92	40	5	5	-	-	10	10	2500
	Catterick	175	22·9	-20	SSE	2	m	43	97	42	4	5	3	-	4-6	9	2500
	Tynemouth	108	21·4	-20	SSW	5	m	45	92	42	4	5	-	-	9	9	2500
11	St. Abbs Head	280	17·4	-34	S	4	zo	43	97	43	6	5	-	-	10	10	2500
	Leuchars	36	16·5	-38	-	0	dd	40	97	40	5	5	-	-	10	10	1000
12	Renfrew (Abbots I.)	19	17·1	-28	SW'S	3	iro	47	85	43	4	5	7	-	7·8	10	1400
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	20·4	-18	W'S	4	c	50	92	48	8	6	2	-	9	9+	1500
13A	Tiree	44	12·7	-34	SSW	6	roro	47	97	47	7	6	2	-	7·8	10	1500
13B	Stornoway	15	07·2	-54	S	8	dodo	46	97	45	6	5	-	-	10	10	900
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	14·6	-50	S'W	3	iro	40	97	39	7	5	7	-	9	10	1200
	Wick	114	12·4	-44	S'W	4	roro	44	85	39	8	5	2	-	4-6	10	2000
16	Sumburgh	19	11·3	-58	SSW	5	c	45	85	41	8	5	7	-	2-3	10	2000
17	Blacksod Point	18	17·4	-14	S	6	roro	50	97	50	6	6	2	-	4·6	10	800
18	Malin Head	84	15·1	-22	S'W	4	c/f	46	85	42	8	8	2	-	7-8	10	1500
	Aldergrove	268	19·7	-14	S	3	zo	45	85	41	6	5	-	-	10	10	1300
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	23·9	-10	SSW	4	c	49	85	45	8	5	-	-	10	10	2500
	Roches Point	22	24·7	-8	W'N	3	bc	45	85	41	8	5	2	-	1	4·6	2500

OBSERVATIONS at 7 hr. G.M.T. 28th December, / PAST 24 HOURS.

Stations	Barom at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	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 27th Hrs. (38)
London (Kew)	25·5	-12	SSW	2	ido	39	92	36	5	5	-	-	10	10	1500	1	*	39	37	36	-	Tr	0·0
Croydon	26·5	-10	SSW	2	m	37	92	35	4	5	-	-	10	10	1500	1	*	38	35	35	-	Tr	0·0
S. Farnborough	25·9	-14	S'W	2	zo	38	92	35	5	5	-	-	10	10	1100	1	*	39	37	37	-	Tr	0·0
Boscombe Down	25·9	-10	S'E	3	zo	39	97	38	4	5	-	-	10	10	800	0	*	38	38	37	-	-	0·0
Thorney Island	25·9	-14	-	0	zo	38	92	35	5	5	-	-	10	10	1400	1	*	39	37	37	-	-	*
Lympne	26·6	-10	SSE	1	zo	37	85	33	5	5	-	-	9+	9+	2000	1	2§	38	35	34	-	-	0·0
Manston	26·0	-14	SW'S	2	zo	35	85	33	6	5	-	-	9+	9+	2800	1	*	39	34	35	-	-	0·0
Shoeburyness	25·9	-16	SW	3	zo	38	85	34	6	5	-	-	10	10	1500	1	*	39	36	34	-	-	0·0
Felixstowe	25·5	-14	SW'S	3	zo	39	85	35	5	5	-	-	10	10	1200	1	1	39	37	35	-	0·3	0·0
Gorleston	25·3	-14	SW	3	c	37	85	34	6	5	-	-	10	10	1500	0	2	39	37	35	-	-	0·4
Mildenhall	24·0	-14	S'W	3	m/f	39	92	37	4	5	-	-	10	10	1600	1	*	37	37	36	Tr	Tr	0·0
Cranwell	21·6	-20	SSW	5	zo	43	97	41	5	5	3	-	4-6	9	2000	1	*	43	41	38	Tr	-	0·0
Birmingham	22·5	-12	SSW	3	zo	43	92	41	5	5	-	-	10	10	800	1	*	45	42	41	-	-	0·0
Upper Heyford	25·2	-16	SSW	3	zo	40	97	39	5	5	-	-	10	10	600	1	*	39	39	38	0·1	0·1	*
Ross-on-Wye	23·2	-12	SSW	3	c	45	85	44	7	5	-	-	9+	9+	1500	1	*	47	44	42	-	-	0·1
Hartland Point	22·7	-10	WSW	4	c/jp	48	85	45	8	5	1	-	7-8	10	2500	1	3	48	46	44	-	Tr	0·0
Bristol	25·2	-10	SSW	2	m	44	92	42	4	5	-	-	10	10	2500	1	*	45	42	41	Tr	Tr	0·0
Portland Bill	25·9	-8	SE	2	o	45	92	43	7	5	-	-	10	10	2500	1	2	43	38	*	-	-	*
Plymouth	25·7	-12	SE	2	iro	44	97	44	6	5	2	-	4-6	10	1500	1	1	48	43	36	Tr	-	0·0
The Lizard	25·1	-10	SW	4	dodo	48	97	48	7	5	-	-	10	10	1000	1	4	48	46	*	-	Tr	0·0
Scilly (St. Mary's)	25·1	-8	W'N	4	c/d	48	97	47	7	8	-	-	9+	9+	800	1	4	51	47	*	-	1	0·0
Guernsey																							
Pembroke	22·7	-6	W'S	4	cbcq	48	97	47	7	8	-	-	7-8	7-8	2500	1	3	50	*	*	2	4	0·0
Holyhead (Valley)	20·2	-14	SSW	5	ido	48	85	45	7	8	-	-	10	10	1500	1	4	51	47	43	2	1	*
Chester (Sealand)	19·8	-16	S	1	cbc	48	85	44	6	5	3	-	4-6	7·8	2000	1	*	49	43	39	-	-	0·7
Manchester	20·3	-18	SSE	4	°/d	46	92	44	5	5	-	-	10	10	1900	1	*	49	43	40	0·1	Tr	0·0
Spurn Head	21·5	-38	SSW	5	zo	43	92	40	6	5	-	-	9+	9+	1500	0	3	44	40	*	-	-	0·5
Catterick	18·0	-22	SW	4	zo	47	75	41	6	5	4	-	4-6	9	2000	1	*	43	43	40	-	-	0·0
Tynemouth	17·0	-14	SSW	3	cbc	47	85	43	6	8	-	-	7-8	7-8	2500	1	3	47	44	42	-	-	*
St. Abbs Head	12·9	-18	SSW	5	c	45	92	43	7	5	-	-	10	10	2500	0	5	46	40	*	-	Tr	*
Leuchars	10·4	-28	S	3	c	46	92	44	7	5	-	-	10	10	1400	1	*	45	35	31	-	0·1	4·5
Renfrew (Abbots I.)	11·1	-26	SW	4	roro	48	92	46	6	5	2	-	9+	10	1200	1	*	38	34	34	-	2	0·0
Eskdalemuir	14·6	-24	SSW	4	roro	43	97	43	5	-	2	-	10	10	200	1	*	43	37	37	-	4	4·9
Point of Ayre	16·5	-18	W'S	5	dd	46	97	45	7	6	2	-	7-8	10	1000	1	4	48	45	*	0·6	1	0·0
Tiree	11·5	-6	W	6	c	46	75	39	7	2	7	7	4-6	9+	2500	1	4	47	45	43	1	5	1·1
Stornoway	06·2	-4	WSW	5	cbc	43	75	36	8	8	-	6	4-6	7·8	2200	1	*	46	42	39	Tr	2	0·0
Dalwhinnie	09·6	-20	WSW	3	o	45	75	39	7	5	-	-	10	10	2500	1	*	40	37	34	-	0·2	0·3
Aberdeen †	09·6	-8	SSW	4	c	45	92	43	7	5	7	-	4-6	9+	1500	1	2	44	38	34	-	-	2·6
Wick	05·1	-26	W'S	3	cbc	45	92	43	8	5	-	-	7-8	7-8	3000	1	*	42	41	40	-	1	*
Sumburgh	01·2	-44	SW	7	iro	47	92	45	6	5	2	-	1	10	1500	1	4	46	43	40	0·2	1	*
Blacksod Point	17·6	0	W	3	c	47	85	43	8	5	-	6	4-6	9	2500	2	3	49	46	*	0·1	2	*
Malin Head	13·9	-4	W'N	3	c	48	85	44	8	8	2	-	4-6	10	1500	2	3	46	41	*	-	0·6	2·6
Aldergrove	15·4	-18	SW	4	ido	45	97	44	6	5	-	-	10	10	3000	1	*	45	44	42	0·3	0·3	0·0
Birr Castle	18·3	-22	S	3	c	47	92	45	7	5	-	-	10	10	1500	1	*	48	41	39	0·3	0·1	0·0
Valentia Obsy.	20·9	-14	SW'W	4	iro	51	97	51	6	5	-	-	10	10	450	1	3	50	44	40	0·2	1	1·5
Roches Point	21·3	-20	WSW	3	c	49	92	47	8	5	-	-	9+	9+	1500	*	4	51	46	*	1	-	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 27th Dec: $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 28th Dec: $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
109	87	02854	22287				5-	64658	49568	5-	02755	35665
115	52	81734	53488	52	02845	20488	41	61844	16467	81	87844	91687
203				8-	81947	16427						
206	57	02861	24217	57	02863	16128	57	22953	20367	87	02865	57428
210	05	02990	21127	57	02863	14227	57	02854	18467	53	02854	20327
220	83	02855	16216	62	64445	13428				83	02655	22516
230	8-	01853	00017	52	02855	00026	62	64745	18368	87	27965	18488
245	53	01961	22123	00	01790	24113	52	21645	20258	57	61646	18428
260	00	01780	00023	03	05680	28116	5-	02766	00026	52	02755	53427
278	87	17657	13217	02	21738	14358	52	02857	51358	52	22735	20468
279	63	02745	31127	02	52438	00058	5-	59528	19648	62	62538	20668
285												
288	5-	43348	20158	00	47190	16140	52	08454	15528	57	05655	17426
575	00	47190	00040	5-	08448	00058	5-	0284-	16428	5-	05647	18257
301	5-	47338	16248	52	05546	17358	5-	21548	16328	57	05653	23356
321	5-	08646	17246	5-	45358	16248	5-	43348	17248			
299	5-	08448	22228	5-	47148	22148				5-	05658	22328
292	57	45346	20158	--.	46209	14259	53	08443	14247	53	08444	14225
310												
614	5-	43347	24247	5-	45418	20148	5-	47248	18258	5-	45338	20428

III	13h. G.M.T. 27th Dec: $C_L C_M$	wwVhNh	DDFWN	18h. G.M.T. $C_L C_M$	wwVhNh	DDFWN	01h. G.M.T. 28th Dec: $C_L C_M$	wwVhNh	DDFWN	07h. G.M.T. $C_L C_M$	wwVhNh	DDFWN
333	5-	51727	17257	5-	52528	16258	5-	54428	16458	53	02844	18357
334										--	02713	24314
340	5-	05658	22128	5-	05648	16128	53	02545	17327	5-	52638	17358
136	5-	52526	18258	5-	21448	16258	5-	52428	18258	5-	08438	18258
336										54	01753	20414
350	--	47309	20149	5-	51348	18158	5-	45348	18158	5-	45457	18347
368	62	57235	00058	02	57218	00057	5-	41458	00058	57	02645	18328
370	--	48109	20159	--	46109	16149	5-	43308	20348			
390	5-	05558	0--48	5-	57358	00058	5-	57228	16158	--	44309	18159
382	5-	08448	12158				5-	47248	00048	5-	08468	22248
438	52	02537	32328	5-	03518	32328	5-	03538	00028	52	02737	20228
430	5-	08458	02128	5-	05548	18128	57	05544	00028	5-	05548	00028
409				5-	52538	18258	52	02755	17128	51	51746	18257

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 28th December, 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	moffw	offw	offcmoido
Croydon	ofomcm	of	cmoofidocm
Greenwich	om	om	om
Camden Square	o	o	*
Kensington	of	of	*
Hampstead	of	of	

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

Stations	Temperature Day Max °F	Temperature Night Min °F	Min on grass °F	Rainfall Day mm	Rainfall Night mm	Sunshine to sunset hrs Yesterday	Humidity 15h % Yesterday	Humidity 9h % To-day
Kew	39	37	36	-	Tr	0·0	*	*
Croydon	38	35	35	-	Tr	0·0	*	*
Greenwich	39	37	36	-	-	0·0	85	88
Westminster	40	36	35		-		81	88
Regents Park	40	38	37	-	Tr		77	91
Camden Square	38	35	35	-	-	*	*	91
Kensington	39	35	33	-	Tr		93	95
Hampstead	38	34	31	-	-		*	95

Page 1

SECRET

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

Tuesday 29th December 1942

No. 29622

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	21·4	-32	SSW	3	z0	42	85	38	5	5	-	-	10	10	1500
	Croydon	22·9	-6	S'E	3	m	41	92	39	4	5	-	-	10	10	1800
	S. Farnborough	21·8	-30	SSW	3	z0	43	92	40	6	5	7	-	9	10	1000
	Boscombe Down	22·3	-26	S'W	4	d0d0	45	97	45	3	-	-	-	10	10	<150
	Thorney Island	22·5	-28	SSW	3	z0	46	88	43	6	5	-	-	10	10	1500
	Lympne	23·2	-28	SW	2	d0d0	40	97	40	3	5	-	-	10	10	100
	Manston	22·3	-30	SW'W	3	z0	41	92	39	5	5	-	-	10	10	500
2	Shoeburyness	22·1	-26	SW	2	z0	41	85	38	6	5	-	-	10	10	2500
	Felixstowe	21·7	-30	SW'S	4	z0	41	85	37	5	5	-	-	10	10	2500
	Gorleston	20·9	-30	SW'S	4	z0	40	85	35	6	5	-	-	10	10	800
	Mildenhall	19·8	-30	SW'S	4	z0	43	85	39	5	5	-	-	4-6	9+	3000
	Cranwell	16·4	-36	SW	6	z0	47	85	44	6	5	-	2	4-6	9+	300
3	Birmingham	18·3	-30	SSW	4	o	45	92	43	6	5	-	-	10	10	800
	Upper Heyford	20·4	-14	SW	3	d0d0	43	97	42	4	5	-	-	10	10	400
4	Ross-on-Wye	19·0	-26	SW	4	c	48	85	44	7	5	5	-	7-8	9	1500
5	Hartland Point	20·3	-16	W	4	c/p	48	85	43	8	5	-	-	9+	9+	1400
	Bristol	21·3	-28	SSW	3	d0d0	48	92	46	6	5	3	-	9	9+	1500
	Portland Bill	22·0	-20	SSW	4	c-bc	49	92	47	7	7	-	-	7-8	7-8	2500
	Plymouth	22·6	-18	W'S	3	c	49	92	47	7	7	7	-	7-8	9	2000
	The Lizard	22·0	-20	WSW	4	p+	49	92	47	7	8	6	-	7-8	7-8	2000
	Scilly (St. Mary's)	22·9	-18	WSW	4	id0	48	92	46	6	5	-	-	10	10	500
	Guernsey															
6	Pembroke	19·3	-20	SW'W	6	d0d0	50	97	50	7	5	-	-	10	10	2500
7	Holyhead (Valley)	16·8	-14	SW'W	6	c	49	92	47	8	8	7	-	9+	10	1500
	Chester (Sealand)	16·1	-24	SW	3	c	51	75	42	7	8	7	6	4-6	9+	3000
8	Manchester	16·0	-26	SSW	4	c/d	48	85	44	8	5	7	-	7-8	9+	2000
10	Spurn Head	16·1	-34	SW	4	c	46	85	43	7	5	2	-	4-6	10	1000
	Catterick	13·5	-8	S	3	+f	46	92	44	3	5	2	-	7-8	10	1000
	Tynemouth	12·2	-22	SW	3	bc	49	85	45	6	8	3	-	4-6	4-6	2800
11	St. Abbs Head	08·8	-22	WSW	4	c	47	75	40	7	5	4	-	7-8	9	2000
	Leuchars	06·5	-28	WSW	5	c	47	75	39	7	5	7	2	2-3	9	2500
12	Renfrew (Abbots I.)	09·5	+18	W'S	5	c	45	75	38	8	8	3	3	7-8	9	1500
	Eskdalemuir	09·2	-34	WSW	6	c	44	75	38	7	5	-	-	9+	10	2200
	Point of Ayre	13·6	-14	WNW	5	c	48	85	44	8	8	7	-	4-6	9+	2500
13A	Tiree	08·4	-22	W'N	6	bc/pt	44	65	32	8	3	6	1	4-6	4-6	2500
13B	Stornoway	00·4	-38	WSW	7	b-bc/ph	42	75	34	8	3	-	-	2-3	2-3	1800
15	Dalwhinnie	06·8	-20	SW	3	c	38	85	33	7	5	3	-	4-6	9+	2500
	Aberdeen	04·9	-26	SW	3	c-bc	47	65	38	8	5	3	3	2-3	7-8	2500
	Wick	02·0	-38	SW	6	c/pr	40	85	37	8	8	7	-	7-8	9	3000
16	Sumburgh	96·4	-36	SW	8	c/pt	45	75	39	8	2	7	-	4-6	9+	1500
17	Blacksod Point	17·4	-4	WNW	5	c	44	85	40	8	9	-	-	10	10	1500
18	Malin Head	11·2	-18	NW	7	i+	44	65	34	8	8	2	-	7-8	10	1500
	Aldergrove	13·8	-14	WSW	4	ir0	45	85	41	8	5	2	-	9	9+	1000
19	Birr Castle	17·9	-10	WNW	3	c	48	85	44	8	5	-	5	4-6	9	2500
20	Valentia Obsy.	21·7	-2	NW'W	4	c/pr	49	75	45	8	8	-	-	9+	9+	2500
	Roches Point	19·3	-17	NW	4	it0	49	92	47	8	6	2	-	4-6	9+	800

