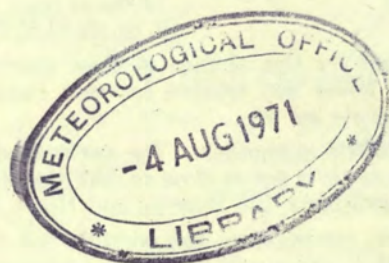


SECRET

# THE DAILY WEATHER REPORT

DUPLICATE



BRITISH SECTION

1st October to 31st December

1941



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



# INTRODUCTION

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

## NOTES REGARDING THE BRITISH SECTION.\*

**Description of each issue:**—The British section is issued daily by 5 p.m. (except that Sunday's issue is printed on Monday) and contains—

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

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

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

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

(e) On p. 2, a table of weather reports from Auxiliary Stations the positions of which are shown in the Map on p. III.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## THE INTERNATIONAL AND UPPER AIR SECTIONS.\*

The other two sections of the Daily Weather Report are Royal quarto in size. The International Section contains 4 pp. per day and is issued daily by 5 p.m., but the issues for Saturday and Sunday are made on Monday. The "International Section" contains information received from the Continent of Europe, the Mediterranean Basin, Iceland and the Azores, and from ships on the Atlantic, arranged as follows:—

- (a) Two weather maps (Scale 1 : 20,000,000) for Europe, the Mediterranean and Eastern Atlantic for 18h. yesterday and 7h. to-day.
- (b) Two inset maps (Scale 1 : 20,000,000) for Northwest Europe for 13h. yesterday and 1h. to-day.
- (c) Table of meteorological observations taken at about 80 stations, mostly on the Continent of Europe (not for the British Isles).
- (d) Table of meteorological observations received by Wireless Telegraphy from Ships on the Northern Atlantic.

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

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

\* Data available for publication under war conditions are necessarily incomplete.

## THE BEAUFORT SCALE OF WIND FORCE

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

## GALE WARNINGS\*

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

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

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

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

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

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

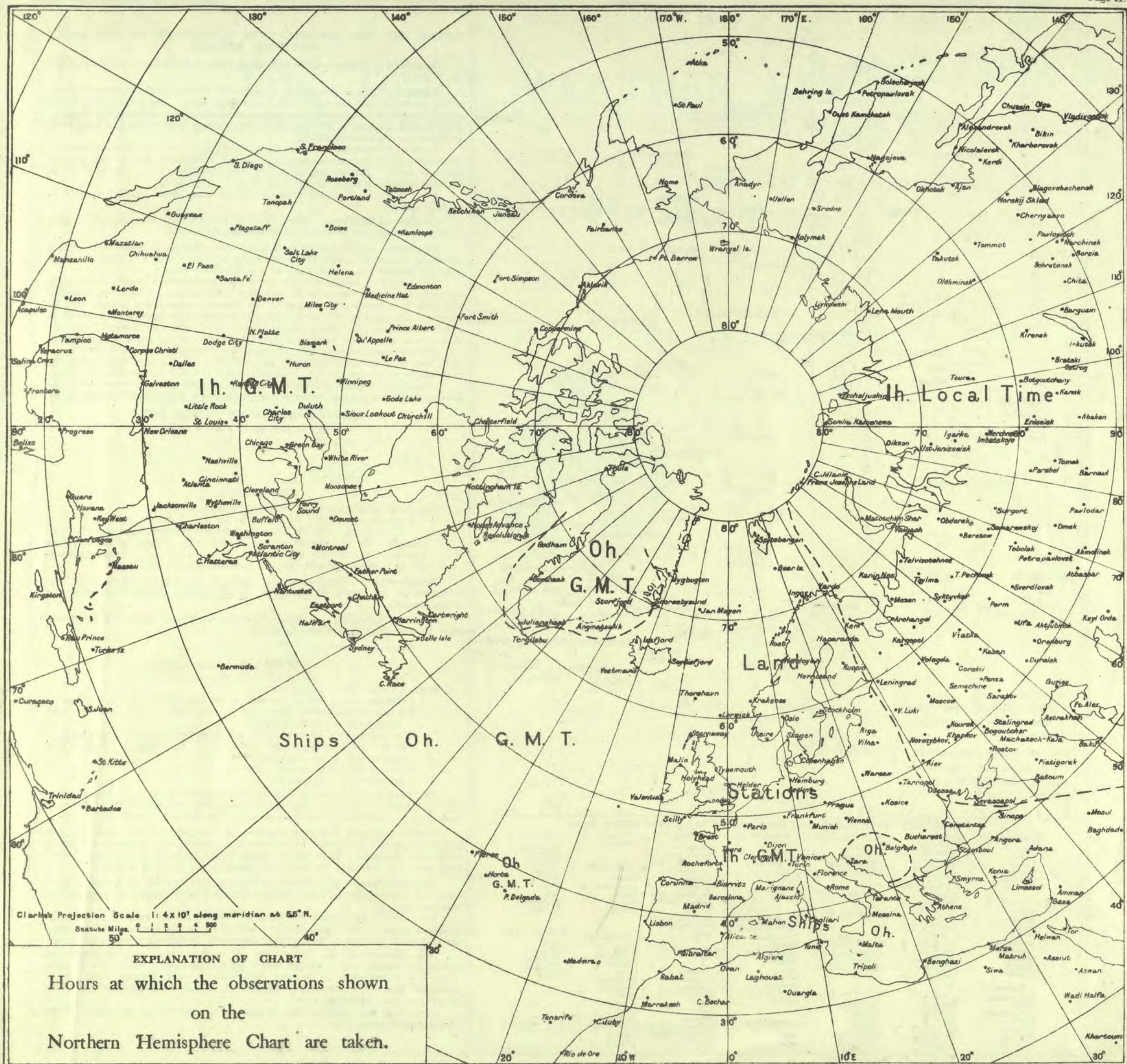
▲ North Cone hoisted:

▼ South Cone hoisted:

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

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









**FORECAST DISTRICTS and the Counties comprised within them**

1. England, S.E. Kent. Sussex. Surrey. Hampshire. Berkshire. Wiltshire.	4. Midlands, W. Gloucester. Hereford. Worcester. Shropshire. Stafford.	8. England, N.W. Cheshire. Lancashire. Westmorland. Cumberland.	11. Scotland, S.E. (cont.) Linlithgow. Clackmannan. Kinross. Fife. Forfar.	13. Scotland, N.W. Hebrides. Western parts of Inverness, Ross and Cromarty, Sutherland. (Boundary line runs from Rannoch Station through Fort Augustus, Beaulieu and Lairg to Melville.)	16. Orkneys and Shetlands.	19. Ireland, S.E. Waterford. Wexford. Kilkenny. Carlow. Wicklow. Offaly. Leix. Kildare. Dublin.
2. England, E. Essex. Middlesex. Hertford. Bedford. Huntingdon. Cambridge. Suffolk. Norfolk. Lincoln.	5. England, S.W. Dorset. Somerset. Monmouth. Devon. Cornwall.	9. Midlands, N. Derby. Yorkshire, W.	12. Scotland, S.W., and Isle of Man.	14. Mid Scotland. Perth.	17. Ireland, N.W. Galway. Roscommon. Mayo. Sligo. Leitrim.	20. Ireland, S.W. Cork. Kerry. Limerick. Tipperary. Clare.
3. Midlands, E. Buckingham. Oxford. Northampton. Warwick. Leicester. Rutland. Nottingham.	6. Wales, S. Glamorgan. Brecknock. Carmarthen. Pembroke. Cardigan. Radnor.	10. England, N.E. Yorkshire, N. & E. Durham. Northumberland.	11. Scotland, S.E. Isle of Man. Dumfries. Kirkcudbright. Wigtown. Ayr. Lanark. Renfrew. Dumbarton. Stirling.	15. Scotland, N.E. Kincardine. Aberdeen. Banff. Elgin. Nairn. Caithness. Eastern parts of Inverness, Ross, Sutherland.	18. Ireland, N.E. Meath. West Meath. Longford. Cavan. Fermanagh. Monaghan. Louth. Armagh. Down. Antrim. Londonderry. Tyrone. Donegal.	

**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 louvered 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.

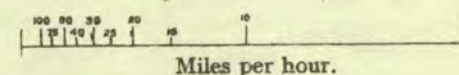
The wind at a height of 1,500–2,000 feet above ground usually blows along the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, e.g., for isobars 1 inch apart for the chart on Page 2 the speed of the upper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

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

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

**GEOSTROPHIC WIND SCALE FOR**

8 mb isobars on 1:4 × 10<sup>7</sup> Charts.  
or 2 mb " " 1:10<sup>7</sup> " "



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 formulae:—

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

$$x = f - .444(t - f) \text{ for wet bulb readings above } 32^\circ \text{ F.}$$

$$x = f - .400(t - f) \text{ for wet bulb readings below } 32^\circ \text{ F.}$$

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

$f'$  the wet bulb temperature.

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

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

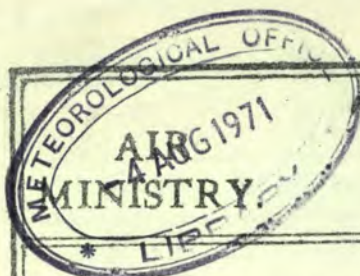
**Adjusted Readings.**—Where an instrumental reading is found to be in error and some adjustment is necessary, such adjusted reading is published in brackets thus (59).

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

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

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





DUPLICATE

**SECRET**  
MONTHLY  
SUPPLEMENT,

Page 1.

# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

November 1941 No. 299

## Dull

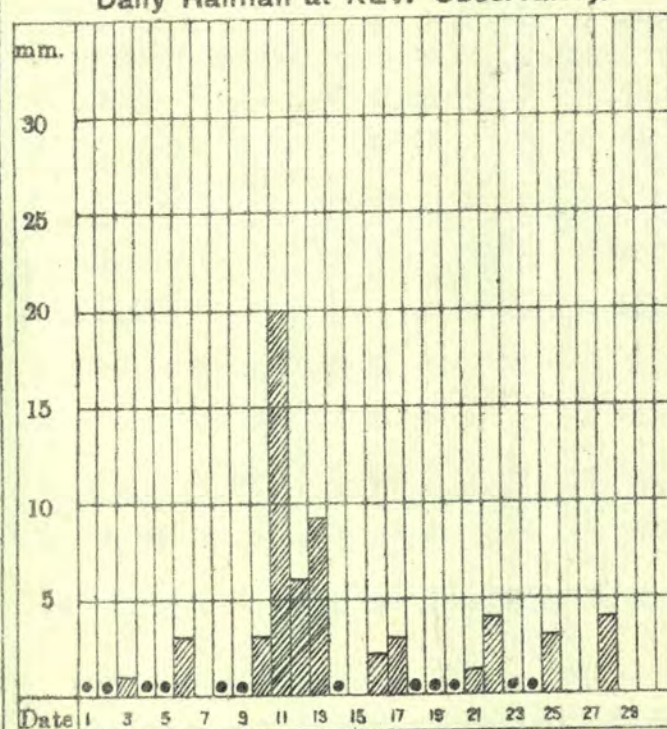
The month opened dull and rather cold generally, an easterly type of weather prevailing for the first few days, with some showers, accompanied occasionally by hail and thunder, on the Eastern Coasts. On the 5th, however, cyclonic activity became evident in Iceland, and as a depression developed, it moved east-southeast and the anticyclone receded southwestwards, so that by the evening of the 5th, a westerly air current had become established over the whole the country, with gales in the North and West. As the depression moved away eastward, a fine spell ensued in its rear with some good sunshine records on the 8th (8 hrs being recorded at South Farnborough, Felixstowe, Calterick and Leuchars). The fine weather was short-lived however, as a very deep depression moved up from the Azores on the 9th, and then moved slowly northward over Ireland. As pressure remained high to the East a severe south to southeast gale developed over the country, persisting for three days in the Northeast. The depression brought mild air from low latitudes over the country and maxima of 55°-60°F were general for several days. As the depression moved away northward pressure became uniform over the country and fog occurred widely on the 14th. A depression on the Atlantic soon began to influence the country and gales and rain spread across from the West on the 16th. Another foggy spell ensued as this depression filled up, but by the 20th, the first of a family of disturbances from the Atlantic affected the British Isles, and mild conditions with occasional rain and southerly gales were general for a week. On the 25th, an exceptionally deep depression (lowest pressure 946 mbs) crossed Iceland and as it moved away, a large anticyclone developed across the North of Scotland by the 29th, bringing a return to conditions similar to those prevailing at the beginning of the month.

Sunshine was generally deficient except in the North of Scotland, and Sealand, Renfrew and Aberdeen all had their dullest November on record, the total of 15 hrs at Aberdeen being exceptional, less than a third of the average.

Rainfall was above average in England, Ireland and Eastern Scotland, but rather below it in the remainder of Scotland.

Gales were frequent and a wind speed of about 60 mph was reported from Wick for some hours on the 11th. Among the highest gusts recorded during the month were 88 mph at Pembroke on the 10th, 86 mph at Stornoway on the 26th, and 75 mph at Lizard on the 22nd. The aurora was reported in Scotland on the 18th-21st.

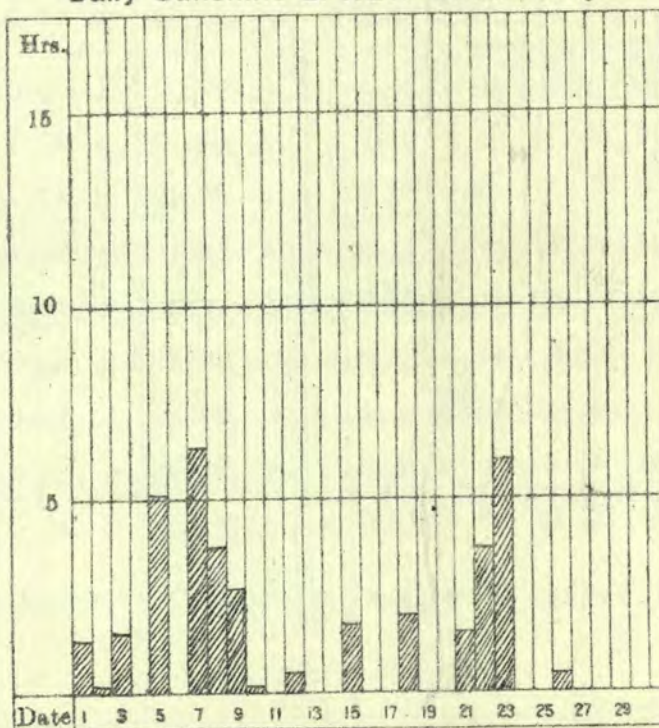
Daily Rainfall at KEW Observatory.



● = Less than 0.5 mm.

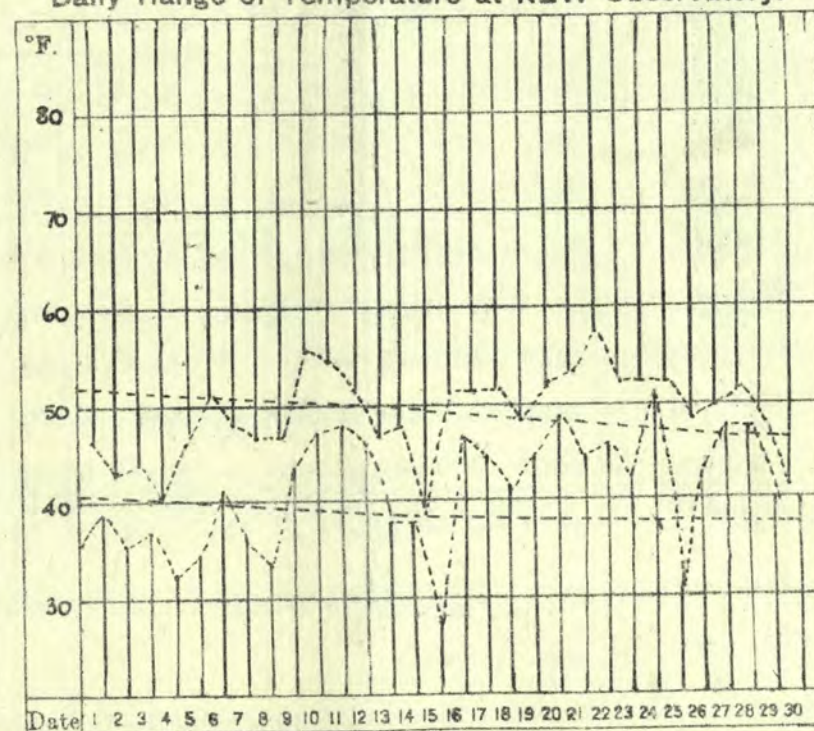
RAINFALL. Total for Month. 64 mm.

Daily Sunshine at KEW Observatory



SUNSHINE. Total for Month. 39 hrs.

Daily Range of Temperature at KEW Observatory.



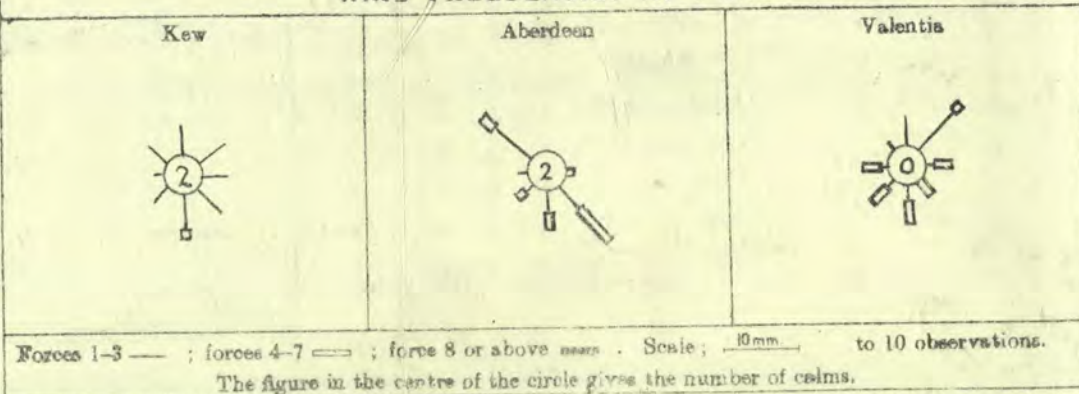
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.\*

STATIONS.	PRESSURE		TEMPERATURE	
	Mean	Difference from average	Mean	Difference from average
Kew	mb. 1013.8	mb. -0.8	°F. 45.3	°F. +1.0
Aberdeen	1011.5	+1.7	43.7	+1.4
Valentia	1005.7	-3.3	*	*

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

WIND FREQUENCIES AT 7 hr.



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

	miles.
Kew	...
Aberdeen	...
Lerwick	17921
Valentia	...



## SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

District.	STATIONS.	↑ TEMPERATURE.												LOW CLOUD.						FOG, MIST and GOOD VISIBILITY.																					
		Number of daily readings within fixed limits.						Extremes—Warmest and Coldest.						Number of observations within fixed limits.						Number of observations within fixed limits.																					
		Maximum.			Average Maximum.	Minimum.			Average Minimum.	Days.			Nights.			Number of Ground Frosts.	7 h.			13 h.			7 h.			13 h.															
		32° or below	33°-41°	42°-50°		51°-59°	60°-68°	23° or below		24°-32°	33°-41°	42°-50°	51°-59°	Highest Max.	Lowest Max.		Highest Min.	Lowest Min.	Below 1,000 ft.	1,000-5,000 ft.	5,000-8,000 ft.	Below 1,000 ft.	1,000-5,000 ft.	5,000-8,000 ft.	Below 1,000 ft.	1,000-5,000 ft.	5,000-8,000 ft.	Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.	Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.				
1	London (Kew Obsy).	0	3	13	14	0	48.6	0	2	13	14	1	40.0	58	22	39	15	52	25	28	16	7	1	27	0	0	28	0	0	24	0	0	2	1	1	0	0	2	1	2	
	Croydon	0	3	12	15	0	49.1	0	2	13	14	1	39.4	59	22	39	15	52	25	28	16	7	11	14	1	6	22	0	4	19	0	0	0	1	6	7	0	0	0	4	12
	Thorney Island...	0	2	8	20	0	50.2	0	3	12	14	1	41.5	57	10	40	4	52	25	27	5	8	3	21	4	3	25	1	1	17	6	0	0	1	2	13	0	0	0	0	16
	Lympne	0	3	13	14	0	47.3	0	5	12	13	0	39.4	57	18	36	15	50	25	29	16	9	12	12	1	11	16	0	12	11	1	0	0	1	5	7	0	0	1	1	12
2	Shoeburyness...	0	2	15	13	0	49.2	0	2	15	13	0	39.0	56	23	39	15	50	25	26	9	6	3	17	3	6	16	1	5	13	3	0	0	4	2	7	0	0	0	1	12
	Gorleston	0	1	20	9	0	48.6	0	2	11	17	0	40.8	57	23	39	15	50	25	30	9	4	5	23	0	6	21	0	8	20	0	0	0	0	1	7	0	0	0	1	13
	Cranwell	0	2	21	7	0	47.1	1	3	16	10	0	37.1	57	24	40	15	48	25	23	9	7	7	17	0	8	19	0	5	18	0	0	1	5	5	3	0	0	2	6	8
3	Birmingham (Edgbaston)	0	4	17	9	0	46.9	0	1	18	11	0	39.0	55	24	38	15	49	21	31	16	4	9	16	0	10	19	0	8	18	0	0	3	4	4	4	0	0	4	4	10
4	Ross-on-Wye	0	2	13	15	0	48.4	0	2	14	13	1	39.0	57	24	40	15	52	21	31	1	8	4	23	0	3	25	0	5	22	0	0	1	4	2	12	0	1	0	2	15
5	The Lizard	0	0	3	27	0	*	0	0	5	22	3	*	58	10	47	3	51	21	35	3	*	0	30	0	1	29	0	2	28	0	0	0	0	28	0	0	1	0	27	
7	Holyhead	0	0	11	19	0	49.7	0	1	11	18	0	44.4	58	22	45	30	50	27	32	16	4	3	26	0	5	25	0	3	25	0	0	0	1	18	0	0	0	0	21	
8	Chester (Sealand)	0	1	16	13	0	48.3	0	2	11	17	0	38.2	58	24	36	16	55	24	29	5	5	2	23	2	6	21	2	2	24	0	0	1	17	3	3	0	0	4	3	7
10	Tynemouth	0	0	25	5	0	47.5	0	2	9	19	0	40.4	53	21	42	8	48	23	31	9	2	1	29	0	0	27	0	1	27	1	0	0	1	0	12	0	0	1	2	14
11	Leuchars	0	0	23	7	0	46.7	0	3	17	9	1	36.3	55	24	42	8	51	27	25	9	12	3	25	0	3	24	0	5	20	0	0	0	1	2	14	0	0	0	0	16
12	Renfrew	1	4	16	9	0	46.1	0	7	15	7	1	36.1	56	24	32	19	51	27	25	8	18	5	24	0	4	25	0	4	25	0	0	4	5	2	3	1	1	4	5	9
	Eskdalemuir	0	4	22	4	0	43.9	1	9	15	5	0	34.3	52	11	37	9	44	6	22	9	14	12	15	0	11	16	0	13	15	0	0	1	1	0	17	0	0	1	0	13
13	Stornoway	0	0	23	7	0	47.2	0	0	13	17	0	39.6	54	11	42	16	50	23	33	8	*	0	28	0	1	29	0	1	29	0	0	0	0	27	0	0	0	0	29	
15	Aberdeen	0	2	23	5	0	46.2	0	1	14	15	0	38.3	54	25	40	8	49	27	26	9	8	9	21	0	8	21	0	10	17	0	0	0	0	11	0	0	1	0	6	
18	Aldergrove	0	1	19	10	0	*	0	4	17	9	0	*	56	24	38	28	49	27	27	29	9	7	22	1	8	22	0	7	20	0	0	2	2	1	16	0	2	0	1	17
19	Birr Castle	0	1	12	17	0	48.6	0	9	9	10	2	38.2	56	11	41	29	52	26	26	4	8	2	20	0	0	24	0	2	21	0	0	0	2	0	28	0	0	0	0	30
20	Valentia (Cahiriveen)																																								
UPPER AIR TEMPERATURE.												UPPER WINDS.																													
												No. of records of Velocity (km./hr.) within fixed limits.																													
Pressure.	Normal Height.	MILDERHALL.				ALDERGROVE.				STATION				LYMPNE.				PLYMOUTH (Mt. Batten).				HOLYHEAD.				RENFREW.				STATION.											
		Normal Temp.	Mean.	No. of Reports.		Mean.	No. of Reports.	Mean.	No. of Reports.	Height.	No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Height.						
mb.	Feet.	°F.	°F.		°F.		°F.		Metres.		kilometres per hour.					kilometres per hour.					kilometres per hour.					kilometres per hour.															
950	1740	42	39.5	60	40.4	60			500 above ground.	44	9	16	18	0	0	9	3	5	0	1	0	8	6	2	0	0	0	25	10	11	2	1	0	500 above ground.							
850	4960	34.2	33.9	60	32.6	60			1000 above M.S.L.	33	3	14	12	3	0	8	2	6	0	0	0	3	1	2	0	0	0	11	3	6	2	0	0	1000 above M.S.L.							
750	7950	25.3	25.7	60	24.1	60			2000 "	14	3	7	4	0	0	4	2	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2000 "							
650	11620	14.2	15.7	60	13.5	60			3000 "	10	3	4	3	0	0	2	0	2	0	0	0	2	0	1	1	0	0	0	0	0	0	0	0	3000 "							
550	15750	0.3	2.7	60	0.2	60			4000 "	3	0	2	0	0	1	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	4000 "							
												* 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.																													

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

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

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



# SUNSHINE, RAINFALL, AND HUMIDITY.....November.....1941.

Page 3.

District.	STATIONS.	SUNSHINE.												RAINFALL.														Days with Thunder.	Days with Snow or Sleet.								
		Number of Days with Duration.				Maximum Duration.	Total for past 12 months.	Difference from average.	Total for Month.	Difference from average.	Highest and Lowest Totals on record for Month.			† Number of days with amount.	Maximum fall in 24 hrs.	Total for past 12 months.	Difference from Average.	Total for Month. †	Difference from Average.	Highest and Lowest Totals on record for Month.																	
		Nil.	0.1—3h.	3.1—6h.	6.1—9h.						Above 9h.	Hours.	Date.							First year of record.	Highest Year.	Lowest Year.	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.	mm.	Date.	mm.	Date.	First year of record.	Highest Year.	Lowest Year.
1	London (Kew Obsy). Croydon Thorney Island... Lympne ...	15 13 Not Recorded 11	10 12 4 10	3 4 1 6	2 1 0 3	0 0 0 0	6.4 6.4 * 7.7	7 7 * 7	1342 1432 * 1658	-127 -93 * -107	39 33 * 56	-14 -19 * -13	1880 1922 1881 1921	81 83 123 108	1883 1923 1909 1925	26 28 43 35	1888 1932 1912 1934	17 11 13 10	0 6 7 7	10 9 4 5	1 1 0 1	0 0 0 0	20 24 15 19	11 11 16 16	706 658 * 708	+100 -21 * -16	64 75 65 83	+8 -11 * +2	1856 1921 1871 1920	172 137 200 172	1940 1940 1940 1940	10 24 10 26	1858 1932 1901 1932	0 0 0 0	0 1 0 2		
2	Shoeburyness... Gorleston ... Cranwell ...	11 * 10	12 * 14	5 * 4	2 * 2	0 * 0	7.7 * 7.6	7 * 8	1463 * 1350	-253 * -188	45 * -21	-21 * -21	1919 1908 1921	104 106 97	1920 1920 1925	43 37 38	1934 1912 1932	14 15 9	6 3 10	6 5 7	4 7 3	0 0 1	0 0 0	14 14 18	12 14 11	480 607 729	-23 -15 +139	57 67 77	+3 +6 +30	1920 1871 1917	138 208 124	1940 1878 1935	17 20 22	1920 1920 1920	1 0 0	1 0 0	
3	Birmingham ... (Edgbaston)	17	11	2	0	0	3.3	25	1135	-165	20	-26	1887	93	1913	13	1912	10	2	13	4	1	0	21	13	831	+157	93	+32	1893	181	1929	17	1920	0	0	
4	Ross-on-Wye ...	10	13	5	2	0	7.7	7	1360	-125	47	-16	1915	108	1923	26	1934	13	5	8	4	0	0	13	22	697	-20	69	+5	1859	227	1929	14	1933	0	0	
5	Falmouth ... (Observatory)	6	12	7	5	0	8.3	13	1658	-52	77	+1	1881	145	1923	38	1917	9	6	6	9	0	0	11	20	1030	-77	90	-32	1871	340	1929	21	1901	0	0	
7	Holyhead ...	Not Recorded	*	*	*	*	*	*	*	*	*	*	1914	124	1925	36	1922	11	8	6	4	1	0	17	16	745	-142	81	-24	1871	204	1877	38	1922	0	0	
8	Chester ... (Sealand)	12	15	3	0	0	5.3	4	1329	-47	33	-20	1928	89	1938	34	1934	9	6	11	4	0	0	13	13	645	+7	72	+13	1922	130	1940	27	1922	0	0	
10	Tynemouth ...	Not Recorded	*	*	*	*	*	*	*	*	*	*	1935	*	*	*	*	12	7	7	3	1	0	20	11	733	+112	76	+22	1915	112	1933	19	1922	0	0	
11	Leuchars ...	14	10	4	2	0	8.2	7	1177	-293	47	-23	1922	101	1925	42	1940	5	5	11	4	1	0	15	13	680	+27	76	+18	1922	129	1931	13	1937	0	1	
12	Renfrew ... Eskdalemuir ...	20 12	7 9	2 6	1 3	0 0	7.2 7.7	7 7	1088 1132	-105 -69	23 56	-21 +1	1921 1910	60 83	1927 1925	28 28	1932 1938	12 8	4 4	6 10	7 6	1 2	0 0	16 19	13 13	845 1332	-94 -97	85 134	-14 -13	1921 1910	205 297	1938 1938	14 30	1937 1937	0 0	1 1	
13a	Stornoway ...	14	8	7	1	0	6.9	1	1232	+17	49	+3	1881	67	1911	19	1881	8	7	8	6	1	0	17	5	996	-270	109	-35	1870	250	1898	45	1933	0	0	
15	Aberdeen ...	15	12	3	0	0	5.7	25	1124	-205	19	-40	1881	83	1904	32	1924	7	5	7	7	4	0	19	10	867	+119	145	+70	1871	184	1940	31	1904	0	2	
18	Aldergrove ...	13	12	2	3	0	7.0	3	1148	*	47	*	1927	77	1930	35	1939	12	7	2	7	2	0	21	22	877	+39	101	+19	1926	135	1931	18	1934 1937	0 0	0 0	
19	Birr Castle ...	12	10	8	0	0	5.3	13	1163	-143	56	-5	1881	95	1881 1909	26	1917	10	5	10	2	2	1	31	10	771	-55	127	+48	1862	188	1939	21	1922	*	*	
20	Valentia ... (Cahirciveen)												1880	118	1909	33	1917														1866	310	1931	20	1879		

MINIMUM SURFACE HUMIDITY.											STATE OF GROUND AT 18 h.														
No. of Days (MDT. to MDT.) WITH MINIMA BETWEEN FIXED LIMITS.											No. of Days EACH TYPE WAS RECORDED.														
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 %	STATIONS.	0	1	2	3	4	5	6	7	8	9	CODE for State of Ground.			
London (Kew)	0	2	7	10	6	3	2	0	0	0	London (Kew)	0	30	0	0	0	0	0	0	0	0	0	0	0	Dry.
Ross-on-Wye ...	0	2	4	12	11	1	0	0	0	0	Ross-on-Wye	0	30	0	0	0	0	0	0	0	0	0	0	0	1 Wet.
Falmouth (Obsy.)	*	*	*	*	*	*	*	*	*	*	Renfrew	2	27	0	1	0	0	0	0	0	0	0	0	0	2 Flooded.
Renfrew ...	1	2	8	12	4	3	0	0	0	0	Eskdalemuir	0	29	0	1	0	0	0	0	0	0	0	0	0	3 Frozen hard and dry.
Eskdalemuir ...	0	0	9	7	11	2	0	1	0	0	Aberdeen	0	29	0	0	1	0	0	0	0	0	0	0	0	4 Partly covered with snow or hail.
Aberdeen ...	1	5	10	3	8	3	0	0	0	0	Valentia	*	*	*	*	*	*	*	*	*	*	*	*	*	5 Covered with ice or glazed frost.
Valentia ...	*	*	*	*	*	*	*	*	*	*															6 Covered with thawing snow.
																									7 Covered with snow, less than 6 ins., but ground not frozen.
																									8 Covered with snow, less than 6 ins., and ground frozen.
																									9 Covered with snow, greater than 6 ins. deep.

† Based in part on reports made by telegraph in which the day and night measurements are rounded off to the nearest whole millimetre. Small discrepancies may arise between these totals and those given in the Monthly Weather Report which are based on readings taken to 0.1 mm.

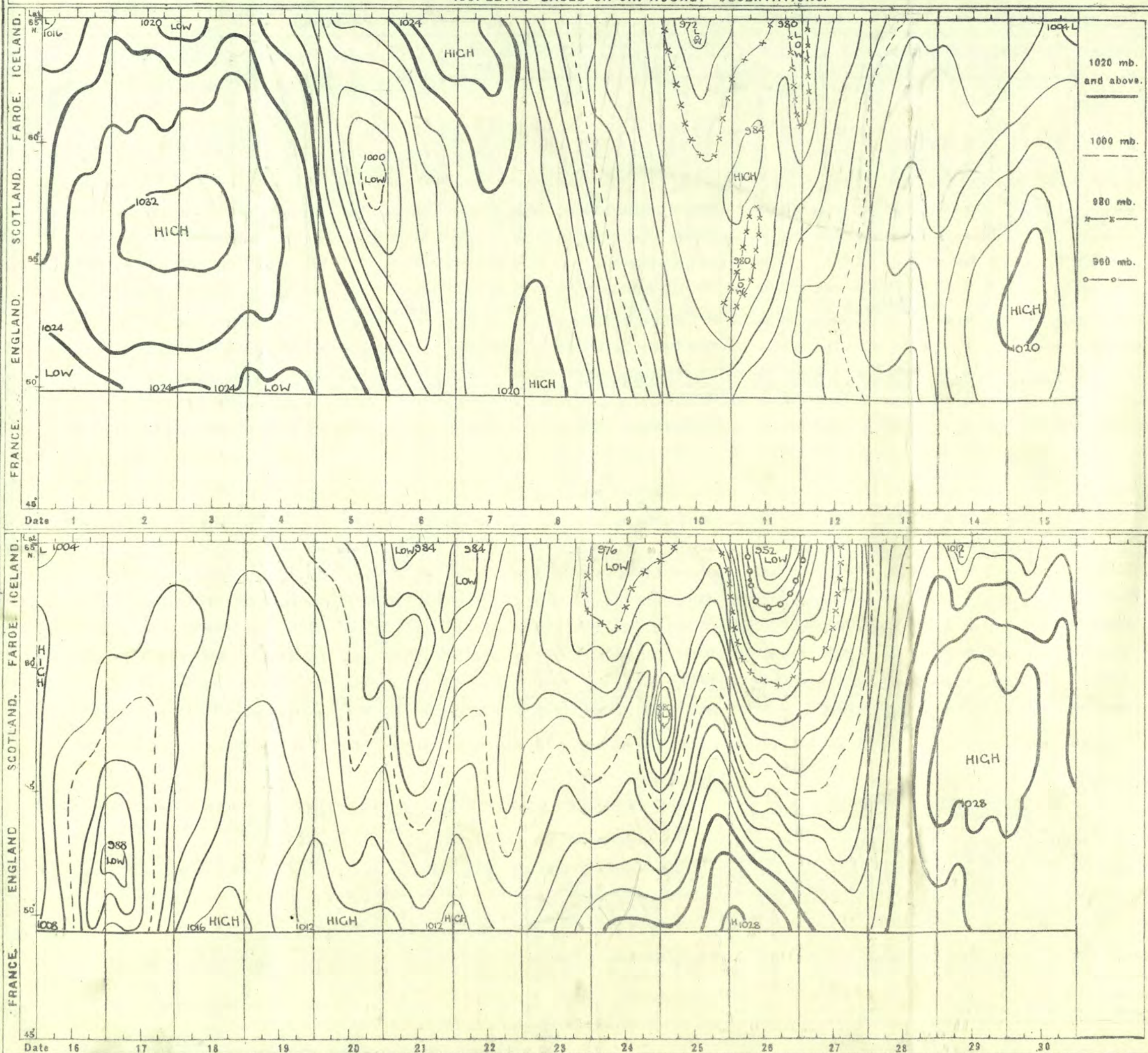


## PRESSURE: ICELAND TO GULF OF LIONS

November

1941

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 19h. 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.



THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
BRITISH SECTION  
Saturday 1st November 1941.  
No. 29, 199

[illegible]

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).  
bc, sky partly cloudy (one half covered). c, generally cloudy.  
d, drizzle. e, wet air. g, gloom.  
f, fog, visibility 220-1100 yds.  
F, thick fog „ less than 220 yds.  
fs, low fog over sea (coast station).  
fg, low fog over land (inland station).  
m, mist, visibility 1100-2200 yds.  
h, hail. i, intermittent.  
jf, fog at a distance, but not at station.  
jp, precipitation within sight of station.  
ks, storm of drifting snow.  
k/s, slight storm of drifting snow (generally low).  
k/S, heavy storm of drifting snow (generally low).  
s/k, slight storm of drifting snow (generally high).  
S/k, heavy storm of drifting snow (generally high).  
KQ, line squall. l, lightning.  
o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.  
rs, sleet. t, thunder.  
u, ngly, 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<sub>o</sub>, 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 con-  
ditions thus:—bc/r, fair weather  
after rain; —, has decreased;  
+, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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

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

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

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

† Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

Cloud form abbreviations:--

Cirrus, -Ci:    Cirrocumulus, -Cc:    Cirrostratus, -Cs:    Alto cumulus, -Ac:    Altostratus, -As:  
Stratocumulus, -Sc:    Stratus, -St:    Nimbostratus, -Ns:    Cumulus, -Cu:    Cumulonimbus, -Cb:

COLUMN 29 —STATE OF GROUND

- | COLUMBIA |                                     | STATE OF |  |
|----------|-------------------------------------|----------|--|
| 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., but ground frozen.                |
| 2 . . .  | " flooded.                          | 9 . . .  | " covered with snow greater than 6 ins. deep.                            |
| 3 . . .  | " frozen hard and dry.              | - . .    | Fresh snow has fallen in the mountains.                                  |
| 4 . . .  | " partly covered with snow or hail. |          |  |
| 5 . . .  | " covered with ice or glazed frost. |          |  |
| 6 . . .  | " covered with thawing snow.        |          |  |

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

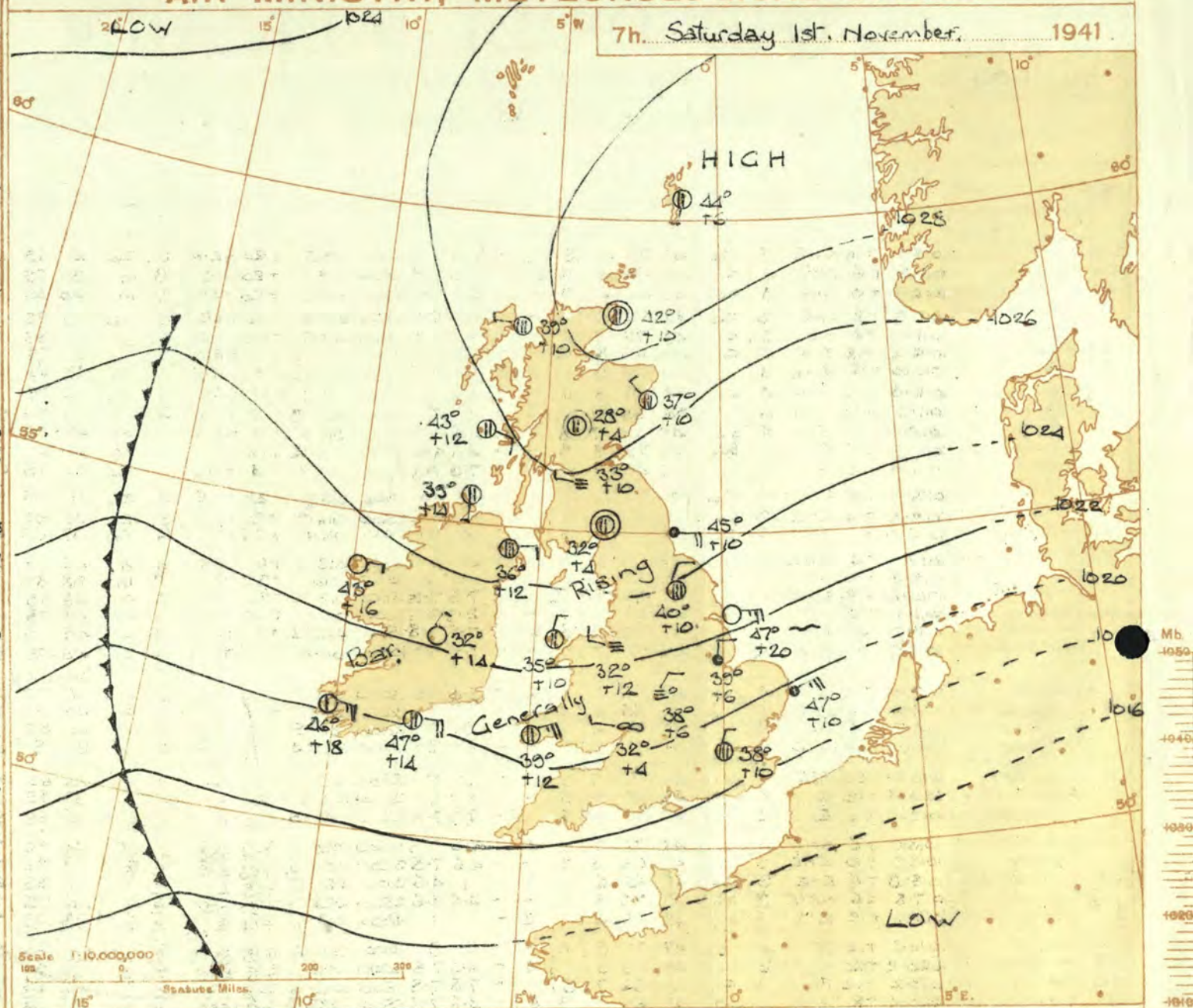


Abridged observations of additional stations in the AVIATION WEATHER CODE															
13h. G.M.T. 31st October								01h. G.M.T. 1st November							
III	C	ww	V	N	DD	FWN	C	C	ww	V	N	DD	FWN	C	C
109	87	10245	15485	52	00853	12323	5-	02745	10415	5-	02856	20286			
115	74	02044	12325	54	01944	12226	54	01853	12224						
203	13	01244	04215							04	01950	12413			
206	8-	02855	12465	53	01962	10414	53	01864	10214	53	01854	00015			
210	83	02953	10324	46	01553	10184	03	02890	00017	53	01961	08114			
220	80	01855	03385	80	01746	12266				50	01854	14314			
230	86	02065	09157	54	00863	04213	53	01864	10214	5-	02866	00016			
245	8-	81857	08467	84	25766	22345	86	25954	08483	86	81955	32386			
260	23	02853	08225	9-	81558	00088	5-	05665	04185	50	04563	00024			
278	24	01963	10424	80	00861	11311	00	00890	17110	50	00761	12201			
279	84	01864	04314	50	01764	04114	04	03630	06102	00	05630	06100			
285	23	81655	04335							23	01743	02314			
288	85	25855	13287	4-	05655	00015	5-	41456	06186	8-	25645	10185			
5583	25844	02385		53	02856	06387	5-	02758	10228	00	05630	08200			
301	5-	02756	06396	50	05551	06311	00	05630	05200	04	05590	02200			
321	80	01754	09364	57	01663	08114	23	05551	31212	57	05574	32185			
299	80	11754	12514	8-	01755	08315	30	01753	04313	8-	25748	04588			
292	7-	02876	09246	46	00762	06112	57	05563	27214	8-	10645	28115			
310	--	57209	04569	--	01634	08514				--	03428	04428			
01420	01864	06314		53	05563	06224	00	05590	02262	57	81557	02287			
333	14	01863	08314	5-	05665	04318	00	05630	04310	54	17761	32201			
334	--	05563	08315	--	02643	08314				--	02673	00015			
340	53	05656	07417	40	05651	06311	00	08430	03200	00	45230	04140			
136	86	02865	08385	56	01765	01215	86	25853	04187	86	25856	06287			
336	14	01722	08315	51	01762	08314									
350	56	01754	04264	40	05661	16435	50	05661	02303	7-	05667	32327			
308	20	02757	04517	40	05543	04113	00	08430	07201	50	05662	32204			
279	2-	02756	06446	04	05630	04311									
390	86	05664	04385	50	05662	06213	03	05630	32227	53	02772	04366			
282	80	05644	06214	43	05651	04314	00	05590	00003	57	05666	31317			
405	8-	02746	04516							81	05664	02527			
430	20	01764	32414	5-	02765	04115	00	05630	04215	57	05663	02318			
400	57	01863	05364	50	01765	06113	00	00630	05300						

III - Index Number of Station - See M.O. 252 or list issued on 1st of each month.  
 ww - Present and past weather - See M.O. 252.  
 h, N<sub>h</sub> - Height and amount of low cloud - See M.O. 252.  
 N<sub>t</sub> - Total amount of cloud - See M.O. 252.  
 C, C<sub>u</sub> - Form of low and medium cloud - See page 1.  
 V - Visibility - F - Force of wind - See page 1.  
 DD - Direction of wind - E, 10 - S, 24 - W, 32 - N.

## AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Saturday 1st. November. 1941.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 1st Nov. 1941
1 S.E. England	Moderate N.E. winds, fresh to strong locally on the coast, becoming cloudy or dull; some occasional light rain or drizzle; rather cold.
2 E. England	
3 E. Midlands	
4 W. Midlands	
5 S.W. England	Light to moderate N.E. wind, fresh at times on the coast; mainly fair; rather cold, with frost locally tonight.
6 South Wales	
7 North Wales	Light easterly winds; mainly fine; some local fog at night and in the forenoon; rather cold; frost at night.
8 N.W. England	
9 N. Midlands	Light to moderate easterly winds; variable cloud; bright periods; some local showers; rather cold.
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man	Light variable winds; fair or fine; local valley fog night and morning; cold with frost inland at night.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	As 7-9
18 N. E. Ireland	
19 S. E. Ireland	As 4-6
20 S. W. Ireland	

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

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  
 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.

### GENERAL INFERENCE.

A ridge of high pressure covers Scotland and northeasterly winds prevail over the North Sea, England, Wales and Ireland. Weather will be fair in most western & northern districts, but there will be a few showers in eastern counties. Cloudy to dull conditions will spread to the southeastern half of England with the probability of some drizzle later.

### FURTHER OUTLOOK.

Fair and mainly dry in northern and western districts, but increasing tendency for fog. Probably dull with occasional drizzle in S.E. England.

Forecasts issued at 1030h. G.M.T.

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

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

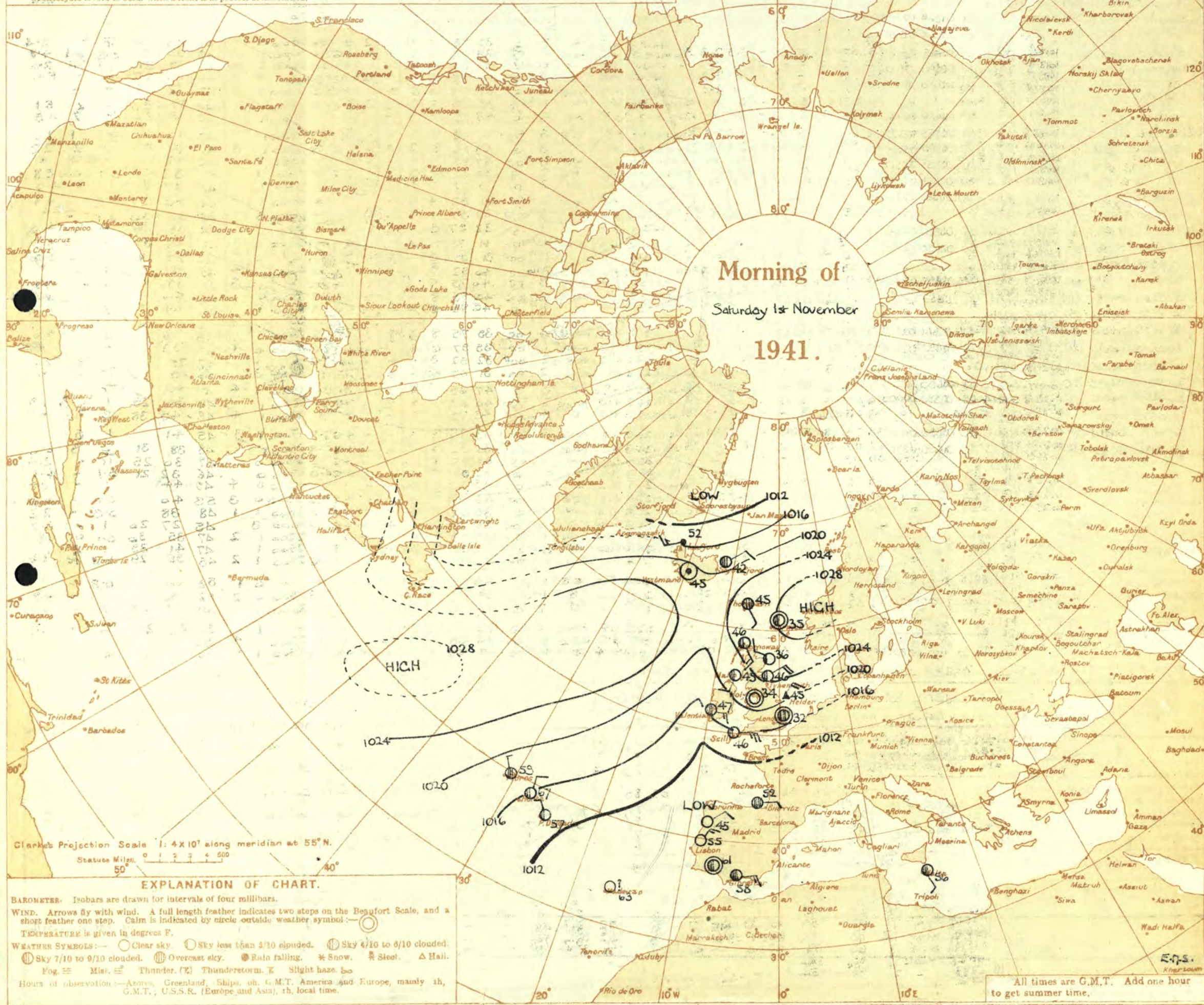
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# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)  
**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.





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Saturday 1st November 1941.  
No. 29,199

OBSERVATIONS at 1 hr. G.M.T. 1st November.....														OBSERVATIONS at 7 hr. G.M.T. 1st November.....														PAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					Barom. at M.S.L. (29)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	TEMPERATURE.			RAINFALL.			SUN-SHINE Hrs.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
					Direc.	Force.					Form.	Amount.	Height of Base (feet).	Direc.	Force.			Form.	Amount.					Height of Base (feet).	Direc.	Force.	Form.	Amount.			Height of Base (feet).	State of Ground.					Sea.	Max. Day 7h-18h °F.	Min. Night 18h-7h °F.	Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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AIR  
MINISTRY.

## THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET

Sunday 2nd November 1941.

No. 29200

OBSERVATIONS at 13h. G.M.T. 1st November														OBSERVATIONS at 18h. G.M.T. 1st November														PAST 24 HOURS.						
DISCRET.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.				Height of Base. (feet) (14)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.				Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.				
				Direc. (3)	Force. 0-12 (4)					Form. (9)	Amount. (10)	Direc. (17)	Force. 0-12 (18)				Form. (23)	Amount. (24)																
																							Low. (11)	Med. (12)	High (13)	Low (25)				Med. (26)	High (27)			
1	London (Kew)...	1020.1	0	NNE	4	z	45	85	6	5	-	7-8	10	1500	1020.9	+8	NNE	4	z	42	85	6	5	-	9	7	2500	1	*	cmoZoy	rcZa	cZc	ccig	
	Croydon ...	1019.7	+14	NNE	4	ir	44	65	6	2	2	-	4-6	10	2000	1020.4	+6	NNE	4	41	75	5	5	-	2-3	10	2000	1	*	bcZa	czZa	cZc	cig	
	S. Farnborough	1020.0	+2	NE	4	1/2pr	46	65	7	2	7	-	4-6	10	3000	1021.1	+12	NE/N	3	42	65	7	5	3	-	9	7	5000	1	*	cmoZoy	rcZa	cZc	bcw
	Boscombe Down	1020.6	-2	NE/N	3	c	45	65	7	8	-	7-8	9	2500	1021.1	+6	NNE	4	38	85	7	8	-	8	4-6	7-8	3000	0	*	bemo	c	boc	bcw	
	Thorney Island	1019.1	0	NE	4	z	48	55	6	2	-	2-3	7-8	2500	1019.7	+4	NNE	3	40	75	6	-	4	7	0	10	-	0	*	bemo	c	boc	bcw	
	Lymington	1018.8	+2	NE/N	2	1/2pr	41	92	8	9	6	3	4-6	9	1500	1019.2	+6	NE/N	3	39	92	6	9	-	10	10	900	1	5	cPR	cPR	cPR	cPR	
	Manston	1018.3	0	NE/N	5	1/2pr	44	65	8	8	6	3	4-6	9	2000	1018.8	+2	NE/N	4	42	85	7	8	2	-	9	10	1200	1	*	prphrmo	cmo	cPR	cPR
2	Shoeburyness ...	1019.4	+2	NNE	4	c	45	65	8	5	-	9	9	3500	1019.7	+6	NNE	3	40	85	8	5	7	-	9	9	1600	1	*	cPR	cPR	cPR	cPR	
	Felixstowe	1018.8	+2	NE	4	1/2pr	43	75	8	8	-	9	9	4000	1019.0	-2	NNE	4	40	92	8	5	-	-	9	9	2500	1	4	cPR	cPR	cPR	cPR	
	Gorleston	1020.3	+14	NNE	6	c	44	65	7	8	-	9	9	1200	1020.7	+6	NNE	6	44	75	6	8	-	-	9	9	800	1	5	cPR	cPR	cPR	cPR	
	Mildenhall	1021.1	+6	NE	4	c	43	85	8	8	-	9	9	3000	1021.9	+8	NNE	4	41	97	8	5	-	-	9	10	4000	0	*	cPR	cPR	cPR	cPR	
	Cranwell	1023.2	+4	NNE	3	c	41	85	9	8	-	9	9	3000	1024.1	+8	NNE	2	39	85	6	5	-	-	9	9	2500	1	*	cPR	cPR	cPR	cPR	
3	Birmingham	1022.1	+2	NNE	3	z	43	85	5	5	7	-	4-6	9	2500	1023.9	+10	NNE	3	39	85	4	5	-	-	9	9	1500	1	*	cPR	cPR	cPR	cPR
	Upper Heyford	1021.5	0	ENE	4	1/2pr	40	85	6	9	-	9	9	500	1022.4	+6	NNE	4	38	85	7	4	6	-	9	9	3000	1	*	cmo	cPR	cPR	cPR	
4	Ross-on-Wye ...	1022.0	0	NNE	2	z	44	75	5	9	-	9	9	3500	1023.0	+6	NE/N	4	41	75	7	5	7	-	7-8	9	3500	1	*	cmo	cPR	cPR	cPR	
5	Hartland Point	1020.6	+2	ENE	5	bc	45	75	7	2	4	-	2-3	4-6	2500	1021.3	+4	NE	4	47	65	7	5	4	-	4-6	4-6	2500	0	3	bc	bc	bc	cPR
	Bristol ...	1022.0	-2	NE/N	3	m	45	75	4	1	3	-	1	7-8	3000	1022.9	+8	NE	3	40	85	5	7	-	7-8	9	2800	1	*	cm	cm	cm	cm	
	Portland Bill	1019.4	+2	NE	3	c	47	85	8	2	4	-	4-6	10	4000	1020.3	+12	NE	4	43	85	8	5	-	9	9	2500	0	4	bc	bc	bc	bc	
	Plymouth	1019.6	+6	ENE	3	bc	49	65	8	1	3	1	1	2-3	2500	1020.9	+12	NE	3	44	75	6	5	4	-	9	9	3000	0	3	bc	bc	bc	bc
	The Lizard	1019.2	+6	ENE	5	bc	50	65	8	8	6	-	4-6	4-6	2500	1021.0	+12	NNE	3	46	65	8	8	6	-	4-6	4-6	2500	0	3	bc	bc	bc	bc
	Soilly (St. Mary's)	1019.9	+8	E	4	c	50	65	8	8	8	8	2-3	9	1500	1020.8	+6	ENE	3	48	65	8	8	4	4	7-8	9	1800	1	4	bc	bc	bc	bc
	Guernsey	1019.9	+8	E	4	c	50	65	8	8	8	8	2-3	9	1500	1020.8	+6	ENE	3	48	65	8	8	4	4	7-8	9	1800	1	4	bc	bc	bc	bc
6	Pembroke	1022.8	+4	ENE	4	bc	47	75	7	1	7	-	2-3	4-6	3000	1023.9	+12	NE/E	4	44	85	7	2	4	1	2-3	2-3	3000	0	2	bc	bc	bc	c
7	Holyhead (Valley)	1023.8	+2	ENE	2	c	47	75	8	8	-	-	7-8	7-8	2500	1025.5	+12	ENE	1	43	85	4	3	-	2-3	7-8	3500	0	2	bc	bc	bc	c	
	Chester (Sealand)	1025.3	-12	NNE	2	cf	48	75	3	5	-	-	10	10	3500	1025.5	+12	NNE	1	41	75	5	5	-	10	10	2600	1	*	bc	bc	bc	cm	
8	Manchester	1024.4	+6	NE/N	4	bc	44	75	6	2	-	-	4-6	4-6	2500	1025.6	+10	NNE	2	40	75	6	4	6	-	4-6	9	4000	1	*	bc	bc	bc	cm
10	Spurn Head	1022.6	+10	ENE	6	dr	44	85	7	8	-	-	9	9	1500	1024.3	+8	NE	5	43	65	7	8	-	7-8	7-8	1500	1	4	bc	bc	bc	c	
	Catterick	1026.5	+10	ENE	2	1/2pr	43	75	8	8	-	-	9	9	2000	1026.9	+4	NE	2	41	75	6	5	-	9	9	2200	1	*	bc	bc	bc	c	
	Tynemouth	1026.8	+6	E	5	c	46	65	8	2	3	-	4-6	7-8	3000	1028.1	+10	ENE	5	45	65	8	2	-	7-8	7-8	3000	1	4	bc	bc	bc	c	
11	St. Abbs Head	1027.6	+14	ENE	4	pr	45	85	8	8	4	-	4-6	7-8	2000	1028.7	+8	ENE	3	43	85	8	5	7	-	7-8	9	2500	1	3	bc	bc	bc	pr
	Leuchars	1028.1	+2	-	0	1/2pr	44	92	7	8	-	-	7-8	7-8	1800	1029.5	+6	N	2	41	97	8	8	-	9	9	1800	1	*	bc	bc	bc	pr	
12	Renfrew (Abbots L.)	1027.8	+2	ENE	4	c	46	75	8	8	-	-	9	9	2800	1029.1	+14	E	2	43	75	7	5	-	9	9	3500	0	*	bc	bc	bc	pr	
	Eskdalemuir	1027.2	+4	ENE	2	c	41	85	8	5	-	-	7-8	7-8	2500	1028.6	+10	NNE	2	38	85	7	5	-	9	9	2500	1	*	bc	bc	bc	pr	
	Point of Ayre	1025.4	0	E	4	b	48	75	8	1	-	-	1	1	2500	1026.9	+10	E	4	46	65	8	4	-	4-6	4-6	2500	1	4	bc	bc	bc	pr	
13A	Tiree	1027.4	+8	SE/S	1	bc	50	65	8	1	-	-	2-3	2-3	3500	1028.1	+4	ENE	1	45	85	8	1	3	-	2-3	7-8	3500	0	3	bc	bc	bc	bc
13B	Stornoway	1028.6	+4	-	0	bc	51	75	8	2	-	-	2-3	2-3	3500	1029.3	+6	-	0	43	92	8	2	6	-	7	9	3500	1	1	bc	bc	bc	bc
15	Dalwhinnie	1029.2	+4	SSE	1	c	41	85	8	8	-	-	9	9	4000	1028.2	+6	-	0	43	92	7	5	-	9	9	2500	1	*	bc	bc	bc	bc	
	Aberdeen	1029.5	+8	SE	1	1/2pr	43	85	6	9	-	-	9	9	1500	1030.1	+8	NW	2	40	92	6	5	3	-	4-6	4-6	2200	1	*	bc	bc	bc	bc
	Wick	1029.6	+2	-	0	bc	49	65	9	2	7	9	2-3	2-3	2500	1030.6	+6	-	0	40	85	9	1	3	-	2-3	4-6	3500	1	*	bc	bc	bc	bc
16	Sumburgh	1029.8	+1	-	0	b	47	75	9	8	-	-	7-8	7-8	2500	1030.3	+6	-	0	44	75	8	4	3	-	4-6	7-8	2500	1	2	bc	bc	bc	bc
17	Blacksod Point	1024.9	+10	E/S	3	b	47	75	8	-	-	-	0	0	-	1026.6	+12	E/S	3	46	85	8	-	-	0	0	-	0	3	3	bc	bc	bc	bc
18	Malin Head	1026.5	+6	E	1	c	48	75	8	4	6	-	4-6	7-8	5700	1027.5	+8	E	2	47	75	8	4	5	-	2-3	7-8	5700	0	3	bc	bc	bc	bc
	Aldergrove	1026.6	+6	NE/E	3	bc	48	65	9	2	-	-	4-6	4-6	3500	1027.8	+8	ENE	1	40	92	8	8	-	-	1	1	3000	1&gt					



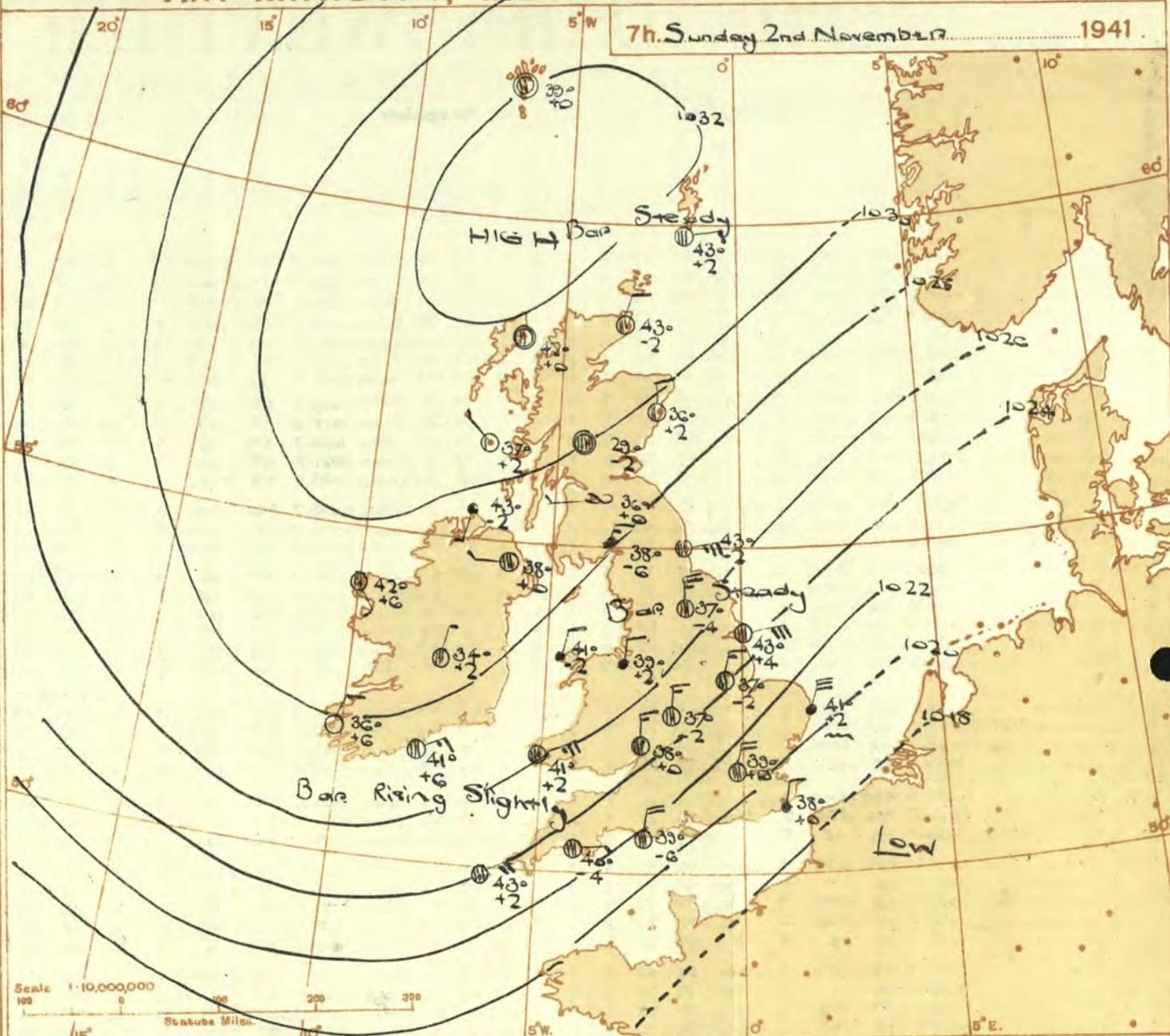
Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 1st November				18h. G.M.T.				01h. G.M.T. 2nd November				07h. G.M.T.			
IIIC	C <sub>M</sub>	wwVhN	DDFWN	C <sub>M</sub>	wwVhN	DDFWN	C <sub>M</sub>	wwVhN	DDFWN	C <sub>M</sub>	wwVhN	DDFWN	C <sub>M</sub>	wwVhN	DDFWN
109	80	02965	00015	7-	02866	00020	5-	02864	32124	8-	02754	01384			
115	54	01953	14214	54	01953	16214	54	01961	12213	57	02954	16120			
203															
206	23	00851	00012	53	01861	24114	00	05650	24210	57	02765	22228			
210	83	00852	20103	43	01765	00027	03	47190	18205	62	62744	20367			
220	93	01254	1540-	40	01853	14103				20	01864	00014			
230	10	00961	09111	5-	02966	00010	53	00861	10113	50	00873	00013			
245	86	81656	04287	83	81755	32188	03	02820	30387	8-	10855	30315			
260	8-	25567	02187	8-	05644	00029	5-	05567	22127	50	01764	00014			
270	8-	01863	08313	5-	02767	09217	5-	02877	01127	5-	02867	02227			
279	76	05415	26243	43	02862	04215	5-	25767	06187	8-	10757	04227			
285	27	02745	10487	23	05634	08385									
288	83	02855	03415	80	05657	06427	8-	25658	04288	8-	02846	05386			
295	20	05653	06103	50	00851	07211	03	05650	00014	53	05664	10127			
301	8-	05656	11226	53	05662	06213	50	05671	04211	5-	06667	04377			
321	80	01864	04364	8-	02757	65487									
299	8-	81747	04587	8-	81747	04687	8-	03747	32687	8-	02747	07627			
292	46	01963	03383	5-	02866	02286	5-	02767	31287	87	25654	29285			
310															
314	8-	02755	04425	43	05662	02282	8-	02767	02327	5-	05666	32326			
333	20	01863	04303	4-	05662	02212	5-	02777	02177	5-	02867	02127			
334		05542	00003	--	63547	04288									
340	5-	41477	31147	23	05663	02287	5-	08467	32327	5-	05577	02227			
136	8-	25854	04484	36	81855	04488	5-	02868	05488	8-	02967	05327			
336	54	01762	04314	51	01762	04315				57	02765	32315			
350	86	25853	37485												
368				8-	25554	02286				5-	02667	32327			
379	8-	05646	04346	40	01764	02384	5-	05668	37428	5-	02747	04427			
390	8-	27755	37418	5-	02776	02326	5-	02765	32315	5-	61758	02368			
382	87	81765	03327	4-	05666	32326	03	01780	32405						
408										6-	82747	32487			
430				07	05660	32426	07	01780	02525	57	01763	02413			
400	20	01751	07424	24	01751	04214	50	05662	03112	57	02766	04327			

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W = Present and past weather—See M.O. 252.  
h, N<sub>h</sub> = Height and amount of low cloud—See M.O. 252.  
N = Total amount of cloud—See M.O. 252.  
C, C<sub>M</sub> = Form of low and medium cloud—See page 1.  
V = Visibility. F = Force of wind—See page 4.  
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Sunday 2nd November 1941



Mb.  
1050  
1040  
1030  
1020  
1010  
1000  
990  
980  
970  
960  
950  
940  
930  
920  
910  
900

DISTRICTS. FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 2nd November 1941.

1 S.E. England	Moderate N.E. winds, fresh at times on the coast especially in the east; variable sky; cloudy, but with some brighter periods; some local showers chiefly in the east and southeast; hail locally; cold to rather cold.
2 E. England	
3 E. Midlands	
4 W. Midlands	
5 S.W. England	
6 South Wales	
7 North Wales	Light to moderate northeast wind; broken variable cloud with bright periods; some local showers with hail occasionally; cold.
8 N.W. England	
9 N. Midlands	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man	
13A. W. Scotland	Light variable wind; mainly fine; rather cold with frost locally at night.
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	Light variable wind; bright periods; a few local showers; rather cold with frost locally inland at night.
16 Orkneys and Shetlands	
17 N. W. Ireland	As 6-12
18 N. E. Ireland	
19 S. E. Ireland	As 1-5
20 S. W. Ireland	

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

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  
 = Cold Front on the surface  
 = Warm Front above the ground  
 = 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.

GENERAL INFERENCE.

An anticyclone centred between Shetland and Faeroes is practically stationary and cold northeasterly winds will continue over most of the British Isles with further rain showers and some local hail. There will however, be some bright periods especially in the North and West.

FURTHER OUTLOOK.

No indications of any important change.

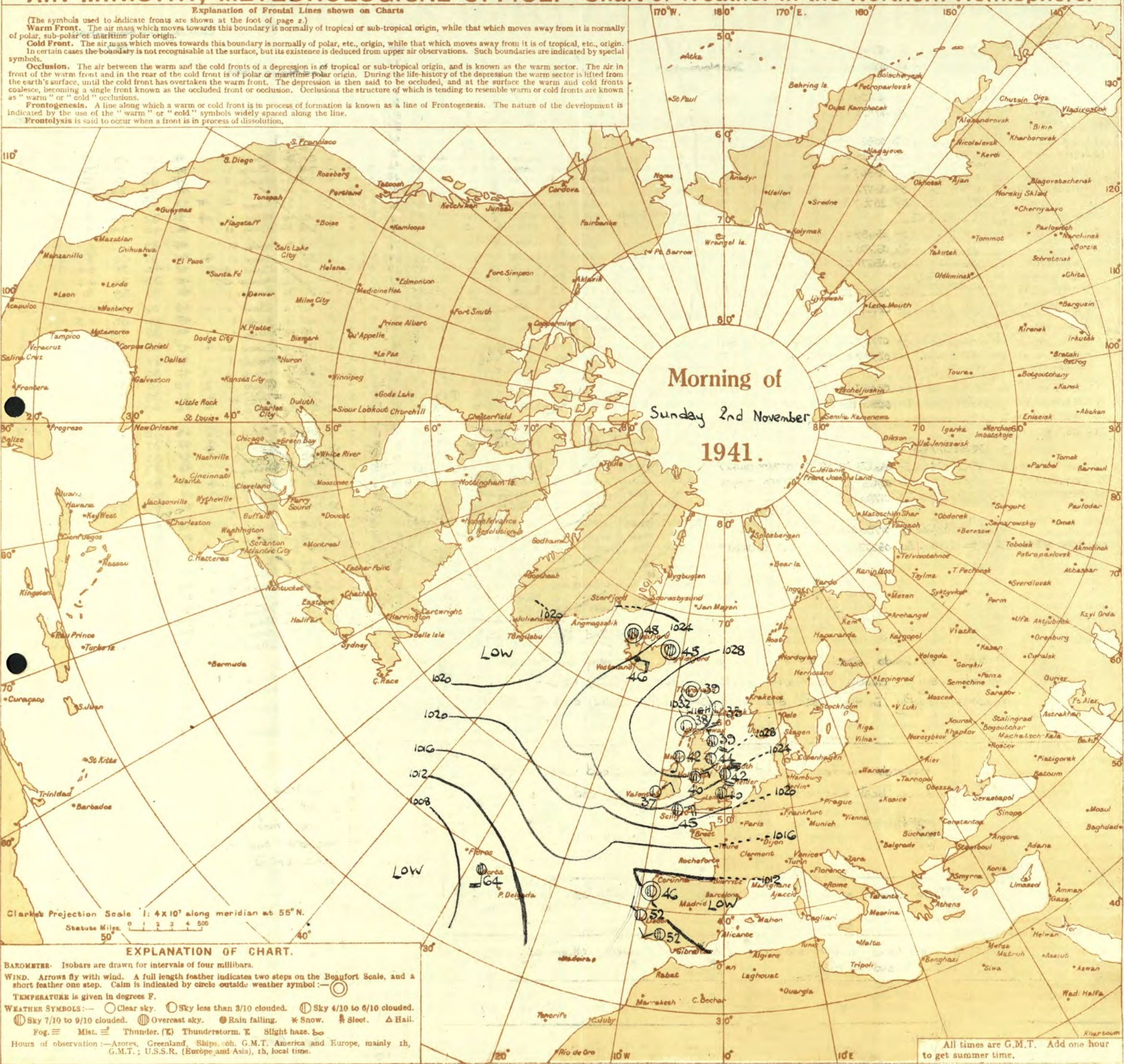
Forecasts issued at 10.30h G.M.T. N. K. JOHNSON, D.Sc., A.R.C.S. Director.  
H.M.S.O. Press, Meteorological Office, Dunstable. C.269/4120. No. 9176. D. 6034. Gp. 348. 3300/4/1



# 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 at the foot of page 2.)  
**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.