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	16·7	-24	SSW	3	z0	45	92	43	5	5	-	-	10	10	1500	1	*
Croydon	17·8	-26	SSW	3	id0	46	97	45	4	5	-	-	10	10	800	1	*
S. Farnborough	17·4	-18	SW'S	3	id0	47	92	45	5	5	-	-	10	10	1500	1	*
Boscombe Down	17·9	-22	SW'S	3	z0	46	97	45	6	7	3	-	7-8	10	900	1	*
Thorney Island	18·4	-14	SSW	4	d0d0	47	92	46	5	5	2	-	7-8	10	1500	1	*
Lympne	18·8	-30	SW	3	df	42	97	42	3	5	-	-	10	10	100	1	4
Manston	18·4	-26	SW	4	m	43	97	43	4	5	-	-	10	10	500	1	*
Shoeburyness	18·4	-26	SW	4	z0	44	92	42	5	5	-	-	10	10	2500	1	*
Felixstowe	18·2	-22	SW'S	4	z0	43	92	41	5	5	-	-	10	10	2500	0	4
Gorleston	15·6	-22	SW'S	4	z0	42	85	37	6	5	-	-	10	10	800	0	3
Mildenhall	15·1	-28	SSW	4	c/+	45	92	42	5	5	-	-	10	10	2800	1	*
Cranwell	12·7	-22	SW	5	ir0	47	92	45	5	5	-	-	9+	9+	800	1	*
Birmingham	14·3	-24	SSW	2	i+0	46	92	44	6	6	-	-	10	10	800	1	*
Upper Heyford	16·0	-20	SW'W	3	z0	45	97	43	6	5	-	-	4-6	10	1300	1	*
Ross-on-Wye	14·9	-20	SW'S	4	id0	47	92	45	6	5	1	-	9	10	1000	1	*
Hartland Point	16·1	-20	W	5	dd	50	97	50	9	5	2	-	9	10	450	1	4
Bristol	16·9	-2[illegible]	SW	3	+0+0	46	97	46	4	-	2	-	[illegible]	10	•	1	*
Portland Bill	17·4	-18	SW	4	c	49	85	46	7	5	-	-	10	10	4000	1	3
Plymouth	18·9	-22	WSW	4	d0d0	49	97	49	5	-	-	-	10	10	800	1	3
The Lizard	18·9	-16	W	5	++	50	97	50	4	5	-	-	10	10	800	1	5
Scilly (St. Mary's)	19·4	-16	WNW	5	c/d	51	97	51	6	5	-	-	10	10	1000	1	4
Guernsey																	
Pembroke	17·0	-4	NW'W	6	c-bcq	49	75	40	8	8	-	-	7-8	7-8	2500	1	3
Holyhead (Valley)	14·9	-6	NW	6	c	46	75	39	8	8	4	6	7-8	9+	1500	1	4
Chester (Sealand)	13·6	-10	WNW	4	iD	47	75	41	6	5	2	-	4-6	10	1000	1	*
Manchester	13·2	-6	W'S	4	c-bc/d	46	85	40	6	5	7	-	2-3	7-8	1500	1	*
Spurn Head	12·4	-16	SW'W	4	+0+0	46	92	44	6	5	2	-	7-8	10	800	1	3
Catterick	10·4	-10	SW	3	c	45	85	40	7	5	3	2	4-6	9+	2500	1	*
Tynemouth	09·8	-6	WSW	5	c-bc/pr	45	85	40	6	8	-	-	7-8	7-8	2500	1	3
St. Abbs Head	04·6	-22	WSW	5	b-bc	42	75	36	7	5	-	-	2-3	2-3	2500	0	4
Leuchars	04·1	-14	WSW	4	bc	39	85	33	8	-	4	-	0	1	-	1	*
Renfrew (Abbots I.)	07·6	-8	W'S	4	pr	40	97	39	7	9	-	-	7-8	7-8	1400	1	*
Eskdalemuir	09·0	+2	WSW	4	PR	39	85	34	7	8	-	-	10	10	700	1	*
Point of Ayre	11·6	-6	NW'W	6	c	45	75	39	8	8	1	-	4-6	9+	2000	1	5
Tiree	06·2	-10	W'S	7	pr	44	65	34	7	3	6	-	7-8	9+	1500	1	5
Stornoway	99·1	+10	NW	8	pr	40	85	36	6	9	7	-	9	10	800	1	
Dalwhinnie		-18	WSW	4	p+S	37	75	29	7	5	1	-	7-8	10	2500	1	*
Aberdeen	99·9	-34	WSW	4	b	41	65	28	8	-	-	-	0	0	-	1	2
Wick	92·7	-40	SW	8	ir0	37	75	30	8	5	-	-	4-6	4-6	2000	1	*
Sumburgh	86·9	-66	SW'S	9	p+	43	85	38	7	9	-	-	9+	9+	1500	1	5
Blacksod Point	16·3	-6	WNW	6	bc	44	75	37	8	9	-	-	4-6	4-6	2500	1	5
Malin Head	09·8	-4	W'N	7	bc/ph	44	65	33	8	9	-	-	4-6	4-6	1500	2	5
Aldergrove	12·1	-10	W	4	b-bc	40	85	35	8	5	-	-	2-3	2-3	1800	1	*
Birr Castle	17·6	-2	NW	2	b-bc	41	85	37	8	-	4	-	0	2-3	-	1	*
Valentia Obsy.	22·2	+2	NW	5	bc/p+	47	65	36	8	2	3	-	2-3	4-6	2500	1	4
Roches Point	20·0	+12	NNW	5	c-bc/pr	46	85	42	8	3	-	5	4-6	7-8	1500	1	4

PAST 24 HOURS. — WEATHER.

Stations	7h.—13h. 28th (39)	13h.—18h. 28th (40)	18h. 28th to 1h. 29th (41)	1h.—7h. 29th (42)
London (Kew)	id0cm0	cd0cm0	cr0rr0c	cm0
Croydon	ccm0cm0	cm0cmid0	cmir0cr0r0cm	cmbmcm0
S. Farnborough	bcm0	cid0m0	crdrm0bcc	cb0cbc
Boscombe Down	bF[illegible]0	cd0d0m0cm0	cd0d0m0cm0	bcm0bc
Thorney Island	cmdcm0	cid0d0d0	dDrrc	bcbbm0
Lympne	cm0id0	bFd0fd0	bfrrddrr	frrcbm
Manston	bm0	bm0d0d0m	bmddiR	cmRRbm0
Shoeburyness	bm0cm0	cm0	bm0rr	rrcm0
Felixstowe	cm0	cm0	cm0cr0r0mcir	cir0mbcmbc
Gorleston	cz0	c[illegible]	cr0r0	cbc
Mildenhall	cm0	cm0ir0cm0	cm0cmrcc	cbbc
Cranwell	bccm0	cm0id0cm0	cir0bm0	bcbm0
Birmingham	co	oid0	crc	c
Upper Heyford	cm0mdF	d0d0mcm0	cr0rm0bcm0	p
Ross-on-Wye	c	ccp0c	d0p0bc	bcb
Hartland Point	cidid0	cid0ddcm0	cbc	cPrbc
Bristol	cmd0d0m0	cd0dcid0	b,cprm0jb	bcm0bc
Portland Bill	c	c	c	cc
Plymouth	cm0d0d0c	cmd0m0	cd0d0bcp	bccpr0
The Lizard	bccpr	odd++	prcbc	cprbc
Scilly (St. Mary's)	cid0	id0oddc	cbccp0	bcp0qbc
Guernsey				
Pembroke	cid0m	DDmqc	bccq	cbc
Holyhead (Valley)	c	cpr0c	cbc	bccbc
Chester (Sealand)	cm0c	cid0bm0z0	iDr0bc	pr0yc
Manchester	cm0id0	cd0d0m	irpr0	bcpr0
Spurn Head	c	cm0+0+0	bc	bc
Catterick	cm0+f	cfi+0m0c	bbcc	cp0
Tynemouth	cbc	bcor0+0cp	cbc	fccprbc
St. Abbs Head	cdc	cbc	bcbbc	cbc
Leuchars	cod0dc	cbcb	b,ir0	c,bc,b
Renfrew (Abbots I.)	bprc	cpr0cpr	cprpr0bcq	bcbbc
Eskdalemuir	br0++c	cp+cPR	cPr	bbc
Point of Ayre	ddid0c	cpr0c	bpr0c	prbcb
Tiree	cpr0bc	bcpscpr	prqbcps0	pshpshps0q
Stornoway	cbccp0hbc	cph0pr0m0	cyprcphph0	cphbc
Dalwhinnie	opbc	cp+So	*	oisc
Aberdeen	cz0bc	bccbcb		cprspsbcq
Wick	cprc	bcc[illegible]	crrr0r0	cps0cjp
Sumburgh	cp+hmc	cothp+	bccmoir0	cps0c
Blacksod Point	c	p+	pr	pr
Malin Head	+	p+	pr	pr
Aldergrove	id0gir0	ir0cpr0cbc	bccPRbc	bbcpr0cprs
Birr Castle	p+	bc	*	bc
Valentia Obsy.	pr	pr	pr	pr
Roches Point	+	pr	pr	bc

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 29th December 1942

Districts	Forecast
1 S.E. England; 2 E. England; 3 E. Midlands; 4 W. Midlands ↑; 5 S.W. England; 6 South Wales ↑	Moderate to fresh northerly winds, decreasing slowly; partly cloudy; showers in coastal areas; very cold, with 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 ↑; 13A W. Scotland ↑; 13B N.W. Scotland; 14 Mid Scotland; 15 N.E. Scotland ↑	Fresh to strong northerly winds, with gales on coasts, moderating. Partly cloudy, with showers of hail and snow, especially in north and east; appreciable clearances tonight to lee of high ground; very cold, with frost locally in north by day, and generally tonight
16 Orkneys and Shetlands ↑; 17 N. W. Ireland ↑; 18 N. E. Ireland ↑	As 7-15.
19 S. E. Ireland ↑; 20 S. W. Ireland	As 0-6.

GENERAL INFERENCE

A deep depression over North Sea and an anticyclone off Southwest Iceland are moving southeast; cold northerly winds will prevail, strong to gale in north at first; there will be bright intervals in all districts, with showers in south, and snow showers in north, more especially in northeastern districts; very cold, with frost in all areas tonight

FURTHER OUTLOOK

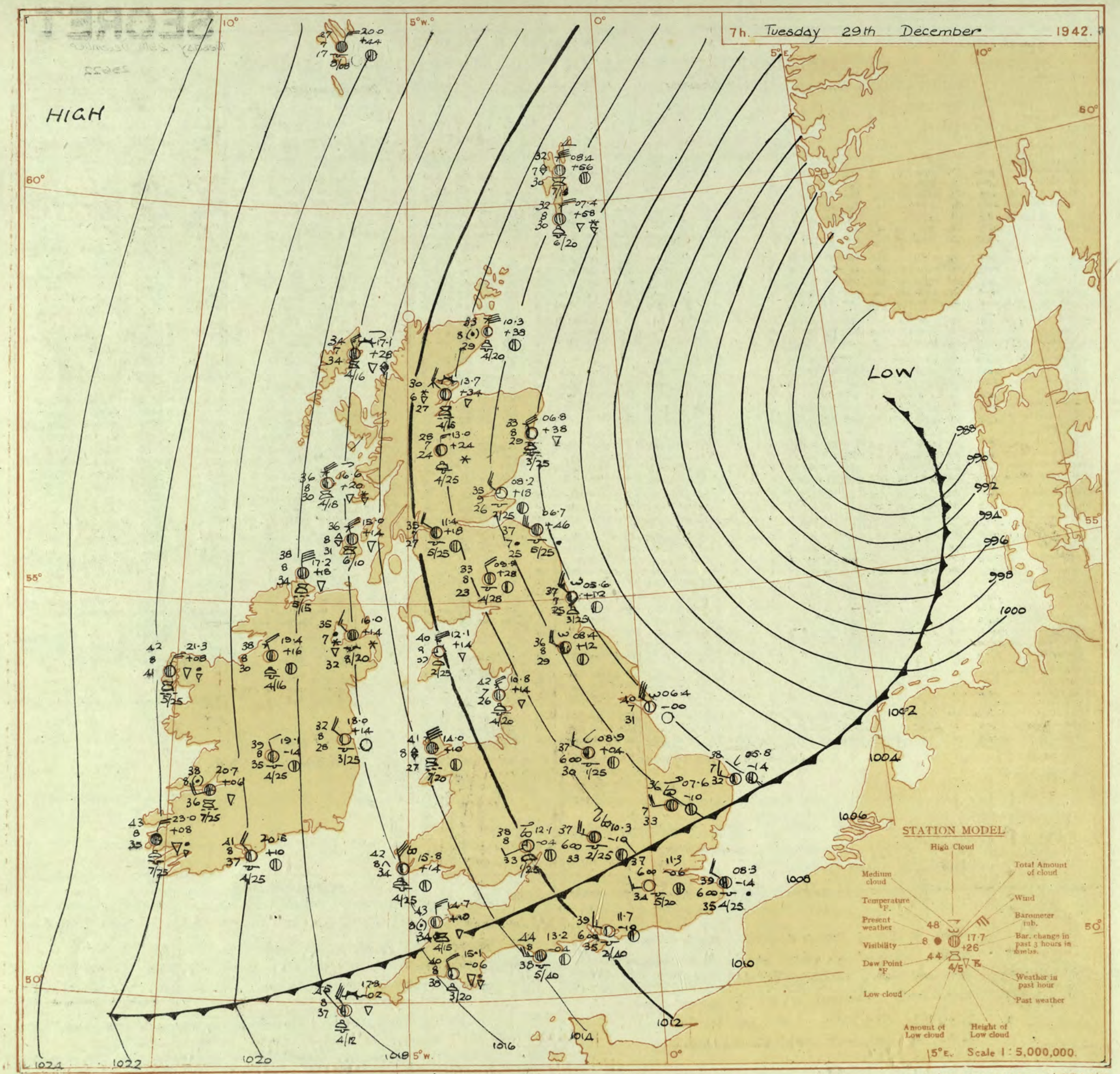
Fair in western districts; wintry showers in eastern districts; cold generally but tending to become warmer in the northwest.