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

OBSERVATIONS at 1 hr. G.M.T. 2nd November														OBSERVATIONS at 7 hr. G.M.T. 2nd November														PAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (15)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (29)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (31)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (33)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (35)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (37)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (39)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (41)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (43)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (45)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (47)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (49)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (51)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (53)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (55)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (57)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (59)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (61)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (63)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (65)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (67)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (69)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (71)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (73)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (75)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (77)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (79)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (81)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (83)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (85)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (87)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (89)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (91)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (93)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (95)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (97)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (99)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (101)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (103)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (105)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (107)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (109)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (111)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (113)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (115)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (117)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (119)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (121)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (123)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (125)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (127)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (129)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (131)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (133)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (135)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (137)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (139)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (141)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (143)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (145)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (147)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (149)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (151)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (153)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (155)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (157)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (159)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (161)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (163)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (165)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (167)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (169)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (171)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (173)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (175)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (177)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (179)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (181)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (183)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (185)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (187)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (189)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (191)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (193)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (195)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (197)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (199)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (201)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (203)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (205)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (207)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (209)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (211)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (213)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (215)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (217)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (219)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (221)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (223)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (225)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (227)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (229)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (231)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (233)	Change in 3 hours



## THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON

# SECRET

Monday 3rd November 1941

No 29201

OBSERVATIONS at 13h. G.M.T. 2nd November														OBSERVATIONS at 18h. G.M.T. 2nd November														PAST 24 HOURS.								
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	° Humid. (7)	Visibility. 0-9 (8)	Cloud.					Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	° Humid. (21)	Visibility. 0-9 (22)	Cloud.					Barom. at M.S.L. mb. (29)	Change in 3 hours. (30)	WEATHER.						
				Dirac. (3)	Force. 0-12 (4)					Low. (9)	Med. (10)	High (11)	Low 0-10 (12)	Total 0-10 (13)			Height of Base. (feet) (14)	Dirac. (17)					Force 0-12 (18)	Low. (23)	Med. (24)	High (25)	Low 0-10 (26)			Total 0-10 (27)	Height of Base (feet) (28)	7h.—13h. 2nd (37)	13h.—18h. (38)	18h.—to 1h.—3rd.. (39)	1h.—7h. 3rd.. (40)	
																																				7h.—13h. 2nd (37)
1	London (Kew) ...	1020.6	-6	NNE	4	pr	43	65	6	5	-	-	7-8	9+	1500	1020.2	+4	NNE	3	z	40	85	6	5	-	9+	9+	2500	1	0	0-9	cir.m.	cr.cmo	c.moc	c.bmo	
	Croydon ...	1020.6	-6	NNE	4	pr	42	75	6	5	-	-	7-8	10	1000	1020.5	+2	N	3	c/r	39	92	4	5	3	-	2-3	9	3000	1	0	0-9	c.mpr	c.p.r.r.	c.m.c.r.	c.v.bom
	S. Farnborough	1020.9	-10	NNE	3	c	43	65	7	1	3	-	7-8	9+	3200	1021.4	+8	N'E	3	z	39	85	6	5	3	-	1-6	9	1700	1	0	0-9	c.p.r.c	c.m	c.m.i.r.c	m.i.r.c
	Boscombe Down	1021.7	-10	NNE	4	c	42	75	7	7	3	-	7-8	9	2500	1022.1	+6	N'E	3	c/pr	38	85	7	5	3	-	4-6	9	2500	0	0	0-9	b.c.c	c.p.r.	c.b.c	c
	Thorney Island	1020.2	-4	NNE	3	c	44	75	7	7	-	-	4-6	7-8	4000	1020.4	+6	N'E	3	z	40	85	6	4	6	-	2-3	2-3	4000	0	0	0-9	b.p.r.b	c.p.r.b	b.c	c.r.
	Lympne	1019.2	-6	NNE	3	pr	42	75	7	3	6	3	4-6	7-8	1200	1019.6	+4	NNE	2	pr	38	92	7	2	6	-	4-6	9	1200	1	0	0-9	c.p.r.b	c.p.r.b	c.p.h.p.r	p.r.m.o
	Manston	1018.7	-6	NE'E	5	c	43	65	8	8	6	2	4-6	9	2100	1019.0	+2	N'E	3	c/pr	41	75	6	2	6	-	4-6	9	1200	1	0	0-9	p.r.p.h.	c.r.b.h.m.	c.p.r.	c.p.h.m.
2	Shoeburyness	1020.2	-4	N'E	2	pr	41	92	8	6	-	-	7-8	9+	2600	1021.4	+14	N	2	pr	39	92	8	8	-	-	7-8	7-8	1200	1	0	0-9	c.p.r.p.r.	c.p.b.p.r.	b.c.p.r.t.h	b.t.f.h.
	Felixstowe	1019.7	-2	NNE	3	c/pr	41	56	7	8	-	-	7-8	9+	1400	1020.1	+2	N'E	3	c/pr	39	85	8	8	-	-	9+	9+	1500	1	3	0-9	c.p.h.p.r.	c.p.r.	p.r.p.h.	c.p.h.r.
	Gorleston	1021.4	0	NE/N	5	c/pr	39	92	7	8	-	-	7-8	7-8	2400	1021.5	+4	N	5	pr	40	92	6	8	-	-	7-8	7-8	2000	1	4	0-9	c.p.h.p.r.	c.p.r.	c.p.h.r.	c.c
	Mildenhall	1021.9	-2	NE	1	pr	41	97	6	8	-	-	9+	9+	1500	1022.0	+2	N	2	pr	37	97	7	8	7	-	7-8	9	3000	1	0	0-9	c.p.r.	c.p.r.	c.p.r.	c.p.r.c
	Cranwell	1023.8	-4	N	3	c/pr	43	75	9	5	7	-	7-8	9+	1500	1023.5	0	N'E	3	c/pr	38	85	8	8	6	-	4-6	9	2500	1	0	0-9	b.c.p.r.	c.p.r.m.c	pr	c.p.r.c
3	Birmingham	1023.4	-6	NNE	3	z	40	75	5	8	-	-	9+	9+	2500	1024.0	+2	NNE	3	c/pr	38	85	5	5	-	-	9+	9+	1500	1	0	0-9	c.z	c.z	c.z	c.m
	Upper Heyford	1022.0	-10	NNE	3	c	42	75	7	8	-	-	9+	9+	2000	1022.4	+2	NE/N	4	pr	38	85	8	5	-	-	9+	9+	1200	1	0	0-9	c.p.r.	c.p.r.	c.p.r.m.o	i.r.p.h.m.o
4	Ross-on-Wye	1023.2	-10	NE	4	c	42	65	6	8	6	-	9+	9+	3000	1023.6	+4	N'E	3	z	39	75	5	5	-	-	7-8	7-8	3000	1	0	0-9	c.c.k.c	c.c.k.c	c.c.z.o	e.b
5	Hartland Point	1022.3	-10	NNE	5	c	44	55	8	2	4	-	4-6	7-8	2000	1022.2	+2	NE	5	c/p	44	65	8	2	2	-	4-6	10	1500	0	4	0-9	c.p.r.c	c.d.r.c	c.p.r.	c.p.
	Bristol ...	1023.1	-10	NE/N	3	z	41	75	6	8	-	-	9	9	2300	1023.3	+2	NNE	2	c/p	39	75	3	5	3	-	4-6	9	3500	1	0	0-9	c.m.	c.m.i.m	c.p.r.	c.p.f.b.r.
	Portland Bill	1020.3	-8	NNE	4	c	45	85	8	2	-	-	9	9	4000	1020.8	+6	NNE	4	c	42	85	8	5	-	-	10	10	4000	1	4	0-9	c	c	c	c
	Plymouth	1021.7	-10	NE	4	z	45	65	7	7	3	-	4-6	9+	7200	1021.8	+4	NE	3	z	41	75	5	5	3	-	4-6	7-8	3000	0	3	0-9	c	c.z.o	c.z.c	b.c.b.c
	The Lizard	1022.5	-2	NE	4	b.c	47	65	8	6	-	-	4-6	7-8	2000	1022.4	0	N'E	3	z	40	75	8	8	2	-	7-8	9+	1000	0	3	0-9	c.b.c	c	b.c	b.c.c
	Seilly (St. Mary's)	1024.1	-6	ENE	4	c	43	75	8	8	7	-	2-3	10	1200	1022.4	-2	NE/N	4	c	45	65	8	8	7	-	7-8	9+	1200	1	4	0-9	c.p.r.c	c.p.c	c	c.p.r.
	Guernsey	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
6	Pembroke	1025.0	-6	NE	4	c	45	65	8	2	6	-	4-6	7-8	3000	1025.5	+10	NE'E	6	c	42	75	8	8	7	-	4-6	7-8	2500	1	3	0-9	c.b.c.c	c	c	c
7	Holyhead (Valley)	1025.6	-10	E	3	b.c	46	65	8	3	3	-	4-6	4-6	2000	1025.9	+6	NE	3	c	43	75	7	5	-	-	9+	9+	3500	0	2	0-9	c.p.r.	b.c.c	c	c.p.r.
	Chester (Sealand)	1025.9	-6	N	2	z	43	75	5	5	-	-	9+	9+	3500	1026.0	+6	N	2	z	41	75	6	5	-	-	9+	9+	3000	1	0	0-9	c.m.o.r.c	c.z	c.z	c.m.o.w.e
8	Manchester	1025.7	-6	NNE	4	z	41	75	5	8	3	-	7-8	9	4000	1025.7	+2	NNE	3	z	39	75	5	5	-	-	10	10	3000	1	0	0-9	c.m.o.z	c.z	c.z	c.p.r.m.o.m
10	Spurn Head	1023.5	0	NE	5	c	44	75	7	8	-	-	9+	9+	2500	1023.4	+2	NE	5	phr	43	75	7	9	-	-	9	9	1500	1	5	0-9	c.p.r.	c.p.h.r	c	c
	Catterick	1027.1	-10	NE'E	2	c	40	85	7	8	-	-	9+	9+	2000	1027.0	0	E/N	3	z	40	75	6	8	-	-	9+	9+	2500	1	0	0-9	c.p.r.m.c	c.c.z	c.p.r.m.o	c.m.o.r.r
	Tynemouth	1027.8	0	E	5	c/pr	43	65	8	8	-	-	9	9	2400	1027.8	+6	NE	4	c/pr	42	65	7	8	-	-	9+	9+	1500	1	4	0-9	c.p.	c.p.s	c.p.	c.p
11	St. Abbs Head	1029.1	0	E	4	b.c	42	75	9	4	4	-	2-3	4-6	2500	1029.7	+12	NNE	3	c	42	75	9	5	4	-	4-6	7-8	2500	0	3	0-9	c.b.c	b.c.c	c	c.p.
	Leuchars	1029.9	-2	N	1	c	43	92	8	8	-	-	9+	9+	2500	1030.0	+4	-	0	c	40	92	8	8	3	-	7-8	9	2200	1	0	0-9	c.p.r.c.r.c	c	pr	c.b.c.c
12	Renfrew (Abbots L.)	1029.6	-2	ENE	3	c	45	65	9	8	-	-	9	9	3000	1029.9	+4	NE	2	c	41	75	7	5	3	-	7-8	9	4500	1	0	0-9	c.m.o.v.c	c	c.b.c.b	b.c.b.f.r
	Eskdalemuir	1028.2	-4	NNE	3	b.c	41	65	8	5	-	-	4-6	4-6	2500	1028.7	+2	NNE	3	b.c	34	75	8	5	4	-	1	2-3	2500	1	0	0-9	c.p.r.b.c	b.c.b	b.c	b.c.c.r.o
	Point of Ayre	1027.8	-2	E	4	c	45	65	8	8	-	-	7-8	7-8	5000	1027.8	+8	ENE	5	b.c	45	35	8	9	4	2	4-6	4-6	4000	0	4	0-9	i.r.c	c.b.c	b.c	c
13A	Tiree	1030.5	0	NE'E	3	b.c	48	75	9	1	3	-	2-3	2-3	3500	1030.6	+4	ENE	2	b.c	45	75	9	1	4	-	2-3	2-3	3500	0	3	0-9	b.c	b.c	b.c.c	b.c.b
13B	Sternoway	1032.0	-2	NNW	2	b.c	48	75	8	2	4	-	Tr	1	4500	1032.1	+4	NNW	3	b.c	41	85	8	5	4	2	2-3	4-6	3000	1	1	0-9	b	b.b.c	c	c.p.r
15	Dalwhinnie	1031.5	0	NE	2	c	38	85	7	8	3	-	4-6	9	1500	1031.7	-2	NE	1	c	37	92	7	5	3	-	4-6	9	1500	1	0	0-9	c.p.s.c	c	c	c.e.i.d
	Aberdeen	1030.4	-2	NNW	1	i.r.	43	85	7	9	-	-	4	9+	1900	1030.4	-2	NNW	2	b.c	38	92	7	8	-	-	4-6	9	2200	1	2	0-9	b.c.i.r	c.i.r.b.c	b.c.i.r.	c.i.r.o
	Wick	1031.7	-2	NE	3	c	46	65	9	8	-	-	7-8	7-8	4000	1031.5	+2	NNE	3	c/pr	43	75	8	2	-	-	7-8	7-8	2500	1	0	0-9	c.p.r.p.c	c.p.r.b.c	pr	c.p.r.o.d
16	Sumburgh	1031.8	-6	N	2	c	46	75	9	5	3	-	4-6	7-8	3500	1031.7	+2	N	2	pr	44	85	8	8	-	-	9+	9+	2500	1	0	0-9	c.p.r.c	c.p.r.	c	c.i.d.m.o
17	Blackod Point	1030.0	0	-	0	b.c	48	75	8	-	5	-	0	2-3	-	1029.5	-2	N	3	c	48	75	8	2	6	-	2-3	9	2500	0	3	0-9	b.c	b.c.c	b.c	i.r.o.c
18	Malin Head	1029.9	-2	NE	3	c	48	75	8	2	-	4	4-6	7-8	5700	1029.9	+6	NE	3	c	48	75	8	2	-	-	4-6	7-8	5700	0	2	0-9	c	c.p.r.c	c	c
	Aldergrove	1029.1	-14	NE	3	b.c	48	65	8	2	-	-	2-3	4-6	3200	1029.4	+4	-	0	z	41	92	6	4	6	-	9	9	4000	1	0	0-9	c.b.c	b.c.p.r.c	c.p.m.o.c	p.r.o.b.c
19	Birr Castle	1029.0	-6	NNW	1	b.c	48	55	8	-	3	-	0	2-3	-	1028.2	0	NNW	1	b.c	40	85	8	5	-	-	4-6	4-6	2500	1	0	0-9	c.b.e.y.b.c	b.c	b.b.e.w.e	c.r.c
20	Valentia Obay.†	1028.5	-2	ENE	4	b.c	47	65	9	1	4	-	Tr	4-6	4000	1028.8	+2	NNE	3	b.c	43	75	8	1	4	1	Tr	Tr	2500	1	3	0-9	b.y.b.c	b.c.y.o.b	b.b.e.w.e	b.e.x.c.u.b.c
	Roche Point	1027.1	-10	NNE	3	b.c	47	65	8	1	-	4																								

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).  
 bc, sky partly cloudy (one half covered). c, generally cloudy.  
 d, drizzle. e, wet air. g, gloom.  
 f, fog, visibility 220-1100 yds.  
 F, thick fog „ less than 220 yds.  
 fs, low fog over sea (coast station).  
 fg, low fog over land (inland station).  
 m, mist, visibility 1100-2200 yds.  
 h, hail. i, intermittent.  
 jf, fog at a distance, but not at station.  
 jp, precipitation within sight of station.  
 ks, storm of drifting snow.  
 k/s, slight storm of drifting snow (generally low).  
 k/S, heavy storm of drifting snow (generally low).  
 s/k, slight storm of drifting snow (generally high).  
 S/k, heavy storm of drifting snow (generally high).  
 KQ, line squall. l, lightning.  
 o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.  
rs, sleet. t, thunder.  
u, ugly, threatening sky.  
v, unusual visibility. w, dew.  
x, hoar frost. y, dry air.  
z, dust haze: the turbid atmosphere  
of dry weather.  
b(r), "hail" or "rain and hail."  
Capital letters indicate intense;  
suffix o indicates slight; repetition  
of letters indicates continuity: thus  
R, heavy rain. r<sub>o</sub>, 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 exist-  
ing weather from preceding con-  
ditions thus: —bc/r, fair weather  
after rain; —, has decreased;  
+, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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

An entry "4-8" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.

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

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

§ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

Cloud form abbreviations :--

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

COLUMN 29 — STATE OF GROUND.

- |         |                                     |         |   |
|---------|-------------------------------------|---------|---|
| 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., but ground frozen.               |
| 2 . . . | " flooded.                          | 9 . . . | " covered with snow greater than 6 ins. deep.                           |
| 3 . . . | " frozen hard and dry.              | - . .   | Fresh snow has fallen in the mountains.                                 |
| 4 . . . | " partly covered with snow or hail. |         |   |
| 5 . . . | " covered with ice or glazed frost. |         |   |
| 6 . . . | " covered with thawing snow.        |         |   |

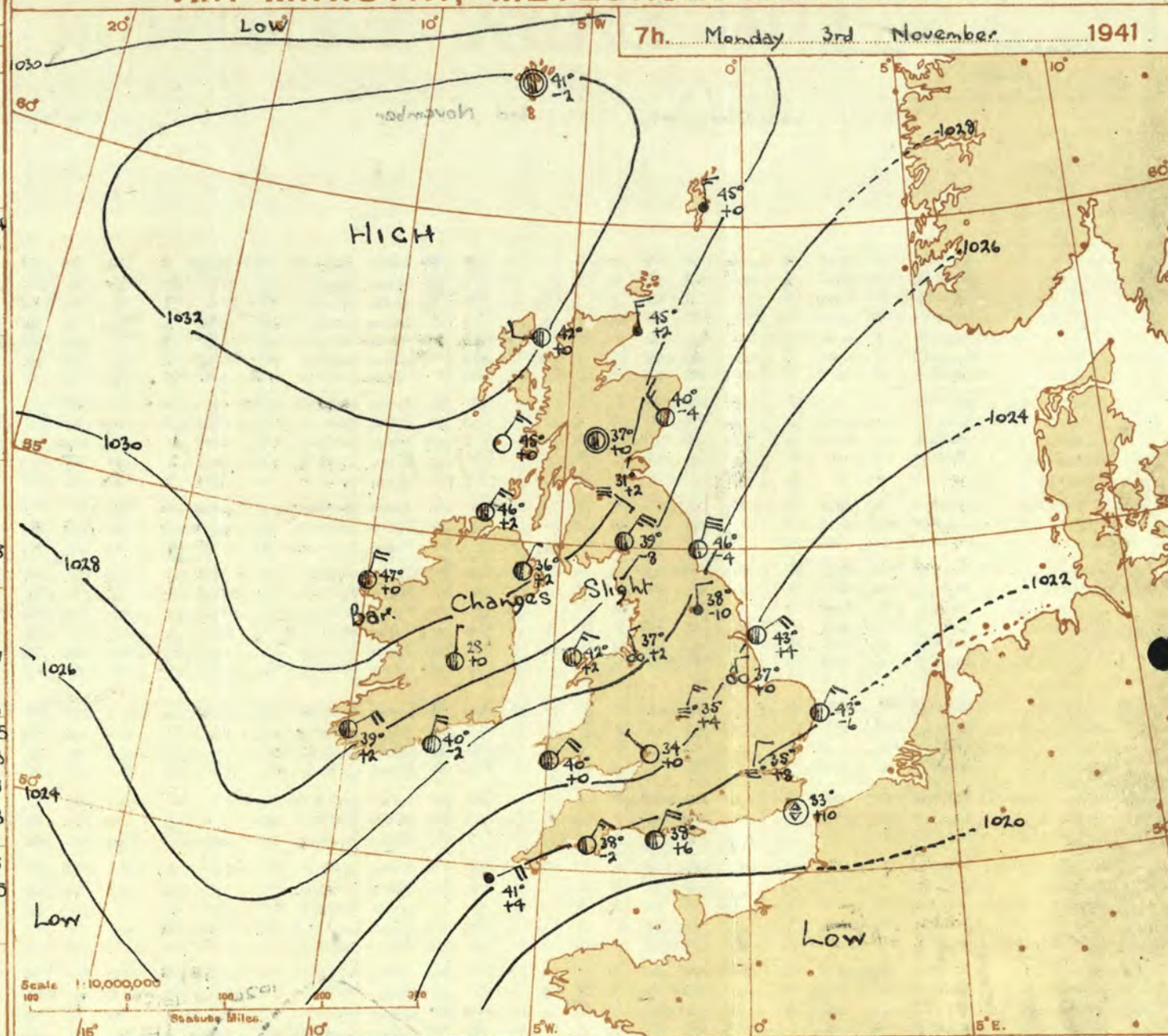
NOTE.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.



Abridged observations of additional stations in the AVIATION WEATHER CODE											
13h. G.M.T. 2nd Nov.				18h. G.M.T.				01h. G.M.T. 3rd Nov.			
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>
109	70	00453	03303	53	02855	01316	5-	03808	02328	53	03845
115	57	10944	08386	57	10344	04386	52	02844	04827		
203											
206	8-	25867	00087	4-	02867	00027	57	02854	00065	52	02855
210	5-	02965	20285	53	25954	10186	8-	25856	24186	52	25745
220	14	01952	04303	53	01754	01315				50	01844
230	50	02977	02227	50	02865	03227	53	02963	08116	73	00002
245	4-	01857	05397	46	25865	03228	53	02764	32285	83	02962
260	83	25664	02185	53	05653	01284	53	02865	30186	53	02864
278	8-	02875	03315	5-	01864	02324	53	02864	03327	83	01864
279	83	01864	06324	46	01858	03314	03	02890	31315	5-	02857
285										6-	71648
288	--	02857	05387				5-	02644	35486	62	64634
295	7-	01764	24224	50	00861	04101	5-	02867	02227	50	00863
301	86	25655	04386	03	05630	02224	53	05674	04328	53	05574
321	8-	02868	03388	77	02766	02486	5-	02767	32387	52	02645
299	8-	03747	06687	8-	05648	00688	5-	25745	00685	87	01754
292	5-	02957	04387	5-	02868	01228	5-	02868	02388	02	62748
310										--	73428
312	83	02765	32485	8-	05668	04826	23	05654	05328	6-	61655
333	54	01964	02284	53	02863	02125	53	02873	02227	53	02863
334										--	25547
340	5-	17667	02317	53	05673	02126	53	05673	02027	5-	23567
136	36	25855	05446	86	01855	06386	8-	25857	06387	8-	25864
336										54	41762
350	87	02756	02427	5-	02636	02326	5-	05628	05328	77	22664
308	54	02754	02427	54	05663	02313				54	05662
379	23	02753	02427	8-	02747	02487				53	05664
390	87	22645	04467	43	02761	02366	5-	01648	30268	50	05653
382	7-	02855	01428	5-	01658	03388	57	22645	02468	53	05663
438	8-	02757	32417							32	10658
430	83	01644	01485	53	25663	01386	17	05631	04516	53	05645
400	80	02864	02325	5-	02768	04388	00	05630	03311	57	05772

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
 ww, W = Present and past weather—See M.O. 252.  
 h, N<sub>h</sub> = Height and amount of low cloud—See M.O. 252.  
 N = Total amount of cloud—See M.O. 252.  
 C<sub>M</sub> = Form of low and medium cloud—See page 1.  
 V = Visibility—See page 1.  
 F = Force of wind—See page 1.  
 DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

# AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 3rd November 1941
1 S.E. England	Light to moderate N.E. wind backing toward North; mainly cloudy; occasional showers; hail locally; rather cold.
2 E. England	
3 E. Midlands	
4 W. Midlands	
5 S.W. England	Light to moderate N.E. winds, backing north; cloudy with brighter periods; some local showers today; rather cold.
6 South Wales	
7 North Wales	
8 N.W. England	
9 N. Midlands	Light to moderate northerly winds; showers today; fairer conditions tomorrow; rather cold.
10 N.E. England	
11 S.E. Scotland	Light N. to N.W. winds; fair, but with considerable cloud at times; rather cold with local frost at night.
12 S.W. Scotland & Isle of Man	
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	Light N.E. winds; fair apart from a few scattered showers; rather cold.
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their character is 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  
 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.

## GENERAL INFERENCE.

A large anti-cyclone remains to northward of the British Isles and rather cold northeasterly winds will persist over most of the country. There will be some bright periods in the west, but in the east conditions will be mainly cloudy with occasional showers with hail and perhaps sleet locally.

## FURTHER OUTLOOK.

Fair in the North and West; local showers in the east and southeast.

Forecasts issued at  
 H.M.S.O., Press, Meteorological Office Dunstable.

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

© 269/4120. No. 8176 D. 6034 6p 240 3100/8/41



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

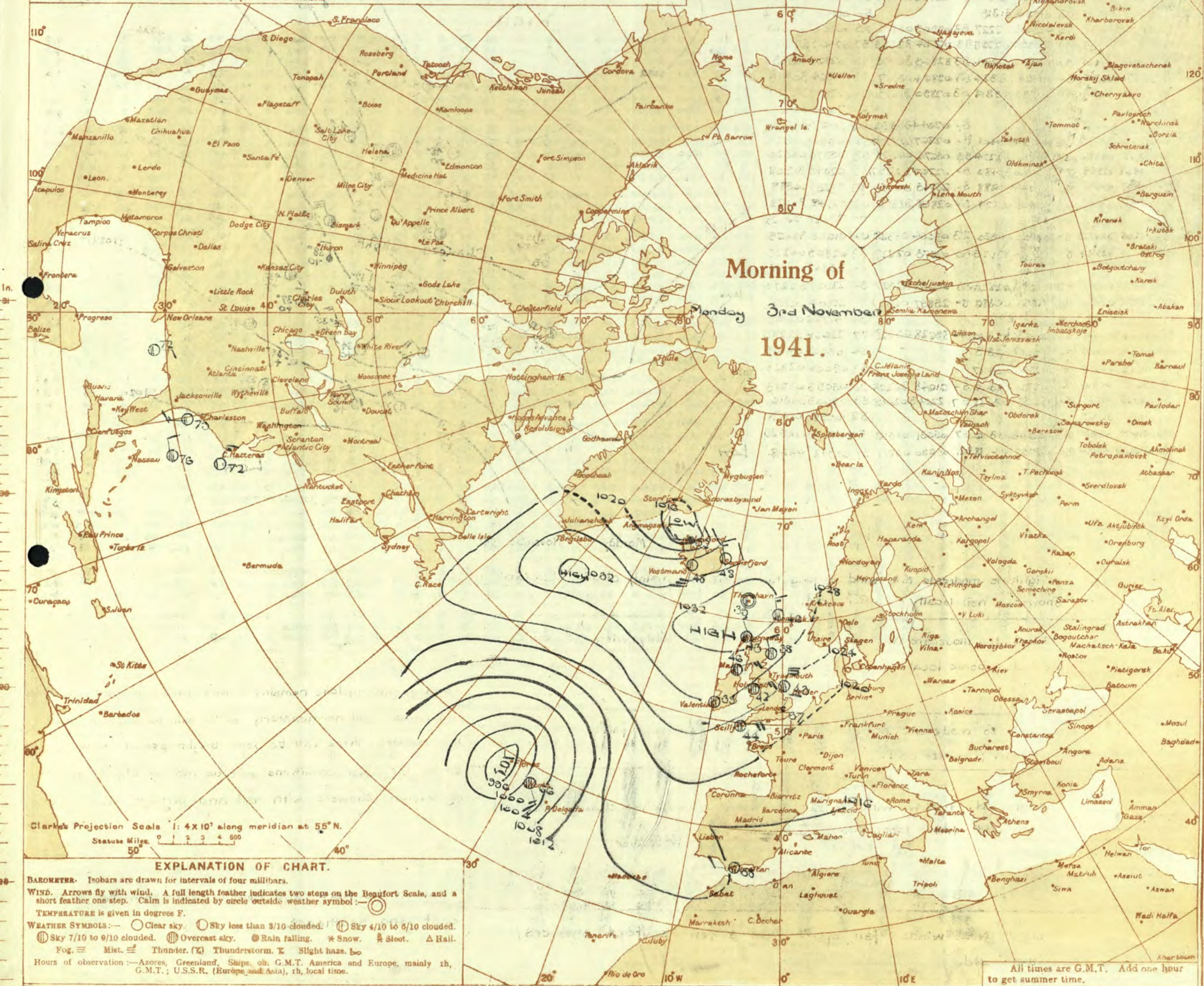
## Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)  
**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.





THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Monday 3rd November 1941  
No. 29201

OBSERVATIONS at 1 hr. G.M.T. 3rd November															OBSERVATIONS at 7 hr. G.M.T. 3rd November															PAST 24 HOURS.																						
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L.	Change in 3 hours.	Wind.			Temp.	Humid.	Visibility.	Cloud.			Barom. at M.S.L.	Change in 3 hours.	Wind.			Temp.	Humid.	Visibility.	Cloud.			State of Ground.	Sea.	TEMPERATURE.			RAINFALL.			SUNSHINE Hrs.																			
					Dir.	Force.	Weather.				Form.	Amount.	Height of Base (feet).			Dir.	Force.	Weather.				Form.	Amount.	Height of Base (feet).			Dir.	Force.	Weather.	Form.	Amount.	Height of Base (feet).		Dir.	Force.	Weather.	Form.	Amount.	Height of Base (feet).	Dir.	Force.	Weather.	Form.	Amount.	Height of Base (feet).							
																																														Low.	Med.	High.	Low.	Med.	High.	Low.
1	London (Kew)	18	1021.2	+2	N/E	2	r.o.	37	97	6	5	2	7-8	10	1200	1021.0	+10	N	3	2	36	85	6	5	3	4-6	4	4000	1	43	36	31	Tr	-	0.1																	
	Croydon	217	1021.7	+2	N	3	q/d	37	85	6	5	1	10	1100	1021.7	+8	N/E	2	m	35	92	7	5	4	1	4-6	800	1	42	35	31	Tr	-	0.2																		
	S. Farnborough	226	1021.7	-2	N/E	3	c	38	85	7	5	1	10	800	1022.1	+6	NNE	4	z	35	85	7	5	7	1	4-6	800	0	42	34	30	Tr	-	1.0																		
	Boscombe Down	417	1020.6	+2	N	4	c	38	85	7	5	7	10	5700	1021.3	+8	NNE	3	c	35	92	7	5	4	1	4-6	4000	0	46	34	28	Tr	-	0.2																		
	Thorney Island	10	1020.4	+2	NNE	0	c/pr	34	97	6	2	6	7-8	2500	1021.4	+10	-	0	phr	33	97	5	3	-	10	1100	1	44	33	31	1	3	4	0.9																		
	Lymington	346	1020.4	+2	NNE	0	c/pr	39	85	8	3	-	10	10	2500	1020.0	+2	-	0	phr	34	92	5	8	-	10	10	1500	1	45	34	28	1	3	0.9																	
	Manston	164	1019.8	0	N	1	bc/r	36	92	7	9	3	2-3	4-6	2500	1020.9	+8	N/E	3	c	36	85	7	8	-	2-3	7-8	2800	1	43	34	31	2	2	0.4																	
2	Shoeburyness	11	1020.6	0	N	1	c/pr	37	92	8	9	6	2-3	9	1800	1021.1	+6	N/E	3	c	36	92	8	8	-	9	9	3000	1	42	35	33	4	2	0.2																	
	Felixstowe	16	1020.4	+2	N	4	c/pr	37	85	6	8	1	1-6	9	1500	1022.4	-6	NEN	3	c	43	75	7	8	-	10	10	1500	1	45	38	38	5	4	0.2																	
	Gorleston	5	1021.7	0	NNE	2	pr	38	85	6	8	-	9	2500	1022.6	+4	N	2	c	35	97	7	5	-	7-8	7-8	2000	1	43	34	31	1	0.5	0.1																		
	Mildenhall	19	1022.5	+4	NNE	2	pr	36	97	7	8	-	9	2500	1022.6	+4	N	2	c	35	97	7	5	-	7-8	7-8	2000	1	43	34	31	1	0.5	0.1																		
	Cranwell	240	1023.7	0	N	3	c	38	85	7	5	-	9	3500	1023.6	0	N	2	z	37	92	6	5	-	4	7-8	7-8	3000	1	41	34	31	0.6	0.2	1.4																	
3	Birmingham	535	1023.2	+2	NNE	2	r.o.	35	97	6	6	2	7-8	10	800	1024.5	+4	NNE	3	m	35	92	4	5	7	9	10	1500	1	41	34	28	Tr	-	0.6																	
	Upper Heyford	408	1023.2	+2	NNE	2	r.o.	35	97	6	6	2	7-8	10	800	1023.3	+6	N	3	m	34	97	6	5	-	9	9	4000	1	42	33	32	0.1	3	0																	
	Ross-on-Wye	223	1023.2	+2	NNE	2	r.o.	35	97	6	6	2	7-8	10	800	1024.0	0	NW	1	b	34	85	6	5	-	9	9	4000	1	42	34	23	-	-	1.1																	
5	Hartland Point	299	1022.6	-4	NE	5	c	42	65	7	2	6	4-6	7-8	1500	1022.5	+2	NE	5	c	42	65	8	8	4	4-6	7-8	1500	0	45	41	39	Tr	Tr	1.7																	
	Bristol	209	1023.5	-2	E	3	m	37	85	4	5	3	4-6	9	2500	1024.0	+6	NE	2	m	33	92	4	5	4	10	1	-	0	43	32	24	-	-	0.7																	
	Portland Bill	32	1020.4	-6	NNE	4	c	39	92	8	2	-	7-8	7-8	4000	1021.1	+6	NNE	4	c	38	85	8	5	-	10	10	4000	1	46	35	-	-	-	0.8																	
	Plymouth	82	1021.9	-2	NEN	2	bc	39	75	7	5	-	4-6	4-6	7200	1021.4	-2	NE	3	bc	38	75	7	5	3	2-3	2-3	4000	0	46	35	-	-	-	0.8																	
	The Lizard	240	1022.3	-4	NNE	3	bc	35	85	8	4	6	2-3	4-6	2500	1021.8	0	NNE	4	c	39	85	8	8	6	4-6	7-8	1500	0	47	35	-	-	-	2.2																	
	Scilly (St. Mary's)	163	1022.7	-2	ESE	4	c	44	65	7	8	6	7-8	9	1200	1022.0	+4	SNE	4	ir.	41	85	7	8	7	7-8	10	1200	1	46	39	-	1	1	0.4																	
	Guernsey	175	1022.7	-2	ESE	4	c	44	65	7	8	6	7-8	9	1200	1022.0	+4	SNE	4	ir.	41	85	7	8	7	7-8	10	1200	1	46	39	-	1	1	0.4																	
6	Pembroke	142	1025.1	-2	NE	5	c	40	75	7	7	7	2-3	7-8	4000	1025.1	0	NE	4	c	40	75	7	8	6	4-6	7-8	2500	0	46	38	-	-	-	3.6																	
7	Holyhead (Valley)	26	1026.4	0	NE	3	c	42	65	8	5	3	4-6	9	4000	1026.4	+2	NEN	3	c/pr	42	75	8	5	4	4-6	7-8	2500	1	47	40	38	2	Tr	-																	
	Chester (Sealand)	16	1026.1	-2	NW	2	z.	38	75	5	5	-	10	10	5000	1026.3	+2	NW	2	z.	37	92	5	5	-	10	10	5000	0	43	37	31	Tr	Tr	0.3																	
8	Manchester	235	1025.6	-6	NNE	2	z.	38	75	6	5	-	10	10	3500	1026.1	+4	N	2	z.	37	92	4	9	-	10	10	1200	1	41	35	-	-	-	0.2																	
10	Spurn Head	29	1027.0	+6	NE	6	c	43	55	7	8	-	9	9	1500	1023.5	+4	NEE	4	e	43	65	7	8	6	7-8	9	2500	0	45	40	-	1	-	0.1																	
	Catterick	175	1027.2	-2	NNE	1	ir.	47	97	6	5	-	10	10	3000	1026.0	-10	N	2	rr	38	97	6	5	2	9	10	1500	1	41	36	35	1	4	0.7																	
	Tynemouth	108	1027.7	0	N	5	ir.	43	75	7	2	-	9	9	1500	1026.0	-4	NNE	6	c	46	75	7	2	-	9	9	2000	1	44	40	37	1	1	0.7																	
11	St. Abbs Head	280	1025.2	-10	NNE	3	c	44	75	8	5	4	4-6	7-8	2500	1027.6	+2	NNW	4	cq	42	85	8	5	2	7-8	10	2500	0	45	42	-	Tr	-	0.1																	
	Leuchars	36	1023.7	-8	WNW	1	bc	38	92	9	2	7	1	4-6	2500	1029.3	+2	WNW	2	c	37	92	8	5	7	7-8	7-8	2500	1	44	37	30	3	0.2	0.1																	
12	Renfrew (Abbots L.)	19	1030.7	+2	NNE	2	b	35	92	8	-	3	1	0	-	1030.3	+2	SE	1	bft	31	92	3	5	-	1	1	5700	3	45	30	21	-	-	1.2																	
	Eskdalemuir	794	1028.2	0	ENE	4	c	42	65	8	1	-	8	1	7-8	2500	1027.8	-8	NNE	5	c/r	39	85	6	8	7	9	1500	1	44	32	28	1	1	5.0																	
	Point of Ayre	30	1028.2	0	ENE	4	c	42	65	8	1	-	8	1	7-8	2500	1028.1	+2	NE	5	c	44	75	8	8	7	6	2-3	9	2500	0	47	31	-	-	2.3																
13A	Tiree	22	1030.1	0	ENE	1	e	42	95	8	9	-	7-8	7-8	3500	1031.0	0	NE	3	b	45	65	9	-	4	0	1	-	0	3	48	41	-	-	6.9																	
13B	Stornoway	80	1032.6	0	WNW	1	c	43	97	8	5	7	7-8	10	2500	1032.6	0	W	2	c/pr	42	97	8	5	7	4-6	9	2500	1	48	41	-	-	1	5.8																	
15	Dalwhinnie	1176	1031.6	0	N	1	c	37	92	7	5	-	9	9	3500	1029.4	-4	NW/N	3	c	37	92	6	5	-	9	9	1500	1	39	33	29	Tr	0.4	0.4																	
	Aberdeen	79	1031.6	0	N	1	c	37	92	7	5	-	9	9	3500	1029.4	-4	NW/N	3	c	37	92	6	5	-	9	9	1500	1	39	33	29	Tr	0.4	0.4																	
	Wick	119	1031.6	0	N	1	c	37	92	7	5	-	9	9	3500	1029.4	-4	NW/N	3	c	37	92	6	5	-	9	9	1500	1	39	33	29	Tr	0.4	0.4																	
16	Sumburgh	30	1031.6	0	NNE	3	c	45	85	8	3	-	10	10	2500	1031.3	+2	N	3	id.	45	85	7	5	-	10	10	1600	1	47	41	36	0.1	2	0.0																	
	Blackod Point	18	1030.3	+2	NE	1	bc	44	85	8	-	4	0	2-3	-	1030.2	0	N/E	4	c	47	75	8	5	-	10	10	1500	0	50	46	-	-	-	0.0																	
18	Malin Head	84	1030.1	0	NE	3	c	46	65	8	4	6	4-6	7-8	5700	1030.3	+2	NE	3	c	46	65	8	2	3	2	4-6	7-8	5700	0	48	41	-	Tr	-	4.3																
	Aldergrove	268	1030.2	+2	NE	1	c	38	85	7	5	-	9	9	3500	1030.2	+2	NE/N	1	c	46	65	8	5	4	7-8	9	2500	1	48	35	30	Tr	1	3.0																	
19	Birr Castle	173	1028.8	-4	S	4	c	39	75	8	1	3	1	7-8	4000	1029.1	0	N	1	c	39	75	8	5	-	7-8	7-8	4000	1	49	40	-	-	-	0.0																	
20	Valentia Obay.	30	1028.4	0	N/E	1	bc	40	85	8	5	-	4-6	4-6	2500	1026.6	-2	N/E	4	c	40	85	8	5	-	7-8	7-8	2500	0	47	39	-	-	-	0.0																	
	Roches Point	22	1027.4	0	N/E	1	bc	40	85	8	5	-	4-6	4-6	2500	1026.6	-2	N/E	4	c	40	85	8	5	-	7-8	7-8	2500	0	47	39	-	-	-	0.0																	
LONDON OBSERVATIONS																																	EXPLANATION OF FIGURES, LETTERS, etc.																			
Day 7h-18h, Kew & Croydon. 9h-18h, Kensington. 9h-21h, other stations except for rainfall which is 9h-18h																																	The barometric tendency is expressed in tenths of a millibar.										Objects not visible at 55 yards.									
24 hrs. ended 9h.																																	The BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 3																			

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

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



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

SECRET

BRITISH SECTION  
Tuesday 4th November 1941.  
No 29202.

OBSERVATIONS at 13h. G.M.T. 3rd November														OBSERVATIONS at 18h. G.M.T. 3rd November														PAST 24 HOURS.						
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 8 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. 0-10 (8)	Cloud.					Barom. at M.S.L. mb. (15)	Change in 8 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. 0-10 (22)	Cloud.					State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.				
				Direc.	Force. 0-12 (4)					Form.	Amount. Low Total 0-10 0-10 (10) (11)	Height of Base (feet) (14)	Direc.	Force. 0-12 (18)			Form.	Amount. Low Total 0-10 0-10 (23) (24)					Height of Base (feet) (28)	7h.—13h. 3rd (37)	13h.—18h. 3rd (38)	18h.—4h. 4th (39)	4h.—7h. 4th (40)							
1	London (Kew)...	1022.3	+4	NNE	3	N	43	55	6	8	3	-	7-8	1022.0	-4	NNE	2	N	40	75	6	5	3	-	2-3	7-8	2500	1	*	bcm, cz	cz, cm	cm	cloudb	
	Croydon ...	1022.6	-4	NNE	3	N	42	65	5	8	3	-	7-8	1021.9	0	NNE	2	N	40	85	4	5	3	-	10	10	2600	1	*	bcm, cz	cz, pr	pr, cir	cloudb	
	S. Farnborough	1022.5	-6	NW	3	N	44	65	7	2	3	-	4-6	1022.5	+2	NW	2	N	39	85	6	5	3	-	4-6	9	2600	1	*	cb, bc, cz	cz, m	cloudb	cloudb	
	Boscombe Down	1023.2	-6	NE	3	N	43	65	8	2	4	-	Tr	1022.9	0	NW	2	N	39	85	6	5	3	-	10	10	4500	0	0	bcm, bc	cm	cloudb	cloudb	
	Thorney Island	1022.0	-2	NE	3	N	44	65	6	2	3	-	2-3	1021.8	-2	NNW	2	N	40	85	6	5	3	-	4-6	9	5500	0	*	bcm, bc	cm	cloudb	cloudb	
	Lymington	1021.8	-6	NE	1	N	41	75	7	2	1	-	9	1020.8	-6	WNW	2	N	35	97	7	2	6	3	1	7-8	2500	1	3	cm, pr, s	pr, h, pr	cloudb	cloudb	
	Manston	1021.1	-6	ENE	3	N	42	65	7	8	6	-	7-8	1020.3	-6	NE/N	3	N	39	85	7	8	7	-	2	10	1200	1	*	pr, h, pr	pr, h, pr	cloudb	cloudb	
2	Shoeburyness ...	1021.9	+8	NNE	3	N	44	75	7	8	3	-	2-3	1021.0	-4	NW	3	N	36	92	8	4	4	-	2-3	4-6	7200	1	3	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Felixstowe	1021.3	-6	NW	3	N	42	75	8	8	1	-	7-8	1020.3	-2	NW	3	N	38	85	8	5	7	-	4-6	7-8	2500	1	3	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Gorleston	1023.0	0	NNE	2	N	43	75	7	8	1	-	7-8	1020.9	-10	N	5	N	41	75	7	8	1	-	9	9	1200	1	3	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Mildenhall	1023.2	-2	N	2	N	40	97	7	8	1	-	7-8	1022.4	-4	N	3	N	39	97	6	8	1	-	7-8	9	2000	1	0	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Cranwell	1023.8	-6	N	2	N	44	75	6	2	3	-	2-3	1023.6	+4	NNE	3	N	40	85	7	5	1	-	7-8	7-8	2000	0	*	pr, h, pr	pr, h, pr	cloudb	cloudb	
3	Birmingham	1024.3	-4	NNW	3	N	41	75	6	8	1	-	9	1024.1	-2	N	3	N	39	75	4	5	1	-	9	9	2500	1	*	cloudb	cloudb	cloudb	cloudb	
	Upper Heyford	1023.4	-6	N	3	N	40	85	5	8	3	-	2-3	1023.1	-2	NNW	2	N	36	97	5	9	3	-	9	9	1200	1	*	cm	pr, h, pr	cloudb	cloudb	
4	Ross-on-Wye ...	1023.9	-8	N	3	N	42	75	6	8	2	-	4-6	1023.6	-4	N	2	N	39	85	5	5	1	-	9	9	3500	1	*	cloudb	cloudb	cloudb	cloudb	
5	Hartland Point	1023.7	+2	NNE	4	N	44	65	8	2	6	-	4-6	1023.1	-2	NE	4	N	44	65	8	5	6	-	7-8	9	1500	0	4	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Bristol ...	1024.1	-6	NE	3	N	44	75	6	2	3	-	2-3	1024.0	+2	NNE	3	N	36	85	3	5	3	-	4-6	4-6	4000	0	4	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Portland Bill	1022.6	+4	NE	4	N	45	75	8	2	1	-	4-6	1022.0	+4	NE	3	N	42	85	8	5	1	-	10	10	4000	0	4	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Plymouth	1022.4	+2	NE/E	4	N	45	65	8	1	1	-	Tr	1022.9	+6	NE/N	3	N	41	65	5	1	3	-	0	9	1	0	0	pr, h, pr	pr, h, pr	cloudb	cloudb	
	The Lizard	1022.7	+2	NE	4	N	46	65	8	8	1	-	4-6	1023.2	0	NNE	3	N	42	65	8	8	6	-	4-6	7-8	2000	0	3	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Scilly (St. Mary's)	1023.4	+2	NE/E	4	N	47	55	8	8	3	-	2-3	1023.8	+4	NE/N	4	N	46	55	8	8	1	-	9	9	1500	0	0	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Guernsey	1023.4	+2	NE/E	4	N	47	55	8	8	3	-	2-3	1023.8	+4	NE/N	4	N	46	55	8	8	1	-	9	9	1500	0	0	pr, h, pr	pr, h, pr	cloudb	cloudb	
6	Pembroke	1025.9	+2	NE	4	N	44	75	8	8	1	-	7-8	1025.0	0	NE/E	4	N	43	85	7	8	1	-	9	9	2500	0	2	pr, h, pr	pr, h, pr	cloudb	cloudb	
7	Holyhead (Valley)	1025.6	-10	NE	2	N	43	97	7	6	2	-	7-8	1025.1	-2	NNE	2	N	45	92	7	6	2	-	7-8	10	1000	1	2	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Chester (Sealand)	1025.2	-10	N	2	N	43	85	5	5	1	-	9	1024.8	-2	NW	2	N	43	92	4	5	1	-	10	10	2000	1	*	pr, h, pr	pr, h, pr	cloudb	cloudb	
8	Manchester	1024.3	-10	-	0	N	38	97	3	5	1	-	10	1025.1	-2	-	0	OF	39	97	1	5	1	-	10	10	3000	1	*	pr, h, pr	pr, h, pr	cloudb	cloudb	
10	Spurn Head	1024.2	0	NE	4	N	45	65	7	4	6	-	4-6	1023.5	0	NE	3	N	44	65	7	6	5	-	4-6	4-6	2500	0	3	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Catterick	1025.3	-2	NE	4	N	43	97	6	6	2	-	7-8	1025.9	+6	NNE	2	N	42	97	6	5	2	-	9	10	1700	1	*	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Tynemouth	1026.8	+2	NE	4	N	45	85	8	8	1	-	9	1026.5	-4	N	5	N	46	85	8	5	1	-	9	9	800	1	4	pr, h, pr	pr, h, pr	cloudb	cloudb	
11	St. Abbs Head	1027.1	-8	N	4	N	46	97	7	5	2	-	7-8	1026.7	+2	N	3	N	45	97	7	5	2	-	7-8	10	1500	1	3	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Leuchars	1028.7	-10	N	2	N	48	85	8	5	1	-	10	1028.3	0	N	2	N	46	92	7	5	1	-	10	10	1100	1	*	pr, h, pr	pr, h, pr	cloudb	cloudb	
12	Renfrew (Abbots L.)	1029.2	-12	NE/E	2	N	49	65	8	5	1	-	4-6	1028.5	0	NE	3	N	48	75	8	5	1	-	8	4-6	4-6	3500	1	*	pr, h, pr	pr, h, pr	cloudb	cloudb
	Eskdalemuir	1026.9	-6	NNE	4	N	45	75	8	5	1	-	4-6	1027.7	0	NNE	3	N	43	92	6	1	2	-	10	10	800	1	*	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Point of Ayre	1027.6	-2	NE/N	5	N	48	92	8	8	4	-	4-6	1026.5	-2	NNE	5	N	49	75	7	8	2	-	9	10	2500	0	4	pr, h, pr	pr, h, pr	cloudb	cloudb	
13A	Tiree	1031.3	-4	NNE	2	N	49	65	9	1	1	-	2-3	1030.5	0	NNE	3	N	49	75	9	5	1	-	4-6	4-6	3500	0	3	pr, h, pr	pr, h, pr	cloudb	cloudb	
13B	Stormoway	1032.3	-2	NNW	2	N	49	85	8	5	7	-	7-8	1031.3	-2	NNW	3	N	49	92	8	5	7	-	7-8	9	2000	1	1	pr, h, pr	pr, h, pr	cloudb	cloudb	
16	Dalwhinnie	1031.4	-2	NNE	3	N	41	85	7	5	6	-	9	1030.7	-2	N	2	N	40	75	7	5	1	-	9	9	2500	1	*	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Aberdeen	1028.9	-4	N	3	N	46	97	5	6	1	-	10	1028.3	-2	NW	2	N	45	97	7	8	1	-	9	9	1400	1	3	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Wick	1031.0	-6	NNW	3	N	48	75	9	6	1	-	9	1030.0	-6	NNW	3	N	46	92	6	5	2	-	7-8	10	1500	1	*	pr, h, pr	pr, h, pr	cloudb	cloudb	
16	Sumburgh	1030.5	+2	N	2	N	49	92	7	5	1	-	10	1029.5	-2	N	2	N	47	97	6	5	1	-	10	10	800	1	3	pr, h, pr	pr, h, pr	cloudb	cloudb	
17	Blacksod Point...	1031.2	-2	ENE	2	N	50	65	8	1	4	-	0	1030.8	0	N	2	N	47	75	8	9	7	-	0	10	1	0	0	pr, h, pr	pr, h, pr	cloudb	cloudb	
18	Malin Head	1030.6	-6	N	3	N	49	75	8	7	1	-	2-3	1029.7	-6	N	4	N	48	75	8	9	1	-	4-6	4-6	4000	0	4	pr, h, pr	pr, h, pr	cloudb	cloudb	
	Aldergrove	1030.2	-6	NW	2																													

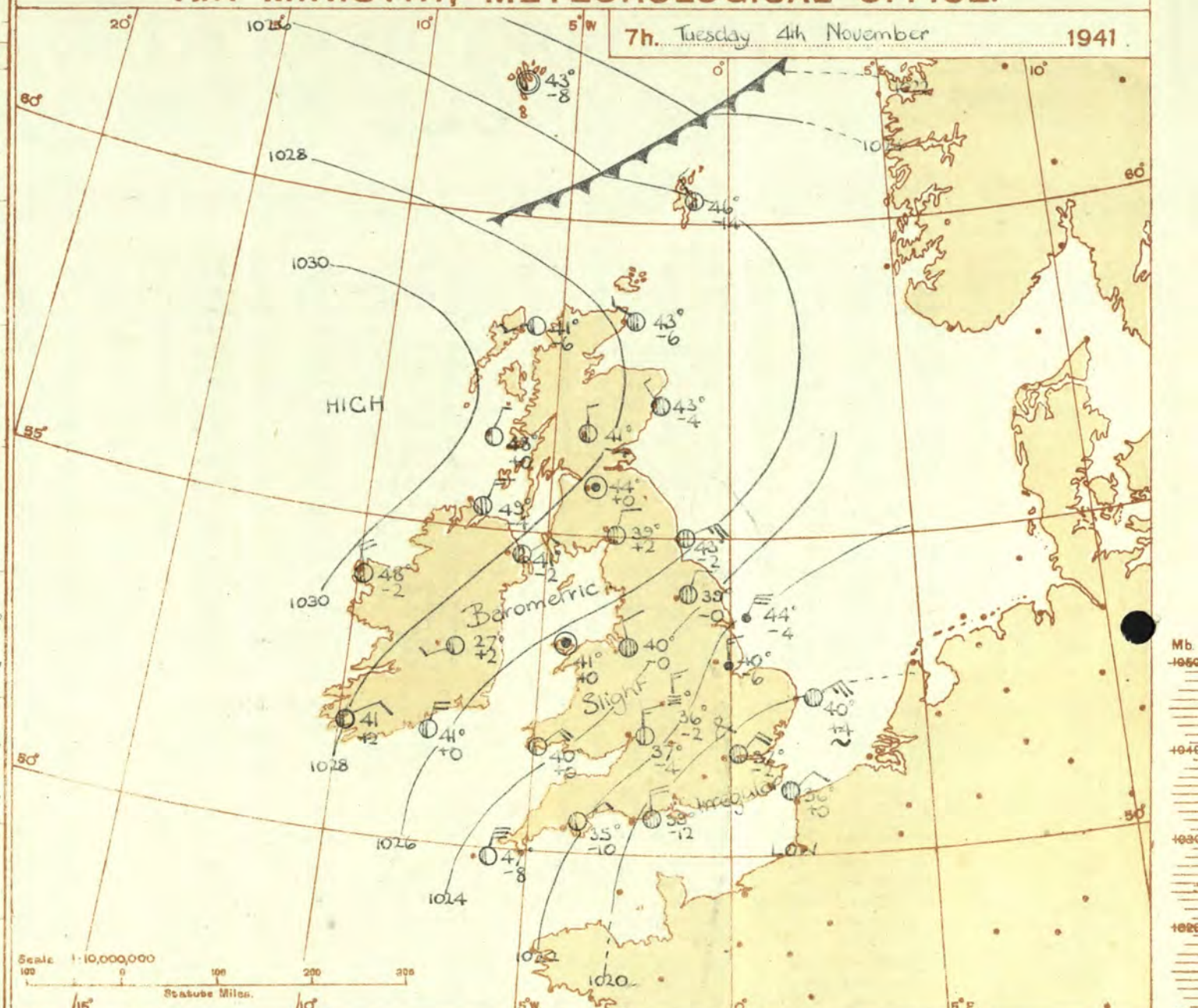


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 3rd November	18h. G.M.T.	01h. G.M.T. 4th November	07h. G.M.T.
III C. G. M. W. V. H. N. D. D. F. W. N.	C. G. M. W. V. H. N. D. D. F. W. N.	C. G. M. W. V. H. N. D. D. F. W. N.	C. G. M. W. V. H. N. D. D. F. W. N.
109 5- 51738 32428	5- 03748 20458	53 02745 28828	53 01843 25314
115 52 02944 04287	51 02844 04227	51 02944 32228	52 02844 28228
203 5- 03848 04828	5- 81838 08228	7- 02847 08327	
206 5- 02967 32227	5- 02968 32228	5- 02858 32228	5- 02867 00027
210 5- 02966 30520	52 25844 63428	02 58648 08328	57 02744 31358
220 83 02756 32228		50 01750 00014	
230 10 00862 02202	50 01863 01213	53 02961 00015	73 01962 00014
245 53 02955 01415	5- 51747 01457	5- 02860 01317	52 05657 26128
260 5- 21768 30158	5- 61867 32167	5- 02768 00008	5- 51848 00008
278 54 01873 03315	5- 02857 30317	03 01790 32424	83 02866 08327
279 84 02855 03325	5- 02858 32228	57 61845 04268	50 01864 04228
285 6- 63638 04468			
288 22 02746 04368	53 07328 04368	8- 25756 04386	5- 05657 04387
575 40 00251 04201	00 00852 28112	03 02890 00020	5- 02856 00020
301 52 61555 06368	52 08455 02368	5- 02758 02218	53 05660 03224
321 5- 02768 30388	5- 02767 01287	5- 02767 30327	5- 05657 31327
299 80 25757 06687	80 02767 04627	50 02748 04688	
292 62 51636 00068	8- 25847 03167	5- 02867 31287	5- 02357 01887
310 -- 03423 32428	-- 57209 32323	-- 01604 32314	
314 53 05546 32227	87 21455 02258	53 05663 32427	5- 05663 02328
333 57 02344 30227	52 02856 32328	03 01800 04114	54 02865 2126
334 -- 03537 34228	-- 03647 04228	-- 02655 04216	
340 5- 17544 32357	5- 47288 31328	00 45230 01250	5- 05675 32245
136 3- 31557 04387	80 27850 04386	8- 25967 01387	52 02756 09367
336 32 03342 02328		54 01763 04316	
350 8- 05665 28228	53 05664 32317	77 22666 32308	
368 86 02865 06416	53 05664 00025	03 05630 32126	53 05662 02214
370 23 05643 04386	5- 05643 32388	03 05634 02327	5- 05637 04327
390 83 05653 02317	53 08473 02325	5- 31758 30368	5- 05656 05368
382 53 02766 32327	8- 25653 20285	5- 08465 31415	62 62654 31328
428 3- 02745 02415		82 25745 01438	
430 3- 81553 02487	53 05662 32327	07 05650 02428	
490 30 02753 04412	5- 02767 04227	04 05660 05212	5- 05753 05115

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W = Present and past weather—See M.O. 252.  
h, Sh = Height and amount of low cloud—See M.O. 252.  
N = Total amount of cloud—See M.O. 252.  
C, C<sub>u</sub> = Form of low and medium cloud—See page 1.  
V = Visibility—F = Force of wind—See page 1.  
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday November 4th 1941

1 S.E. England	Light or moderate N.E. wind, cloudy with rain at first in west of area,
2 E. England ...	otherwise local showers; sky clearing in many areas tonight with fog developing
3 E. Midlands ...	in places; cold with frost in places tonight.
4 W. Midlands ...	
5 S.W. England	Light or moderate N.E. wind, cloudy with some rain spreading westwards at
6 South Wales ...	first cloud clearing tonight in many areas, with fog developing; cold with frost
7 North Wales ...	in places at night.
8 N.W. England	
9 N. Midlands ...	Light N. to N.E. wind, cloudy; occasional slight rain; rather cold.
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland	
& Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	Light W. wind veering N. or N.W.; cloudy at first, bright periods
14 Mid Scotland	later local showers; cold.
15 N. E. Scotland	
16 Orkneys and	
Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	Light or moderate N.E. wind; mainly cloudy; slight local rain;
19 S. E. Ireland	rather cold.
20 S. W. Ireland	

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

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.

GENERAL INFERENCE.

A small depression off the S.E. English coast is moving W.S.W. and an associated band of rain is moving west across Southern and Central England and Wales. There will be an improvement in its rear but there will be considerable cloud and local showers in all areas. Temperature will still be very low for the season in the South.

FURTHER OUTLOOK.

Continuing cold in most areas but with variable amounts of cloud and local showers.

Forecasts issued at  
H.M.S.O. Press, Meteorological Office, Dunstable.

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

0.26/4120. No. 0176. D. 6034. Op. 348. 3500. 3/41

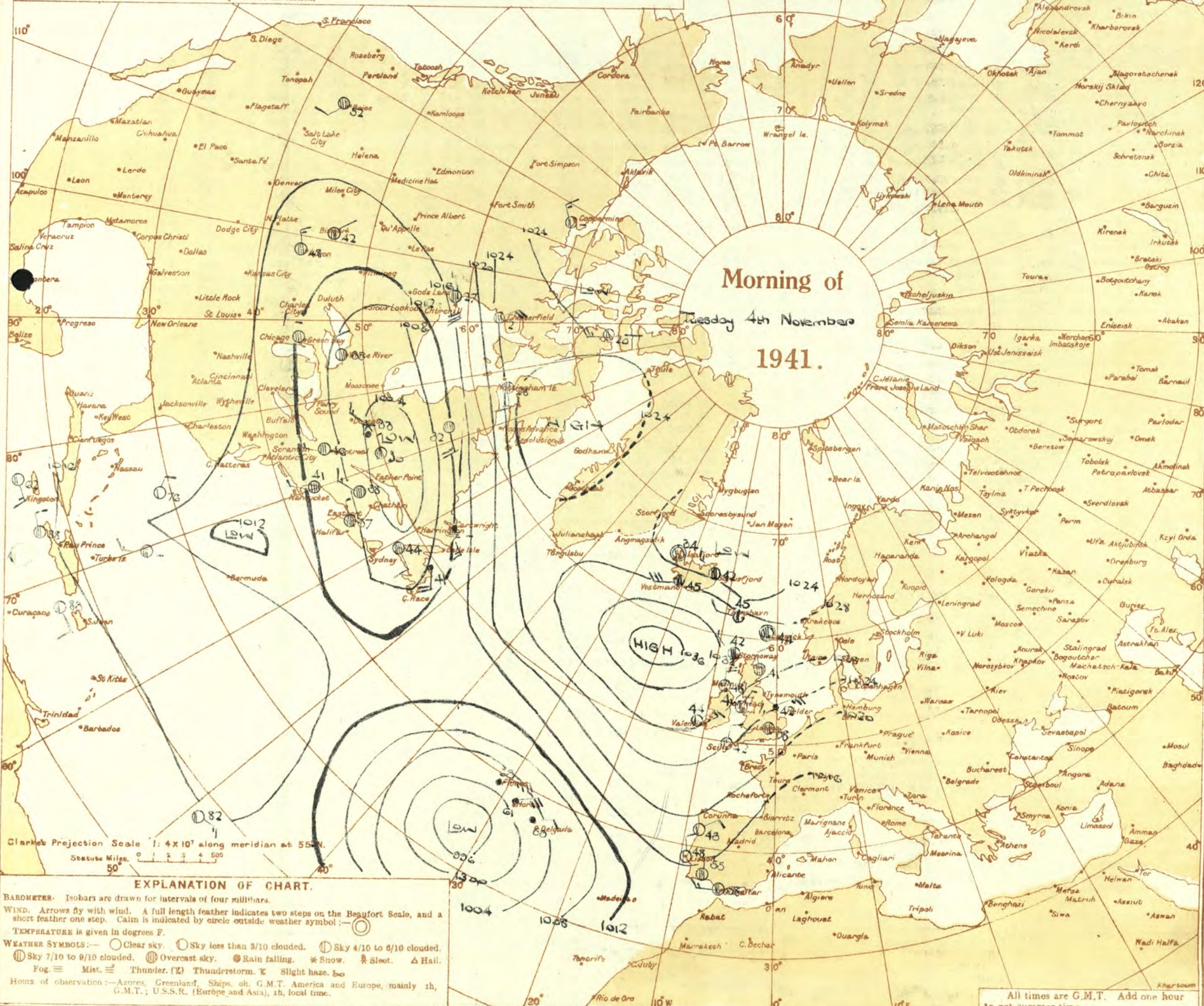


# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)  
**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 the 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.

Morning of  
 Tuesday 4th November  
 1941.



## EXPLANATION OF CHART.

**BAROMETER.** Isobars are drawn for intervals of four millibars.  
**WIND.** Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol (—) ○  
**TEMPERATURE** is given in degrees F.  
**WEATHER SYMBOLS:** — ○ Clear sky. ○ Sky less than 3/10 clouded. ○ Sky 4/10 to 6/10 clouded. ○ Sky 7/10 to 9/10 clouded. ○ Overcast sky. ○ Rain falling. \* Snow. \* Sleet. Δ Hail. Fog. ≡ Mist. ≡ Thunder. (T) Thunderstorm. T Slight haze. so  
 Hours of observation:—Azores, Greenland, Ships, oh. G.M.T. America and Europe, mainly 1h. G.M.T.; U.S.S.R. (Europe and Asia), 1h, local time.

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



THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Tuesday 4th November 1941.  
No. 29202.

OBSERVATIONS at 1 hr. G.M.T. 4th November															OBSERVATIONS at 7 hr. G.M.T. 4th November															PAST 24 HOURS.									
District.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					State of Ground.	Sea. 0-9	TEMPERATURE.			RAINFALL.			SUNSHINE Hrs.		
					Dir.	Force.					Low.	Med.	High.	Low.	Med.			High.	Low.					Med.	High.	Low.	Med.	High.			Max. Day 7h-18h °F.	Min. Night 18h-7h °F.	Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.				
																																				0-12		0-10	0-10
1	London (Kew) ...	18	1020.3	-1.0	N	3	rr	38	85	6	5	2	7-8	10	3000	1019.4	-2	NNE	3	20	38	85	5	3	9+ 9+	1500	1	4	42	37	33	-	1	1.7					
	Croydon ...	217	1020.3	-1.0	N	3	rr	38	85	6	5	2	7-8	10	3000	1018.9	-2	NNE	4	20	37	85	5	3	2-3 7-8	1200	1	4	42	37	28	Tr	0.6	4.3					
	S. Farnborough ...	226	1021.1	-1.0	N	2	z	35	92	5	3	1	2-3	9+	5000	1019.4	+2	N	3	20	36	92	6	3	7-8 9+	3000	1	4	46	32	23	Tr	0.5	4.3					
	Boscombe Down ...	417	1021.5	-1.2	N	2	z	33	92	5	3	1	0	4+	-	1020.7	-6	N	3	20	36	85	6	3	4-6 9+	2000	0	4	43	31	26	-	0.3	5.8					
	Thorney Island ...	10	1020.6	-1.2	N	2	z	37	85	5	1	2	0	+	-	1018.5	-2	N	4	20	38	92	7	4	7-8 7-8	4000	1	4	45	35	27	-	0.3	4.4					
	Lympe ...	346	1018.6	-1.6	N	3	rr	36	97	6	2	6	7-8	9+	1800	1018.3	0	NNE	2	20	36	85	6	5	10 10	4000	1	4	42	35	33	2	6	1.7					
	Manston ...	154	1017.6	-1.6	N	4	rr	40	85	6	8	2	9	10	1300	1018.0	+6	NNE	4	20	38	65	6	5	10 10	2500	1	4	44	31	28	2	10	2.4					
2	Shoeburyness ...	11	1013.2	-1.4	N	3	rr	39	92	7	1	2	10	10	1500	1018.8	+6	NNE	4	20	38	75	7	5	10 10	2500	1	4	45	35	31	0.5	2	2.0					
	Felixstowe ...	15	1019.0	-1.8	N	3	rr	39	97	6	5	2	7-8	10	1400	1018.6	-2	NNE	5	20	40	65	6	5	10 10	3000	1	4	43	36	35	1	7	1.0					
	Gorleston ...	5	1020.2	-1.0	N	6	rr	42	85	6	8	1	10	10	1000	1020.6	+4	NNE	5	20	40	65	6	5	10 10	1000	1	4	45	38	38	3	5	4.8					
	Mildenhall ...	19	1020.4	-1.0	N	3	id.	40	85	7	5	1	9	3	2500	1020.3	+2	N	3	20	37	85	7	8	2-3 2-3	2500	1	4	43	35	31	1	1	0.8					
	Cranwell ...	240	1023.1	-1.6	N	3	z	35	85	6	5	1	9	3	3000	1021.7	-6	N	3	20	40	85	6	5	10 10	2000	1	4	45	36	35	1	0.1	4.3					
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1022.4	-2	N	3	36	85	4	5	9+ 9+	1500	1	4	42	34	29	-	-	0.9						
	Upper Heyford	408	1022.4	-8	NW	3	m	36	92	4	5	-	9+	9+	4000	1020.8	-4	N	3	37	85	6	5	2	7-8 10	2500	1	4	43	33	32	1	Tr	*					
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1023.7	-4	N	3	37	75	6	5	3	4-6 4-6	3000	1	4	45	35	29	-	-	3.1					
5	Hartland Point	299	1023.2	-2	ENE	2	m	43	65	7	5	6	4-6 7-8	2500	1021.8	-2	NE	4	3	33	55	7	5	1	7-8 7-8	2500	0	4	45	40	38	Tr	-	3.2					
	Bristol	209	1023.5	-6	NE	3	c	35	97	4	5	-	9+	9+	4000	1021.3	-4	NNE	3	20	36	85	5	3	1 9+	3000	0	4	44	33	22	-	-	3.2					
	Portland Bill	32	1021.6	-6	NE	3	c	39	85	7	2	-	9	9	4000	1018.9	-12	N	4	3	39	85	7	5	10 10	2500	0	3	45	35	*	-	-	8					
	Plymouth	82	1022.9	-2	1	0	c	34	92	6	1	3	0	Tr	-	1021.1	-10	N	1	bc	33	57	7	5	0 4-6	-	0	2	47	33	27	-	-	8					
	The Lizard	240	1023.6	0	NE	4	bc	37	85	8	4	-	2-3 2-3	2500	1022.5	-4	NE	3	bc	39	75	8	8	6	4-6 4-6	2500	0	2	47	36	*	-	-	7.4					
	Scilly (St. Mary's)	163	1023.9	0	NE	2	bc	42	75	8	8	-	2-3 2-3	1500	1021.0	-8	NNE	6	bc	47	65	8	8	-	4-6 4-6	1500	0	4	47	41	*	0.3	-	4.4					
	Guernsey	175	*	*	*	*	*	*	*	*	*	*	*	*	*	1024.9	0	NE	4	bc	40	85	7	8	-	4-6 4-6	3000	0	3	46	36	*	Tr	-	2.4				
6	Pembroke	142	1024.7	-2	NE	4	bc	43	85	7	2	-	4-6 4-6	4000	1024.6	0	1	0	pr	41	97	6	5	7	9 9+	1000	1	4	46	39	33	7	0.1	0.0					
7	Holyhead (Valley)	26	1025.1	+2	NE	1	bc	41	92	7	2	4	1 2-3	3000	1024.9	0	NW	2	20	40	75	5	5	-	10 10	3500	0	4	43	35	29	0.5	-	0.0					
8	Chester (Sealand)	16	1025.5	+2	NE	1	bc	37	92	3	5	-	10 10	4500	1024.6	-2	NW	3	m	38	92	4	5	-	9 9	2500	1	4	39	35	27	1	0.1	*					
	Manchester	235	1023.4	-2	1	0	m	37	97	4	-	3	0	9+	-	1024.6	-2	NW	3	38	92	4	5	-	9 9	2500	1	4	46	41	*	Tr	-	0.7					
10	Spurn Head	29	1023.4	-2	ENE	5	rr	42	75	7	8	-	10 10	2500	1021.6	-4	NNE	6	rr	44	85	6	9	-	9+ 9+	2500	1	4	46	37	*	Tr	0.7						
	Catterick	175	1026.3	-2	1	0	pr	39	92	6	5	-	10 10	2200	1023.5	0	NE	2	20	39	85	6	5	-	9+ 9+	2500	1	4	43	37	*	0.1	0.0						
	Tynemouth	108	1026.8	0	1	5	pr	44	75	8	8	-	7-8 7-8	1500	1026.3	-2	ENE	5	pr	43	65	8	2	-	7-8 7-8	1500	1	4	47	42	37	3	0.4	*					
11	St. Abbs Head	280	1017.3	0	NE	2	c	44	92	8	5	2	7-8	10	2500	1027.6	-2	NE	2	c	44	85	8	5	4	7-8 9+	2500	1	3	48	43	*	4	2	0.2				
	Leuchars	36	1018.1	-6	NW	2	rr	43	92	8	5	-	9+	9+	2200	1027.1	-8	NW	2	id.	42	92	6	5	-	10 10	2200	1	4	49	42	28	0.5	Tr	0.2				
12	Renfrew (Abbots I.)	19	1028.3	-6	SE	1	c	44	85	8	5	-	10 10	3000	1027.8	0	1	0	id.	44	92	7	5	-	10 10	2000	1	4	49	39	29	Tr	3.1						
	Eskdalemuir	794	1028.3	-6	SE	1	c	44	85	8	5	-	10 10	3000	1026.6	+2	NNE	2	c	39	85	8	8	2	7-8 9	1500	1	4	46	39	37	3	4	3.8					
	Point of Ayre	30	1026.4	-2	NE	4	c	47	85	8	8	-	9+	9+	3000	1026.2	-4	NE	4	pr	46	75	8	8	2	7-8 9	1800	1	4	50	45	*	0.1	0.7					
13A	Tiree	22	1030.5	0	NE	3	bc	47	85	8	1	4	2-3 2-3	3500	1029.2	0	NE	3	bc	48	75	8	7	-	4-6 4-6	3500	0	3	50	46	*	-	-	5.7					
13B	Stornoway	80	1030.6	-10	NW	1	bc	42	85	8	5	4	1 2-3	3500	1029.4	-6	NSW	1	bc	41	97	7	5	4	2-3 4-6	3000	1	0	48	38	*	-	-	0.0					
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.2	-4	N	1	c	41	85	7	5	-	9+ 9+	1500	1	4	42	38	35	-	-	0.4				
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	1027.2	-4	N	1	c	43	85	6	5	-	9+ 9+	2400	1	4	48	40	37	16	11	0.7				
	Wick	119	1029.2	-6	N	2	0	47	85	8	5	-	10 10	3500	1027.7	-6	NW	1	c	43	92	7	5	7	Tr 9+	2000	1	4	48	43	41	0.2	0.1						
16	Sumburgh	30	1028.5	-8	NW	2	c	45	92	8	5	3	2-3 9+	2000	1026.3	-14	NW	1	c	46	85	8	5	3	4-6 9	2000	1	4	48	44	*	0.2	0.1						
17	Blacksod Point	18	1030.2	-8	NE	1	rr	47	97	8	5	-	10 10	2500	1029.1	-2	NW	4	rr	48	97	8	5	-	9+ 9+	2500	1	4	50	45	*	0.1	4.2						
18	Malin Head	84	1029.2	-10	NE	4	c	48	75	8	4	6	4-6 7-8	5700	1028.1	-4	NNE	3	c	49	75	8	2	-	7-8 7-8	5700	0	3	49	45	28	Tr	-	7.0					
	Aldergrove	268	1028.6	-2	ENE	1	c	39	97	8	5	4	9+	9+	3000	1027.8	-2	NE	3	c	41	97	8	5	-	9+ 9+	3000	1	4	49	38	*	-	-	2.5				
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	1028.8	+2	NSW	1	bc	27	97	8	-	3	0 4-6	-	0	47	26	24	-	-	2.5					
20	Valentia Obsy.	30	1029.3	-10	NNE	3	bc	44	75	9	7	-	2-3 2-3	4000	1028.8	+2	ENE	2	bc	41	85	9	7	-	4-6 4-6	4000	1	4	47	40	31	Tr	-	7.8					
	Roches Point	22	1027.2	-8	NE	4	bc	43	85	8	5	-	1 1	4000	1026.3	0	NE	4	bc	41	85	8	5	-	2-3 2-3	4000	0	4	48	41	*	-	-	*					