↑ Gale warning in operation in districts 4, 6, 7, 8, 10, 11, 12, 13, 15, 16, 17, 18 and 19. issued at 2245, 28th December, 1942 and 0445 29th December 1942.

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.

6.369/4372. W.8144. D.2560. 6p.949/2.7780.12/42.

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 29th December 1942
No. 29622

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

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	12·7	-14	SSW	3	z_0	44	85	41	5	5	7	6	1	9	1500
	S. Farnborough	226	12·4	-10	NW'W	3	c	42	85	38	8	-	7	8	0	9+	-
	Boscombe Down	417	14·4	-6	WNW	4	z_0	40	92	38	6	5	7	-	4-6	9	3000
	Thorney Island	10	13·3	-10	NW'W	3	c-bc	44	85	40	7	-	4	6	0	7-8	-
	Lympne	283	10·6	-40	SSW	4	rf	45	97	44	3	-	2	-	10	10	200
	Manston	154	10·2	-30	WSW	3	r_0r_0	45	97	45	5	5	-	-	10	10	600
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	12	10·6	-22	WNW	3	ir_0	48	97	47	5	5	-	-	10	10	3300
	Gorleston	5	09·3	-26	WNW	2	c	43	75	37	7	5	-	-	10	10	800
	Mildenhall	15	09·7	-18	W'N	4	c	42	85	36	7	-	7	-	0	9	-
	Cranwell	203	09·7	-14	W'S	4	z_0	38	85	35	6	-	3	-	0	Tr	-
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	14·0	+2	WNW	4	z_0	39	85	34	6	1	4	-	Tr	2-3	2500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	16·1	-10	NW	5	b-bc	46	65	34	8	2	-	6	2-3	2-3	1500
	Bristol	209	15·1	-6	WNW	3	b	40	85	36	8	5	3	-	Tr	1	2500
	Portland Bill	32	14·7	-6	W	5	c-bc	46	85	42	7	5	-	-	7-8	7-8	4000
	Plymouth	82	17·8	-2	WNW	5	c/pr	44	85	40	8	2	7	-	2-3	9	2000
	The Lizard	240	18·4	-2	NW'N	5	bc	45	75	38	8	8	-	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	20·1	-2	NW'W	5	bc/pr	46	75	38	8	8	-	-	4-6	4-6	1500
	Guernsey	175															
6	Pembroke	142	15·7	-10	NW	4	c-bcq	46	75	39	8	8	-	-	7-8	7-8	2500
7	Holyhead (Valley)	32	13·4	-14	WNW	6	bc	43	75	37	8	2	-	-	4-6	4-6	2500
	Chester (Sealand)	16	11·2	-14	NW	4	bc/pr	41	85	36	7	2	-	-	4-6	4-6	2500
8	Manchester	235	11·0	-14	W	4	z_0	40	75	33	6	2	-	-	2-3	2-3	2500
10	Spurn Head	29	07·8	-22	W	5	b-bc	41	75	34	7	-	3	-	0	2-3	-
	Catterick	175	07·0	-10	WNW	3	c-bc	40	85	35	8	5	3	8	4-6	7-8	2600
	Tynemouth	108	05·5	-12	W	6	b-bc	39	85	35	7	2	3	-	1	2-3	2500
11	St. Abbs Head	280	02·7	+10	W	5	bc	40	85	35	7	4	-	-	4-6	4-6	2500
	Leuchars	36	03·1	+18	WNW	5	c-bc	39	65	29	8	5	6	-	7-8	7-8	2500
12	Renfrew (Abbots I.)	19	07·0	+8	NW'W	5	c-bc	38	75	30	8	1	1	-	1	7-8	3000
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	10·2	-4	NW'W	6	c-bc/pr	42	92	40	8	9	6	*	4-6	7-8	1000
13A	Tiree	44	12·9	+32	N'W	7	bc/pr	37	75	29	8	3	6	3	2-3	4-6	1800
13B	Stornoway	15	11·2	+52	N	7	phr	32	97	31	6	9	-	-	10	10	1200
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen †	79	99·6	+10	NW'W	8	bc	38	75	30	8	5	-	-	4-6	4-6	3000
	Wick	114	00·8	+86	NNW	8	r_0r_0	36	92	35	7	5	2	-	7-8	10	1500
16	Sumburgh	19	93·8	-100	NE	9	ir_0	38	92	37	6	5	2	-	7-8	9	1500
17	Blacksod Point	18	19·4	+20	SW	4	pr_0	43	85	39	8	9	-	-	4-6	4-6	2500
18	Malin Head	84	14·2	+30	NW'N	7	phr	43	65	32	8	9	2	-	4-6	9	1500
	Aldergrove	268	13·3	+10	NW	4	b	38	85	35	8	2	4	-	1	1	2500
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	21·8	+2	NW'N	6	bc/pr	44	75	37	8	3	-	-	4-6	4-6	2500
	Roches Point	22	18·6	-14	NW	5	b-bc	44	85	40	8	3	-	-	2-3	2-3	1500

OBSERVATIONS at 7 hr. G.M.T. 29th December

District	Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
1	London (Kew)	09·7	-8	WSW	2	z_0	38	85	33	6	5	-	-	9	9	2500	1	*
	Croydon	11·3	-6	W	3	z_0	37	85	34	6	5	-	-	7-8	7-8	2000	1	*
	S. Farnborough	10·6	-10	W'N	3	bc	36	92	33	7	5	4	1	2-3	4-6	3000	1	*
	Boscombe Down	12·5	-8	W'N	4	bc	37	85	34	7	-	7	5	0	4-6	-	1	*
	Thorney Island	11·7	-10	WNW	3	b	37	85	33	6	5	-	-	1	1	4000	1	*
	Lympne	09·1	-12	WNW	3	z_0	34	92	32	6	5	-	-	1	1	4000	1	§3
	Manston	08·0	-14	NW	4	z_0	39	85	35	6	5	-	-	4-6	4-6	2500	1	*
2	Shoeburyness	10·2	-10	WSW	3	z_0	39	85	34	5	5	-	-	7-8	7-8	1500	1	*
	Felixstowe	07·6	-14	W'N	4	bc	39	85	34	7	-	7	8	0	4-6	-	1	3
	Gorleston	05·8	-14	WNW	3	bc	38	85	32	7	-	4	-	0	4-6	-	1	3
	Mildenhall	07·6	-10	W	4	c-bc	36	85	33	7	-	7	2	0	7-8	-	1	*
	Cranwell	07·7	-4	W	4	z_0	36	92	33	6	-	3	-	0	Tr	-	1	*
3	Birmingham	10·6	-2	NW	3	rs	37	92	35	5	6	-	-	9+	9+	800	1	*
	Upper Heyford	10·3	-10	WNW	5	z_0	37	85	33	6	5	7	6	1	4-6	2500	1	*
4	Ross-on-Wye	12·1	-4	SW'W	2	b	38	85	33	8	1	7	1	Tr	1	2500	1	*
5	Hartland Point	14·7	+10	N	5	bcq	43	75	34	8	3	-	-	4-6	4-6	1500	1	5
	Bristol	13·2	-6	WNW	2	b-bc	38	85	35	7	1	4	-	2-3	2-3	2500	1	*
	Portland Bill	13·2	-4	W	5	c-bc	44	85	38	8	5	-	-	7-8	7-8	4000	1	5
	Plymouth	15·1	-6	NNW	4	b-bc/pr	40	92	38	8	2	-	-	2-3	2-3	2000	1	3
	The Lizard	15·4	-10	NNW	6	bc/pr	41	92	39	8	8	6	-	4-6	4-6	1500	1	5
	Scilly (St. Mary's)	17·8	-2	NW'N	6	bc	45	75	37	8	8	6	-	4-6	4-6	1200	1	4
	Guernsey																	
6	Pembroke	15·8	+14	NNW	6	bcq	42	75	34	8	8	7	-	4-6	4-6	2500	1	3
7	Holyhead (Valley)	14·0	+10	NNW	8	phr	41	55	27	8	9	-	-	9+	9+	2000	1	6
	Chester (Sealand)	10·8	+2	NNW	7	bc/pr	41	55	28	8	3	-	-	4-6	4-6	2500	1	*
8	Manchester	10·8	+4	NW	4	bc	37	85	32	7	2	-	-	4-6	4-6	2500	1	*
10	Spurn Head	06·4	0	NW	6	b-bc	40	65	31	7	-	3	-	0	2-3	-	0	3
	Catterick	08·4	+12	WNW	4	b-bc	36	75	29	8	-	3	-	0	2-3	-	1	*
	Tynemouth	05·6	+12	NW	5	bc	37	65	26	7	2	3	-	2-3	4-6	2500	1	3
11	St. Abbs Head	06·7	+46	WNW	7	ir_0	37	65	25	7	5	-	-	7-8	7-8	2500	1	3
	Leuchars	08·2	+18	NW	5	b	35	75	26	9	5	-	-	1	1	2500	1	*
12	Renfrew (Abbots I.)	11·4	+18	NW	4	c-bc	35	75	27	7	5	-	-	7-8	7-8	2500	3	*
	Eskdalemuir	09·9	+28	NNW	4	bc	33	65	23	8	5	-	-	4-6	4-6	2800	1	*
	Point of Ayre	12·1	+14	N	7	b	40	75	32	8	1	-	-	1	1	2500	1	5
13A	Tiree	16·6	+20	N'W	7	bc/ps	36	75	30	8	3	-	3	4-6	4-6	1800	4	6
13B	Stornoway	17·1	+28	NNW	5	b-bc/ph	34	97	34	7	3	6	3	4-6	7-8	1600	4	
15	Dalwhinnie	13·0	+24	N	3	c	28	85	24	7	8	-	-	4-6	4-6	2500	7	*
	Aberdeen †	06·8	+38	NNW	6	b-bc	33	85	29	8	8	-	-	2-3	2-3	2500	4	4
	Wick	10·3	+38	N	8	bcjp	33	85	29	8	8	-	-	4-6	4-6	2000	5	*
16	Sumburgh	07·4	+58	NNE	5	s/ps	32	92	30	8	8	-	-	9	9	2000	3	5
17	Blacksod Point	21·3	+8	N'E	4	c-bc/pr	42	97	41	8	9	-	-	7-8	7-8	2500	2	3
18	Malin Head	17·2	+18	N	8	c-bc	38	85	34	8	9	-	-	7-8	7-8	1500	2	6
	Aldergrove	16·0	+14	NW'N	3	prs	35	92	32	7	5	-	-	10	10	2500	1	*
19	Birr Castle	19·1	+14	NNW	2	bc	39	85	35	8	5	-	-	4-6	4-6	2500	1	*
20	Valentia Obsy.	23·0	+8	N'E	4	s/pr	43	75	35	8	8	-	-	9+	9+	2500	1	4
	Roches Point	20·5	+10	NNW	4	bc	41	85	37	8	5	-	-	4-6	4-6	2500	1	4

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 28th Hrs. (38)
1	London (Kew)	45	37	30	Tr	4	0·0
	Croydon	46	37	33	Tr	5	0·0
	S. Farnborough	47	35	31	Tr	4	0·0
	Boscombe Down	47	36	31	Tr	2	0·0
	Thorney Island	48	36	31	Tr	4	*
	Lympne	42	33	31	1	5	0·0
	Manston	43	37	35	Tr	4	0·0
2	Shoeburyness	44	37	29	-	4	0·0
	Felixstowe	43	38	34	-	5	0·0
	Gorleston	43	38		-	3	
	Mildenhall	45	35		Tr	3	0·0
	Cranwell	47	36	32	0·8	2	1·1
3	Birmingham	46	36	32	Tr	1	0·0
	Upper Heyford	46	36	31	Tr	1	*
4	Ross-on-Wye	50	38	32	Tr	1	0·4
5	Hartland Point	50	42	39	2	2	0·4
	Bristol	49	36	31	0·1	2	0·0
	Portland Bill	50	40	*	-	2	*
	Plymouth	51	39	35	1	3	0·0
	The Lizard	50	40	*	2	2	1·8
	Scilly (St. Mary's)	51	43	*	1	1	0·7
	Guernsey						
6	Pembroke	51		*	4	1	
7	Holyhead (Valley)	50	40	39	0·5	-	*
	Chester (Sealand)	53	39	38	Tr	1	0·5
8	Manchester	49	37	34	0·1	0·3	*
10	Spurn Head	47	39	*	0·3	0·3	0·0
	Catterick	48	36	31	0·3	0·2	0·3
	Tynemouth	49	36	32	2	-	*
11	St. Abbs Head	47	35	*	0·4	Tr	*
	Leuchars	49	34	30	Tr	Tr	0·7
12	Renfrew (Abbots I.)	48	34	30	1	2	0·1
	Eskdalemuir	45	31	28	3	3	0·1
	Point of Ayre	50	39		-	1	0·0
13A	Tiree	46	33	*	Tr	1	0·6
13B	Stornoway	44	21	30	5	3	0·9
15	Dalwhinnie	45	27	25	2	3	0·0
	Aberdeen †	47	32	32	-	1	0·2
	Wick	41	31	30	1	Tr	*
16	Sumburgh	47	31	28	2	2	0·0
17	Blacksod Point	48	39	*	2	3	*
18	Malin Head	48	35		1	1	0·2
	Aldergrove	46	33	32	0·1	2	0·6
19	Birr Castle	48	34	31	0·5	-	0·2
20	Valentia Obsy.	51	41	38	0·5	3	0·2
	Roches Point	52	41	*	0·5	0·5	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III C_L C_M (13h. G.M.T. 28th December)	wwVhN$_h$	DDFWN	C_L C_M (18h. G.M.T.)	wwVhN$_h$	DDFWN	C_L C_M (01h. G.M.T. 29th December)	wwVhN$_h$	DDFWN	C_L C_M (07h. G.M.T.)	wwVhN$_h$	DDFWN
109 87	88745	55685	57	66645	54888	51	61655	63968	62	71645	65886
115 37	27844	91786	37	89735	91887						
203 -											
206 36	25854	24585	30	25853	57684	87	01863	59584	96	83644	63584
210 36	81545	22367	56	61857	21788				26	26855	30686
220 30	88855	23583	82	27645	27688						
230 37	81856	89487	3-	01864	55584	9-	02855	28755	9-	83855	30685
245 84	02853	18227	00	00990	55410	8-	25857	30687	8-	26953	30473
260 67	61645	24368	00	05690	5410	04	01790	57413	53	26853	25284
278 57	02844	24427	57	02844	57524	80	01864	28784	80	01855	62785
279 57	02745	22666	57	05654	55485	53	02854	24485	5-	01861	61411
285 '			27	25745	26686						
288 59	02655	18587	51	25753	21383	57	02745	28317	04	01790	25413
575 86	02844	204-6	36	27744	57484	80	01844	28314	80	01844	63414
301 62	21624	23567	52	22756	26368	8-	02757	59687	80	01754	63584
321 54	05644	18328	5-	21655	24355	90	57353	08840	07	02790	28414
299 5-	05547	22427	8-	01752	22412						
292 57	05544	20426	51	02744	22368	03	02890	23315	03	01890	27412
310 - -	08428	20443	--	08428	20528						
614 57	05634	20426	5-	64438	53458	54	05651	25222	54	05651	26324