LONDON OBSERVATIONS.											EXPLANATION OF FIGURES, LETTERS, etc.										
Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations except for rainfall which is 9h—18h											Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.										
Height above S.E. in feet.											COLUMNS 2, 16. The barometric tendency is expressed in tenths of a millibar.										
24 hrs. ended 9h.											COLUMNS 8, 22 —Code for surface visibility.										
°F. °F. Min. on Grass °F.											Objects not visible at										
mm. mm. Yesterday. To-day.											55 yards.										
Kew... ..											1 Thick fog 220 "										
Croydon... ..											2 Fog 550 "										
Greenwich (Royal Observatory)...											3 Moderate fog 1,100 "										
City (Bunhill Row) ... ..											4 Mist or haze 1½ miles.										
Westminster (St. James' Park) ...											5 Poor visibility 2½ "										
Regents Pk. (Botanic Gardens)...											6 Moderate " 6½ "										
Camden Square ... ..											7 Good " 12½ "										
Kensington ... ..											8 Very good " 31 "										
Hamstead Observatory ... ..											9 Excellent " beyond 31m.										
SOUTH KENSINGTON.											COLUMNS 4, 18.										
Max. Time. Min. Time.											THE BEAUFORT SCALE OF WIND is used only for surface observations. In the ac- companying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.										
KEW OBSERVATORY.											Beaufort No.										
Max. Time. Min. Time.											Statute m/h.										
0.2 8h 40.1 5h											Beaufort No.										
3rd 4th											Statute m/h.										
0 1 4 13-18 9 47-54											COLUMNS 30—Code for State of Sea.										
1 1-3 5 19-24 10 56-63											0 Calm—glassy. 5 Rough.										
2 4-7 6 25-31 11 64-75											1 Calm—rippled. 6 Very rough.										
3 8-12 7 32-38 12 75											2 Smooth. 7 High.										
											3 Slight. 8 Very high.										
											4 Moderate. 9 Phenomenal.										
COLUMNS 34, 35.																					
Tr. = rain has fallen, but amount less than 0.1 mm.																					

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

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



AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
BRITISH SECTION  
Wednesday 5th November 1941.  
No. 29203

OBSERVATIONS at 13h. G.M.T. 4th November														OBSERVATIONS at 18h. G.M.T. 4th November														PAST 24 HOURS.							
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 8 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. at M.S.L. mb. (15)	Change in 8 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.					
				Dir.	Force. 0-12 (4)					Form.	Amount. Low Med. High (10) (11) (12)	Total 0-10 (13)	Height of Base. (feet) (14)	Dir.			Force. 0-12 (18)	Form.					Amount. Low Med. High (23) (24) (25)	Total 0-10 (26)	Height of Base. (feet) (28)	7h.—12h. 4h. (37)	12h.—18h. 4h. (38)			18h.—24h. 5h. (39)	1h.—7h. 5h. (40)				
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lympne ... Manston ...	1020.9 1020.6 1020.8 1021.7 1019.8 1020.6 1020.2	+6 +6 +2 +1 +4 +8 +6	NNE NNE NE NE NE NE NE	3 3 4 3 3 3 3	0-12 0-12 0-12 0-12 0-12 0-12 0-12	40 39 40 41 39 37 39	65 75 75 55 75 97 75	5 5 6 7 6 7 6	5 5 5 5 5 5 5	2 2 2 2 2 2 2	- - - - - - -	9 9 9 9 9 9 9	10 10 10 10 10 10 10	1500 2500 1800 3500 2500 2200 2500	1022.8 1022.7 1023.1 1023.2 1021.8 1022.2 1022.1	+12 +16 +22 +14 +18 +14 +12	NE NE NE NE NE NE NE	3 2 2 3 3 2 2	Z M Z Z Z Z Z	40 39 39 35 39 37 40	65 75 75 75 75 85 65	8 4 6 6 5 6 6	- - - - - - -	9 7 7 7 7 7 7	9 10 10 10 10 10 10	2500 2500 4000 5000 1800 2200 3000	1 1 1 0 0 1 1	4 4 4 4 4 4 4	cir.cu. ir.sd. cbec. cm.id.cbc cpr.cm. cmopsc cmorse	c2 c2 c2 c cmo ccmo c.cmo	c2 c2 c2 c cmo cmo c.cmo	c2 c2 c2 c cmo cmo c.cmo	cmo cmo cmo cmo cmo cmo cmo	
2	Shoeburyness ... Felixstowe ... Gorleston ... Mildenhall ... Cranwell ...	1020.9 1020.6 1022.8 1023.2 1023.3	+6 +4 +8 +2 +4	ENE E ENE NE NE	4 4 4 4 2	0-12 0-12 0-12 0-12 0-12	41 41 42 41 42	75 75 65 75 75	8 7 8 7 7	5 5 5 5 5	- - - - -	- - - - -	9 10 10 9 9	9 10 1000 1000 1500	1022.6 1021.9 1023.8 1023.9 1024.4	+14 +12 +8 +8 +10	ENE NNE NNE NE NE	3 3 4 2 1	C Z C C Z	39 39 41 39 37	85 75 65 65 85	8 6 6 6 5	- - - - -	9 10 10 9 9	9 10 1500 3500 2500	1 1 1 1 1	3 4 4 4 4	c. cir.mae eq bec crrac	c ccmo c c ccmo	c cmo cy c cmo	cmo cmo c cmo cmo				
3	Birmingham Upper Heyford	1023.4 1022.0	+2 +2	NNE NE	3 4	0-12 0-12	39 41	92 65	5 8	6 2	- -	- -	10 2-3	10 1800	1024.3 1023.6	+4 +12	N NE	2 2	M Z	33 38	92 76	4 4	5 5	- -	- -	10 9	10 9	450 2500	1 1	4 4	cir. cir.mae cm.cra.c2	cir. becz cmobcmo	o.c becz cmobcmo	o.c becz cmobcmo	
4	Ross-on-Wye ...	1022.5	0	N	4	0-12	42	75	5	5	-	-	9	9	3000	1023.7	+8	NE	3	M	41	85	4	5	-	-	10	10	800	1	4	cm.cra.c2	cmobcmo	cmobcmo	cmobcmo
5	Hartland Point Bristol ... Portland Bill ... Plymouth ... The Lizard ... Scilly (St. Mary's) Guernsey ...	1022.5 1022.8 1020.0 1021.1 1022.2 1022.9	+2 +2 +10 -2 0 +2	NE N N NE NE NE	3 4 4 3 3 5	0-12 0-12 0-12 0-12 0-12 0-12	44 40 41 45 47 47	65 85 85 65 55 55	8 5 3 8 8 8	1 5 2 3 2 8	4 2 2 7 3 -	- - - - - -	4 9 10 7 4 4	3000 2000 4000 2000 2500 1800	1022.8 1023.9 1021.7 1022.4 1023.2 1023.6	+10 +8 +16 +12 +6 +10	NE NE NNE NE N NE	4 2 4 4 2 4	C Z O Z B C	45 38 41 41 39 46	65 75 85 75 75 65	7 5 5 5 8 8	- - - - - -	9 9 10 1 4 7	9 3000 2500 3500 2500 1800	0 0 1 0 0 0	4 4 3 3 4 4	cbecy cd.domo e bcmc bey	c cmo co bcmc bc	cmobcmo bcmo bcmo bcmo bcmo	bcc cmz bbc bzob cbc				
6	Pembroke	1023.9	-6	NE	5	0-12	46	65	8	1	4	-	2-3	4-6	3000	1024.9	+6	NNE	4	bc	42	85	8	2	6	-	2-3	4-6	3000	0	2	bc	bc	cbc	bcmob
7	Holyhead (Valley)	1025.2	+2	NE	3	0-12	46	65	9	7	-	9	4-6	7-8	3000	1025.6	+6	NE	1	c	42	75	8	5	-	-	9	9	3000	1	4	cbcc	cbc	bczo	cir.mae
8	Chester (Sealand)	1024.7	-2	NNW	2	0-12	46	65	5	-	3	1	0	4-6	-	1025.1	+10	N	2	Z	44	75	5	5	-	-	9	9	3000	1	4	cbemmo	becz	cmfbc	bcmfbc
8	Manchester ...	1023.8	-4	NNE	4	0-12	45	65	6	5	4	9	4-6	7-8	4000	1025.1	+6	NNE	3	Z	42	75	5	5	-	-	9	9	3000	1	4	bemz.	becz	cmfbc	bcmfbc
10	Spurn Head ... Catterick ... Tynemouth ...	1023.3 1025.9 1026.7	0 -2 -2	E NNE NE	3 3 4	0-12 0-12 0-12	44 43 45	75 75 65	7 8 8	6 8 1	3 - 3	- - 2	4 9 2-3	7-8 9 4-6	2500 2800 3200	1024.2 1025.9 1026.5	+4 +6 +6	E N NE	3 1 3	C C bc	44 40 44	65 85 65	7 6 8	4 3 2	- - 1	9 4 2-3	9 7-8 4-6	1500 3000 3200	1 1 1	4 4 3	c cmoe cbc	c cmobc bc	om bcmob bcc	c bcmob cbc	
11	St. Abbs Head Leuchars ...	1026.6 1027.1	-2 -8	- NW	0 1	0-12 0-12	46 45	85 92	9 6	5 5	2 2	- -	7-8 7-8	10 10	2500 1500	1026.2 1026.7	0 -8	W W/S	1 2	c M	42 43	97 97	9 4	5 7	2 7	- -	7-8 7-8	10 10	2500 2100	1 1	2 4	c cdar.cu.	cpr. cmobcmo	c cFFFFm	c cmobcmo
12	Renfrew (Abbots L.) Eskdalemuir ... Point of Ayre ...	1027.5 1025.7 1026.8	-2 0 0	- NE NE	0 2 3	0-12 0-12 0-12	45 43 46	92 75 75	4 8 8	5 5 2	2 3 3	- - -	7-8 9 2-3	10 1500 2000	1026.7 1026.6 1026.2	-2 0 -4	- - NE	0 0 3	Ft c c	42 41 47	97 85 75	1 8 8	- 5 7	- - -	10 9 4-6	10 1500 2500	1 1 0	4 4 4	c c c	c cpr. c	cmobcmo cmobcmo	c cFFFFm c	c cmobcmo cmobcmo		
13A	Tiree ...	1028.4	-4	N	1	0-12	51	75	8	1	3	-	1	4-6	3500	1027.4	-4	N	2	c	50	85	8	5	3	-	4-6	7-8	2500	0	3	cb	c	cbcc	cpr
13B	Stornoway ...	1027.1	-12	N	2	0-12	48	92	7	5	7	-	7-8	10	1500	1026.9	+2	NW	2	c	41	92	7	5	4	2	1	9	2500	1	1	cpr	cpr	cbcc	c
15	Dalwhinnie ... Aberdeen ... Wick ... Sumburgh ...	1027.9 1026.1 1025.9 1024.5	-4 -6 -14 -10	NNW - W/S NW	1 0 2 3	0-12 0-12 0-12 0-12	44 45 46 47	75 97 97 85	8 3 6 7	5 5 5 5	- - 2 -	- - 2 -	10 10 9 9	10 500 1600 1500	1027.3 1025.4 1025.6 1023.9	-2 -2 0 -2	- WNW NW N	0 1 2 1	c c c c	36 45 43 45	85 92 92 75	7 3 8 8	5 2 5 7	- - 1 -	2-3 9 2-3 4-6	7-8 3100 1400 2000	0 2 1 1	4 2 4 3	co cmf becv.d. bcmobcmo	oc ofd.r.f d.d.crad. cpr.c	c c c c	cmobcmo cmobcmo cmobcmo cmobcmo			
17	Blacksod Point...	1027.6	-2	N	3	0-12	50	92	8	6	-	-	9	9	2500	1029.1	+4	NW	2	c	49	92	8	5	-	-	10	10	2500	1	5	ir.	c	bc	c
18	Malin Head ... Aldergrove ...	1028.1 1027.7	-2 -2	N N	3 1	0-12 0-12	50 48	75 85	8 8	2 3	- -	- -	4 9	7-8 9	3900 2000	1027.6 1027.7	-2 +6	N -	3 0	c bc	50 42	75 92	8 8	9 5	- -	4-6 6	7-8 4-6	4000 4000	0 1	2 4	c c	c c	cbcc c	c c	
19	Birr Castle ...	1027.8	-10	NE	1	0-12	45	85	8	5	1	-	7-8	10	4000	1027.4	+2	N	1	c	45	92	8	5	1	-	7-8	10	2500	1	4	bee	c	cbcc	cbcc
20	Valentia Obey. † Roches Point ...	1028.2 1026.2	+6 -6	NE N	3 4	0-12 0-12	50 48	65 75	9 8	7 5	1 4	- 5	7-8 2-3	7-8 4-6	4000 4000	1028.3 1026.8	+6 +6	ENE ESE	3 3	c c	49 47	75 85	9 8	8 8	- -	- -	9 7-8	9 1500	1 0	3 4	c c	c c	cbcc c	cbcc c	



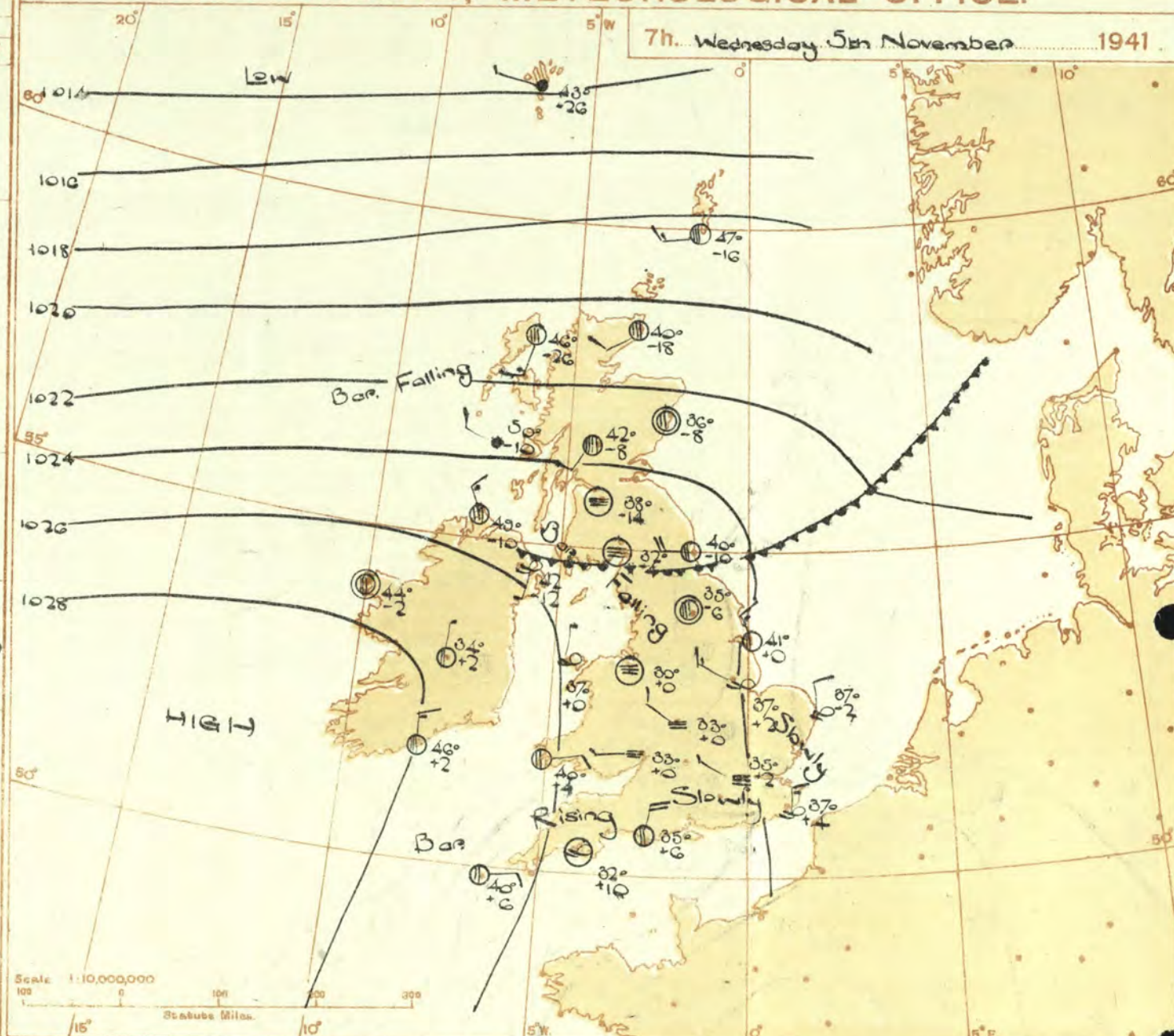
Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 4th Nov.				18h. G.M.T.				01h. G.M.T. 5th Nov.				07h. G.M.T.			
III	C <sub>M</sub>	wwVh <sub>N</sub>	DDFWN	C <sub>M</sub>	wwVh <sub>N</sub>	DDFWN	C <sub>M</sub>	wwVh <sub>N</sub>	DDFWN	C <sub>M</sub>	wwVh <sub>N</sub>	DDFWN	C <sub>M</sub>	wwVh <sub>N</sub>	DDFWN
109	57	61865	30358	77	01855	26324	5-	02865	23325	87	02854	18316			
115	52	62735	28368	54	02844	32385	74	02844	28226	87	02844	28327			
203				8-	82845	04325	8-	02845	08325						
206	7-	02975	28125	52	22855	00068	53	00861	00023	53	02855	28147			
210	53	02862	21326	52	61546	31368	08	01620	20224	57	02851	16127			
220	83	26844	29345	80	22447	00067									
230	50	02977	31227	53	61645	32126	53	01851	00014	8-	22757	00067			
245	52	62535	24168	57	05565	23167	5-	02867	25167	52	05665	24126			
260	5-	52745	30158				5-	47248	24248	53	05575	24147			
277	87	51856	28167	57	05555	00067	84	05655	00018	8-	05548	12368			
279	84	02855	04216	57	02855	32127	5-	05658	18228	51	05553	20123			
285	23	05644	06514	23	01744	04314				23	01633	30414			
288	8-	02855	02226	5-	17467	31227	03	43380	18245	52	22665	17268			
275	83	01854	32124	53	02855	32217	5-	02768	30228	50	00751	30212			
301	14	01761	03413	03	47380	04212	03	08480	04142	5-	08458	08118			
321	6-	58528	06388	5-	61668	32268	53	05664	32125	57	05564	27215			
299	50	61743	06625	8-	22647	06267	5-	22748	00068	50	01745	26215			
292	8-	02857	02317	5-	02767	31327	5-	05567	28317	5-	05667	30117			
310	--	02638	32428	--	51428	32528									
614	5-	62548	02268	40	08464	02224	53	47361	00027	04	05590	28143			
333	5-	01963	02314	4-	01751	32203	00	00680	30201	57	02765	00027			
334	--			--	03647	30328				--	03557	02228			
340	5-	17667	31217	5-	05658	00028				03	45380	00043			
136	5-	02767	07317	5-	05668	08228	00	05680	30120	5-	61438	28218			
336	13	17667	31217	52	05542	04328				54	01761	02312			
350	8-	02767	04417	5-	05667	04327									
368	53	02756	04327	5-	25647	02387	5-	05567	00027	04	08490	32122			
376	5-	02745	04365	5-	05667	04227	03	05580	04121	50	05544	32124			
390	5-	05668	06288	5-	05567	04327	5-	05667	32117	5-	08457	2822*			
382	8-	05665	04325	5-	05668	02228	5-	05667	00027	5-	05545	00005			
425	62	03747	04527							8-	02667	31427			
430	53	05664	04566	5-	05667	02327	5-	05657	32327	50	05661	32211			
440	20	01854	04314	80	01754	04314	5-	05666	08216	00	05680	05111			

III - Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww - Present and past weather—See M.O. 252.  
h, N<sub>h</sub> - Height and amount of low cloud—See M.O. 252.  
N - Total amount of cloud—See M.O. 252.  
C<sub>M</sub> - Form of low and medium cloud—See page 1.  
V - Visibility—See page 1.  
F - Force of wind—See page 1.  
DD - Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Wednesday 5th November 1941



Mb.  
-1060  
-1040  
-1020  
-1000  
-980  
-960  
-940  
-920  
-900  
-880  
-860  
-840  
-820  
-800  
-780  
-760  
-740  
-720  
-700  
-680  
-660  
-640  
-620  
-600  
-580  
-560  
-540  
-520  
-500  
-480  
-460  
-440  
-420  
-400  
-380  
-360  
-340  
-320  
-300  
-280  
-260  
-240  
-220  
-200  
-180  
-160  
-140  
-120  
-100  
-80  
-60  
-40  
-20  
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860  
880  
900  
920  
940  
960  
980  
1000  
1020  
1040  
1060  
1080  
1100  
1120  
1140  
1160  
1180  
1200  
1220  
1240  
1260  
1280  
1300  
1320  
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1500  
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1600  
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1800  
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1860  
1880  
1900  
1920  
1940  
1960  
1980  
2000

DISTRICTS.

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

1 S.E. England	Light northerly wind backing west, mainly fair with variable cloud, fog or mist in many places towards dawn; rather cold today, frost in places tonight but temperature rising tomorrow.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	
7 North Wales ...	
8 N.W. England	Wind becoming moderate or fresh westerly; mainly cloudy, some rain later; milder than of late.
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	Wind west to southwest increasing to strong, perhaps gale in exposed places veering north later in the North; cloudy with rain later today, some wintry showers in the North tomorrow; becoming milder today, but cold again tomorrow.
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	As 7-12
19 S. E. Ireland	
20 S. W. Ireland	As 1-6

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their character is 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  
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.

GENERAL INFERENCE.

An anticyclone off West Ireland is moving slowly south and a deepening depression just south of Iceland will move east-southeast. Weather will be fair in the South but with fog in places tonight. In the North winds will become strong to gale westerly veering north later. Low cloud and rain will spread from West across our Northern districts. It will be temporarily milder than of late in the North and later it will become milder in the South also.

FURTHER OUTLOOK.

Changeable weather; mainly cold, with snow locally in the North.

Forecasts issued at 10.30h. G.M.T.

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

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

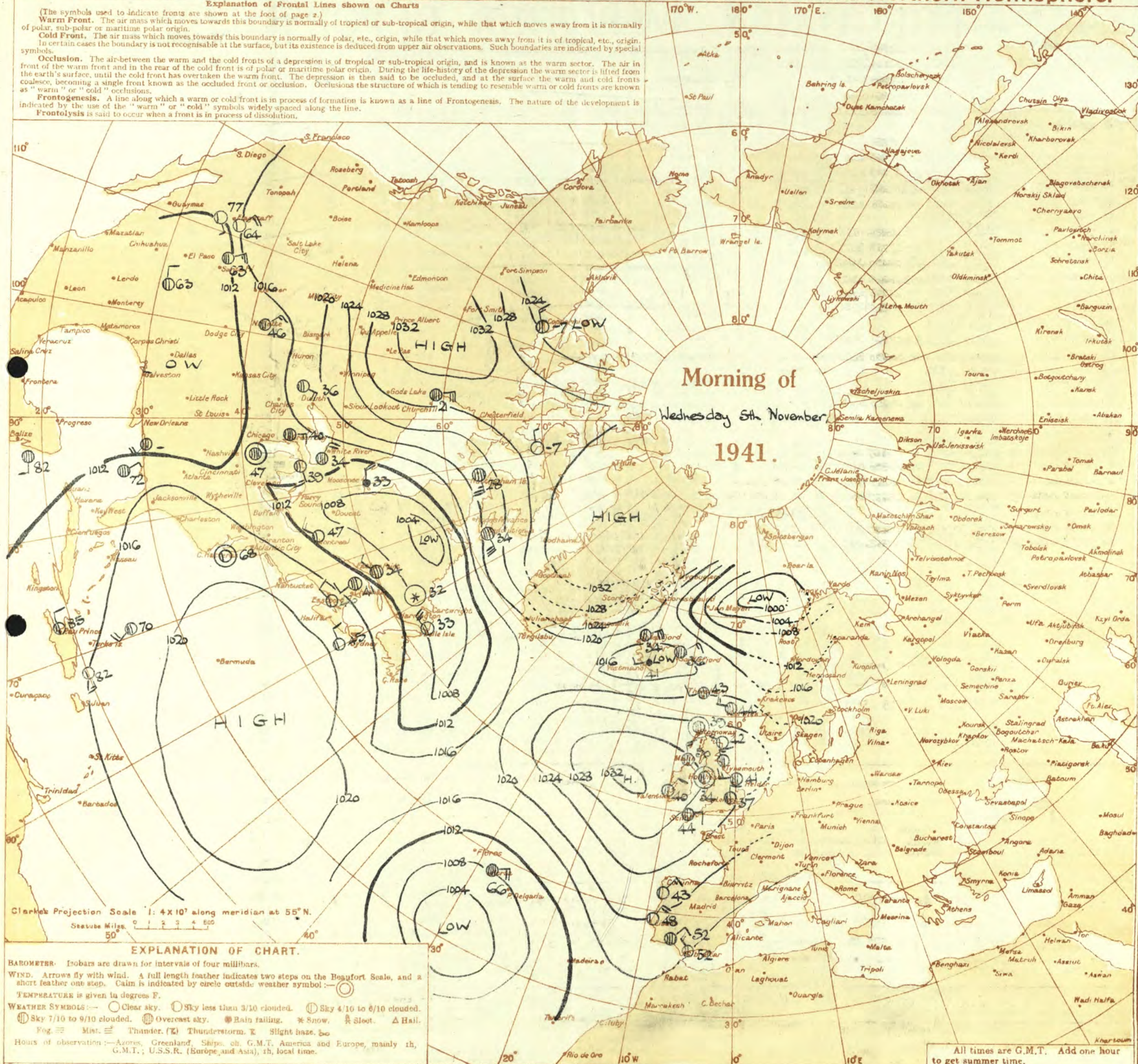
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# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)  
**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.  
**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. ☁ Mist. ☁ Thunder. ☁ Thunderstorm. ☁ Slight haze. ☁  
**Hours of observation:**—Azores, Greenland, Ships, etc. G.M.T. America and Europe, mainly 1h, G.M.T.; U.S.S.R. (Europe and Asia), 1h, local time.

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



THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Wednesday 5th November 1941.  
No 29203

OBSERVATIONS at 1 hr. G.M.T. 5th November															OBSERVATIONS at 7 hr. G.M.T. 5th November															PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					State of Ground.	Sea. 0-9	TEMPERATURE.			RAINFALL.			Sun-shine 4th Hrs.		
					Dir.	Force.					Form.	Amount.	Height of Base. (feet)	Dir.	Force.			Form.	Amount.					Height of Base. (feet)	Low.	Med.	High.	Low.			Med.	High.	Max. Day 7h-18h °F.	Min. Night 18h-7h °F.	Min. on Grass °F.	Day 7h-18h mm.		Night 18h-7h mm.	
																																							0-12
1	London (Kew)	18	*	*	*	*	37	*	*	*	*	*	1025.2	+6	NNW	2	z	34	85	5	5	-	-	10	10	2500	1	*	40	33	23	Tr	-	-	0.0				
	Croydon	217	1024.2	0	NE	2	z	37	75	5	5	-	1024.5	+2	NNW	2	m	35	85	4	5	-	-	9	9	3000	1	*	39	33	25	Tr	-	-	0.0				
	S. Farnborough	226	1024.3	+2	NNW	2	z	32	85	5	5	-	1025.6	+6	WN	1	z	26	97	6	5	3	-	4	4	3500	1	3	40	25	15	Tr	-	-	0.4				
	Boscombe Down	417	1025.5	+6	N	2	z	30	85	6	5	-	1026.6	+10	NNW	2	bc	27	85	6	5	-	-	2	2	4000	0	*	41	26	20	Tr	-	-	1.2				
	Thorney Island	10	1023.3	+2	N	3	c	37	75	7	5	-	1024.8	+8	N	2	b	28	85	7	5	-	-	0	0	-	0	*	40	27	20	Tr	-	-	*				
	Lympne	346	1023.2	0	-	0	z	36	92	6	5	-	1023.4	+4	N	3	z	37	75	6	5	-	-	3	3	3200	1	3	39	35	34	Tr	-	-	0.0				
	Manston	154	1023.1	+2	-	0	z	40	75	6	5	-	1023.2	+6	NNW	3	z	40	65	6	5	-	-	10	10	2700	1	*	40	38	35	Tr	-	-	0.2				
2	Shoeburyness	11	1023.6	+2	N	2	c	38	85	7	5	-	1023.7	+2	NNW	1	c	36	85	6	5	-	-	9	9	4000	1	*	41	36	34	Tr	-	-	0.0				
	Felixstowe	15	1023.7	+2	NW	2	z	39	75	5	5	-	1022.8	-6	NNW	3	z	38	85	6	5	-	-	7	7	4000	1	2	41	37	35	Tr	-	-	0.0				
	Gorleston	5	1024.0	-2	NE	2	z	42	55	6	5	-	1023.2	-2	NNW	2	z	37	75	6	5	-	-	5	5	1500	0	2	42	37	36	-	-	-	*				
	Mildenhall	19	1024.8	+2	-	0	z	35	97	6	5	-	1024.6	+2	NNW	1	F+	34	97	1	5	-	-	10	10	1500	0	0	41	32	24	-	-	-	2.5				
	Cranwell	240	1025.2	-2	NW	3	m	34	92	4	5	-	1024.7	+2	NNW	3	z	37	85	5	5	4	-	7	7	2500	1	*	43	33	29	3	-	-	0.3				
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	1025.5	0	NW	2	bc	33	92	2	-	-	-	0	0	-	1	*	40	33	26	0.3	-	-	0.0				
	Upper Heyford	408	1025.7	+2	-	0	z	30	92	5	-	3	-	0	4.6	-	1025.3	-4	NNW	1	bc	32	92	4	5	-	10	10	200	3	*	42	26	25	Tr	-	-	*	
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	1025.3	0	W	1	bc	33	97	3	-	-	-	0	0	-	1	*	42	32	26	Tr	-	-	0.1				
5	Hartland Point	299	1025.2	+8	NE	3	bc	39	65	6	4	-	1026.0	+4	SE	1	c	42	85	6	5	4	-	4	4	2500	0	*	46	36	33	-	-	Tr	2.7				
	Bristol	209	1026.3	+2	-	0	z	30	92	6	5	-	1026.7	+4	S	1	m	29	97	4	5	-	-	3	3	2500	0	*	41	24	14	-	-	-	0.5				
	Portland Bill	32	1023.9	+2	NNE	4	bc	37	92	8	5	-	1024.3	+6	NNE	4	bc	35	92	8	1	-	-	2	2	4000	1	3	42	42	-	-	-	-	*				
	Plymouth	82	1024.8	+2	E	2	z	34	75	6	-	-	1026.0	+10	-	0	z	32	85	5	-	-	-	0	0	-	0	2	46	32	26	-	-	-	2.3				
	The Lizard	240	1024.3	+4	NE	4	bc	42	75	8	8	-	1026.0	+4	NE	3	bc	40	85	8	4	-	-	4	4	2500	0	3	47	35	-	-	-	-	7.6				
	Scilly (St. Mary's)	163	1025.5	+4	E'N	2	c	44	85	6	5	-	1026.5	+6	E	2	bc	40	85	7	5	3	-	4	4	1500	0	0	48	39	-	-	0.2	-	6.1				
	Guernsey	175																																					
6	Pembroke	142	1026.7	+2	ENE	3	bc	42	85	7	2	6	-	1026.7	+4	ENE	2	bc	40	92	6	1	4	-	2	2	3000	0	1	46	36	-	-	-	8.2				
7	Holyhead/Valley	26	1026.1	+2	-	0	z	34	92	6	-	3	-	0	4.6	-	1025.7	0	NNE	1	z	37	92	6	5	3	-	4	4	47	33	29	0.1	Tr	-	*			
	Chester/Sealand	16	1026.2	0	WNW	1	bc	32	92	3	-	3	-	0	1	-	1025.9	0	-	0	cf	30	92	3	5	3	-	7	7	46	29	23	-	-	-	5.3			
8	Manchester	235	1026.3	0	WNW	1	bc	31	92	3	-	-	-	0	0	-	1026.0	0	-	0	cf	30	97	3	-	3	5	0	7	45	30	20	-	-	-	*			
10	Spurn Head	29	1024.7	0	W	3	m	41	92	4	5	-	1023.9	0	WNW	3	bc	41	85	7	4	5	-	2	2	4000	1	1	45	39	-	-	Tr	-	0.5				
	Catterick	175	1026.3	0	WNW	2	z	33	92	6	-	5	-	0	4.6	-	1024.8	-6	-	0	35	97	8	5	7	-	7	7	44	31	24	-	-	-	1.0				
	Tynemouth	108	1025.3	-4	NNW	3	z	40	85	6	5	-	1024.4	-10	W	4	bc	40	85	6	2	3	-	4	4	3000	1	3	46	39	33	-	-	-	0.0				
11	St. Abbs Head	280	1026.3	+6	WNW	2	z	44	92	6	5	2	-	1023.2	-10	W	2	c	44	92	7	5	2	-	7	7	2500	0	3	46	44	-	-	Tr	-	*			
	Leuchars	36	1024.2	-10	W	3	m	40	97	4	5	-	-	1023.1	-6	WNW	2	z	40	97	5	5	3	-	4	4	1800	1	*	45	40	38	1	-	-	0.0			
12	Reafrew (Abbots I.)	19	1025.3	-6	-	0	F+	37	97	1	-	-	-	1024.3	-14	-	0	F	38	97	1	-	-	-	10	10	1500	1	*	45	35	29	0.1	-	-	0.0			
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	1025.1	-4	-	0	F	32	97	1	-	-	-	-	10	10	1500	1	*	44	30	23	0.1	-	-	0.1			
	Point of Ayre	30	1026.2	-2	SWW	2	c	43	85	8	5	1	-	1024.6	-6	NNW	3	c	43	92	7	9	7	-	9	10	1500	0	3	47	40	-	-	Tr	-	0.5			
13A	Tiree	22	1025.6	-6	-	0	c	48	92	8	5	-	1023.2	-10	NNW	2	pr	50	92	8	8	-	-	7	7	1800	1	3	52	47	-	-	Tr	-	2.4				
13B	Stornoway	80	1024.9	-10	-	0	c	39	97	8	7	4	-	1020.5	-26	SSW	3	c	46	92	8	5	7	3	4	2500	1	1	49	38	-	-	1	-	0.2				
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	1021.5	-8	SW	2	o	42	75	8	5	-	-	10	10	2500	1	*	45	34	27	-	-	-	0.0				
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	1022.5	-8	-	0	bc	36	97	5	3	1	-	4	4	4500	1	2	48	35	30	1	-	-	0.0				
	Wick	119	1024.3	-6	W	2	c	38	92	8	-	3	-	0	9	-	1021.1	-18	SW	2	c	40	85	9	1	7	-	1	4	48	36	32	3	-	0.1	*			
16	Sumburgh	30	1021.9	-14	WNW	3	bc	46	65	8	8	3	-	1018.9	-16	N'S	2	c	47	75	8	8	4	2	4	2500	1	3	49	41	33	1	-	-	0.5				
17	Blacksod Point	18	1028.7	-4	-	0	bc	44	92	8	-	-	6	0	2.3	-	1027.3	-2	-	0	c	44	92	8	-	7	-	0	9	-	-	2	-	-	*				
18	Malin Head	84	1026.3	-10	NW	3	c	50	75	8	8	-	-	7.8	7.8	5700	1024.6	-10	NW	3	c	49	85	8	4	-	5	2.3	7.8	5700	0	2	52	46	-	-	3.0		
	Aldergrove	268	1027.4	-6	S	1	z	40	97	6	5	-	-	4.6	10	2000	1025.5	-12	SSW	1	z	42	97	6	5	7	6	2.3	7.8	4000	1	*	49	34	29	-	-	0.0	
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	1027.9	+2	N	1	bc	34	97	8	5	-	-	4	4	2500	0	*	48	34	30	-	-	-	0.6				
20	Valentia Obay.	30	1029.1	0	NE'E	2	bc	40	92	9	5	3	-	4.6	7.8	5700	1028.9	0	N'N	1	c	41	92	9	8	-	9	9	4000	1	2	51	38	35	-	-	2.3		
	Roches Point	22	1027.7	0	N	3	c	46	85	8	8	-	-	9	9	1500	1027.7	+2	N'W	3	c	46	85	8	5	-	5	4.6	7.8	2500	0	3	49	46	-	-	*		

LONDON OBSERVATIONS.														EXPLANATION of FIGURES, LETTERS, etc.													
Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations except for rainfall which is 9h—18h.																											
Height above Sea Level, in feet.	Weather.			Temperature.			Rainfall.		Sun- shine, to Sunset.		Humidity.		Visibility 9h.	Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.		COLUMNS 2, 16. The barometric tendency is expressed in tenths of a millibar.						COLUMNS 8, 22—Code for surface visibility.  Objects not visible at					
	Morning.	Afternoon.	Night.	Day Max.	Night Min.	Min. on Grass °F.	Day.	Night.	Sun- hrs.	15h. G.M.T. %	9h. G.M.T. %	24 hrs. ended 7h. G.M.T. ....															
	24 hrs. ended 9h.			°F.	°F.	°F.	num.	mm.	Yesterday.		To-day.			24 hrs. ended 7h. G.M.T. ....													
Kew...	18	cir. cms.	czo.	cm.	40	33	25	F	-	0.0	*	*	4	SOUTH KENSINGTON.		COLUMNS 4, 18. THE BEAUFORT SCALE of WIND is used only for surface observations. In the ac- companying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.											
CROYDON ...	217	ir. sd.	czo.	cz. cms.	39	33	25	F	-	0.0	*	*	3	Max. Time. Min. Time.													
GREENWICH (Royal Observatory)...	149	cid. ms.	cm.	cb. cms.	40	35	25	F	-	0.0	69	75	4	Kew Observatory.		COLUMNS 30—Code for State of Sea.											
CITY (Bunhill Row) ...	-	*	*	*	*	*	*	*	*	*	*	*	*	Max. Time. Min. Time.													
WESTMINSTER (St. James' Park) ...	27	*	*	*	42	36	29	-	-	*	77	82	*	0.2 15-18 0.1 0-6h		COLUMNS 34, 35. Tr. = rain has fallen, but amount less than 0.1 mm.											
REGENTS PK. (Botanic Gardens)...	168	*	*	*	*	*	*	*	*	*	*	*	*	4h 5h													
CAMDEN SQUARE ...	110	bc	c	*	40	35	30	-	-	*	*	81	*	Beaufort No. Statute m/h. Beaufort No. Statute m/h. Beaufort No. Statute m/h.		0 Calm—glassy. 5 Rough. 1 Calm—rippled. 8 Very rough. 2 Smooth. 7 High. 3 Slight. 8 Very high. 4 Moderate. 9 Phenomenal.											
KENSINGTON ...	80	c	c	*	40	34	25	-	F	*	73	77	*	0 1 4 13-18 9 47-54													
HAMPSTEAD OBSERVATORY ...	450	bc	c	bcx	38	32	26	-	-	*	*	83	*	2 4-7 5 19-24 10 56-63													
FOREIGN OBSERVATIONS.														Past 24 Hours.													
Evening of 4th November														Morning of 5th November													
Barom. Wind. Weather. Temp. Barom. Wind. Weather. Temp.														Max. Min. Rainfall.													
mb. Direc. Force. °F. mb. Direc. Force. °F.														Day Night Day Night mm. mm.													
STATIONS.																											
Reykjavik (18h and 07h) ...														34 * * *													
Lisbon (18h and 07h) ...														57 30 - -													
Madrid (18h and 07h) ...														30 30 - -													
Cairo (Heliopolis) (18h and 06h) ...														65 * * *													
Toronto (13h and 01h) ...																											
Washington (13h and 01h) ...																											

‡ Pressure at 1,000 dynamic metres level.      † Maximum and Minimum Temperatures are for the 24 hours ending 8 h.      † Sea disturbance reported from Dungeness.

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

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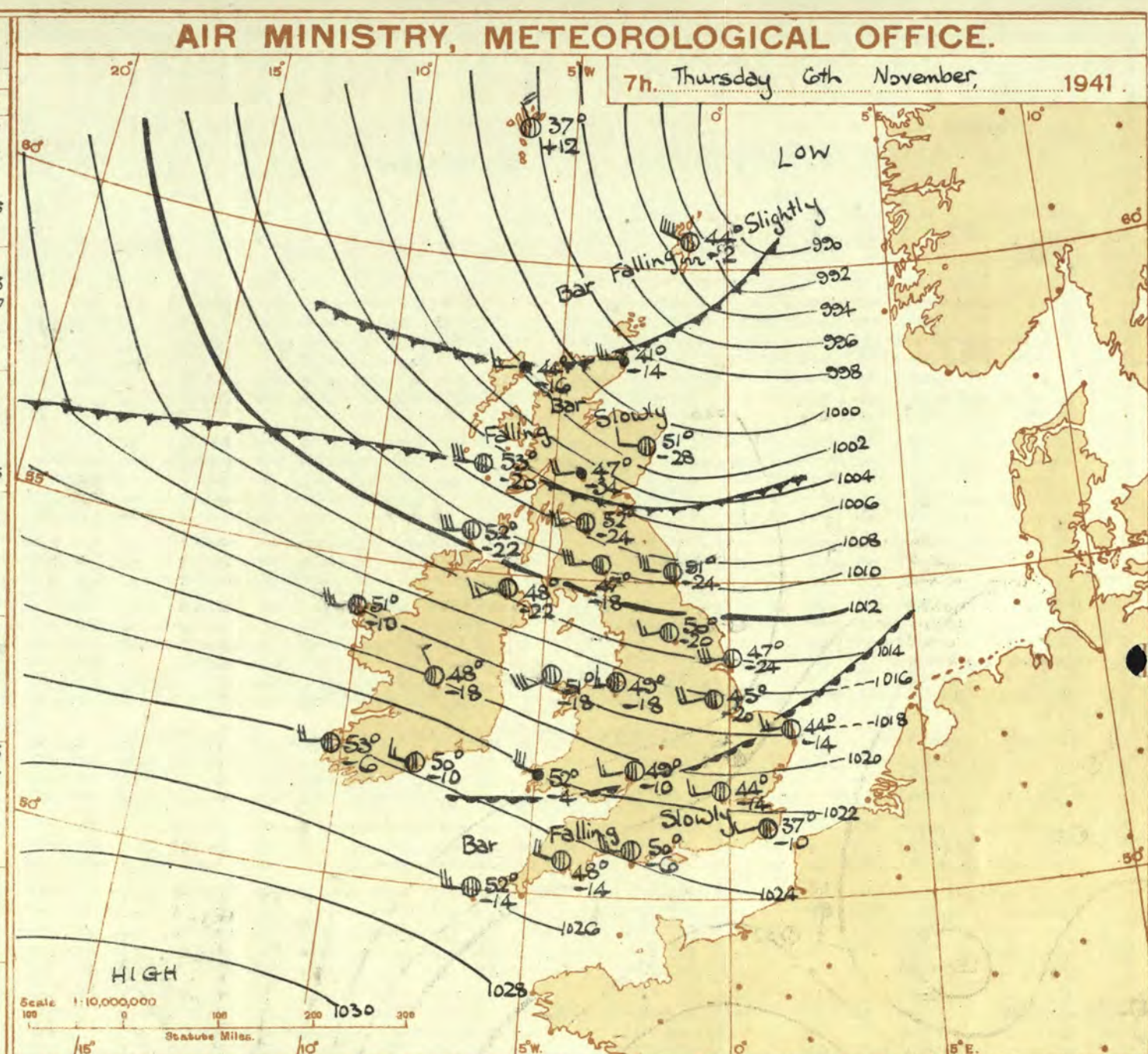
AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
BRITISH SECTIONThursday 6th November 1941.  
No. 29204

OBSERVATIONS at 13h. G.M.T. 5th November														OBSERVATIONS at 18h. G.M.T. 5th November														PAST 24 HOURS.								
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					Soa. 0-9 (29)	0-9 (30)	WEATHER.						
				Dir.	Force. 0-12 (4)					Form.	Amount. Low 0-10 Med. 10-10 High 10-10 (9) (10) (11)	Height of Base. (feet) (14)	Dir.	Force. 0-12 (18)			Form.	Amount. Low 0-10 Med. 10-10 High 10-10 (23) (24) (25)					Height of Base. (feet) (28)	State of Ground. 0-9 (29)	7h.—13h. 5th (37)	13h.—18h. 5th (38)	18h. 5th to 1h.—6th (39)			1h.—7h. 6th (40)						
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lympne ... Manston ...	1024.7 1024.7 1025.3 1026.2 1025.1 1023.5 1023.3	+2 -2 -6 -6 -8 -8 -4	NNW WNW N'W NNW N'W NW NNW	2 2 3 3 3 4 4	Z. m Z. Z. bc Z. Z.	46 43 45 44 46 45 45	65 75 65 65 75 75 85	6 4 5 6 7 6 5	1 5 - 1 1 1 5	- - - - 4 4 -	6 7.8 2.3 Tr 2.3 4.6 9	46 7.8 2.3 4.6 2.3 7.8 9	2500 2200 2200 4000 4000 3500 4500	1025.3 1025.1 1026.8 1026.4 1025.4 1024.4 1024.0	+4 +4 +14 +2 +2 +6 +6	WSW - WNW Z. NW NW NNW	2 0 2 2 1 1 3	m bf+ Z. Z. Z. Z. Z.	41 38 39 37 39 34 42	85 85 75 85 85 92 85	4 3 6 6 5 5 6	- - - - - 2 1	6 0 0 0 1 2.3 1	7.8 0 2.3 Tr 1 4.6 2.3	- - - - - 4000 4000	1 1 0 0 0 1 1	3 * * * * 3 *	cbcz cgrf. bmbez cbcm bcmab cbcm cbczcm	bczom * bczo bz bbm cbcz cbcm	cbcmx bfbcmx bczomxb bczbf bcbf bcmabm bcmabm	bexcm bmwb bmxc cf fbcf fbcfcm bfcfcm				
2	Shoeburyness ... Felixstowe Gorleston ... Mildenhall Cranwell	1024.0 1023.2 1024.2 1024.5 1024.3	-4 0 +6 -6 -6	NNW NNW NNW NW WNW	2 3 4 3 2	bc Z. be Z. Nf	45 46 46 46 46	75 75 65 75 75	6 5 7 6 4	5 5 2 7 5	7 - 1 7 -	4.6 7.8 4.6 Tr 2.3	4.6 5500 2500 3000 3700	1024.1 1023.4 1023.6 1024.2 1023.6	-2 +4 0 -2 +2	NW WNW W'N SW W	2 3 2 2 3	bc Z. c Z. bf+	42 44 45 41 39	85 75 85 85 92	6 5 4 5 3	- - - 3 -	2.3 7.8 4.6 4.6 0	3700 4000 800 4000 0	1 1 3 0 0	3 * * * *	cpr cm prbc ofr, bcm cbcf	bcm cm czabz czcm cm, bf	bcbf bmobf czo cmobf bcm	bfc bfc czo bfcm bfcm						
3	Birmingham Upper Heyford	1025.6 1025.2	-2 -6	NNW NW	2 2	Z. Z.	45 43	75 75	5 5	- -	- -	0 6	2.3 4.6	- -	1024.7 1025.3	-2 +4	WSW W	2 2	m Z.	43 35	85 92	4 5	- -	- 5	7.8 0	2.3 2.3	2500 -	1 1	3 *	fbcz bfmz	bcz bbm	bcc bcm	bcc bcm			
4	Ross-on-Wye	1026.1	-4	WNW	2	bc	46	65	7	-	-	2	0	2.3	-	1025.2	-4	SW	2	c	43	85	6	-	-	4.6	7.8	3500	1	3	*	bfmz bfmz	bbm bcc	bcm bcm	bcm	
5	Hartland Point Bristol ... Portland Bill Plymouth The Lizard Soilly (St. Mary's) Guernsey	1027.0 1026.9 1026.7 1026.6 1027.5 1028.4	0 -2 +4 +4 0 +4	N NNW WNW N W'N W'S	2 2 2 1 1 2	e bc bc Z. bc c	47 45 45 48 50 49	65 75 85 65 65 75	7 7 7 5 7 6	5 1 1 - 4 8	- - - - - 6	7.8 Tr 4.6 0 4.6 4.6	2500 2500 4000 0 2400 1500	1026.5 1026.1 1025.6 1026.8 1028.1 1028.4	-4 -2 -4 +6 +2 +6	NW - NNW NW N N	2 0 3 2 2 2	bc c bc m bc bc	50 41 46 44 43 46	85 75 85 85 75 75	8 6 7 7 7 8	- - 2 4 - 4	9 0 1 Tr 4.6 2.3	2000 - 4000 4500 2500 1500	2 0 0 0 0 1	2 * * 2 2 3	c cbcc bmfb bc bmbfm boz bcc	cbcc bcm bc zbcnm bcm bcm	bcc bcm bc bfcm bcc bcc	cbcc cbcc cbcc cbcc cbcc cbcc						
6	Pembroke	1027.1	-4	WNW	2	c	50	75	8	8	-	-	7.8	7.8	3100	1026.7	-2	NNW	3	bc	50	85	8	-	-	2.3	4.6	3000	2	2	*	c	cbcc	bcc	cbcc	
7	Holyhead (Valley)	1025.7	-4	NW	1	c	50	85	7	5	-	-	10	10	2500	1024.4	-6	NNW	3	bc	48	85	7	-	-	6	1	4.6	2500	1	2	*	crcprc	cbcc	cbcc	cbcc
8	Chester (Sealand)	1025.5	-4	-	0	m	44	75	4	5	-	-	9	9	2000	1024.1	-8	W	1	Z.	45	92	6	-	-	4	2	0	4.6	-	1	*	cbf	cbf	cbf	cbf
9	Manchester	1024.8	-16	-	0	Z.	42	75	5	3	-	-	7.8	9	4500	1024.0	-6	SW	2	N	45	97	4	-	-	7.8	9	3000	1	3	*	cbf	cbf	cbf	cbf	
10	Spurn Head Catterick Tynemouth	1023.8 1023.7 1023.6	-8 -14 -8	WNW W W	4 2 3	Z. c c	44 50 47	85 75 75	6 7 6	5 5 5	- 4 3	- 1 -	9.4 2.3 7.8	9.4 9.4 9	2500 2500 3000	1022.8 1021.8 1020.2	-4 -14 -20	W WSW WSW	3 2 3	Z. Z. m	50 47 47	85 85 85	5 6 4	- 5 5	- 6 -	0 2.3 9.4	0 7.8 9.4	- 2500 2500	0 1 1	3 * 3	cmz c bcc	bm cbcm cm	cm cm cm	cm cm cm		
11	St. Abbs Head Leuchars	1020.6 1019.4	-20 -34	SW WSW	3 4	c Z.	49 49	92 85	8 6	7 5	- 7	- 6	4.6 4.6	9 9	2500 3500	1016.1 1014.2	-16 -34	SW SW	4 5	c Z.	48 49	92 85	8 5	- 5	- -	7.8 10	2500 2800	0 1	3 *	c cm	c cm	c cm	c cm			
12	Reafrew (Abbots L.) Eskdalemuir Point of Ayre	1021.2 1022.7 1024.6	-24 -18 -2	WSW S'W NW	4 3 4	e c c	51 42 52	85 92 75	7 6 8	8 5 4	6 - 6	- - 6	7.8 10 9.4	9.4 10 9.4	2500 1500 2500	1017.3 1019.1 1021.8	-24 -20 -10	WSW SSW W'N	4 4 5	Z. c c	50 45 51	85 92 75	6 5 8	- 5 1	- - 9	4.6 10 10	9.4 800 2500	1 1 0	3 * 3	ofprc ofcm c	cpr c c	c c c	c c c			
13A	Tiree	1020.2	-20	SW	3	c	51	85	8	5	1	-	4.6	9.4	1800	1016.3	-16	W	5	o	52	92	7	-	-	10	10	1500	0	4	*	cpr	cpr	cpr	cpr	
13B	Stornoway	1015.7	-22	SW	5	pr	50	92	8	8	7	-	7.8	10	1800	1010.2	-18	SW	6	o	49	92	7	-	-	7.8	10	1500	1	3	*	cpr	cpr	cpr	cpr	
15	Dalwhinnie Aberdeen Wick	1019.3 1018.0 1014.7	-2 -32 -42	SW S'W SSW	3 2 3	c c c	46 48 45	85 75 92	7 6 8	5 5 5	- 7 2	- - -	9 4.6 1	10 7.8 10	1500 4500 3000	1013.0 1012.3 1007.5	-30 -38 -26	SW SW WSW	4 3 4	c c ir	45 48 48	92 85 85	5 6 7	- 2 5	- 2.3 -	10 10 10	800 4200 2000	1 1 1	2 * *	cfz cfz cfz	cfz cfz cfz	cfz cfz cfz	cfz cfz cfz			
16	Sumburgh	1012.3	-46	SW	5	cfz	47	85	7	5	2	-	7.8	10	1500	999.9	-70	SW'S	8	rr	49	97	6	-	-	10	10	400	1	7	*	cpr	cpr	cpr	cpr	
17	Blackod Point	1025.5	-10	WSW	3	c/r	55	85	8	2	-	9	2.3	7.8	2500	1024.4	-6	W'S	4	c/r	51	92	8	-	-	10	10	1500	1	3	*	ir	ir	c	cbcc	
18	Malin Head Aldergrove	1022.6 1024.8	-18 -14	W SW	5 3	c c	53 51	85 75	8 7	9 2	7 4	- 2	4.6 1	9 9	4000 2500	1020.1 1022.0	-12 -14	W SW	5 3	c c	51 49	85 85	7 7	- 5	- 2	7.8 9	7.8 1400	1500 1400	0 1	3 *	c cm	c cm	c cm	c cm		
19	Birr Castle	1027.5	-10	N	1	bc	52	75	8	5	-	5	2.3	4.6	2500	1025.5	-8	W	2	bc	47	85	8	-	-	4.6	4.6	2500	0	3	*	bc	bc	*	c	
20	Valentia Obay. Roches Point	1029.3 1029.2	-2 0	W'S N'W	1 1	bc bc	53 52	75 75	9 8	2 1	3 -	- 5	2.3 Tr	4.6 4.6	2500 4000	1025.6 1027.4	-10 -6	S W'S	3 3	c bc	51 48	85 85	8 8	- 5	- 5	9.4 1	9.4 2.3	2500 2500	1 0	2 3	*	cpr bc	cpr bc	*	*	



Abridged observations of additional stations in the AVIATION WEATHER CODE											
5th Nov: 13h. G.M.T.				18h. G.M.T.				01h. G.M.T. 6th Nov:			
III	C <sub>u</sub>	ww	Vh <sub>h</sub>	DDFWN	C <sub>u</sub>	ww	Vh <sub>h</sub>	DDFWN	C <sub>u</sub>	ww	Vh <sub>h</sub>
109	52	64543	17668	62	64546	54868	62	14742	56768	52	22843
115	52	62735	14588	52	62735	57668	52	62735	50768	52	62735
203	6-	61838	20628	6-	82838	20668	8-	66838	20668		
206	52	02954	22228	52	22765	55408	52	62747	57468	52	62744
210	57	02951	10328	52	02864	20528	52	64754	55668	02	64648
220	52	03846	23428	02	66436	24508					
230	87	02857	10487	62	22644	53568	62	62645	56768	52	63645
245	53	02773	23328	57	05664	22428	57	02853	21428	57	02856
260	84	81764	22467	52	21645	22488	51	61754	22508	5-	02844
278	57	01853	24348	57	22847	22468	27	02854	58427	83	02855
279	57	05654	19227	52	05654	21328	82	81645	54428	82	05655
285	13	01743	30414	53	02635	28516				27	81745
288	05	02790	20225	57	02763	20227	51	02764	20428	51	02855
301	5-	05664	20145	00	05690	26363	5-	02758	50528	52	02755
321	03	17590	28341	00	45390	24213	52	05653	59468	52	22664
299	57	02744	26216	5-	05654	22214	5-	48358	22828	57	02754
292	00	05690	22128	00	08490	20227	52	02746	22428	57	02854
310	--	01643	26413	--	48109	24329					
314	00	05690	26145	50	45363	26145	07	05590	22348	52	08464
333	52	61647	00068	4-	05551	30163	5-	02764	22428	8-	01855
334	--	05555	02216	--	02743	30316				--	03447
340	03	08490	05662	53	05663	00014	50	02753	22427	57	61753
336	5-	05668	27368	00	08490	23210	-1	45390	22228	07	05690
336	13	01762	04314	51	01762	28316				62	68762
350	17	05651	28348	00	08490	22210	03	45390	18215	51	05655
368	00	05662	29113	50	05675	24215	21	45363	24144	52	61745
379				03	05590	24214	00	08490	20214	53	49334
390	10	05651	26214	00	47390	26244	01	47290	24148	57	04363
382	10	05661	26317	04	17390	00214	00	45390	00243	50	02764
428										54	01643
430	20	05662	32313	00	05580	27213	03	05590	28215	05	04690
409	80	05664	32214	50	02756	30216	80	02755	24328	52	63645

DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 6th November, 1941.
1 S.E. England	Freshening West wind becoming strong at exposed places; cloudy, occasional slight rain, probably heavier rain tomorrow; mild.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	
7 North Wales ...	
8 N.W. England	Fresh or strong west wind gale locally, veering and moderating later; cloudy, rain at times; bright intervals locally later; mild, then colder.
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	Fresh or strong N.W. wind; mainly cloudy, wintry showers, with snow on high ground; cold.
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	As 7-12.
18 N. E. Ireland	
19 S. E. Ireland	As 1-6.
20 S. W. Ireland	



**BAROMETER.** Isobars are drawn for intervals of two millibars. WIND, WEATHER SYMBOLS. For explanation see opposite page. SEA DISTURBANCE. Rough. High.

**BAROMETRIC CHANGE** from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

**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

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.

**GENERAL INFERENCE.**

Pressure is high near the Bay of Biscay and Greenland and low to N.E. of Scotland. Secondaries will move E.S.E. over the British Isles with unsettled weather generally. Temperature will fall in the North.

**FURTHER OUTLOOK.**

Unsettled. Snow locally on high ground in the North. Probably colder in the South also, at least temporarily.

★ Gale warning in operation in districts 7, 8, 10, 11, 12, 13, 15, 16, 17 and 18. Times of issue 1055h and 1645h 5.11.41. and 1100h 6.11.41.

Forecasts issued at 10.30h. G.M.T. N. K. JOHNSON, D.Sc., A.R.C.S. Director.

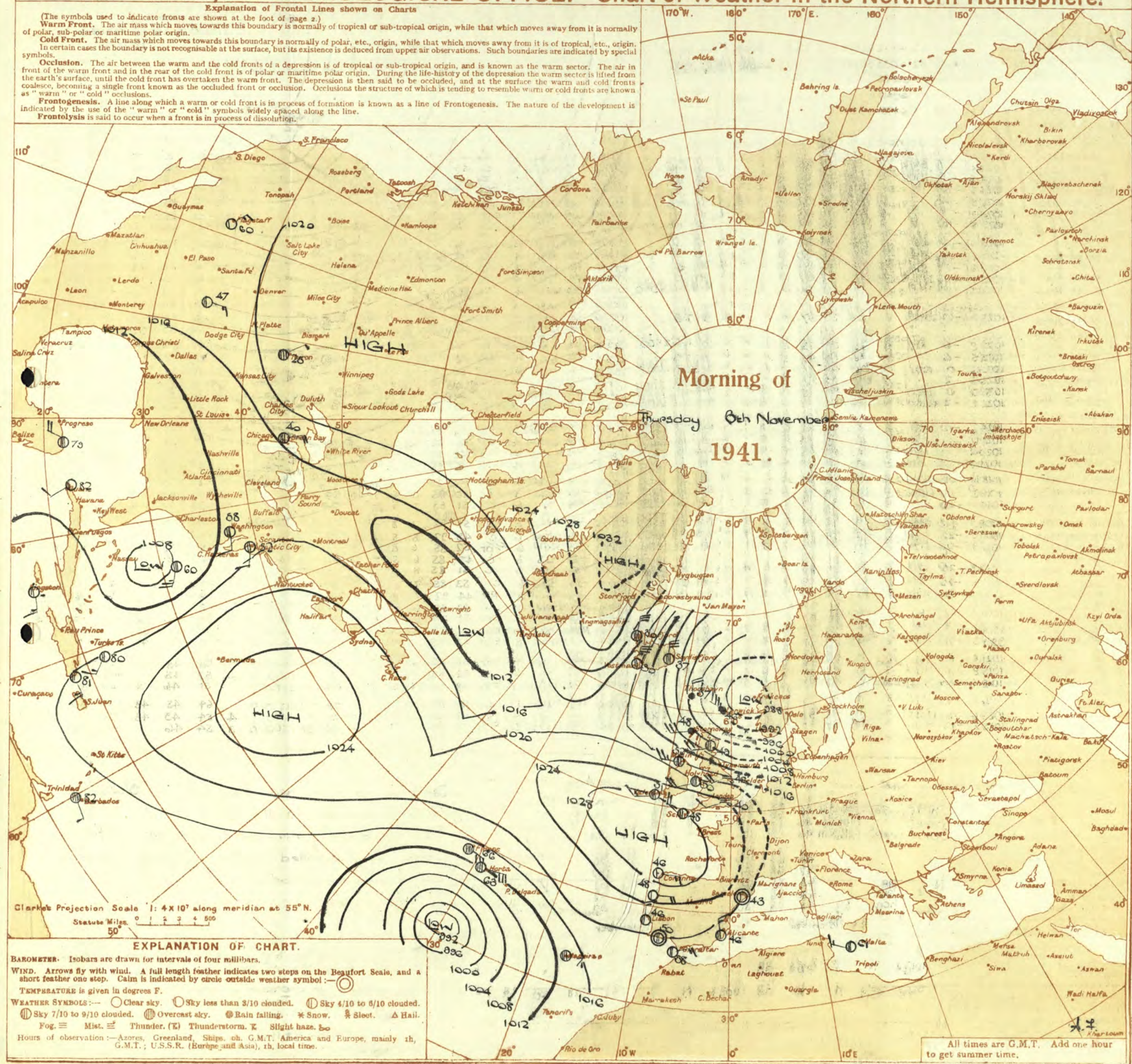
H.M.S.O. Press, Meteorological Office, Dunstable. 4269/4120. M. 8176. D. 6034. 6p. 346. 3100. 11/41.



# 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 at the foot of page 2.)  
**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.





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 6th November 1941.

No. 29204

OBSERVATIONS at 1 hr. G.M.T. 6th November														OBSERVATIONS at 7 hr. G.M.T. 6th November														PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.				Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.				State of Ground.	Sea.	TEMPERATURE.			RAINFALL.		SUNSHINE Hrs.			
					Dir.	Force.					Form.	Amount.	Height of Base (feet)	Dir.			Force.	Form.					Amount.	Height of Base (feet)	Max. Day 7h-18h °F.	Min. Night 18h-7h °F.			Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.						
																																0-12	0-10		0-10	0-10	0-10
1	London (Kew)	18	1024.4	-6	SW	2	z	35	85	6	-	-	-	1021.0	-12	SW	3	z	40	92	5	5	3	-	5	2500	1	46	35	24	-	Tr	5.1				
	Croydon	217	1024.4	-6	SW	2	z	40	85	6	-	-	-	1021.7	-14	WSW	3	c	44	85	6	5	3	-	4-6	6000	1	46	35	30	-	Tr	3.8				
	S. Farnborough	226	1024.8	-4	NNW	2	z	34	92	5	-	-	-	1021.8	-16	W	3	z	39	92	6	5	4	1	2-3	7-8	4000	1	47	32	23	-	Tr	5-6			
	Boscombe Down	417	1025.7	-6	W	2	bfg	35	97	4	-	-	-	1023.2	-10	SWW	3	bfg	38	97	6	5	7	-	2-3	4-6	100	0	45	32	22	-	Tr	5.1			
	Thorney Island	10	1025.1	-4	-	0	bfg	34	92	5	-	3	-	0	4-6	1023.3	-10	NW	2	if	33	97	3	2	4	-	Tr	2-3	-	0	47	30	23	-	Tr	*	
	Lymington	346	1024.7	-2	-	0	bfg	31	97	3	-	1	0	1	1022.6	-10	WSW	1	c/f	37	97	4	-	7	-	0	7-8	-	1	46	29	24	-	Tr	6-8		
	Manston	154	1023.4	-10	W	2	bfg	35	92	3	-	-	-	1021.8	-6	WS	3	z	35	92	5	5	3	-	4-6	3+	6000	1	46	44	28	-	-	4.6			
2	Shoeburyness	11	1023.5	-6	WS	2	bfg	38	92	3	-	-	-	1020.6	-12	WS	3	c	43	92	5	5	3	-	5	3+	4500	1	47	36	27	-	Tr	3.5			
	Felixstowe	15	1022.6	-6	WS	4	bfg	35	92	3	-	-	-	1018.7	-26	WS	4	z	41	85	6	5	8	2-3	9+	5000	1	48	37	34	-	-	1.6				
	Gorleston	5	1021.6	-18	SW	3	m	33	85	4	-	-	7	0	10	1018.2	-14	WSW	3	c	44	85	6	5	7	-	4-6	10	2500	0	47	38	35	-	Tr	*	
	Mildenhall	19	1022.0	-16	SWW	3	bfg	37	97	3	-	-	-	0	0	1018.6	-14	SWW	4	z	42	92	6	5	7	-	1	7-8	4000	0	46	36	29	-	Tr	2.5	
	Cranwell	240	1020.1	-18	WS	4	m	42	92	4	-	-	4-6	4-6	3000	1016.1	-20	WSW	4	z	45	92	6	5	-	9+	3+	2500	1	47	38	36	-	-	2.8		
3	Birmingham	535	1023.8	-10	SW	1	z	37	97	5	-	-	6	0	7-8	1019.5	+22	SW	3	c	46	92	6	5	7	7	2-3	10	1500	1	46	41	36	-	-	3.2	
	Upper Heyford	408	1023.8	-10	SW	1	z	37	97	5	-	-	6	0	7-8	1021.0	-14	SW	3	z	39	97	5	5	4	6	7-8	5	1500	1	44	33	31	-	-	*	
4	Ross-on-Wye	223	1023.8	-10	SW	1	z	37	97	5	-	-	6	0	7-8	1020.0	-10	WSW	3	c	49	85	8	5	7	1	7-8	3+	3000	1	47	37	31	-	-	7.3	
5	Hartland Point	299	1025.7	-6	NW	3	bc	50	75	8	1	-	4-6	4-6	2500	1022.4	-14	W	5	c/r	50	92	8	5	2	-	7-8	3+	1500	1	47	48	44	-	0.4	4.3	
	Bristol	209	1025.5	-6	-	0	z	40	97	5	-	-	0	2-3	-	1022.0	-14	SW	4	ir	48	85	6	5	1	-	3	10	2000	0	47	37	24	-	Tr	6.2	
	Portland Bill	32	1025.5	0	NW	2	bc	48	92	8	1	-	2-3	2-3	4000	1022.6	-6	W	3	c	50	92	8	2	-	-	7-8	7-8	4000	0	46	43	-	-	-	*	
	Plymouth	82	1026.8	-2	-	0	bfg	34	97	2	-	-	0	0	-	1024.3	-14	NNW	4	z	48	92	6	5	7	-	7-8	3+	2000	0	49	32	28	-	-	6.1	
	The Lizard	240	1028.0	0	NNW	3	c	48	85	8	8	-	7-8	7-8	2000	1025.7	-10	WSW	6	c	51	85	8	8	2	-	7-8	3+	1500	0	51	41	-	-	-	6.8	
	Scilly (St. Mary's)	163	1028.2	-2	NNW	4	bc	48	85	8	8	-	4-6	4-6	1500	1025.8	-14	W	5	o/f	52	85	7	5	-	-	10	10	1500	0	52	46	-	-	-	4.9	
	Guernsey	175	1028.2	-2	NNW	4	bc	48	85	8	8	-	4-6	4-6	1500	1025.8	-14	W	5	o/f	52	85	7	5	-	-	10	10	1500	0	52	46	-	-	-	4.9	
6	Pembroke	142	1024.7	-10	WS	6	c	52	85	8	8	1	-	4-6	7-8	2500	1016.7	-4	NNW	6	ir	52	85	8	8	4	-	7-8	3	2500	1	47	47	-	0.3	1.6	
	Holyhead (Valley)	26	1021.0	-8	SW	4	c	50	85	8	5	1	7	3	10	2500	1017.2	-18	SW	6	c	51	85	8	5	-	7	7-8	10	2500	0	47	46	44	-	-	*
	Chester (Sealand)	16	1020.4	-20	WSW	2	c	49	85	8	5	1	7	4-6	10	2200	1016.8	-18	WSW	3	c	49	85	7	5	7	-	7-8	10	2200	1	47	43	31	-	0.1	1.3
8	Manchester	235	1020.7	-20	SW	3	z	45	85	6	5	-	10	10	3500	1016.8	-16	SW	4	c	48	85	7	5	-	-	10	10	2000	1	45	40	37	-	-	*	
10	Spurn Head	29	1018.6	-20	WSW	4	m	46	85	4	-	-	7	0	10	-	1013.8	-24	WSW	6	z	47	85	6	5	-	9+	3+	2500	0	46	39	-	-	-	0.3	
	Catterick	175	1016.3	-18	WSW	3	ido	50	92	6	5	2	-	4-6	10	1600	1012.3	-20	WSW	3	c	50	85	8	5	7	-	4-6	3	1200	1	51	46	40	-	Tr	3.5
	Tynemouth	108	1014.0	-20	W	3	c	50	75	7	5	-	9+	9+	2500	1010.0	-24	W	6	c	51	65	7	5	-	-	9+	3+	2500	1	49	47	43	-	-	*	
11	St. Abbs Head	280	1009.7	+18	NNW	6	c	49	92	8	5	2	-	7-8	10	2500	1004.1	-28	W	6	cq	51	92	7	8	4	-	4-6	7-8	2500	0	50	45	-	-	0.1	*
	Leuchars	36	1008.3	-22	WSW	5	c/r	48	75	7	5	7	-	2-3	7-8	2500	1002.5	-26	WSW	6	c	49	92	8	5	3	-	4-6	7-8	3200	1	50	48	45	-	0.1	0.7
12	Renfrew (Abbots I.)	19	1011.9	-24	WS	6	ir	51	85	7	5	1	-	9	9+	1000	1007.1	-24	WSW	6	c/pr	52	85	6	8	-	-	9	9+	2200	1	52	49	44	3	0.5	0.2
	Eskdalemuir	794	1017.8	-20	WN	6	c	51	85	8	1	4	7	1	10	1800	1008.3	-24	WS	6	c	47	85	6	5	-	-	10	10	800	1	46	44	44	-	0.1	0.1
	Point of Ayre	30	1017.8	-20	WN	6	c	51	85	8	1	4	7	1	10	1800	1012.7	-26	WN	6	c	51	85	8	2	-	-	9	10	2500	0	47	49	-	-	0.4	2.4
13a	Tiree	22	1012.3	-20	W	6	c	52	85	7	5	-	9+	9+	2100	1007.6	-20	W	6	c	53	85	7	5	-	-	9+	3+	1500	1	53	51	-	2	3	0.0</	