III C_L C_M (13h. G.M.T. 28th December)	wwVhN$_h$	DDFWN	C_L C_M (18h. G.M.T.)	wwVhN$_h$	DDFWN	C_L C_M (01h. G.M.T. 29th December)	wwVhN$_h$	DDFWN	C_L C_M (07h. G.M.T.)	wwVhN$_h$	DDFWN
333			5-	02765	27455	2-	25855	28485	87	25755	63686
334 --	68457	26378							--	68547	12128
340 53	02846	22327	52	21745	30728	54	01861	26311			
136 53	05546	19456	5-	51525	19468	50	05663	24465	--	02752	24314
336 52	53644	20457	62	62426	28468				13	01762	28413
350 02	52528	18358	5-	61638	20468	57	05672	24214			
368 6-	21638	22458	02	52538	20458	00	05690	24413	03	01780	28414
379 --	57309	20459	5-	21528	20558	07	02790	24314	53	02755	28216
390 5-	45348	16348	5-	45328	16448	5-	22447	26367	03	05590	28567
385 5-	51628	20328				07	01790	26414	57	01842	27514
438 82	25538	22388	8-	02536	20568				50	01753	28···
430 5-	05548	18158	5-	51438	53458	54	02741	28367	00	01790	26311
409 53	21936	22358	5-	57208	20458	57	02854	29616	34	25756	30586

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 29th December
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	idocm,	cdocm,	cro,rocmo
Croydon	ccmocm	cmocm ido	cmirocm
Greenwich	om	cmodo	idorrobcmo
Camden Square	o	o	*
Kensington	omc	o	*
Hampstead	of	ofr	bc

Atmospheric Pollution. Milligrams of solid impurity per cubic metre.
Kew 24 hours ended 7h. Max. 0·4 Time 8-9h 28th. Min. <0·1 Time 22-24h 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	45	37	30	Tr	4	0·0	*	*
Croydon	46	37	33	Tr	5	0·0	*	*
Greenwich	47	37	29	Tr	4	0·0	86	76
Westminster	48	36	30		3		85	85
Regents Park	44	37	34	-	3		84	81
Camden Square	47	37	31	-	4	*	*	78
Kensington	47	38	31	-	4		97	77
Hampstead	44	35	30	-	3		*	87

Page 1 BRITISH SECTION

SECRET

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

Wednesday 30th December 1942

No. 29623

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	10.8	+4	NNW	4	zo	40	55	26	6	1	4	1	1	2-3	2500
	Croydon	11.3	0	NW'N	4	bc zo	39	65	29	6	8	-	-	4-6	7-8	2200
	S. Farnborough	11.5	+2	WNW	4	ps	40	55	27	7	8	7	-	4-6	4-6	3000
	Boscombe Down	13.7	+2	NW'N	5	phr	38	65	29	8	5	3	-	4-6	7-8	1500
	Thorney Island	12.1	0	NNW	4	ps	41	65	30	8	9	-	-	9	9	4000
	Lympne	09.0	0	WNW	5	cbc/pr	38	75	31	6	3	4	-	7-8	7-8	1500
	Manston	08.0	-4	NNW	4	c	39	75	31	8	5	-	-	9+	9+	1500
2	Shoeburyness	09.8	+2	NNW	3	zo	39	65	30	7	5	3	-	4-6	9	2500
	Felixstowe	07.7	+2	NW	5	bc	40	75	31	7	5	7	-	2-3	4-6	2500
	Gorleston	06.4	0	NW'N	5	pr	38	75	32	7	5	-	-	10	10	1500
	Mildenhall	09.1	+8	NW'N	6	pso	37	75	29	8	8	-	-	7-8	9+	3000
	Cranwell	10.4	+10	NW	6	cjp	36	65	27	8	8	-	-	9+	9+	4000
3	Birmingham	13.1	+4	NNW	4	zo	37	65	27	6	1	-	-	1	1	1500
	Upper Heyford	11.7	+6	NNW	5	zo	37	65	27	6	1	-	-	2-3	2-3	3000
4	Ross-on-Wye	14.1	+6	N'W	4	c	38	55	24	8	8	-	-	9+	9+	2500
5	Hartland Point	16.9	+2	N	5	c/pr	40	45	28	8	3	6	-	4-6	9	1200
	Bristol	14.5	+6	NNW	5	c-bcjp	40	65	29	7	8	-	-	7-8	7-8	2500
	Portland Bill	14.7	+2	N	5	c-bc	43	75	38	8	5	4	-	4-6	7-8	4000
	Plymouth	16.7	+4	NNW	6	bc	44	65	34	8	7	-	-	4-6	4-6	3000
	The Lizard	17.4	-4	NNW	6	c-bc	45	65	35	8	8	6	-	7-8	7-8	2000
	Scilly (St. Mary's)	19.9	-4	N'W	5	cjp	45	75	38	8	8	6	-	7-8	9+	1200
	Guernsey															
6	Pembroke	18.2	+6	NNW	6	cbc/phr	38	92	37	8	8	-	-	7-8	7-8	2000
7	Holyhead (Valley)	16.9	+10	NNW	3	cbcjp	40	55	24	8	9	6	-	7-8	7-8	1000
	Chester (Sealand)	14.4	+14	N	5	bc	39	55	23	8	8	-	-	4-6	4-6	3000
8	Manchester	14.1	+12	NNW	5	b-bc	37	55	22	7	2	6	-	1	2-3	2500
10	Spurn Head	07.8	+6	NW	7	cjp	37	75	29	7	8	3	-	7-8	9	1500
	Catterick	12.4	+10	NNW	5	bc	35	65	24	8	5	3	-	4-6	4-6	2500
	Tynemouth	10.8	+6	NNW	6	cbc/ps	36	85	31	6	2	-	-	7-8	7-8	2800
11	St. Abbs Head	11.4	+24	NNW	6	c-bc	35	97	35	7	5	7	-	4-6	7-8	3000
	Leuchars	15.7	+18	NNW	5	c-bc/ps	33	75	28	7	8	-	-	7-8	7-8	1500
12	Renfrew (Abbots I.)	18.6	+32	NNW	4	b	35	75	29	9	8	-	-	4-6	4-6	3500
	Eskdalemuir	15.6	+20	N'W	6	bc	31	55	17	8	5	-	-	4-6	4-6	3300
	Point of Ayre	17.3	+20	NNE	6	c-bc	39	65	28	8	8	3	-	4-6	7-8	3000
13A	Tiree	23.0	+30	N'E	7	cbcjp	37	65	25	8	3	6	-	7-8	7-8	2500
13B	Stornoway	24.4	+30	N	5	bc	33	75	28	8	3	-	-	4-6	4-6	2200
15	Dalwhinnie	18.5	+36	N	4	c	27	85	24	7	8	-	-	9	9	2500
	Aberdeen	13.8	+28	NNW	6	bc/ps	32	75	25	8	9	6	3	2-3	4-6	2500
	Wick	17.4	+32	N	7	bc/ps	32	85	29	8	3	-	-	4-6	4-6	2000
16	Sumburgh	14.4	+24	N'W	7	c-bc/ps	28	97	27	8	3	6	3	4-6	7-8	1200
17	Blacksod Point	27.1	+26	N'E	6	bc	42	85	38	8	9	-	-	4-6	4-6	2500
18	Malin Head	22.5	+22	N'E	7	cbc/phr	39	65	29	8	2	2	-	4-6	7-8	1500
	Aldergrove	20.7	+20	N'W	4	bc	36	65	26	8	8	-	1	4-6	4-6	2500
19	Birr Castle	23.1	+18	N	3	b-bc	40	65	30	8	3	-	-	2-3	2-3	2500
20	Valentia Obsy.	25.9	+14	NNE	6	bc/pr	44	75	37	8	3	6	-	4-6	4-6	2500
	Roches Point	23.5	+14	N	4	bc	43	75	36	8	3	3	-	2-3	4-6	1500

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

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	13.4	+20	NNW	5	zo	36	65	24	6	4	-	-	2-3	2-3	2500	1	•
Croydon	14.2	+12	NNW	5	m/ps	36	65	26	4	4	-	-	9+	9+	2700	1	•
S. Farnborough	14.7	+22	NW'N	4	zo	36	65	25	6	5	7	-	7-8	9	2000	1	•
Boscombe Down	16.5	+24	NNW	5	bbc	33	65	24	7	5	-	-	2-3	2-3	2500	0	•
Thorney Island	14.6	+22	NNW	4	zo	36	65	25	6	5	-	-	4-6	4-6	4000	1	•
Lympne	11.2	+22	NW	5	zo	34	75	29	6	5	-	-	7-8	7-8	1000	1	§ 5
Manston	10.0	+14	N'W	6	c	36	75	29	7	4	6	-	2-3	9+	2300	1	•
Shoeburyness	11.8	+16	NW'N	5	zo	35	65	26	6	5	-	-	4-6	4-6	4000	1	•
Felixstowe	09.8	+18	NW	6	zo	36	75	28	6	5	-	-	10	10	6300	1	
Gorleston	08.2	+14	NW'N	4	rso	36	85	33	5	6	-	-	10	10	800	1	4
Mildenhall	11.5	+18	NW	6	bbcq	34	85	29	7	5	-	-	2-3	2-3	4000	*	•
Cranwell	13.7	+14	NW	6	bbc	33	85	30	7	5	-	-	2-3	2-3	3500	1	•
Birmingham	17.3	+30	NNW	4	b-bc	33	75	26	7	5	-	-	2-3	2-3	4000	1	•
Upper Heyford	15.5	+24	NNW	6	zo	33	85	28	6	4	-	-	4-6	4-6	5800	1	•
Ross-on-Wye	18.0	+24	N'W	4	b	34	65	22	8	5	-	-	Tr	Tr	3000	1	•
Hartland Point	19.1	+24	SW	6	c-bc	38	85	33	7	8	-	-	7-8	7-8	1500	1	5
Bristol	18.2	+22	N	5	b	34	65	22	6	5	-	-	Tr	Tr	2500	1	•
Portland Bill	16.1	+8	N	4	bc	37	85	32	8	5	-	-	4-6	4-6	4000	1	4
Plymouth	19.1	+18	NNW	4	zo	36	97	35	6	4	-	-	2-3	2-3	2000	1	3
The Lizard	18.8	+10	N	6	c-bc	41	65	29	8	2	-	-	7-8	7-8	1500	1	4
Scilly (St. Mary's)	21.4	+12	N	7	c	43	55	27	8	8	6	-	7-8	9+	1200	1	6
Guernsey																	
Pembroke	21.4	+16	N'E	5	c-bcq	36	92	33	7	8	-	-	7-8	7-8	2500	1	4
Holyhead (Valley)	21.9	+32	N'E	6	bc	38	45	26	8	9	-	-	4-6	4-6	1000	1	
Chester (Sealand)	19.7	+34	N	5	c	36	45	18	8	8	-	-	7-8	9	2200	0	•
Manchester	17.8	+18	NNW	6	b	33	55	20	7	4	-	-	Tr	Tr	4000	1	•
Spurn Head	10.9	+2	NNW	8	lbc	36	85	31	7	8	-	-	4-6	4-6	1500	4	6
Catterick	16.3	+20	NNW	5	b-bc	33	65	26	8	1	-	-	2-3	2-3	2000	1	•
Tynemouth	14.9	+24	NNW	9	c/ps	36	92	34	6	2	-	-	9	9	2200	1	6
St. Abbs Head	16.0	+22	NNW	7	c/phr	34	97	33	7	6	-	-	9+	9+	1500	1	6
Leuchars	20.4	+30	NNW	5	c-bc/ps	32	85	29	6	5	-	-	7-8	7-8	1500	4	•
Renfrew (Abbots I.)	23.6	+32	NW'N	2	b-bc	31	65	21	8	4	-	-	2-3	2-3	2000	1	•
Eskdalemuir	20.9	+40	N	5	b	28	65	17	8	5	-	-	1	1	3500	0	•
Point of Ayre	21.9	+28	NNE	7	b	37	55	23	8	4	-	-	Tr	Tr	3000	0	4
Tiree	27.1	+22	N	6	prs	38	55	25	8	3	-	-	4-6	4-6	2500	0	7
Stornoway	26.9	+14	NNW	4	ps	35	85	31	8	3	-	-	7-8	7-8	1500	7	
Dalwhinnie	23.0	+24	N	2	c-bc	26	85	23	8	5	-	-	7-8	7-8	2500	8	
Aberdeen	18.5	+24	NNW	6	pso	32	65	22	8	9	-	3	2-3	2-3	2500	4	4
Wick	21.0	+20	N	8	c-bc	33	85	28	8	9	-	-	7-8	7-8	2000	4	•
Sumburgh	18.8	+28	N	6	PS	28	97	27	4	3	-	-	9+	9+	1000	8	4
Blacksod Point	30.4	+26	NNE	6	c-bc	41	92	39	8	9	-	-	7-8	7-8	2500	1	5
Malin Head	26.9	+26	N'E	7	c/phr	40	45	22	8	2	2	-	4-6	9	1500	2	6
Aldergrove	25.2	+34	N'E	3	b-bc	34	65	32	8	8	-	-	2-3	2-3	3000	1	•
Birr Castle	27.1	+32	NNW	3	b-bc	35	75	28	8	5	-	-	2-3	2-3	2500	1	•
Valentia Obsy.	28.9	+24	N'E	6	c-bc	43	55	29	9	8	6	-	7-8	7-8	2500	1	4
Roches Point	26.2	+26	N	5	b	41	75	34	8	5	-	-	1	1	2500	1	4

PAST 24 HOURS.