OF THE METEOROLOGICAL OFFICE, LONDON

No. 29,205

PAST 24 HOURS

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

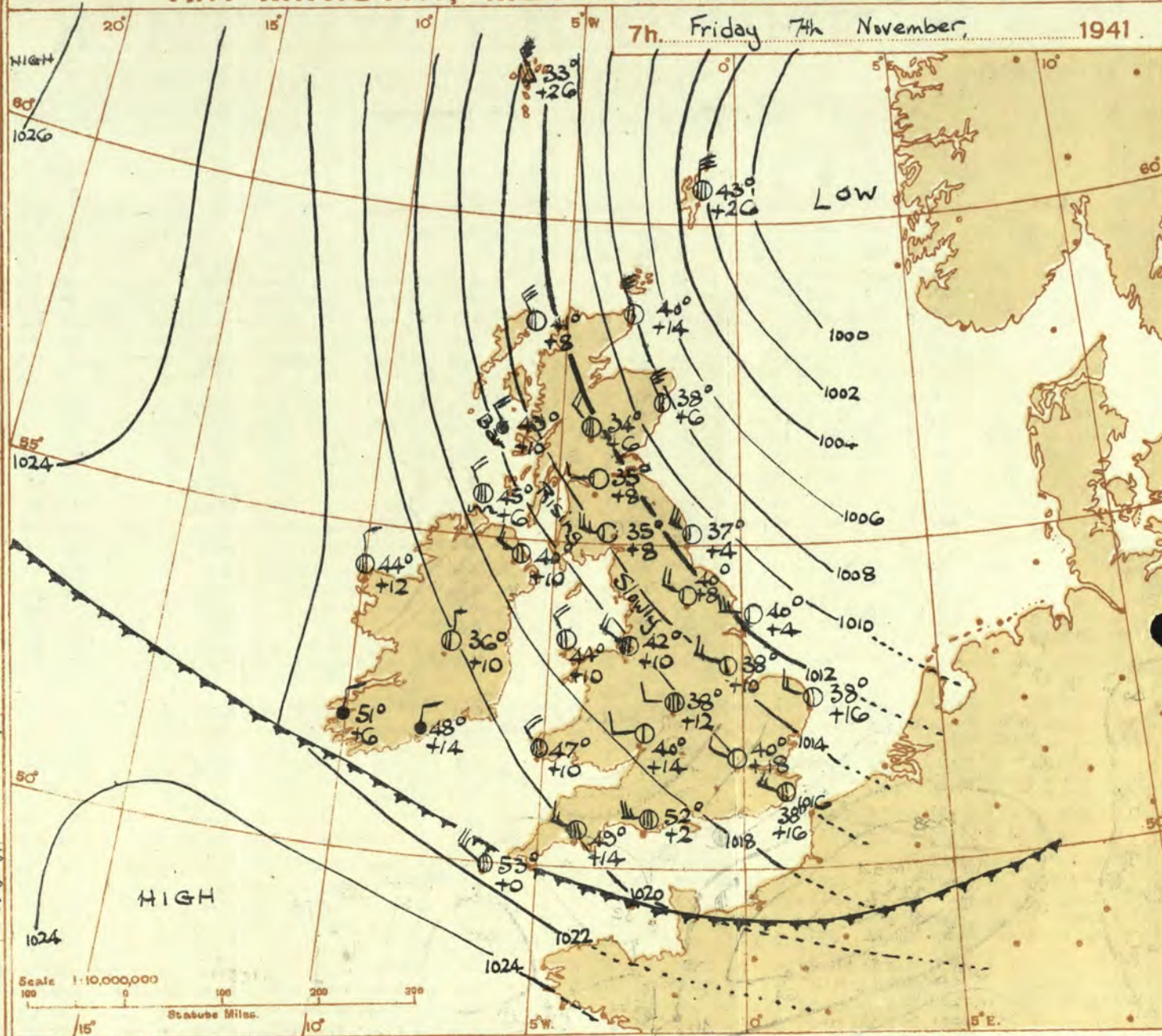


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T.	18h. G.M.T.	01h. G.M.T.	07h. G.M.T.
III C <sub>u</sub> ww Vh <sub>N</sub> DDFWN	C <sub>u</sub> ww Vh <sub>N</sub> DDFWN	C <sub>u</sub> ww Vh <sub>N</sub> DDFWN	C <sub>u</sub> ww Vh <sub>N</sub> DDFWN
109 9- 0845 25685 30 01844 25484 3- 25745 59685 9- 81747 61687			
115 87 81844 25686 87 88844 61686 87 88844 61686			
203 8- 82837 20587 5- 02837 28527 8- 81847 28687			
206 3- 02847 26387 8- 25854 26384 3- 25854 28284 3- 81745 61385			
210 87 62847 26568 36 27544 26584 23 25953 57584 3- 82847 59687			
220 80 01854 27584 80 02844 30615			
230 87 81735 50587 9- 81736 85584 80 25653 30483 2- 25855 64425			
245 26 22354 30464 50 00951 27481 00 00720 26400 30 00343 61403			
260 83 22055 24467 40 00951 26411 00 00820 24300 00 00820 22300			
278 57 61746 23568 36 81846 61567 3- 81846 61486 9- 10854 61584			
279 62 61746 55628 40 01863 24463 80 00851 57301 50 01853 24303			
285 27 03746 24628 27 01634 24565 10 00852 32502			
288 5- 02856 54428 5- 01753 60563 00 00700 26300 00 00850 26300			
575 48 62588 12553 67 25845 30488 87 81755 32216 50 01864 30214			
801 57 02744 57626 62 51446 62668 23 01852 28484 27 61587 15346			
321 57 22655 23468 52 62545 23468 00 05620 25260 00 05670 24200			
299 292 5- 02858 55528 5- 25855 61485 00 00700 27310 60 00900 25200			
310 -- 02628 24528 -- 02638 24528 -- 02626 26426			
614 67 61655 55468 6- 61548 55368 03 05600 26263 04 05600 24212			
333 57 02876 55687 57 61855 57627 23 02852 59466 8- 01954 28414			
334 -- 02746 30517 -- 63547 30588 -- 02644 20215			
340 57 10845 55467 5- 02768 22328 53 02758 28367 20 25955 26185			
136 5- 05688 21528 57 02762 54528 53 02752 25464 14 05651 26401			
336 52 02763 28528 24 01762 16413			
350 50 05633 55468 57 05655 55425 5- 62668 24268 50 05672 24202			
308 87 02854 56527 56 22654 56584 5- 61658 24568 53 00751 24102			
379 53 61756 22467 50 01754 22364 57 62734 28367 50 00851 26261			
390 5- 05555 23324 57 05554 24427 57 62544 26468 54 05661 24311			
382 57 02753 55527 53 51753 21454 52 64646 30368 04 00800 23301			
435 62 14745 24628 54 02753 22426			
430 57 02746 22367 5- 02776 57486 53 02864 26527 13 04861 24363			
409 53 07745 26426 50 81746 25527 57 02743 25525 53 02745 30326			

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W = Present and past weather—See M.O. 252.  
h, N<sub>h</sub> = Height and amount of low cloud—See M.O. 252.  
N = Total amount of cloud—See M.O. 252.  
C<sub>u</sub>, C<sub>m</sub> = Form of low and medium cloud—See page 1.  
V = Visibility. F = Force of wind—See page 1.  
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 7th November, 1941.
1 S.E. England	Light N.W. wind, fine, local fog night and morning, rather cold, slight screen frost and sharp ground frost at night.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	Light or moderate N.W. wind, mainly fair but local showers, local fog night and morning, rather cold, sharp ground frost at night.
5 S.W. England	Wind N.W. or variable mainly moderate or light, cloudy, slight local rain, becoming fair; local fog later; somewhat colder.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	As 4.
9 N. Midlands ...	
10 N.E. England	Light or moderate N.W. wind, fine, rather cold, sharp ground frost at night.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	As 4.
13A. W. Scotland	
13B. N.W. Scotland	Fresh N.W. wind moderating, wintry showers with snow on hills. cold.
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	As 4.
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	As 5.

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

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  
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.

GENERAL INFERENCE.

An anticyclone over Spain is tending to give way and an anticyclone over Greenland is spreading S.E. An intense depression over the Azores is moving slowly N. or N.W. but may ultimately extend its influence greatly. Weather will be fine except for local showers in the west and extreme North, with night frost.

FURTHER OUTLOOK.

Quiet and fair temporarily in most areas with local fog and frost, wintry showers in North Scotland.  
Gale warning issued 1055h 5.11.41. in districts 15 and 16, also at 1645h 5.11.41. in districts 10 (part of) and 11.

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

Forecasts issued at  
H.M.S.O. Press, Meteorological Office Dunstable.

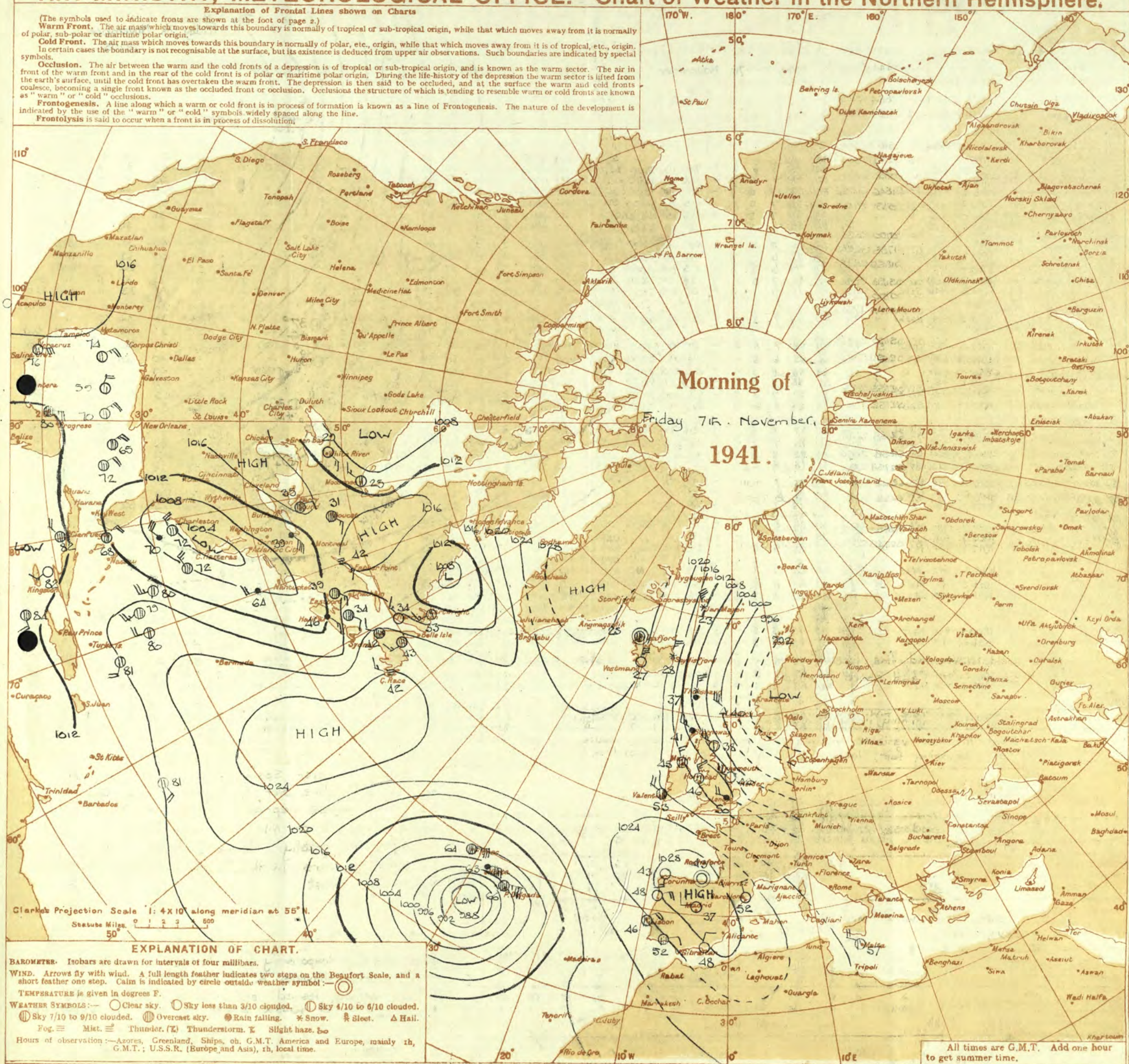
6.263/4120. IV. 8/76. D. 8034. 6p. 348. 3500. 3/41



# 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 at the foot of page 2.)  
**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.





AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 7th November 1941.

No. 29205

OBSERVATIONS at 1 hr. G.M.T. 7th November															OBSERVATIONS at 7 hr. G.M.T. 7th November															PAST 24 HOURS.								
District.	STATIONS.	Height above M.S.L. in feet.	Barom. M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. (6)	Humid. (7)	Visib. (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. (20)	Humid. (21)	Visib. (22)	Cloud.					State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		SUN- SHINE (35)		
					Direc.	Force.					Form.	Amount.	Height of Base. (feet)	Direc.	Force.			Form.	Amount.					Height of Base. (feet)	Min. on Grass (33)	Day 7h-18h (34)	Night 18h-7h (35)	6th Hrs.										
																															0-12	0-10	0-10	0-10	0-10		0-9	0-9
1	London (Kew)	18	*	*	*	*	*	48	85	8	6	2	*	7-8	10	3700	1016.7	+20	WNW	2	z	41	85	6	5	-	-	1	*	52	41	34	-	3	0.0			
	Croydon	217	1012.9	-10	N	4	ir	50	85	7	5	7	-	7-8	10	1800	1016.7	+18	WNW	2	z	40	92	6	5	-	-	1	*	52	40	34	-	4	0.0			
	S. Farnborough	226	1013.7	-10	WN	5	ir	50	85	7	5	7	-	7-8	10	1800	1017.5	+18	WNW	2	b	40	92	8	5	-	3	-	1	*	53	39	31	-	1	0.0		
	Boscombe Down	417	1015.4	-16	WN	5	id	50	92	7	6	2	-	10	10	1300	1016.2	+8	WNW	2	z	48	85	7	-	4	-	1	*	51	38	32	1	1	0.0			
	Thorney Island	10	1015.2	-12	N	4	c	51	85	7	5	7	-	2-3	9	4000	1017.3	+14	WNW	2	bc	43	92	7	2	3	-	Tr	2-3	2500	1	55	43	37	0.3	2	*	
	Lymington	346	1014.0	-6	WN	4	c	49	85	7	5	7	-	4-6	10	2500	1016.2	+16	WNW	3	z	38	92	6	-	3	-	0	2-3	-	1	53	51	38	34	1	1	0.2
	Manston	154	1011.8	-10	WN	5	ir	50	85	6	5	-	-	10	10	2200	1015.1	+16	WNW	3	z	42	85	6	5	4	-	Tr	Tr	2000	1	52	41	36	-	1	0.7	
2	Shoeburyness	11	1012.9	+2	WN	4	ir	48	85	5	5	-	-	10	10	1500	1015.5	+16	WNW	2	b	40	85	6	-	-	-	0	0	-	1	52	40	31	-	0.5	0.8	
	Felixstowe	15	1011.7	+8	WNW	6	ir	45	85	6	-	2	-	10	10	4000	1013.6	+10	WN	4	b	40	85	7	-	-	-	0	0	-	1	52	40	35	-	0.5	1.7	
	Gorleston	5	1010.2	+2	WNW	3	z	44	75	6	5	3	-	2-3	7-8	2500	1012.8	+6	WN	3	bc	38	85	6	5	-	-	2-3	2-3	1500	1	52	37	35	-	0.5	*	
	Mildenhall	19	1011.7	+10	WN	4	c	45	85	7	5	-	-	9+	9+	2500	1013.9	+10	WN	4	b	37	92	7	-	3	-	0	1	-	1	51	36	31	Tr	1	0.2	
	Cranwell	240	1011.5	+16	WN	3	bc	42	75	7	-	3	-	0	2-3	-	1013.1	+10	WN	3	z	38	85	6	5	-	-	1	1	4500	1	51	36	33	0.1	0.4	0.0	
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	1017.0	+12	W	2	pr	38	85	4	8	-	-	9	9	1500	1	52	38	37	0.3	4	0.3		
	Upper Heyford	408	1014.2	+14	WNW	4	c	43	85	7	5	7	-	9	10	3000	1016.8	+14	WN	2	b	38	85	8	4	4	-	1	1	2500	1	52	38	34	Tr	2	*	
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	1018.0	+14	WS	2	b	40	75	8	2	-	-	Tr	Tr	3500	1	53	39	33	Tr	0.3	0.0		
5	Hartland Point	299	1017.4	-6	WNW	5	ir	53	75	7	5	2	-	9+	10	1500	1019.8	+14	WNW	3	c	48	75	8	5	2	-	4-6	9	1500	1	54	47	45	0.1	1	0.9	
	Bristol	209	1016.0	-4	WN	5	z	51	85	6	5	-	-	10	10	2000	1019.3	+20	WN	2	b	40	85	7	-	4	-	0	Tr	-	1	52	40	36	1	0.2	0.0	
	Portland Bill	32	1016.4	+10	WN	5	bc	43	85	8	5	-	-	4-6	4-6	4000	1019.4	+2	WN	5	c	52	92	7	5	-	-	10	10	4000	1	55	49	*	-	*	*	
	Plymouth	82	1019.1	-6	WN	5	b	51	85	7	5	-	-	1	1	4000	1019.7	+14	WNW	3	c	49	92	7	5	-	5	3+	3+	7200	1	56	49	45	0.4	2	2	
	The Lizard	240	1021.1	-8	WNW	6	c	52	92	7	8	2	-	7-8	9+	1500	1021.3	+2	WN	5	c	51	92	8	8	6	-	7-8	9	1500	1	55	49	45	9	2	3	
	Scilly (St. Mary's)	163	1022.1	-2	WNW	5	c	53	85	8	8	6	-	4-6	9+	1500	1021.7	0	WNW	5	c	53	85	8	8	4	5	2-3	7-8	1500	1	56	51	*	0.3	0.4	3.0	
6	Pembroke	142	1017.9	+12	WNW	3	c	49	97	8	8	-	-	9+	9+	2500	1020.0	+10	WN	4	c	47	75	7	8	3	-	7-8	9	2500	1	54	44	42	Tr	1	1.0	
7	Holyhead (Valley)	26	1015.8	+14	WNW	5	bc	46	75	7	2	-	-	4-6	4-6	2000	1017.6	+10	WN	4	bc	44	75	8	3	-	-	4-6	4-6	1800	1	56	42	38	Tr	1	1	
	Chester (Sealand)	16	1014.2	+14	WNW	4	bc	44	85	8	9	-	-	4-6	4-6	2000	1016.2	+10	WNW	3	c	42	85	8	3	-	-	4-6	7-8	1500	1	55	42	37	-	7	1.3	
8	Manchester	235	1013.7	+12	WNW	3	b	41	75	8	2	-	-	1	1	3000	1015.2	+10	WN	4	bc	40	85	7	2	6	-	1	2-3	2500	1	52	38	35	2	3	*	
10	Spurn Head	29	1010.0	+22	WNW	5	b	42	75	7	-	-	-	0	0	-	1011.8	+14	WN	5	b	40	85	7	-	-	0	0	-	0	3	51	39	32	-	Tr	0.0	
	Catterick	175	1011.0	+6	WNW	3	b	40	75	8	-	-	-	0	0	-	1012.4	+8	WNW	4	b	40	75	9	-	-	0	0	-	0	3	53	39	32	0.2	-	0.4	
	Tynemouth	108	1009.7	+6	WN	4	b	37	85	7	-	-	-	0	0	-	1010.7	+14	WNW	5	bc	37	75	7	2	-	-	2-3	2-3	4000	1	53	35	32	1	1	*	
11	St. Abbs Head	280	1007.9	+4	WNW	6	bc	40	85	8	4	4	-	1	2-3	2500	1008.5	+6	WN	6	bc	39	85	8	4	4	-	2-3	2-3	2500	0	53	38	*	0.5	-	*	
	Leuchars	36	1008.8	+4	WNW	5	b	39	75	5	-	-	-	0	0	-	1009.1	-2	WNW	5	b	40	65	9	3	-	-	Tr	Tr	3500	1	54	37	32	0.3	1	1.4	
12	Renfrew (Abbots I.)	19	1012.2	+4	WN	4	bc	37	85	9	5	-	-	2-3	2-3	1600	1013.6	+8	WN	2	b	35	92	8	2	-	-	1	1	2000	1	53	34	25	0.3	Tr	1.2	
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.9	+8	WNW	5	b	35	75	8	5	-	-	1	1	1500	3	53	34	30	1	1	0.1		
	Point of Ayre	30	1014.2	+12	WN	5	bc	44	85	8	3	-	-	2-3	2-3	2000	1015.4	+12	WN	5	bc	44	85	8	8	-	-	4-6	4-6	1500	1	56	43	*	1	1	0.1	
13A	Tiree	22	1018.2	+6	WNW	5	c	42	85	8	8	-	-	7-8	7-8	1800	1014.1	+10	WNW	4	pr	43	85	8	5	-	-	7-8	7-8	1500	3	53	41	*	2	2	1.2	
13B	Stornoway	80	1011.5	+4	WNW	5	pr	41	65	8	8	6	-	4-6	7-8	2500	1012.8	+8	WN	6	bc	41	85	7	2	6	-	4-6	4-6	2000	1	45	36	28	3	3	3.9	
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	1012.5	+6	WN	4	bc	34	85	7	5	-	-	4-6	4-6	1500	4	48	32	28	6	0.2	0.6		
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	1006.0	+6	WN	5	bc	38	85	8	8	-	-	2-3	2-3	1900	1	51	36	35	5	0.3	0.9		
	Wick	119	1004.5	+6	WNW	6	c	39	75	8	3	-	3	7-8	9	1400	1006.7	+14	WNW	5	bc	40	85	8	3	6	3	4-6	4-6	1200	4	44	36	33	2	5	0.9	
16	Sumburgh	30	998.6	+2	WN	6	bc	41	65	8	3	-	-	4-6	4-6	1500	1001.5	+26	WN	6	c	43	65	8	8	-	-	7-8	7-8	1500	1	45	35	33	5	5	0.9	
17	Blackod Point	18	1020.2	+10	WN	2	c	47	75	8	7	-	-	0	9	-	1021.3	+12	WN	2	c	44	75	8	9	-	-	7-8	7-8	1500	-	55	42	*	9	0.5	*	
18	Malm Head	84	1016.3	+14	WNW	4	c	45	65	7	9	-	-	7-8	7-8	4000	1017.3	+6	WNW	4	c	45	75	7	8	-	-	7-8	7-8	4000	0	54	40	*	1	1	0.0	
	Aldergrove	268	1016.9	+12	WS	3	b	40	85	7	1	4	3	1	1	2000	1018.3	+10	WNW	3	bc	40	85	8	8	6	-	2-3	2									



AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
BRITISH SECTION  
Saturday 8th November 1941.  
No. 25 206

OBSERVATIONS at 13h. G.M.T. 7th November														OBSERVATIONS at 18h. G.M.T. 7th November														PAST 24 HOURS.						
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-10 (8)	Cloud.					Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0-10 (22)	Cloud.					State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.				
				Direc.	Force. 0-12 (4)					Form.	Amount. Low 0-10 Total 0-10 (12) (13)	Height of Base. (feet) (14)	Direc.	Force. 0-12 (18)			Form.	Amount. Low 0-10 Total 0-10 (26) (27)					Height of Base. (feet) (28)	7h.—13h. 7h... (37)	13h.—18h. 7h... (38)	18h.—24h. 1h. 2h. (39)	1h.—7h. 8h... (40)							
1	London (Kew)...	1018.6	+0	WNW	3	bc	48	55	8	-	-	7-8	7-8	2500	1020.3	+14	WS	2	bc	43	75	5	5	-	4-6	4-6	2500	1	*	bczy	bbcz	bcz.	bcm.x	
	Croydon ...	1018.6	+0	WNW	3	bc	47	55	7	-	-	8	8	2000	1019.7	+6	WS	2	bc	42	75	4	5	-	2-3	2-3	3500	1	*	bczy	bbcz	bcz.	bcm.	
	S. Farnborough	1018.3	+0	WNW	4	bc	49	55	8	1	-	2-3	2-3	3000	1020.6	+10	WS	2	bc	39	75	8	4	-	Tr	Tr	3000	0	*	bbc	bcb	bccz	cmc	
	Boscombe Down	1020.1	+2	WNW	3	bc	48	55	7	1	8	4-6	4-6	3000	1021.5	+2	WS	2	bc	38	85	8	5	-	Tr	Tr	3000	0	0	b	bcb	bccz	cmc	
	Thorney Island	1019.7	-2	WNW	4	bc	50	55	8	1	-	1	1	2500	1020.5	+6	WNW	3	bc	44	75	6	4	-	Tr	Tr	4000	0	*	bcy	bybm	bcm.	czo	
	Lympne	1018.4	+0	WNW	4	bc	48	55	8	1	-	Tr	Tr	4000	1020.1	+8	WNW	3	bc	41	75	6	1	-	0	0	0	0	3	bcy	bbbz	bcm.	bcm.	
	Manston	1017.8	+14	WNW	4	bc	47	55	8	1	-	Tr	Tr	2000	1018.8	+14	WNW	3	bc	38	75	5	1	-	0	0	0	0	0	bcy	bcm.	bcm.	bcm.	
2	Shoeburyness ...	1017.8	+0	WNW	4	bc	47	55	8	1	4	2-3	4-6	2500	1018.7	+14	WS	3	bc	42	75	6	1	-	0	1	1	1	*	bcy	bcm.	bcm.	bcm.	
	Felixstowe ...	1014.9	+0	WNW	6	bc	48	55	7	1	-	Tr	Tr	3000	1017.1	+16	WNW	5	bc	48	75	6	4	-	Tr	Tr	4000	0	4	bcy	bybm	bcm.	bcm.	
	Gorleston ...	1014.8	+14	WNW	4	bc	42	55	7	-	-	Tr	Tr	0	1016.6	+14	WSW	2	bc	43	65	6	5	-	2-3	2-3	2500	0	3	b	bcb	bccz	bmx	
	Mildenhall ...	1015.8	+0	WNW	5	bc	48	55	7	1	-	Tr	Tr	4000	1017.4	+14	WNW	4	bc	40	52	7	1	-	0	0	0	0	0	b	bcb	bccz	bmx	
	Cranwell	1015.3	+2	WNW	4	bc	48	55	6	1	4	Tr	Tr	3000	1017.5	+20	WNW	3	bc	40	75	4	1	-	0	0	0	0	0	b	bcb	bccz	bmx	
3	Birmingham	1018.7	+2	WNW	3	bc	42	55	7	8	-	8	8	1500	1020.0	+10	WNW	3	bc	41	75	8	8	-	7-8	7-8	1500	1	*	bcy	bbcz	bcc	bcc	
	Upper Heyford	1018.1	+2	WNW	4	bc	47	55	8	1	-	1	1	2500	1019.7	+12	WNW	3	bc	38	85	8	4	3	Tr	Tr	2500	1	*	b	bcb	bcc	bcc	
4	Ross-on-Wye ...	1018.4	+4	WNW	3	bc	47	55	8	7	-	2-3	2-3	4000	1020.4	+6	WSW	2	bc	41	75	8	4	1	Tr	Tr	3500	1	*	b	bcb	bcc	bcc	
5	Hartland Point	1021.7	+0	WNW	3	bc	48	55	8	1	4	2-3	7-8	2500	1022.4	+8	WNW	3	bc	47	55	9	7	-	7-8	9	3000	0	3	bcy	bbcz	bcc	bcc	
	Bristol ...	1020.6	-2	WNW	3	bc	50	55	8	2	-	4-6	4-6	3000	1021.8	+10	WNW	1	bc	42	75	6	4	6	1	2-3	3000	1	*	b	bcb	bccz	cmc	
	Portland Bill ...	1020.8	+4	WNW	4	bc	51	75	8	2	-	4-6	4-6	4000	1021.4	+0	WNW	2	bc	48	75	8	5	-	4-6	4-6	4000	0	4	b	bcb	bcc	bcc	
	Plymouth	1021.5	+0	WNW	2	bc	50	55	7	7	-	8	8	2000	1022.0	+0	WNW	1	bc	48	85	5	5	3	-	4-6	4-6	4000	0	2	bcy	bbcz	bcc	bcc
	The Lizard	1022.3	+0	WNW	2	bc	55	85	8	8	2	-	7-8	8	1500	1022.8	+4	WNW	4	49	92	8	8	6	-	7-8	7-8	1500	1	3	bcy	bbcz	bcc	bcc
	Scilly (St. Mary's)	1022.2	-2	WNW	2	bc	54	87	8	8	2	-	7-8	10	500	1023.0	+10	WNW	3	49	87	7	8	2	-	7-8	9	800	1	3	bcy	bbcz	bcc	bcc
	Guernsey	1022.2	-2	WNW	2	bc	54	87	8	8	2	-	7-8	10	500	1023.0	+10	WNW	3	49	87	7	8	2	-	7-8	9	800	1	3	bcy	bbcz	bcc	bcc
6	Pembroke ...	1021.8	+10	WNW	3	bc	48	55	8	2	4	4-6	4-6	3000	1022.3	+4	WNW	3	bc	47	65	8	2	6	-	4-6	7-8	3000	1	2	bc	bcb	bcc	bcc
7	Holyhead (Valley)	1019.2	+2	WNW	4	bc	47	55	8	2	-	4-6	4-6	3000	1020.0	+2	WNW	4	54	65	8	2	6	-	4-6	4-6	2500	0	3	bc	bcb	bcc	bcc	
	Chester (Sealand)	1018.2	+2	WNW	4	bc	48	55	8	2	-	7-8	7-8	2000	1019.5	+10	WNW	3	48	85	8	8	6	-	4-6	7-8	2000	1	*	bcy	bbcz	bcc	bcc	
8	Manchester	1017.9	+12	WNW	3	bc	47	75	7	2	6	4-6	7-8	2500	1018.9	+12	WS	2	41	85	6	4	6	-	2-3	4-6	3000	1	*	bcy	bbcz	bcc	bcc	
10	Spurn Head	1018.5	+0	WNW	6	bc	46	65	7	-	-	10	0	1015.2	+0	WNW	7	44	70	7	-	-	-	0	0	-	0	4	bc	bcb	bcc	bcc		
	Catterick	1014.6	+10	WNW	4	bc	46	65	8	2	-	Tr	Tr	2500	1017.0	+0	WNW	4	40	75	7	-	4	-	0	Tr	-	0	4	b	bcb	bcc	bcc	
	Tynemouth	1018.7	+10	WNW	5	bc	45	45	7	2	-	2-3	2-3	4000	1016.4	+22	WNW	4	40	75	6	2	-	2-3	2-3	4000	1	4	bc	bcb	bcc	bcc		
11	St. Abbs Head	1012.0	+10	WNW	6	bc	44	85	8	4	4	2-3	4-6	2500	1013.9	+12	WNW	6	42	75	8	4	-	1	1	2500	0	3	bcy	bbcz	bcc	bcc		
	Leuchars	1013.4	+20	WNW	5	bc	45	85	8	1	-	1	1	3500	1015.1	+10	WNW	5	39	75	9	4	-	1	Tr	Tr	3500	1	*	b	bcb	bcc	bcc	
12	Renfrew (Abbots L.)	1015.6	+8	WNW	5	bc	45	85	8	2	-	Tr	Tr	2500	1018.0	+20	WSW	3	38	75	8	4	-	Tr	Tr	2000	1	*	b	bcb	bcc	bcc		
	Eskdalemuir	1014.7	+8	WNW	5	bc	42	55	8	1	-	1	1	2500	1017.7	+18	WNW	2	33	85	8	5	-	Tr	Tr	2500	1	*	bcy	bbcz	bcc	bcc		
	Point of Ayre	1017.9	+4	WNW	6	bc	48	65	8	8	-	2-3	2-3	2000	1018.7	+10	WNW	4	40	65	8	8	6	-	2-3	2-3	2000	1	4	bcy	bbcz	bcc	bcc	
13a	Tiree ...	1018.2	+10	WNW	4	bc	44	75	8	8	-	4-6	4-6	1800	1019.2	+6	WNW	3	43	85	7	8	-	7-8	7-8	1500	1	*	bcy	bbcz	bcc	bcc		
13b	Stormoway	1016.5	+0	WNW	5	bc	41	65	8	6	2	2-3	4-6	2500	1018.0	+0	WNW	3	36	92	8	3	6	-	2-3	4-6	2500	1	*	bcy	bbcz	bcc	bcc	
15	Dalwhinnie	1016.4	+12	WNW	3	bc	35	85	7	8	-	8	8	1500	1017.9	+10	WNW	1	32	75	7	8	-	4-6	4-6	2500	4	*	bcy	bbcz	bcc	bcc		
	Aberdeen	1011.2	+14	WNW	4	bc	40	85	8	3	-	7-8	7-8	1800	1013.8	+12	WNW	5	37	85	8	3	-	4-6	4-6	1800	1	3	bcy	bbcz	bcc	bcc		
	Wick	1010.6	+10	WNW	5	bc	39	75	8	3	-	2-3	4-6	1400	1013.4	+22	WNW	4	37	85	7	3	-	8	8	1400	4	*	bcy	bbcz	bcc	bcc		
16	Sumburgh	1005.3	+18	WNW	6	bc	40	85	7	9	-	8	8	1500	1008.2	+16	WNW	6	40	65	8	8	-	4-6	4-6	1500	1	6	bcy	bbcz	bcc	bcc		
17	Blacksod Point...	1022.5	+2	WNW	2	bc	49	55	8	2	-	2-3	2-3	2500	1022.2	+2	WNW	1	45	85	7	6	-	10	10	1500	1	5	bc	bcb	bcc	bcc		
18	Malin Head	1019.2	+0	WNW	3	bc	44	85	8	3	-	4-6	7-8	2500	1020.1	+4	WNW	3	46	55	8	8	-	7-8	7-8	4000	0	4	bcy	bbcz	bcc	bcc		
	Aldergrove	1019.6	+2	WNW	3	bc	44	75	8	8	-	4-6	4-6																					