Stations	Weather 7h.—13h. 29th (39)	Weather 13h.—18h. 29th (40)	Weather 18h. 29th to 1h. 30th (41)	Weather 1h.—7h. 30th (42)
London (Kew)	bc zoy	bccsobcz	bczo	bbcsozo
Croydon	cmozo	czoczpso	czbzbmo	cmobcmocmo
S. Farnborough	bcmo psobc	bcbbccmo	cmobmo	bmob
Boscombe Down	bcmocph	bcb	bmo	b
Thorney Island	promobc	cpsobc	bcmob	bbc
Lympne	bbcpromo	cpsomo	bcmopso	cmopso
Manston	bcc	cpsoc	cvso	cps
Shoeburyness	cmo	cisobcmo	bciso	iscmo
Felixstowe	cmocbcmo	cpsoccmo	ociscbcismo	ctlpscssmo
Gorleston	bcro	ops roso q	opsrshtlqbcq	bcpstlc
Mildenhall	bccpso	cpsobcq	cpsbcmo	bcmopsF
Cranwell	bmobcmo	ciso cbc	bcbsobc	bccPScmo
Birmingham	cbz	bz	b	b
Upper Heyford	cmobmo	jpbccmo	bmo	bbccmo
Ross-on-Wye	cbcprso	cybcby	b	b
Hartland Point	bcc poy	cproprr	cbcy	bcc
Bristol	cmoc	czopsobzo	bzo	bzobbzox
Portland Bill	bcc	cbc	bcb	b
Plymouth	bc	cprsobc	bcmocbc	bbcx
The Lizard	bcprc	c	cbccy	cprc
Scilly (St. Mary's)	bccbqc	cpqy	cpo	cpoirc
Guernsey				
Pembroke	qycphr	cphq	cq	cqPR pr
Holyhead (Valley)	cproph	cpso vy	bcbybc	bc
Chester (Sealand)	cshbcy	bcy	b, bc, cy	bcbbc
Manchester	bbczob	bczoy	bybc	bbc
Spurn Head	pso cqs	pho bcl	phcq	cqpo
Catterick	bccbc	bc	bpsobcc	cpso
Tynemouth	bccps	cpsq	cpsq	bccpsq
St. Abbs Head	c	cphc	bccphc	copho
Leuchars	cbcps	bbcpsc	cpso, b	by, bc
Renfrew (Abbots I.)	bcv	bcy by	bbc	b, cmo
Eskdalemuir	bcbvbcy	bcyby	b	b
Point of Ayre	bbcc	cbcby	b	bbcb
Tiree	cphbcjp	bcc proso	phocprosc	cbcc
Stornoway	cpsophobc	cpho cpso	c	c
Dalwhinnie	cpso	cpso		c
Aberdeen	bcpsq	cbcpsq	bcpsqc	bcpsqc
Wick	bccpsobc	bcpso	bcpsspsc	c
Sumburgh	PS	cps	bcpsoc	cpsoc
Blacksod Point	pr	c	pr	pr
Malin Head	pr	pr	pr	c
Aldergrove	cprsbc	bccbc	bccphc	c
Birr Castle	bc	bc	*	c
Valentia Obsy.	pr	pr	bc	c
Roches Point	pr	bc	b	b

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 30th December, 1942.

Districts	Forecast
1 S.E. England 2 E. England 3 E. Midlands	Moderate or fresh northerly winds decreasing and backing southwest; few snow showers early; fine tonight; light snow later; very cold, with frost tonight.
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	Moderate northerly winds, backing southwest moderate to fresh, and veering west later; fair at first, with precipitation spreading from west later, starting as slight snow except in coastal areas and Southwest England, and soon turning to moderate rain; slight frost in Midlands early tonight; very cold, becoming milder.
13A W. Scotland 13B N.W. Scotland 14 Mid Scotland 15 N.E. Scotland 16 Orkneys and Shetlands	Moderate or fresh South to Southwest winds, with gales in the Northwest, veering west later; rain soon spreading east across all districts, but starting as snow in Central and Eastern districts; cloudy conditions later; very cold, becoming mild.
17 N.W. Ireland 18 N.E. Ireland	
19 S.E. Ireland	As 4-12
20 S.W. Ireland	As 13-18

GENERAL INFERENCE

A ridge of high pressure is moving southeast across the British Isles, and will be followed by a trough of low pressure from the Atlantic, associated with a depression moving eastnortheast near Iceland. Precipitation starting as slight snow and soon turning to moderate rain will spread across most districts, followed by cloudy conditions; south to southwest gales will soon develop in the Northwest; slight to keen frost in Central and Southeastern districts of England tonight.

FURTHER OUTLOOK

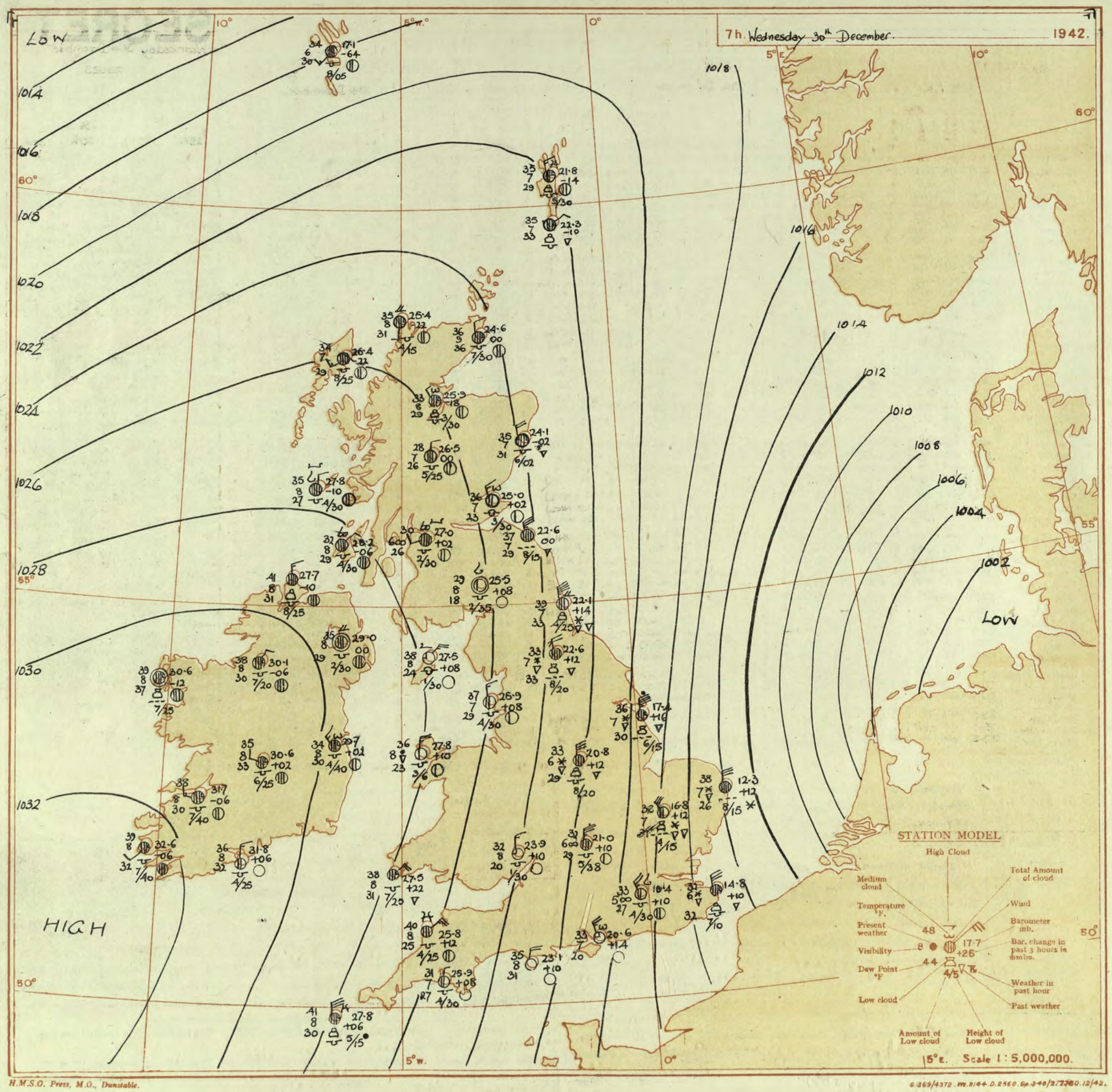
Mild westerly type over most of British Isles, but colder conditions probably penetrating North Scotland.

Gale warning in operation in districts 1 (part of) 2, 10 issued at 2245h. G.M.T. 28th Dec. 1942.

Forecasts issued at 1030

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

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



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

6.369/4372. m.8144. D.2560. Gp.948/2.7780. 12/42.

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.

Wednesday 30th December 1942

No. 29623

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	18	*	*	*	*	*	32	*	*	*	*	*	*	*	*	*
	Croydon ...	290	17·5	+14	NNW	5	z_o	33	75	25	5	5	3	–	2-3	4-6	1800
	S. Farnborough	226	18·7	+14	NW'N	4	z_o	31	65	20	6	–	–	–	0	0	–
	Boscombe Down	417	21·2	+20	NW'N	5	z_o	30	97	30	6	–	–	–	0	0	–
	Thorney Island	10	18·6	+14	NW'N	5	b	32	65	20	7	–	–	–	0	0	–
	Lympne ..	283	14·6	+14	NNW	6	ps	32	92	29	6	8	–	–	9+	9+	1800
	Manston ...	154	13·8	+16	N'W	6	ps	33	92	31	7	8	–	–	9+	9+	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	12·8	+10	NW'W	5	is_o	33	92	30	6	5	–	–	7-8	7-8	3100
	Gorleston ...	5	10·7	+12	N'W	6	psh	34	75	28	6	6	–	–	7-8	7-8	800
	Mildenhall ...	15	15·1	+12	NW'N	7	bc/ps	29	92	28	6	5	–	–	4-6	4-6	450
	Cranwell ...	203	17·4	+10	NW	6	b-bc	31	92	28	7	5	–	–	2-3	2-3	3000
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	19·2	+10	NNW	6	b	29	75	22	7	–	–	–	0	0	–
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	24·0	+16	NNE	5	c	37	88	22	8	1	–	–	9	9	2500
	Bristol ...	209	23·1	+18	N	4	z_o	32	66	21	6	–	–	–	0	0	–
	Portland Bill ...	32	21·4	+18	N	4	b	34	68	23	8	–	–	–	0	0	–
	Plymouth ...	82	24·1	+14	NNE	4	b	35	68	26	8	–	–	–	0	0	–
	The Lizard ...	240	24·0	+10	NNE	5	c	39	88	25	8	8	2	–	7-8	9+	1500
	Scilly (St. Mary's)	163	25·4	+12	N	6	c/pr	42	65	33	8	8	6	–	7-8	10	1200
	Guernsey ...	175															
6	Pembroke ...	142	25·3	+20	N'E	6	cq	39	65	28	8	8	3	–	7-8	9	2500
7	Holyhead (Valley)	32	25·4	-2	N'E	6	c	40	88	24	8	8	3	–	7-8	9+	3000
	Chester (Sealand)	16	23·3	+6	N	4	c-bc	36	45	20	8	5	–	–	7-8	7-8	3000
8	Manchester ...	235	21·5	+10	NW	5	b-bc	31	65	20	7	4	–	–	2-3	2-3	4000
10	Spurn Head ...	29	14·3	+12	NW'W	7	c-bc	37	68	28	7	9	–	–	7-8	7-8	1500
	Catterick ...	175	20·1	+10	NNW	5	c-bc	33	92	31	8	5	–	–	7-8	7-8	2000
	Tynemouth ...	108	18·4	-4	NNW	9	cbc/ps	37	85	32	6	2	–	–	7-8	7-8	2500
11	St. Abbs Head	280	19·2	+22	NNW	7	c	36	55	24	7	6	–	–	9	9	1500
	Leuchars ...	36	23·2	+12	NW	5	b-bc	33	55	21	8	4	–	–	2-3	2-3	3000
12	Renfrew (Abbots I.)	19	25·7	+10	NW	3	bc	32	75	25	8	5	–	–	4-6	4-6	2800
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	25·5	+10	NE'N	6	b	39	68	26	8	2	–	–	1	1	2500
13A	Tiree	44	28·7	+2	NNW	6	c	38	65	26	8	8	–	–	9+	9+	4000
13B	Stornoway ...	15	30·2	+6	NNW	3	c	38	65	26	7	5	–	–	10	10	2200
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	23·0	+18	NNE	5	psh	32	92	30	5	–	–	–	10	10	1500
	Wick ...	114	28·2	+14	N	6	cbc/ps	36	88	31	8	8	–	–	7-8	7-8	2000
16	Sumburgh ..	19	22·9	+14	N	6	ps	34	97	34	7	3	–	–	9	9	1500
17	Blacksod Point	18	32·4	+8	N	2	pr	40	92	38	8	9	–	–	9+	9+	2500
18	Malin Head ...	84	28·6	+6	N	6	c	42	55	27	8	8	2	–	7-8	9+	2800
	Aldergrove ...	268	27·9	+2	NNW	3	c	35	85	31	8	8	–	–	9+	9+	3400
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	32·8	+8	ENE	3	c	39	75	32	8	5	–	–	9+	9+	2500
	Roches Point	22	31·5	+18	N	4	b-bc	37	75	30	8	5	–	–	2-3	2-3	2500

OBSERVATIONS at 7 hr. G.M.T. 30th December

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)	19·1	+12	NNW	4	z_o	33	75	26	6	5	–	–	2-3	2-3	1500	3	*
Croydon ...	19·4	+10	NW	5	z_o	33	85	27	5	5	4	–	4-6	4-6	3000	0	*
S. Farnborough	20·7	+10	NW'N	5	b-bc	32	68	20	7	–	7	–	0	2-3	–	3	*
Boscombe Down	22·7	+10	NW'N	5	b	31	97	31	7	–	4	–	0	1	–	0	*
Thorney Island	20·6	+14	NNW	5	b	33	65	20	7	–	3	–	0	1	–	3	*
Lympne ..	16·5	+14	NNW	6	c/ps	30	97	29	7	4	–	–	9+	9+	1500	4	4
Manston ...	14·8	+10	NNW	6	ps	32	97	32	6	8	–	–	9+	9+	1000	4	*
Shoeburyness ...	16·4	+10	NW	5	is	31	97	31	5	5	–	–	7-8	7-8	1500	7	*
Felixstowe ...	14·1	+4	NNW	5	$s_o s_o$	32	97	31	5	–	2	–	9+	9+	1500	7	4
Gorleston ...	12·3	+12	N'W	6	ps	38	75	26	7	6	–	–	10	10	1500	4	4
Mildenhall ...	16·8	+12	NW	6	bc/ps	32	97	31	7	9	–	–	4-6	4-6	1500	7	*
Cranwell ...	20·2	+22	NW	6	z_o	32	92	29	6	5	–	–	10	10	3500	4	*
Birmingham ...	22·8	+12	NNW	4	b	32	75	26	7	–	–	–	0	0	–	1	*
Upper Heyford	21·0	+10	N'W	7	z_o	32	92	29	6	5	–	–	7-8	7-8	3800	3	*
Ross-on-Wye	23·9	+10	N'W	3	b	32	88	20	8	5	–	–	Tr	Tr	3000	3	*
Hartland Point	25·8	+12	NE	5	c-bc	40	68	25	8	5	6	–	4-6	7-8	2500	0	5
Bristol ...	25·2	+24	NNE	3	z_o	32	65	21	6	–	–	–	0	0	–	1	*
Portland Bill ...	23·1	+10	N	4	b	35	85	31	8	–	–	–	0	0	–	1	4
Plymouth ...	25·9	+8	N'E	1	bc	31	88	27	7	5	–	–	4-6	4-6	3000	0	1
The Lizard ...	25·7	0	N	2	c	37	85	32	8	8	6	–	7-8	9+	1500	0	3
Scilly (St. Mary's)	27·8	+6	N'W	6	c	41	65	30	8	8	6	–	7-8	9+	1500	1	5
Guernsey ...																	
Pembroke ...	27·5	+22	NE	4	c	38	75	31	8	5	–	–	9+	9+	2500	1	3
Holyhead (Valley)	27·8	+10	N	5	pr	36	55	23	8	5	–	–	2-3	2-3	3000	1	4
Chester (Sealand)	26·3	+6	NNW	3	bc	35	92	32	8	5	–	–	4-6	4-6	3000	0	*
Manchester ...	24·2	+18	NW'W	4	bc	31	68	22	7	4	–	–	4-6	4-6	4000	1	*
Spurn Head ...	17·4	+16	N	9	ps	36	75	30	7	9	–	–	9	9	1500	1	7
Catterick ...	22·6	+12	NNW	4	ps	33	97	33	7	9	–	–	10	10	2000	4	*
Tynemouth ...	22·1	+14	NNW	9	cbc/ps	39	85	33	7	2	2	–	4-6	7-8	2500	4	6
St. Abbs Head	22·6	0	NNW	7	o	37	75	29	7	6	–	–	10	10	1500	1	6
Leuchars ...	25·0	+2	NW	3	bc	36	88	23	8	4	3	–	2-3	4-6	3000	4	*
Renfrew (Abbots I.)	27·0	+2	WSW	2	z_o	30	85	26	6	5	7	7	1	10	3000	3	*
Eskdalemuir ...	25·5	+8	N'W	4	b-bc	29	65	18	8	5	4	–	1	2-3	3500	3	*
Point of Ayre...	27·5	+8	N'E	5	b	38	55	24	8	4	–	5	Tr	1	3000	0	4
Tiree	27·8	-10	N	1	c	35	75	27	8	5	4	7	4-6	10	3000	0	
Stornoway ...	26·4	-22	SW	3	c	34	75	29	7	5	–	–	10	10	2500	7	1
Dalwhinnie ...	26·5	0	N	1	c-bc	28	92	26	7	5	–	–	7-8	7-8	2500	8	*
Aberdeen † ...	24·1	+2	NNW	4	c	35	85	31	7	5	–	–	9	9	2500	6	3
Wick ...	24·6	0	N	2	c	36	92	36	9	5	–	–	9+	9+	3000	5	*
Sumburgh ..	22·3	-10	NE	2	c	35	92	33	7	8	–	–	9+	9+	2500	4	4
Blacksod Point	30·6	-12	–	0	c	39	92	37	8	9	–	–	9+	9+	2500	1	2
Malin Head ...	27·7	-10	N	3	c	41	65	31	8	8	–	–	10	10	2500	2	4
Aldergrove ...	29·0	0	–	0	c	35	75	29	8	5	2	–	9+	10	3000	1	*
Birr Castle ...	30·6	+2	WNW	2	c	35	92	33	8	5	–	–	9	9	2500	1	*
Valentia Obsy.	32·6	-6	SW'S	2	c	39	79	32	8	5	–	–	9+	9+	4000	1	2
Roches Point	31·8	+6	N	3	bc	36	85	32	8	5	–	–	4-6	4-6	2500	1	4

PAST 24 HOURS.

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

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 29th December: $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 30th December: $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN
109	3-	27645	65785	36	87645	64785	36	02644	64785	8-	02668	29328
115	87	88844	99686	87	88844	99687	52	02844	32587	52	02844	16227
203												
206	9-	26845	63485	3-	02855	30385	8-	02857	30387	83	02863	28126
210	26	26945	30885	26	26753	64684	2-	83754	34688	26	02866	01288
220	90	26855	29585	9-	27655	30485				81	02645	15128
230	3-	10852	32412	9-	01964	28314	5-	01963	04213	00	02990	04228
245	36	83645	34587				86	01762	63513	43	02754	30217
260	30	01854	28414	40	05663	30313	5-	05655	30315	30	02764	28115
278	8-	02957	64627				50	01844	63514	57	01863	08215
279	13	01854	30614	04	00990	64620	50	01862	61402	53	01862	28413
285	27	83746	32587	27	26744	32684						
288	63	27674	61685	3-	83756	61686	3-	83346	28586	57	05555	31485
575	86	83845	65485	40	01851	32311	43	02844	024-6	5-	02857	02227
301	2-	02955	02515	20	01753	01523	50	01854	64514	50	01764	30314
321	5-	71757	63577	8-	83757	63677	36	83745	63787	5-	26656	33586
299	8-	27745	30685	5-	14753	30613						
292	73	02964	61525	9-	26743	62575	9-	72546	29478	4-	05655	31475
310	·			--	01634	32414				--	01634	32514
614	54	05668	65477	03	05690	62522	4-	05664	61574	8-	83648	65688

III	13h. G.M.T. 29th December: $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 30th December: $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T.: $C_L C_M$	wwVhN$_h$	DDFWN
333	36	27944	63585	50	01855	65585	80	01864	35514	5-	01863	32313
334	--	27536	06317							--	01753	06414
340	23	01754	32214	00	00890	32210				54	01862	32402
136	5-	72767	62687	8-	26646	60686	80	05663	63725	8-	14656	63586
336	20	26754	32484	10	01753	32413				10	01762	04412
350	10	05642	30413	40	05664	61513	54	05665	63515	53	05664	20432
368	83	02845	28415	04	01790	32483	00	00790	32400	00	00790	32400
379	87	01853	30514	50	05663	65513	00	05690	65610			
390	73	05673	27413	50	08464	61484	90	05563	61513	5-	05555	63575
382	80	01763	64513	53	05664	64523	00	00890	64600	54	01753	64503
438	80	01745	30415	50	01644	28414	04	00790	30412	50	01753	30413
430	5-	02756	30426	50	05654	65414	5-	05543	65513	50	05644	63514
409	8-	02956	68686	8-	02856	65886	20	01864	01724	8-	02857	02427

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 December
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	bcz$_o$y	bcs$_o$bcz	bbc[illegible]	Kew 24 hours ended 7h. Max. Time 0·3 7-8h 29th. Min. Time 0·1 30th.
Croydon ...	cm$_o$z$_o$	cz$_o$czps$_o$	czbnz$_o$	
Greenwich ...	cm$_o$	c	cbcgcis$_o$m	
Camden Square	b	bc	*	
Kensington ...	bc	bc	*	
Hampstead ...	bc	ofx	bcx	

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	40	31	27	Tr	Tr	5·5	*	*
Croydon ..	40	31	29	–	–	2·3	*	*
Greenwich ...	40	31	27	*	Tr	1·7	56	77
Westminster ..	41	33	27	*	*		65	83
Regents Park ...	38	31	28	*	*		63	90
Camden Square	40	31	27	–	*	*	*	79
Kensington ...	41	32	27	Tr	*		97	81
Hampstead	38	29	25	–	0·6		*	91

SECRET

Page 1 BRITISH SECTION

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

Thursday 31st December 1942

No. 29624

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Dew Point °F. (8)	Visibility 0–9 (9)	Cloud Form Low (10)	Cloud Form Med. (11)	Cloud Form High (12)	Cloud Amount Low 0–10 (13)	Cloud Amount Total 0–10 (14)	Height of Base (feet) (15)
1	London (Kew)	20.8	+2	NNW	4	zo	38	65	27	6	7	-	6	1	4-6	1500
	Croydon	21.5	+8	NNW	4	• zo	37	85	32	5	2	-	-	4-6	4-6	2000
	S. Farnborough	22.0	-2	NNW	4	zo	37	55	25	6	1	-	6	Tr	7-8	1800
	Boscombe Down	23.7	-6	NNW	6	bc	36	65	25	8	-	-	2	0	4-6	-
	Thorney Island	21.6	-2	N'W	4	b	38	65	26	7	-	3	-	0	1	-
	Lympne	17.0	+10	NNW	6	b-bc	35	85	32	7	5	4	-	Tr	2-3	-
	Manston	17.9	+18	N'E	5	c	40	65	30	7	8	6	-	7-8	9	1500
2	Shoeburyness	19.2	+4	NNW	4	bc	35	85	30	7	5	3	-	4-6	4-6	2500
	Felixstowe	18.0	+14	NNW	4	bc	39	75	30	7	5	7	1	2-3	4-6	3000
	Gorleston	17.7	+22	N	6	cq	41	55	24	7	5	-	-	9	9	2000
	Mildenhall	20.1	+6	NWN	5	bc c-bc	33	85	30	7	2	6	2	1	4-6	2500
	Cranwell	22.4	+6	NW	5	ps	35	85	30	6	5	4	6	4-6	7-8	4000
3	Birmingham	24.0	-6	NW	4	zo	35	75	29	6	-	-	6	0	4-6	-
	Upper Heyford	22.5	-2	N'W	5	zo	35	75	29	6	-	-	7	0	9+	-
4	Ross-on-Wye	24.9	0	NNW	3	c	37	55	23	8	-	-	7	0	9	-
5	Hartland Point	27.2	+2	N	3	bc	40	55	25	9	1	-	7	1	4-6	2500
	Bristol	25.7	-6	NNE	4	c	38	55	25	6	-	-	6	0	10	-
	Portland Bill	24.8	0	NW	4	c-bc	38	85	33	8	5	-	-	7-8	7-8	4000
	Plymouth	27.5	0	NE	3	c	39	65	29	8	-	-	8	0	9	-
	The Lizard	28.1	+12	NNE	2	bc	40	65	29	8	8	6	-	4-6	4-6	1500
	Scilly (St. Mary's)	28.8	+6	NNE	4	c/r	40	92	38	8	8	6	-	9	10	1200
	Guernsey															
6	Pembroke	27.7	-6	SEE	1	c	40	65	31	8	5	-	-	9+	9+	2500
7	Holyhead (Valley)	26.8	-14	-	0	c	39	65	28	8	4	1	-	Tr	10	4000
	Chester (Sealand)	25.4	+10	NNW	3	c	39	55	26	8	-	7	-	0	10	-
8	Manchester	24.8	-6	NW	4	zo	36	65	25	6	4	5	7	1	10	5700
10	Spurn Head	20.8	+6	NE	6	cbcq	41	65	28	7	8	6	-	4-6	7-8	1500
	Catterick	23.2	-12	NW	2	c	36	75	25	7	5	7	-	7-8	10	2500
	Tynemouth	17.3	-6	NW	4	zo	35	85	31	5	8	-	-	9+	9+	2400
11	St. Abbs Head	22.0	-18	WNW	3	c	35	75	26	7	5	-	-	10	10	2900
	Leuchars	21.7	-32	WNW	3	c	35	75	28	8	5	7	-	2-3	10	4000
12	Renfrew (Abbots I.)	22.7	-40	SSW	3	zo	35	75	27	6	5	7	-	1	10	4000
	Eskdalemuir	23.5	-20	WNW	3	c	32	55	20	8	5	1	-	7-8	10	3300
	Point of Ayre	24.9	-24	SWW	2	c	37	65	27	8	4	7	-	Tr	10	3000
13A	Tiree	18.3	-64	SSW	5	rr	40	85	35	7	6	2	-	4-6	10	1800
13B	Stornoway	11.5	-98	S	8	roro	37	97	37	6	-	2	-	10	10	700
15	Dalwhinnie	20.2	-40	S	3	c	29	85	26	8	5	2	-	4-6	10	2500
	Aberdeen	20.1	-32	WSW	2	zo	34	75	27	6	5	-	-	10	10	4500
	Wick	18.9	-40	SW	3	c	33	75	26	8	5	-	-	10	10	3500
16	Sumburgh	15.9	-42	S'W	4	c	36	65	27	8	5	-	-	10	10	3000
17	Blacksod Point	23.0	-50	SSW	5	rr	43	97	42	7	6	2	-	4-6	10	2500
18	Malin Head	20.1	-54	S'W	4	ir	44	85	40	7	8	2	-	4-6	10	1500
	Aldergrove	24.8	-32	S'W	2	c	37	75	30	7	5	1	-	7-8	10	3500
19	Birr Castle	26.6	-34	WSW	2	c	38	75	31	8	5	1	-	7-8	10	2500
20	Valentia Obsy.	28.7	-34	SW'S	3	iro	43	75	36	8	5	2	-	4-6	10	4000
	Roches Point	29.5	-20	NWN	3	c	40	75	33	8	5	7	-	4-6	9+	2500

OBSERVATIONS at 18h. G.M.T. 30th December — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	% Humid. (22)	Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)	Weather 7h.–13h. 30th (39)	Weather 13h.–18h. 30th (40)	Weather 18h 30th to 1h. 31st (41)	Weather 1h.–7h. 31st (42)
London (Kew)	22.3	+6	NNW	3	zo	35	75	27	5	-	-	-	0	0	-	1	•	bcpsoz.	c⊕bcbzo	bbccmo	osossgbc
Croydon	22.6	+6	NNW	4	bf	35	85	31	3	-	-	-	0	0	-	1	•	cmobcmo	bcmobf	bmcm	cmsscmsrsr
S. Farnborough	23.2	+6	WNW	2	m	33	75	27	4	-	-	2	0	2-3	-	0	•	b,cbczoy	bcczobc	czoms	csrmob
Boscombe Down	24.2	+2	WNW	3	zo	32	85	30	6	-	-	8	0	9+	-	0	•	bcc bc	bccmo	cssm	cdodomob
Thorney Island	23.2	+8	NW	2	zo	35	75	28	6	-	1	-	0	10	-	3	•	bbcb	bmoc	bccmcrs	crsrrb
Lympne	21.0	+20	NW	4	zo	33	92	30	6	-	7	-	0	2-3	-	4	§4	cisopsoc	bbmo	bmocmm	cmosrR
Manston	20.1	+16	N'W	4	c-bc	36	85	33	6	5	6	-	2-3	7-8	3500	1	•	cpsomoc	ccmo	cmox	cmoxss
Shoeburyness	20.6	+4	NW	3	zo	34	75	27	6	-	4	-	0	1	-	7	•	iscmoc	bcbmo	bmo	ssroro
Felixstowe	20.1	+10	NW	3	zo	35	85	31	6	5	-	1	4-6	4-6	4700	4	3	cisomobc	bccbcmo	bocmo	cmossscir
Gorleston	19.3	+4	N'W	4	c	40	55	24	7	5	-	-	10	10	2000	1	4	cpsqy	cqycy	czmo	cmxsscm
Mildenhall	20.4	0	NW'W	3	zo	33	85	30	6	5	-	-	10	10	3600	7	•	cpso bc	bccm	cmoris	ossfbc
Cranwell	20.8	-6	W'N	3	zo	34	85	29	5	5	-	-	10	10	3900	4	•	bcmopsobc	cmo	cmosssm	ossmcmo
Birmingham	22.8	-6	WNW	2	zo	33	85	29	6	-	2	-	0	10	-	1	•	bbcz	bc oz	ors	ossrbc
Upper Heyford	22.8	0	WNW	3	m	32	75	26	4	-	1	6	0	9+	-	3	•	probcmo	cbcczo	czisoossm	ssmdodob
Ross-on-Wye	23.3	-8	WSW	2	c	35	65	26	8	-	2	-	0	10	-	1	•	bbcc ⊕	c	*	cpb
Hartland Point	24.8	-12	WNW	3	c	40	75	33	8	5	2	-	7-8	10	2500	1	3	cbccyv	c	cirorc	crrbc
Bristol	24.4	0	NW	1	zo	34	75	28	6	-	2	-	0	10	-	8	•	bxzobcxzo	ccmo	crosssso	crrcmo
Portland Bill	24.8	0	NW	4	c-bc	38	85	33	8	5	-	-	7-8	7-8	4000	1	4	bcc	c	orr	rrcbc
Plymouth	26.2	-6	W'S	1	zo	37	75	31	5	5	2	-	7-8	10	3800	3	2		czo	cmirororo	cdodomob
The Lizard	26.7	-2	N	3	c	41	75	33	8	8	2	-	9	10	1500	0	3	cbc	cbcc	oprrr	prrc
Scilly (St. Mary's)	27.2	-8	NW'W	4	c	41	85	36	8	8	2	-	4-6	10	1500	1	4	cbccir	c	epoirc	cproPoc
Guernsey																					
Pembroke	24.1	-20	WSW	5	roro	41	92	39	8	5	-	-	9	9	2500	1	3	c	crr	crrq	cq
Holyhead (Valley)	20.4	-32	SW	6	iro	40	75	32	6	-	2	-	10	10	800	1	3	bcc	cvc	crrdodmo	bcmoc
Chester (Sealand)	21.0	-26	WSW	1	c	36	65	26	6	5	7	-	4-6	10	2500	3	•	bcyc	by	crsorormo	qcpro
Manchester	21.4	-22	S'W	3	zo	32	75	27	5	5	-	-	10	10	6300	3	•	bcczo	czoz	ssidf	rorofbc
Spurn Head	19.8	-8	NW'W	5	zo	36	75	30	6	5	2	-	7-8	10	1500	0	5	cq	cmo	cmss	bc
Catterick	18.9	-26	SW	2	zo	34	75	29	6	-	7	-	0	10	-	4	•	cpsoc	czoz	cmorosob	bqb
Tynemouth	18.8	-28	W	2	zo	35	75	26	5	8	-	-	9+	9+	1500	1	4	cqcmo	cmo	copsbcc	cbc
St. Abbs Head	13.8	-44	SSW	4	c	33	65	24	7	5	-	-	10	10	2500	0	4	ocmoc	cmoc	oscsbcb	bc
Leuchars	10.6	-12	SSW	5	rs	35	75	28	6	-	2	-	10	10	3000	4	•	bcyc	cmcmorso	cssrcmb	bmobc,b
Renfrew (Abbots I.)	10.6	-74	S'W	4	soso	33	97	33	4	5	2	-	9+	10	1200	6	•	cm cmo	cmomsoso	bcmirbcm	bcprpsbc
Eskdalemuir	15.1	-66	SSW	4	ss	32	85	29	5	5	2	-	4-6	10	2000	3	•	bbcc	csosoSS	cssrmo	csbcb
Point of Ayre	16.6	-38	SW'W	5	rr	37	92	36	8	-	2	-	10	10	2500	1	3	c	crr	rsrs	prbcc
Tiree	03.0	-90	SW'S	6	DR	45	97	45	4	5	-	-	10	10	220	2	6	cirorr	orrmo	pdrprq	cprc
Stornoway	96.9	-84	SSW	9	rr	42	97	42	5	5	-	-	10	10	500	2	*	crorormo	crrm	crrmobcc	cprobc
Dalwhinnie	06.0	-84	SW	3	ss	30	92	28	4	-	-	-	10	10	<150	8	•	co	oss	*	ssrsc
Aberdeen	09.7	-66	SSW	5	soso	33	85	27	5	-	2	-	10	10	1500	4	3	ccmz	coisozo	ossos cbc	bc
Wick	02.3	-74	SSW	6	ssf	33	97	33	2	5	-	-	10	10	600	6	•	c	cc ss	crorois	cprbcprs
Sumburgh	02.6	-88	S'W	7	rs	38	75	32	7	5	2	-	9+	10	1500	1	4	c	crofso	cmorosrr	cmsrisrs
Blacksod Point	14.4	+34	SW'W	6	DR	50	97	49	6	6	2	-	4-6	10	800	2	5	r	r	bc	c
Malin Head	05.8	-98	SSW	6	rr	43	92	41	7	8	2	-	4-6	10	1500	2	3	r	rs	r	r
Aldergrove	13.2	-74	S	3	ss	33	97	32	4	6	-	-	10	10	300	7	•	c	css	cssmcrob	bbccirc
Birr Castle	11.9	-44	SW	4	c	39	92	37	7	6	2	-	7-8	10	800	1	•	c	r	•	r
Valentia Obsy.	22.9	-34	WSW	4	dr	48	97	47	5	5	-	-	10	10	800	1	3	r	r	r	r'
Roches Point	23.6	-34	WSW	3	rr	42	97	40	7	6	2	-	4-6	10	1500	1	4	c	r	r	r

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 31st December 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; 11 S.E. Scotland	Fresh or strong northwesterly winds, moderating and backing gradually; fair today; mainly cloudless tonight and tomorrow morning; cold or rather cold, with fairly general ground frost inland tonight.
12 S.W. Scotland & Isle of Man; 13A W. Scotland; 13B N.W. Scotland ↑; 14 Mid Scotland; 15 N.E. Scotland ↑	Fresh or strong northwesterly winds, gale force in northeast early moderating and backing gradually; scattered showers of sleet, snow and hail in exposed districts today; fair later, with appreciable clear areas; cold or very cold becoming rather cold; ground frost inland tonight.
16 Orkneys and Shetlands ↑	As 12-15.
17 N. W. Ireland; 18 N. E. Ireland; 19 S. E. Ireland; 20 S. W. Ireland	Moderate northwesterly winds, backing south to southwest; fair today, with appreciable clear areas tonight; rain in west tomorrow; rather cold, with ground frost inland tonight.

GENERAL INFERENCE

An intense depression near the Shetlands is moving southeast and becoming less deep. A ridge of high pressure to the West will move east across the British Isles tonight and tomorrow, and a trough of low pressure will approach western districts tomorrow. Weather will be fair or fine apart from wintry showers today in exposed northern districts, and some rain in western districts of Eire tomorrow morning. Ground frost will be rather general inland tonight.

FURTHER OUTLOOK

Rain spreading east across all districts British Isles; milder temporarily.

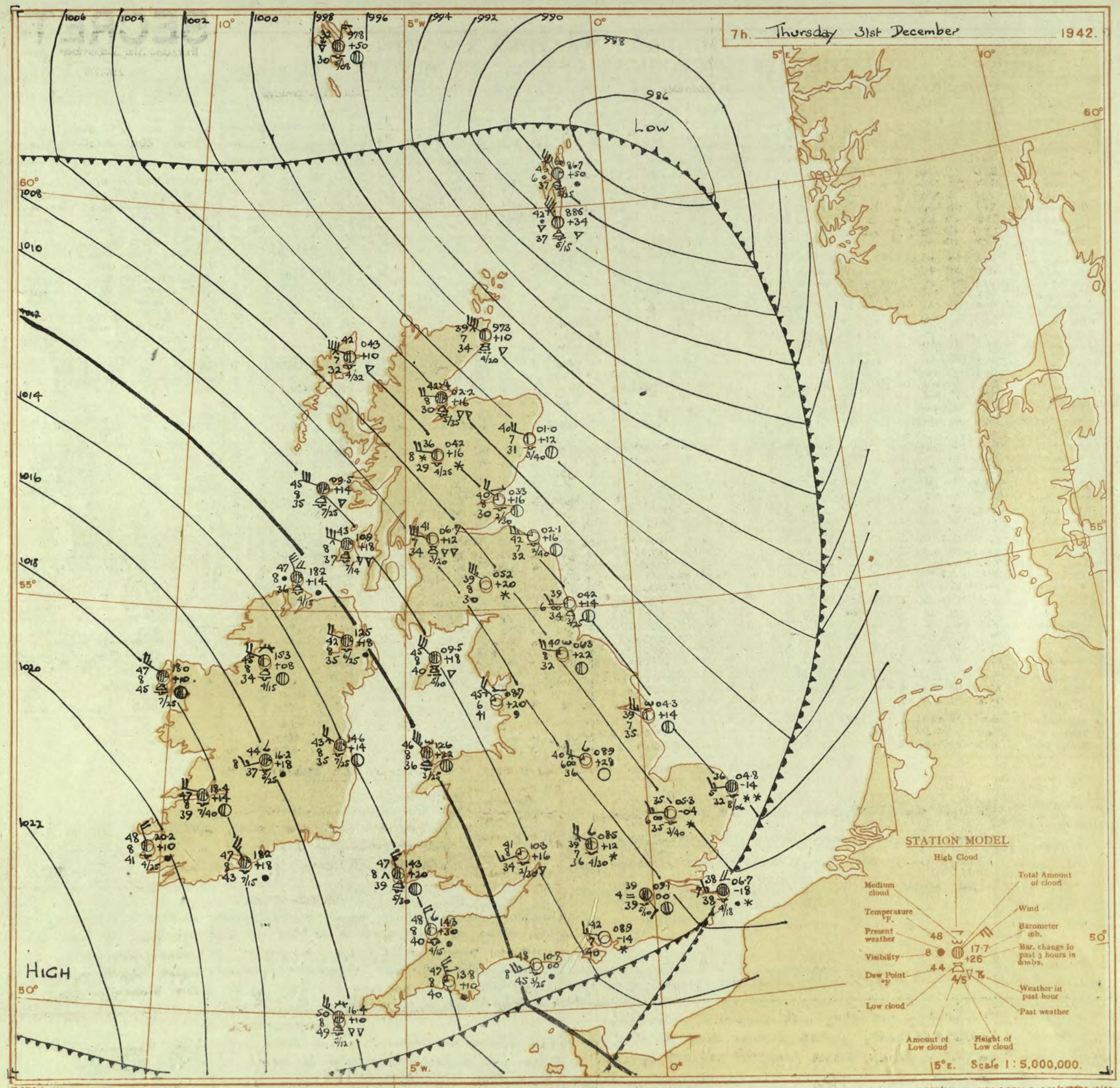
↑ Warning of severe northerly gales in operation in districts 13b, 15, & 16.

Time of issue 2305 30-12-42

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).

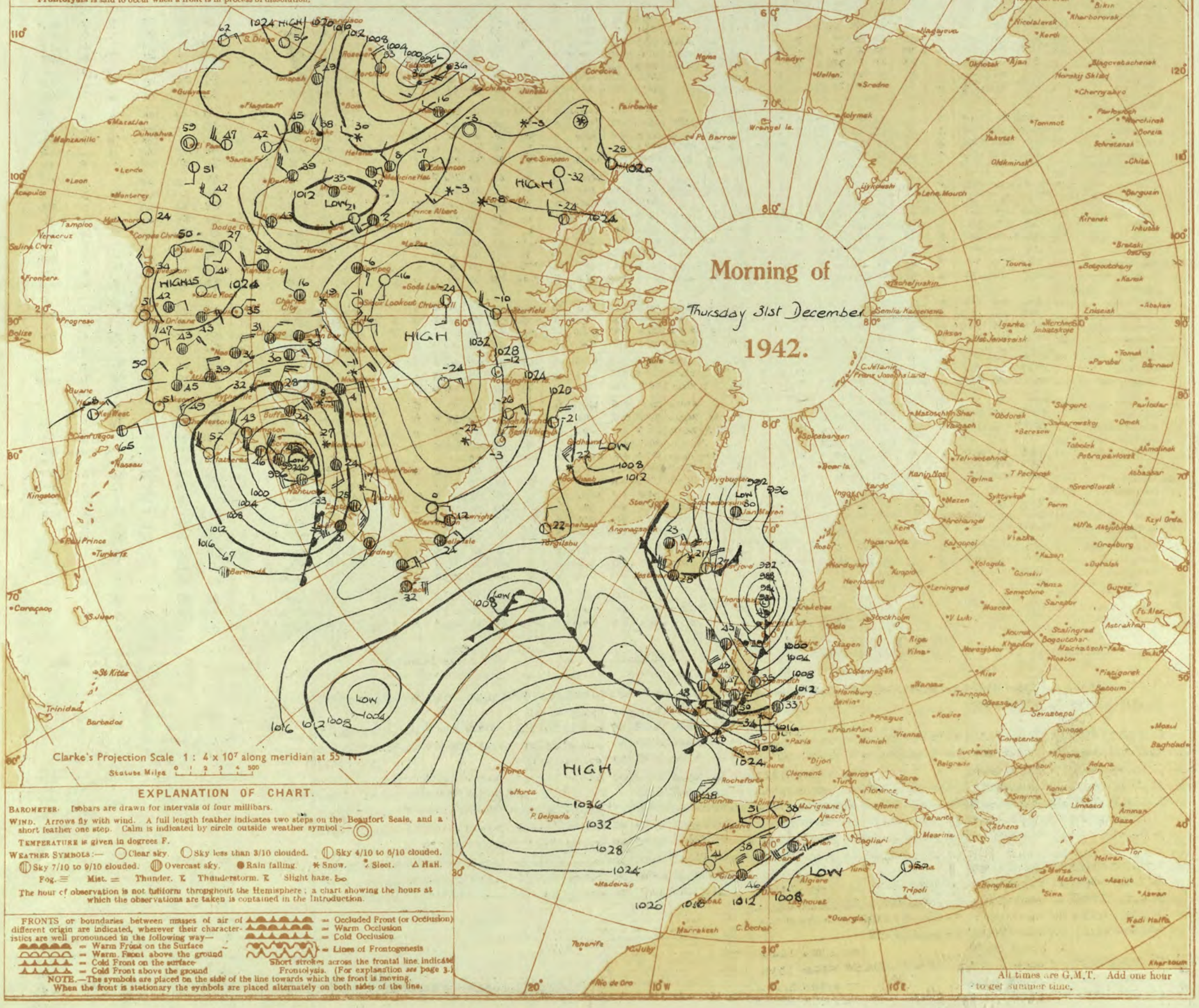
Warm Front. The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

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.

Thursday 31st December 1942

No. 29624

OBSERVATIONS at 1 hr. G.M.T. 31st December

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	15·8	-48	S	4	c6	34	85	30	4	-	7	-	0	10	-
	S. Farnborough	226	14·3	-58	SW'S	4	s0	33	92	31	5	5	-	-	10	10	2000
	Boscombe Down	417	15·2	-56	S'W	4	s5	33	97	32	5	-	2	-	10	10	1500
	Thorney Island	10	15·8	-52	WSW	4	rs	39	97	38	6	5	-	-	10	10	2700
	Lympne ...	283	16·0	-38	W	1	z0	31	85	28	5	-	7	-	0	10	-
	Manston ...	154	15·4	-50	SW	2	z0	32	85	28	5	-	1	-	0	10	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	12	14·6	-36	SW	5	z0	34	75	28	5	5	2	-	2·3	10	3300
	Gorleston ...	5	13·8	-28	SW'S	2	z0	33	75	27	5	5	-	-	10	10	800
	Mildenhall ...	15	12·7	-44	SSW	4	s3	31	92	30	3	-	2	-	10	10	1500
	Cranwell ...	203	07·9	-70	S'W	6	s6	32	97	32	4	-	2	-	10	10	800
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	11·4	-70	SSW	4	s5	32	97	31	4	-	2	-	10	10	1500
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	10·5	-80	W	6	rr	46	97	45	6	6	2	-	7·8	10	800
	Bristol ...	209	12·8	-70	SSW	6	r5	36	92	35	5	6	2	-	4·6	10	1200
	Portland Bill ...	32	16·8	-56	SW	5	rr	44	92	42	6	5	-	-	10	10	2500
	Plymouth ...	82	16·4	-62	W'S	6	r6	45	97	45	6	5	-	-	10	10	800
	The Lizard ...	240	17·0	-58	W	7	r5	46	97	46	7	5	-	-	10	10	1000
	Scilly (St. Mary's)	163	17·7	-60	WSW	6	o10	48	85	44	6	5	-	-	10	10	1000
	Guernsey ...	175															
6	Pembroke ...	142	10·5	-50	W'N	8	cq	50	97	50	7	8	-	-	10	10	2500
7	Holyhead (Valley)	32	08·6	-36	WNW	6	c-bq/d	47	92	46	6	5	-	-	7·8	7·8	1700
	Chester (Sealand)	16	06·3	-56	NW'W	6	ir0	47	85	43	6	-	2	-	10	10	2000
8	Manchester ...	235	06·6	-64	SSW	5	r0	34	65	24	3	5	-	-	10	10	1000
10	Spurn Head ...	29	07·4	-64	S'W	6	s5	33	97	33	4	-	-	-	10	10	<150
	Catterick ...	175	03·9	-50	SW	3	b-bc/rs	37	85	33	7	5	4	-	1	2·3	2500
	Tynemouth ...	108	02·7	-40	SSW	4	c-bc	35	92	33	7	5	-	-	7·8	7·8	1500
11	St. Abbs Head	280	01·4	-28	W	4	b	42	85	37	7	5	-	-	1	1	4000
	Leuchars ...	36	09·9	-22	SW	3	z0	35	92	34	6	5	-	-	Tr	Tr	2000
12	Renfrew (Abbots I.)	19	02·7	+10	WNW	5	z0	43	75	36	6	5	-	-	2·3	2·3	3000
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	05·5	+2	NNW	6	c-bc	48	85	44	7	6	4	3	7·8	7·8	1500
13A	Tiree	44	05·7	+18	NW	6	r0	42	92	40	7	3	-	-	9	9	1500
13B	Stornoway ...	15	00·7	+26	WNW	8	c-bc	43	65	31	7	5	-	-	7·8	7·8	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen † ...	79	97·8	-14	W	2	b-bc	38	92	36	7	5	-	-	2·3	2·3	3000
	Wick ...	114	94·1	+4	WNW	6	ir0	38	92	37	7	5	-	-	4·6	4·6	1500
16	Sumburgh ..	19	84·0	-58	WNW	9	rr	42	92	40	6	-	2	-	10	10	800
17	Blacksod Point	18	15·3	+18	S'E	5	bc	48	92	46	8	5	-	-	4·6	4·6	1500
18	Malin Head ...	84	08·5	+20	NW'N	6	ir0	48	75	41	8	8	-	-	9	9	1500
	Aldergrove ...	268	07·8	+6	W	5	b/r	44	75	37	7	5	-	-	1	1	1500
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.	30	19·0	-10	NW'W	5	ir0	51	92	49	7	5	-	-	10	10	1500
	Roches Point	22	15·2	-16	W	6	s/r	50	92	48	8	6	2	-	4·6	9+	1500

OBSERVATIONS at 7 hr. G.M.T. 31st December

Stations	Barom. at M.S.L. mb. (16)	Change in 3 hours (17)	Wind Direc. (18)	Wind Force 0–12 (19)	Weather (20)	Temp. °F. (21)	Humid. % (22)	°Dew Point °F. (23)	Visibility 0–9 (24)	Cloud Form Low (25)	Cloud Form Med. (26)	Cloud Form High (27)	Cloud Amount Low 0–10 (28)	Cloud Amount Total 0–10 (29)	Height of Base (feet) (30)	State of Ground 0–9 (31)	Sea 0–9 (32)
London (Kew)	08·0	0	W	2	z0	37	92	36	6	5	-	-	2·3	2·3	1500	6	*
Croydon ...	09·1	0	SSE	1	m	39	97	37	4	5	-	-	7·8	7·3	1000	4	*
S. Farnborough	08·9	+6	WNW	3	b	39	97	38	7	-	-	-	0	0	-	4	*
Boscombe Down	10·6	+10	NW'N	3	b	39	92	37	8	5	4	-	[illegible]	[illegible]	2500	1	*
Thorney Island	08·9	-14	WNW	3	b	42	92	40	7	-	-	-	0	0	-	1	*
Lympne ...	07·6	-24	W'N	3	s/r	39	97	38	7	5	-	-	9+	9+	1200	1	4
Manston ...	06·7	-18	W	3	s/r	38	97	38	7	5	2	-	4·6	10	1800	6	*
Shoeburyness ...	07·7	-12	WNW	3	c-bs/r	37	92	35	5	5	-	-	7·8	7·8	1500	6	*
Felixstowe ...	05·6	-18	W'S	4	z0	35	97	34	6	5	-	-	10	10	1500	6	3
Gorleston ...	04·8	-14	W'N	3	o/s	36	85	32	5	5	-	-	10	10	600	7	3
Mildenhall ...	05·3	-4	W	3	z0	35	97	33	6	5	-	-	2·3	2·3	4000	6	*
Cranwell ...	06·0	+14	WNW	3	b	39	92	36	7	-	4	-	0	Tr	-	4	*
Birmingham ...	08·6	+8	WNW	5	b	40	92	38	7	-	-	-	0	0	-	1	*
Upper Heyford	08·5	+12	NW	4	bc	39	92	36	7	5	4	-	2·3	4·6	3000	6	*
Ross-on-Wye	10·3	+16	SW'W	3	b	41	75	34	8	5	-	-	1	1	3000	1	*
Hartland Point	14·3	+30	N	4	bc	48	75	40	8	4	1	-	4·6	4·6	1500	1	5
Bristol ...	11·6	+18	NW	2	z0	41	85	37	6	5	-	-	2·3	2·3	4000	1	*
Portland Bill ...	10·7	0	SW	5	b-bc	48	85	46	8	5	-	-	2·3	2·3	2500	1	5
Plymouth ...	13·8	+10	N'W	5	b	47	75	40	8	-	-	1	0	Tr	-	1	4
The Lizard ...	14·3	+6	N	7	c-bc/r	48	97	48	7	8	6	-	7·8	7·8	1500	1	5
Scilly (St. Mary's)	16·4	+10	NW	5	c/pr	50	92	49	8	8	6	-	7·8	9	1200	1	5
Guernsey ...																	
Pembroke ...	14·3	+20	N'W	5	c-bq	47	75	39	8	8	-	-	7·8	7·8	3000	1	3
Holyhead (Valley)	12·6	+22	NW'N	7	c-bc	46	65	36	8	8	3	-	2·3	7·8	2500	1	4
Chester (Sealand)	03·2	+20	NW'W	7	pr0	44	75	37	8	8	4	-	4·6	9	2500	1	*
Manchester ...	09·1	+18	NW	3	z0	40	85	35	6	5	3	-	Tr	2·3	2500	6	*
Spurn Head ...	04·3	+14	NW'W	5	b-bc	39	85	35	7	-	3	-	0	2·3	-	6	5
Catterick ...	06·3	+22	WNW	4	b	40	75	32	8	-	3	-	0	Tr	-	1	*
Tynemouth ...	04·2	+14	W	3	z0	39	85	34	6	2	-	-	2·3	2·3	2500	1	3
St. Abbs Head	02·1	+16	WNW	5	b	42	65	32	7	5	-	-	1	1	4000	0	4
Leuchars ...	03·3	+16	NW	4	bc	40	65	30	8	5	-	8	1	4·6	3000	3	*
Renfrew (Abbots I.)	06·7	+12	WNW	6	b-bc/pr	41	75	34	7	3	-	-	2·3	2·3	2000	2	*
Eskdalemuir ...	05·2	+20	NW	7	b	39	65	30	8	-	-	-	0	0	-	7	*
Point of Ayre ...	09·5	+18	NNW	6	c-bc	46	85	40	8	9	-	-	7·8	7·8	1000	1	5
Tiree	09·5	+14	NW'W	6	c	45	65	35	8	8	-	-	9+	9+	2500	1	7
Stornoway ...	04·3	+10	WNW	8	bc	42	65	32	7	5	-	-	4·6	4·6	3200	1	*
Dalwhinnie ...	04·2	+16	WNW	4	ir0	36	75	29	8	5	-	-	4·6	4·6	2500	8	*
Aberdeen † ...	01·0	+12	NW	4	b-bc	40	65	31	7	5	-	-	2·3	2·3	4000	4	3
Wick ...	97·3	+10	NW	8	pr0	39	85	34	7	9	-	-	4·6	4·6	2000	1	*
Sumburgh ..	88·5	+34	NNW	9	pr0	42	85	37	6	3	-	-	7·8	7·8	1500	1	5
Blacksod Point	18·0	+10	NNW	5	c	47	92	45	8	8	-	-	9+	9+	2500	1	4
Malin Head ...	12·3	+14	N'W	6	ir0	46	65	36	8	8	2	-	4·6	9+	1500	2	5
Aldergrove ...	12·5	+18	NW'W	4	c	42	75	35	8	5	-	-	9	9	2500	1	*
Birr Castle ...	16·2	+18	WSW	3	c	44	75	37	8	5	1	-	7·8	9	2500	1	*
Valentia Obsy.	20·2	+10	NNW	4	bc	48	75	41	8	5	-	-	4·6	4·6	2500	1	4
Roches Point	18·2	+18	NNW	5	c-bc	47	85	43	8	5	-	-	7·8	7·8	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 30th Hrs. (38)
London (Kew)	38	32	28	Tr	5	3·0
Croydon ...	38	31	29	-	5	1·9
S. Farnborough	37	31	27	-	4	4·9
Boscombe Down	37	31	27	Tr	3	4·8
Thorney Island	38	31	27	-	8	*
Lympne ...	37	30	28	Tr	9	3·4
Manston ...	40	31	30	Tr	6	0·0
Shoeburyness ...	37	32	28	2	8	3·3
Felixstowe ...	40	32	31	1	5	3·2
Gorleston ...	41	32	32	Tr	1	0·3
Mildenhall ...	34	29	25	1	6	2·6
Cranwell ...	36	31	30	-	8	1·2
Birmingham ...	35	30	30	-	6	1·7
Upper Heyford	36	31	29	Tr	3	*
Ross-on-Wye	38	34	30	-	1	3·8
Hartland Point	41	38	37	-	5	1·9
Bristol ...	38	33	31	-	4	3·7
Portland Bill ...	38	34	*	-	2	*
Plymouth ...	39	37	34	-	4	3·4
The Lizard ...	41	42	*	-	2	2·8
Scilly (St. Mary's)	43	40	*	2	1	0·0
Guernsey ...						
Pembroke ...	42	*	*	1	6	0·0
Holyhead (Valley)	41	38	36	-	12	*
Chester (Sealand)	39	34	32	-	5	2·7
Manchester ...	36	31	31	-	5	*
Spurn Head ...	42	32	*	Tr	5	1·0
Catterick ...	36	33	31	Tr	Tr	0·0
Tynemouth ...	41	32	31	-	2	*
St. Abbs Head	37	30	*	-	-	*
Leuchars ...	36	34	28	Tr	1	0·0
Renfrew (Abbots I.)	37	33	31	1	8	0·0
Eskdalemuir ...	33	31	31	0·2	13	0·0
Point of Ayre ...	39	35	*	0·4	11	0·0
Tiree	45	42	40	14	2	0·0
Stornoway ...	47	38	37	12	2	0·0
Dalwhinnie ...	30	30	26	2	7	0·0
Aberdeen † ...	35	31	31	0·1	2	0·0
Wick ...	36	36	30	*	2	*
Sumburgh ..	39	39	34	Tr	12	0·0
Blacksod Point	51	45	*	8	1	*
Malin Head ...	45	43	*	3	3	0·0
Aldergrove ...	36	32	32	4	3	0·0
Birr Castle ...	39	38	37	4	1	0·0
Valentia Obsy.	48	47	44	4	1	0·0
Roches Point	43	*	*	4	3	*

Abridged observations of additional stations in the AVIATION WEATHER CODE

III	13h. G.M.T. 30th December $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 31st December $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
109	52	02766	18428	02	72548	48678	5-	25653	55883	57	22654	60866
115	54	02844	16425	52	83735	16588						
203												
206	52	02855	22328	62	72645	52578	84	81863	25483	86	25865	25486
210	52	02864	18428	5-	73558	18578	50	22982	59563	8-	81867	59717
220	62	63746	16578	62	22335	24668				80	02657	28727
230	52	02865	00028	02	68528	18368	3-	0-855	61775	8-	25854	26784
245	52	02865	26228	02	74238	51478	50	05532	18272	53	05654	22314
260	--	44003	20149	02	61748	20478	00	05690	20270	50	05662	23312
278	5-	02848	14218	02	64648	52468	02	05635	60665	26	01753	29624
279	57	02763	29118	52	68655	18578	50	22753	24363	50	01851	26211
285	5-	03748	28428	5-	03748	30528						
288	32	26557	26488	52	05655	16325	50	24654	18474	04	01890	24811
575	57	02861	24228	62	68638	51578	50	01842	28322	86	01844	61424
301	51	05662	30228	52	05646	22328	62	52644	57568	00	01650	61452
321	53	05665	63487	02	08490	24228	52	62644	51478			
299				5-	02757	28327				54	01754	26414
292	52	02668	28387	57	05663	21228	5-	24644	20374	50	05661	27211
310	--	08426	26416	--	02428	24428				--	01634	24414
614	03	05590	28383	07	08490	26228	02	68558	54478	04	23338	25378

III	13h. G.M.T. 30th December $C_L C_M$	wwVhN$_h$	DDFWN	18h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN	01h. G.M.T. 31st December $C_L C_M$	wwVhN$_h$	DDFWN	07h. G.M.T. $C_L C_M$	wwVhN$_h$	DDFWN
333	57	02961	29128	52	61856	20328	02	58548	56568	86	80655	59487
334	--	02554	06216	--	03645	06128						
340	5-	05661	28128	07	05690	20228	62	68555	20378	53	01752	30313
136	80	02864	32584	5-	05668	29499	--	74309	53479	53	05663	25475
336	03	01790	04415	57	02654	24828				57	02754	28427
350	53	05665	30415	00	05550	26320	--	74309	20479	00	05690	26460
368	00	02890	28317				62	62545	55568	83	01753	12245
379	00	01790	63513	07	05690	28428	02	78423	55678	5-	05647	26477
390	50	05653	63474	02	08490	18428	5-	83348	20388	50	05543	20373
882	00	05680	64414	00	05690	28228	--	72509	20379			
438	50	05543	30513	50	05544	30314	5-	05548	30518	80	01744	24364
430	50	01651	61511	00	05690	26313	5-	66658	22468	50	05641	28361
409	51	02961	32427	51	02855	28327	02	64618	53768	5-	02855	29565

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 31st December
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	bcpS0z0	c⊕bcbz0	bbc0gbc	
Croydon ...	cm0bcm0	bcm0bf	bm3rs	
Greenwich ...	cm0	bcb⊕	csrcb	Kew 24 hours ended 7h. Max. Time
Camden Square	c	bc	*	
Kensington ...	bc	bc	*	0·5 19–21h
Hampstead ...	bc	cosx	bc	Min. 30th 0·1 1–3h 31st

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	38	32	28	Tr	5	3·0	*	*
Croydon ...	38	31	29	-	5	1·9	*	*
Greenwich ...	38	31	27	-	6·1	2·2	69	81
Westminster ..	40	33	29	5·4		*	65	83
Regents Park ...	40	32	30	-	-	*	71	82
Camden Square	36	32	29	-	7·1	*	*	84
Kensington ...	39	32	29	-	5·7	*	78	86
Hampstead ...	37	29	25	-	4·1	*	*	89