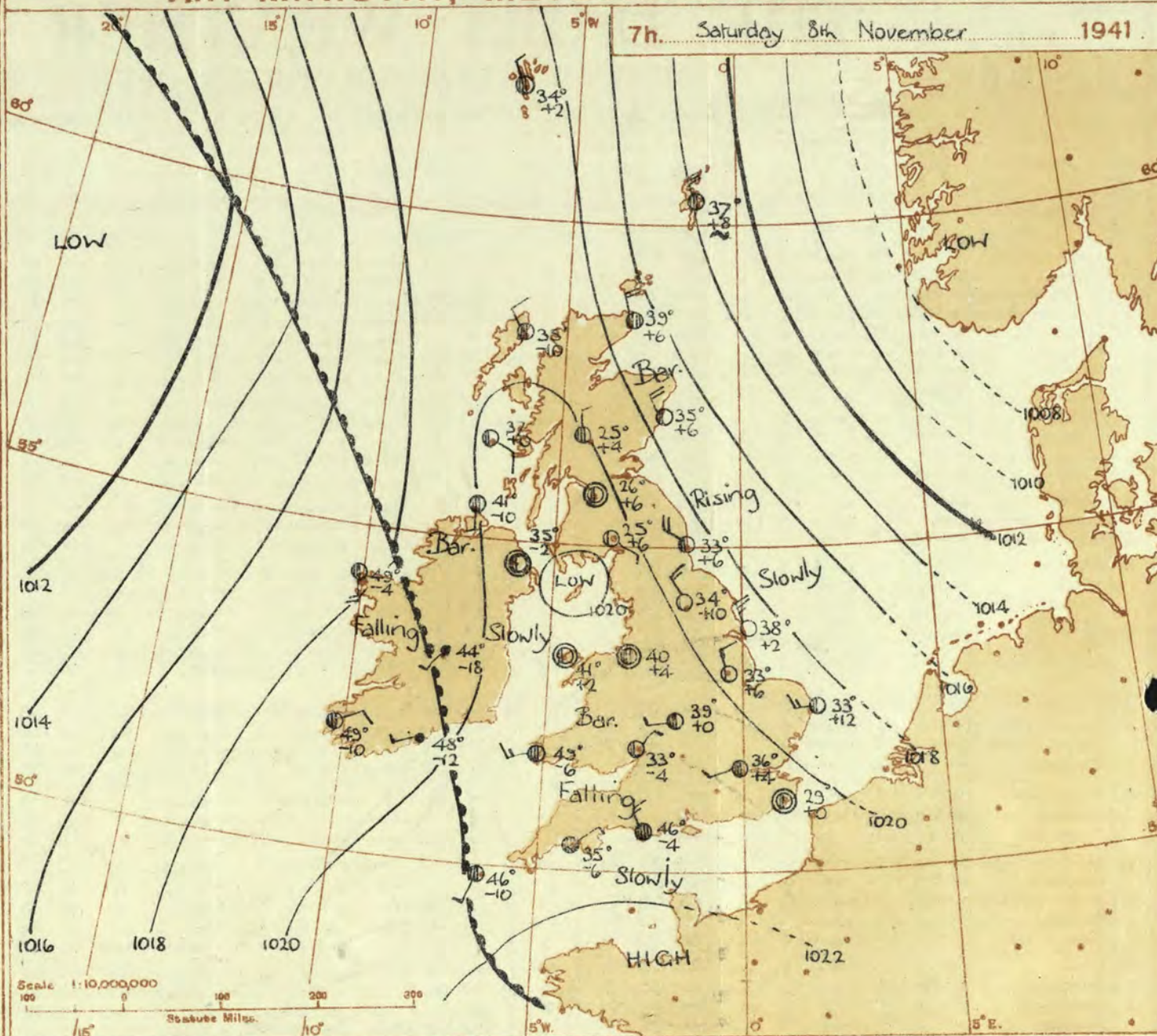


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T.	14h. G.M.T.	15h. G.M.T.	16h. G.M.T.	17h. G.M.T.	18h. G.M.T.	19h. G.M.T.	20h. G.M.T.	21h. G.M.T.	22h. G.M.T.	23h. G.M.T.	24h. G.M.T.
III, C <sub>u</sub>	wwVhN <sub>h</sub> DDFWN	C <sub>u</sub> C <sub>u</sub>	wwVhN <sub>h</sub> DDFWN	C <sub>u</sub> C <sub>u</sub>	wwVhN <sub>h</sub> DDFWN	C <sub>u</sub> C <sub>u</sub>	wwVhN <sub>h</sub> DDFWN	C <sub>u</sub> C <sub>u</sub>	wwVhN <sub>h</sub> DDFWN	C <sub>u</sub> C <sub>u</sub>	wwVhN <sub>h</sub> DDFWN
109 3-	258 45 62 585	2-	257 46 62 680	3-	017 44 61 684	4-	028 47 28 687				
115 87	88 78 4 63 687	56	88 83 4 63 686	52	88 83 4 26 686						
203 8-	028 45 28 625			26	019 43 28 513	5-	035 38 32 328				
206 8-	028 44 28 685	3-	258 54 28 384	44	008 61 61 382	53	008 52 26 223				
210 3-	88 74 7 50 687	2-	817 48 61 528	26	029 55 50 425	26	019 54 25 384				
220											
230 33	018 54 32 484	20	018 43 25 383	50	008 51 30 311	13	008 51 00 002				
245 30	018 53 26 303	40	009 51 50 401	06	009 50 28 301	80	018 63 22 303				
260 10	008 53 26 203	00	008 50 26 400	50	056 61 22 112	00	056 60 00 000				
278 86	018 54 60 615	50	009 62 26 312			5-	027 66 16 126				
279 20	018 54 26 404	40	008 62 25 302	04	008 50 30 311	00	009 50 00 002				
285 10	008 53 28 603	10	008 51 30 407			13	008 51 30 312				
288 10	008 51 58 501	00	056 60 20 100	07	017 50 22 104	00	008 50 24 200				
578 58-	818 47 28 387	47	028 64 24 127	02	52 58 00 606	5-	52 64 8 1158				
301 20	028 54 27 485	20	017 54 27 414	26	027 54 27 386	07	056 60 03 384				
321 10	007 61 26 501	50	176 61 25 301	00	055 50 24 200	00	007 50 24 300				
299 50	007 62 24 502	50	017 53 24 313	00	007 50 24 310	00	008 50 27 300				
292 20	008 51 58 501	40	009 51 27 301	07	008 50 26 203	00	008 50 27 300				
310 --	018 53 32 416	--	016 36 26 316			--	016 35 24 315				
044 20	017 52 55 414	00	056 63 24 303	04	084 30 00 014	54	084 73 24 124				
333 2-	018 54 26 484	2-	258 54 28 385	8-	028 57 28 227	52	618 54 00 017				
334 --	027 53 30 314	--	017 62 30 313			--	025 45 02 216				
340 80	258 44 28 384	96	818 45 24 285	07	228 50 24 167	5-	218 58 26 158				
136 10	008 51 26 501	00	056 60 24 300	00	055 50 27 414						
336 13	017 63 28 314	24	017 62 28 314			12	017 62 32 314				
350											
368 10	018 53 26 403	40	007 51 27 201	5-	056 87 00 017	54	056 76 30 127				
379 10	018 44 26 414	10	018 52 26 312	03	056 60 26 315	53	027 64 26 215				
390 70	017 55 20 403	00	056 60 26 310	03	056 60 24 214	03	056 60 22 115				
382 10	018 53 26 503	44	008 61 25 201	07	027 50 25 217	07	056 60 00 027				
438 80	018 53 24 403					53	018 54 31 314				
430 10	008 52 20 412										
498 57	027 46 32 288	57	028 45 30 267	04	018 50 00 013	05	028 50 15 226				

III - Index Number of Station - See M.O. 252 or list issued on 1st of each month.  
ww, W - Present and past weather - See M.O. 252.  
h, N<sub>h</sub> - Height and amount of low cloud - See M.O. 252.  
N - Total amount of cloud - See M.O. 252.  
C<sub>u</sub> C<sub>u</sub> - Form of low and medium cloud - See page 1.  
V - Visibility. F - Force of wind - See page 1.  
DD - Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 8th November 1941
1 S.E. England	Light variable wind; cloudy; bright intervals at first; perhaps slight rain,
2 E. England ...	sleet or snow tomorrow; rather widespread fog night and morning; rather
3 E. Midlands ...	cold; frost locally at night.
4 W. Midlands ...	
5 S.W. England	Light S.W. or S. wind becoming moderate; cloudy; occasional slight
6 South Wales ...	rain; becoming milder.
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	As 0-4.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	As 5-7.
14 Mid Scotland	
15 N. E. Scotland	As 0-4.
16 Orkneys and Shetlands	Strong N. wind, moderating; wintry showers; rather cold.
17 N. W. Ireland	
18 N. E. Ireland	As 5-7
19 S. E. Ireland	
20 S. W. Ireland	

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

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  
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.

GENERAL INFERENCE.

A ridge of pressure is moving slowly eastward over the British Isles. Weather will be fair apart from slight rain in the West but fog will become rather widespread. Slight precipitation may spread east tomorrow.

FURTHER OUTLOOK.

Unsettled mild conditions probably spreading gradually east.

Forecasts issued at 1030 G.M.T.

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

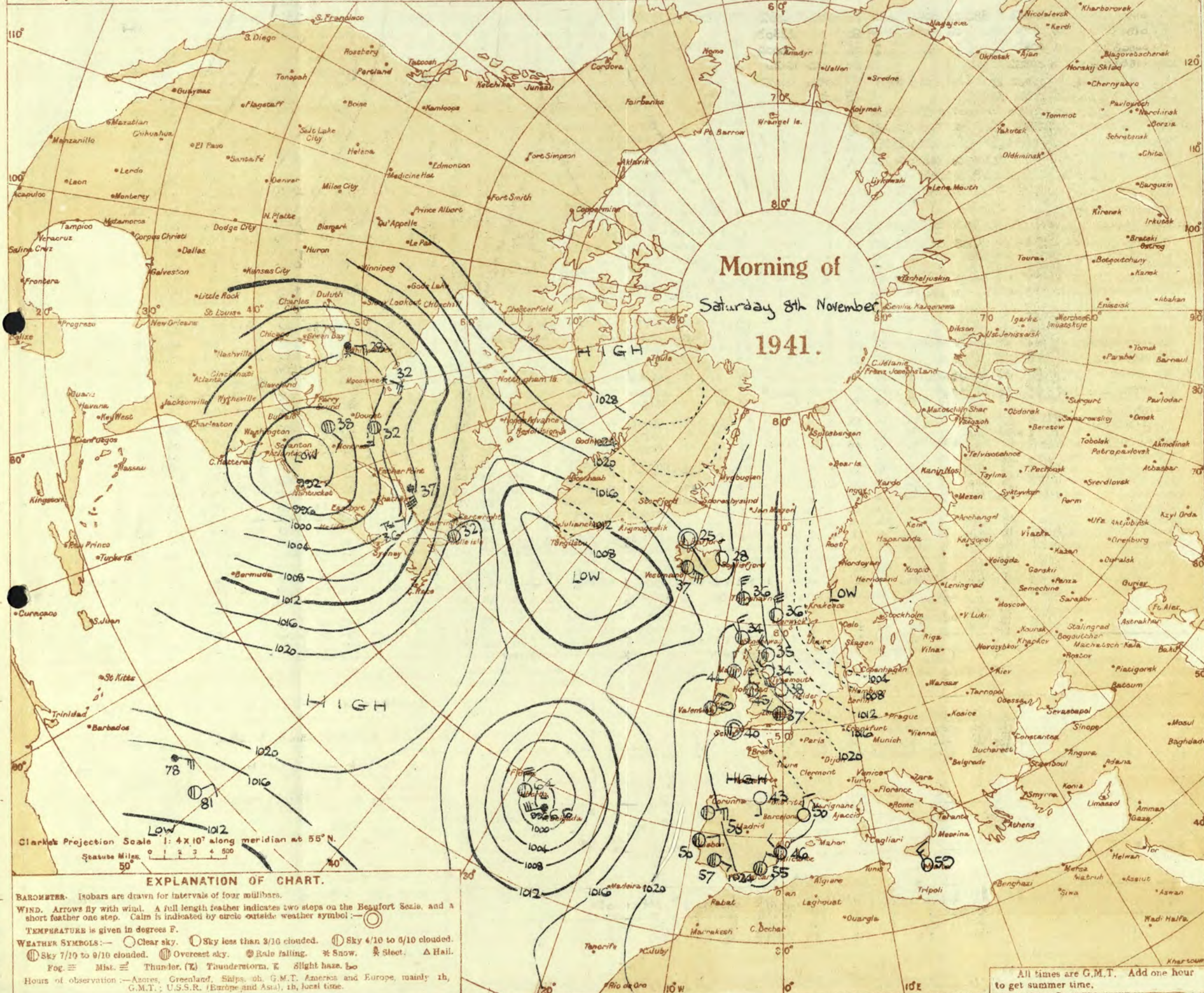
H.M.S.O. Press, Meteorological Office, Dunstable.

0.269/4120. M. 8/76. D. 6034. Gp. 346. 3100. 9/41



# 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 at the foot of page 2.)  
**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.





AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 8th November 1941.

No. 29,206

OBSERVATIONS at 1 hr. G.M.T. 8th November....														OBSERVATIONS at 7 hr. G.M.T. 8th November....														PAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	TEMPERATURE.				RAINFALL.		SUNSHINE Hrs.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
					Dir.	Force.					Low.	Med.	High.			Low 0-10.	Total 0-10.					Height of Base (feet).	Dir.	Force.			Low.	Med.					High.	Low 0-10.	Total 0-10.	Height of Base (feet).	State of Ground.	Sea. 0-6.		Max. Day 7h-18h °F.	Min. Night 18h-7h °F.	Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							



AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
BRITISH SECTION  
Sunday, Jan. November, 1941.  
No. 29207

OBSERVATIONS at 13h. G.M.T. 30th November														OBSERVATIONS at 18h. G.M.T. 30th November														PAST 24 HOURS.								
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. m.	Cloud.				Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. m.	Cloud.				State of Ground.	Sea.	WEATHER.								
				Dir.	Force.					Low.	Med.	High.	Low.			Med.	High.					Low.	Med.	High.	Low.			Med.	High.	7h.—13h. Sun.	13h.—18h. Sun.	18h.—Sun. 1h.	Sun. 1h.—7h.			
1	London (Kew)...	1020.0	-0	W	2	N	46	65	6	2	3	-	1	2.3	2500	1020.1	-0	SE	1	60	38	85	3	-	-	-	0	0	-	1	*	cbpbc	bcbpf	bfc	bfbcc	
	Croydon ...	1021.0	-0.6	NW	2	N	48	65	5	2	4	-	1	1	3000	1020.4	-0.6	SE	2	60	36	97	2	-	-	-	0	0	-	1	*	cmcbz	bzbf	bfc	cm	
	S. Farnborough	1020.0	-0.8	NW	2	N	48	65	7	1	3	5	2.3	2.3	3000	1020.1	0	SE	2	38	85	4		3	-	0	4	-	0	*	cmcbz	bzbf	bfc	cm		
	Boscombe Down	1021.0	-1.2		0	N	48	65	8	2	3	1	4	4	3000	1019.9	0	SE	2	43	85	7	5	7		4	3	3500	0	*	cmcbz	bzbf	bfc	cm		
	Thorney Island	1020.6	-1.0		1	N	50	65	8	1	3	6	1	3	4000	1018.7	-2	NE	1	43	85	6	5	3		7	8	9	6500	0	*	cmcbz	bzbf	bfc	cm	
	Lympne ...	1020.9	-0.8	NW	1	N	45	65	6			6	0	4	-	1021.2	+2			38	97	5			1	0	2	3	-	1	*	cmcbz	bzbf	bfc	cm	
	Manston ...	1020.6	-0.2	NW	3	N	44	65	6			6	0	4	-	1020.4	0	NW	1	34	85	5			1	0	1	-	1	*	cmcbz	bzbf	bfc	cm		
2	Shoeburyness ...	1020.7	-0.2	NW	3	N	46	65	6			5	0	2	3	1020.5	0	NW	2	31	85	6		4	1	0	4	-	1	2	cmcbz	bzbf	bfc	cm		
	Felixstowe ...	1019.6	-0.2	NW	4	N	44	65	7			5	0	2	3	1018.7	+2	NW	1	36	75	5		8	0	1	-	1	2	cmcbz	bzbf	bfc	cm			
	Gorleston ...	1019.4	+0.2	NW	4	N	45	65	7	2			2	2	3	1020.1	+2	NW	2	38	65	4	5			2	3	8	0	2	cmcbz	bzbf	bfc	cm		
	Mildenhall ...	1020.2	-0.4	NW	3	N	43	75	7			2	0	2	3	1020.2	0			28	97	5			8	0	2	3	-	0	*	cmcbz	bzbf	bfc	cm	
	Cranwell ...	1020.5	-0.2	NW	2	N	43	65	6			1	0	2	3	1020.1	0			27	85	4			0	0	-	0	*	cmcbz	bzbf	bfc	cm			
3	Birmingham	1020.3	-0.4		0	N	44	65	5	5	3	-	2	3	4	1018.0	-0.6	SE	2	42	75	4	5	-	-	10	10	2500	1	*	cmcbz	bzbf	bfc	cm		
	Upper Heyford	1020.7	-0.6	N	1	N	47	65	8	5	7	3	4	4	4	1018.4	-0.6	SE	1	42	75	6	5	7		7	8	10	2500	1	*	cmcbz	bzbf	bfc	cm	
4	Ross-on-Wye ...	1020.2	-0.8	NW	1	N	45	75	8	5	7	-	4	4	4	1018.6	-0.8	SE	1	44	75	6	5	-		10	10	2500	1	*	cmcbz	bzbf	bfc	cm		
5	Hartland Point	1019.3	-1.0	SW	3	N	49	65	8	5	7	-	4	4	4	1018.8	-1.0	SE	3	44	75	7	5	4		4	4	4	4	4	*	cmcbz	bzbf	bfc	cm	
	Bristol ...	1021.1	-0.8		0	N	48	65	6	7	3	-	0	0	3	1019.4	+0.8			45	85	6	5	2		4	4	4	4	4	*	cmcbz	bzbf	bfc	cm	
	Portland Bill ...	1020.9	-0.8	NW	3	N	52	85	8	2	1	1	7	8	0	1018.7	-0.8	NW	3	50	85	8	4	-		7	8	7	8	4	4	cmcbz	bzbf	bfc	cm	
	Plymouth ...	1019.8	-0.2	SE	2	N	52	65	8	4	3	6	1	9	4500	1017.3	+1.0	SE	2	44	82	5		7	7	0	10		0	2	cmcbz	bzbf	bfc	cm		
	The Lizard ...	1019.6	-1.4	SE	3	N	53	75	8	8	4	6	4	4	4	1015.8	-2.0	SE	3	49	85	8	2			7	8	9	1500	0	4	cmcbz	bzbf	bfc	cm	
	St. Mary's ...	1018.6	-2.0	SE	3	N	53	75	8	5	7	4	4	4	4	1014.4	-2.4	SE	4	50	75	8	5	-		10	10	1500	1	3	cmcbz	bzbf	bfc	cm		
	Guernsey ...																																			
6	Pembroke	1018.8	-2.0	SE	4	N	50	82	8	8		-	0	0	2	1015.8	-1.2	SE	5	51	85	8	8	-	-	0	0	1500	1	3	cmcbz	bzbf	bfc	cm		
7	Holyhead (Valley)	1018.8	-1.2	SE	1	N	46	75	5	7		-	2	3	10	1015.7	-1.8	SE	3	45	85	8	5	7	-	0	10	2000	0	1	cmcbz	bzbf	bfc	cm		
	Chester (Sealand)	1019.6	-1.2	SE	1	N	48	65	6	5	3	-	0	0	6500	1017.9	-1.0	SE	2	44	75	5	6	7	-	7	8	10	3300	1	*	cmcbz	bzbf	bfc	cm	
8	Manchester	1020.4	-0.6		0	N	43	75	5			5	0	2	3	1018.1	-0.6	SE	3	35	85	5		3		0	2	3		1	*	cmcbz	bzbf	bfc	cm	
10	Spurn Head	1019.2	-0.2	NW	4	N	42	65	6			0	0	0	0	1018.3	-0.2	NW	3	41	65	4				0	0		0	4	cmcbz	bzbf	bfc	cm		
	Catterick	1021.0	-0.6	NW	2	N	45	65	5	5		1	0	0	2	1018.7	0	NW	3	30	85	4	5	-		1	1	2500	0	*	cmcbz	bzbf	bfc	cm		
	Tynemouth	1018.7	0	NW	3	N	42	65	7			1	0	1	1	1018.7	0	NW	3	40	85	4	2			2	3	2	3	6400	1	4	cmcbz	bzbf	bfc	cm
11	St. Abbs Head	1018.4	+0.2	NW	3	N	40	70	8	1	4	1	0	0	1	1018.0	+0.2	NW	2	38	65	8	4	4		2	3	2	3	2500	0	2	cmcbz	bzbf	bfc	cm
	Leuchars	1018.8	-0.4	NW	2	N	41	65	8			2	0	2	3	1018.0	-0.4	NW	2	32	85	6			1	0	1		1	*	cmcbz	bzbf	bfc	cm		
12	Roufrev (Abbots L.)	1019.7	-1.0	NW	3	N	40	65	8	1	4	1	0	0	1	1018.0	-0.4	NW	2	32	85	6			1	0	1		1	*	cmcbz	bzbf	bfc	cm		
	Eakdalemuir ...	1018.4	-0.6	SE	3	N	45	65	8	5		-	4	4	4	1016.2	-0.2	SE	3	45	85	7	5	-		0	4	-	0	*	cmcbz	bzbf	bfc	cm		
	Point of Ayre ...	1018.4	-0.6	SE	3	N	45	65	8	5		-	4	4	4	1016.2	-0.2	SE	3	45	85	7	5	-		0	4	-	0	*	cmcbz	bzbf	bfc	cm		
13A	Tiree ...	1018.4	-1.2	SE	2	N	45	65	8	5	3	-	2	3	4	1016.2	-1.2	SE	4	44	75	8	5	-		0	4	-	0	0	*	cmcbz	bzbf	bfc	cm	
13B	Stornoway ...	1018.8	-0.6		0	N	41	65	8	5	3	5	2	3	4	1016.2	-0.6	SE	4	43	65	8	5	7	-	7	8	10	2500	1	*	cmcbz	bzbf	bfc	cm	
15	Dalwhinnie	1020.3	-0.4	NW	1	N	39	65	8	1		-	0	0	4	1018.4	-0.4	NW	1	25	75	8	1	-		0	4	-	0	4	*	cmcbz	bzbf	bfc	cm	
	Aberdeen	1017.8	0	NW	2	N	38	75	8	5		-	0	0	4	1017.8	-0.4	NW	2	35	65	6	5	-		0	4	-	0	4	*	cmcbz	bzbf	bfc	cm	
	Wick ...	1017.7	+0.2	NW	2	N	39	75	8	8		-	0	0	4	1017.1	-0.2	NW	1	37	85	9	5	7	-	7	8	10	3000	1	*	cmcbz	bzbf	bfc	cm	
16	Sumburgh	1015.2	+0.6	NW	5	N	39	65	8	8		-	7	8	1500	1015.4	+0.2	NW	3	38	65	8	5	-		10	10	1500	1	*	cmcbz	bzbf	bfc	cm		
17	Blackod Point...	1014.5	-1.4	SE	2	N	52	85	8	4		-	2	3	10	1010.3	-2.0	SE	4	48	85	8	4	-		2	3	2	3	2500	0	*	cmcbz	bzbf	bfc	cm
18	Malin Head	1010.5	-2.2	SE	4	N	45	75	8	1		4	2	3	4	1013.0	-2.2	SE	2	44	85	8	8	-		7	8	7	8	2500	0	3	cmcbz	bzbf	bfc	cm
	Aldergrove	1018.3	-1.8	SE	1	N	46	65	7	5	4	5	7	8	0	1014.0	-1.4	SE	3	44	92	7	5	7	-	0	10	700	1	*	cmcbz	bzbf	bfc	cm		
19	Birr Castle	1019.0	-1.4	SW	1	N	50	85	8	5	1	-	7	8	10	1012.7	-1.4	SW	2	48	92	8	5	1	-											

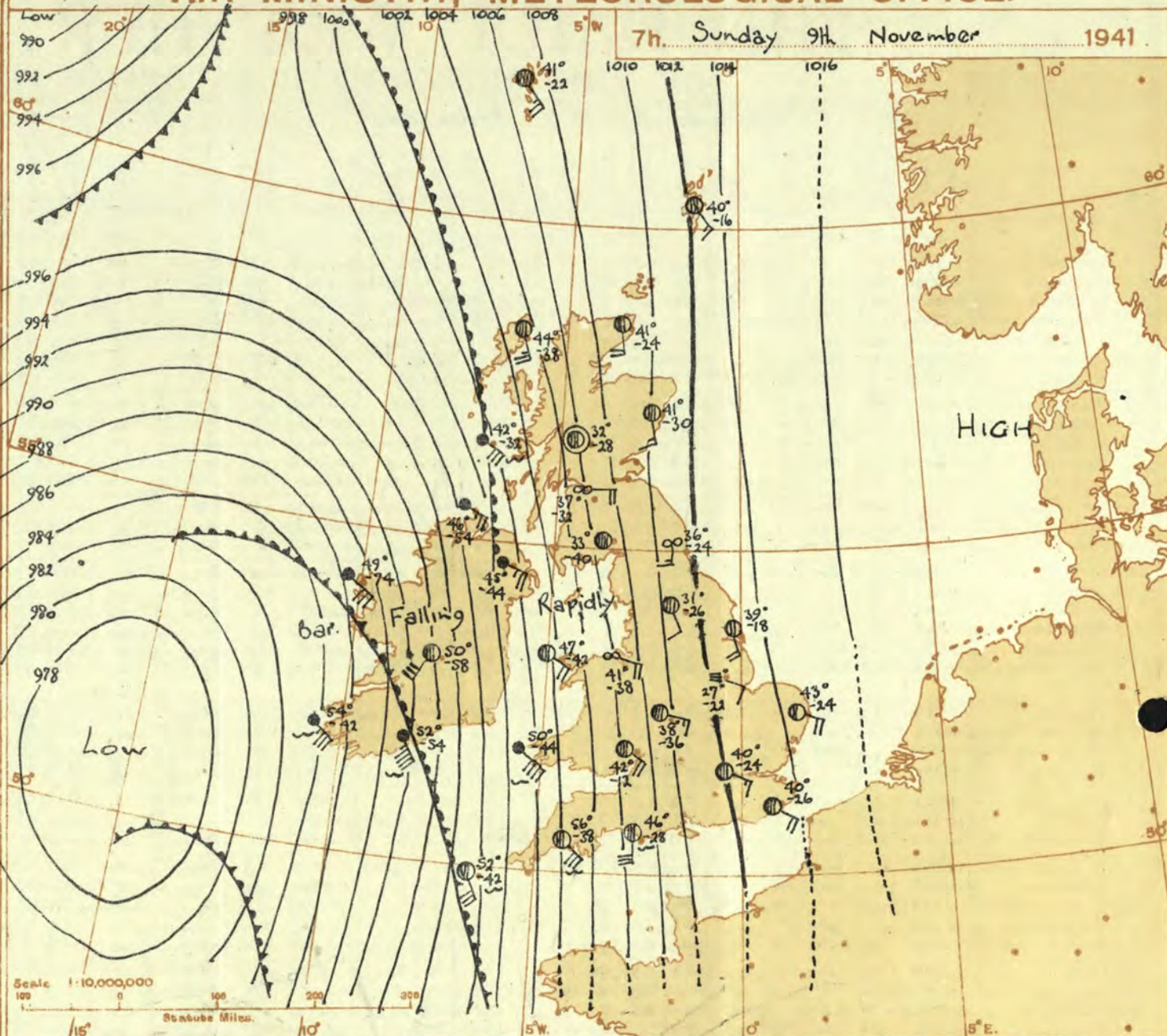


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 2nd November				18h. G.M.T.				01h. G.M.T. 3rd November				07h. G.M.T.			
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN		C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN		C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	
1095	-	27867	30487	5-	02867	32327	5-	02867	10227	5-	02867	10527			
11552	-	02044	32327	52	02044	12327	54	01844	12425	51	01844	12427			
203				5-	02038	12428	7-	02047	12427						
20653	-	01063	24224	6-	01764	00014	03	01800	00014	05	02890	12327			
21053	-	01062	25315	50	00071	20211	00	02000	10328	04	02000	07328			
22053	-	01053	15304	52	03646	15428				52	03645	12728			
23013	-	00801	10112	50	05662	12112	57	05656	12128	52	05755	08228			
24550	-	00071	20302	04	00000	24101	54	02852	22128	57	05664	15425			
26000	-	00700	28101	00	04700	00001	00	04700	00003	50	05664	08328			
2705-	-	02000	10316	5-	02858	04228	5-	02849	10458	5-	02738	43608			
27980	-	01800	08113	07	01790	07213	5-	02768	05328	5-	02768	07328			
28500	-	00800	30400	13	00861	30302									
288				00	17500	18202	00	05500	20100	51	05656	16128			
50055-	-	01028	12258	5-	05638	12358	5-	05648	12428	5-	02638	14668			
80150	-	05663	12213	00	08400	10114	5-	05668	11648	52	05663	44728			
32104	-	00700	31303	00	00700	10102	03	47800	14117	57	05663	10248			
29950	-	05643	24303	50	01643	24313	00	00700	24300	50	01743	20313			
29200	-	00800	27202	00	00700	10102	53	08454	11147	07	05600	10227			
310															
61404	-	05600	20102	00	47200	00012	5-	08477	08127	00	08400	10128			
33357	-	21844	12258	6-	51748	12358	51	02853	00557	51	02855	45728			
334--	-	02740	20217	--	03636	02328									
34023	-	01762	18115	5-	05637	11227	5-	08468	10328	01	08400	12528			
13600	-	05600	27311	00	05600	22103	00	05600	10103	03	05600	11218			
33650	-	02763	32328	52	05652	12328									
35017	-	05652	28114				00	08400	22328	07	05600	10225			
80867	-	02777	08208	52	02666	10228	50	02665	12527	57	02654	11427			
27923	-	01854	30225	5-	02708	20128	00	05600	14328	07	02700	45426			
39000	-	05600	26212	00	08400	14112	00	08400	14114	02	05600	12327			
38223	-	02864	24115	5-	05577	00127	00	47300	09214	03	05600	10317			
40882	-	01753	28314							37	02754	14427			
43010	-	01853	32113	03	06600	32124	40	05601	08427	57	02053	12527			
40054	-	02061	15316	54	02063	14427	57	02855	14528	82	02746	14588			

III - Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W - Present and past weather—See M.O. 252.  
h, N<sub>h</sub> - Height and amount of low cloud—See M.O. 252.  
N - Total amount of cloud—See M.O. 252.  
C<sub>M</sub> - Form of low and medium cloud—See page 1.  
V - Visibility. F - Force of wind—See page 1.  
DD - Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 9th November 1941

1 S.E. England	Freshening southeast wind becoming strong veering south to southwest later; fair at first; rain later; milder.
2 E. England	
3 E. Midlands	
4 W. Midlands	
5 S.W. England	Fresh or strong southeast wind, gale on coasts veering southwest.
6 South Wales	
7 North Wales	and decreasing; some rain; mild.
8 N.W. England	
9 N. Midlands	
10 N.E. England	Fresh or strong southeast wind gale locally on coast veering south to southwest and decreasing later; some rain; milder.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13 A. W. Scotland	Fresh or strong southeast wind gale on coasts veering southwest
13 B. N.W. Scotland	and decreasing; some rain; mild temporarily.
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

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

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  
 = Cold Front on the Surface  
 = Warm Front above the ground  
 = 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.

GENERAL INFERENCE.

An intense depression west of Ireland is moving slowly north-northeast. There will be strong winds and gales in many places. Rain will spread from the west to all districts.

FURTHER OUTLOOK.

Unsettled.  
Warning of southerly gale in districts 5, 6, 7, 8, 12, 17, 18, 19, 20 at 2300h 8.11.41, districts 13 A&B at 0100h 9.11.41 and districts 1, 10, 11, 15 & 16 0845h 9.11.41.

Forecasts issued at 10.30h G.M.T.

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

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

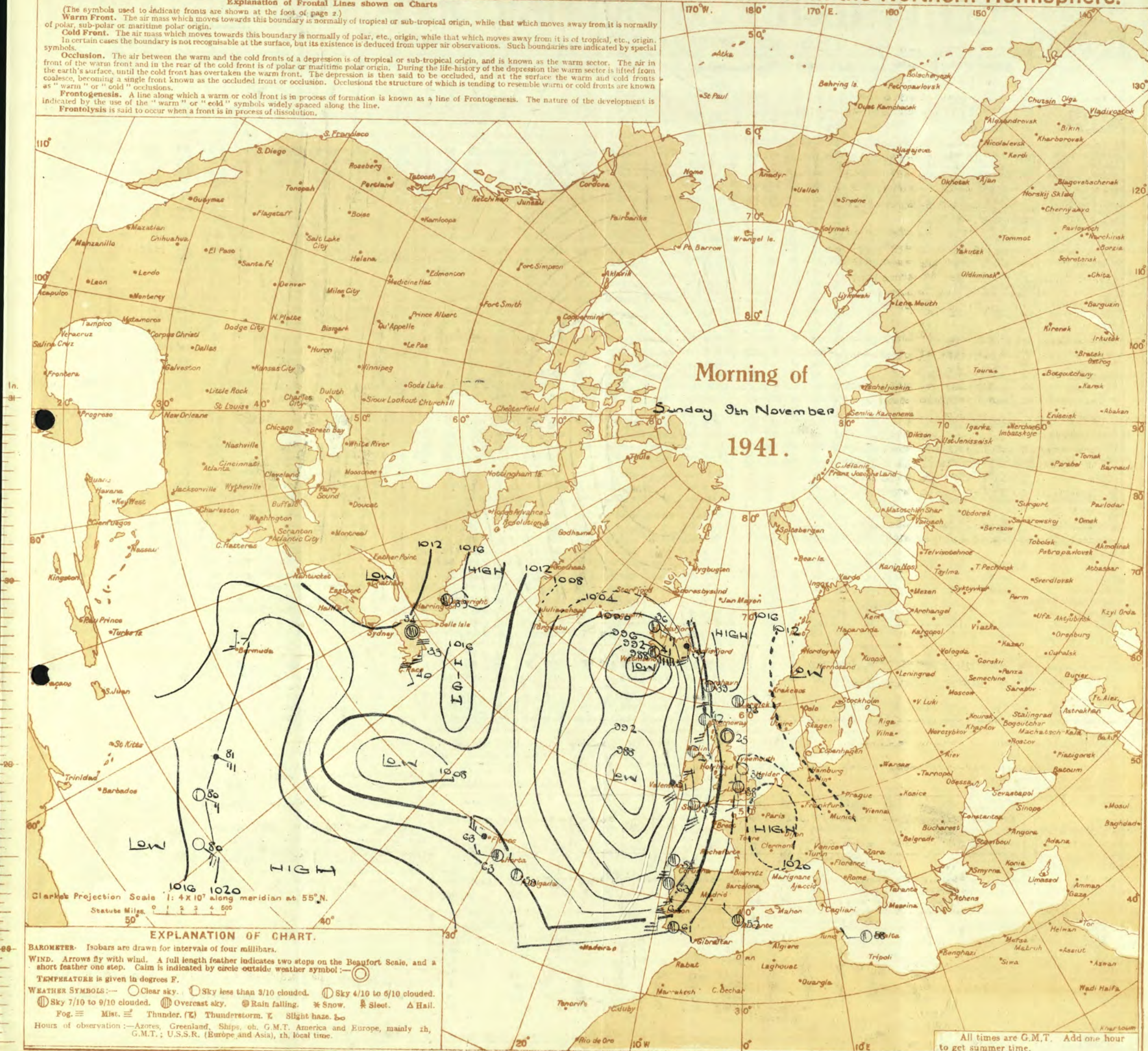
0-269/4120. No. 0176. O. 8034. Op. 348. 3700. 8/41



# 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 at the foot of page 2.)  
**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.





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

OBSERVATIONS at 1 hr. G.M.T. 29th November.....														OBSERVATIONS at 7 hr. G.M.T. 29th November.....														PAST 24 HOURS.										
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather. (6)	Temp. °F. (8)	Humid. % (7)	Visibility. 0-9 (9)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather. (20)	Temp. °F. (21)	Humid. % (22)	Visibility. 0-9 (23)	Cloud.					Barom. at M.S.L. (29)	Change in 3 hours. (30)	TEMPERATURE.		RAINFALL.		SUN-SHINE Hrs. (36)			
					Direc. (3)	Force. (4)					Form. (10)	Amount. (11)	Height of Base. (feet) (12)	Direc. (17)	Force. (18)			Form. (24)	Amount. (25)					Height of Base. (feet) (26)	Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Day 7h-18h mm. (34)			Night 18h-7h mm. (35)							
																																Low. (13)	Med. (14)	Low. (23)		Med. (24)	High. (25)	Low. (34)
1	London (Kew) ...	18	1016.5	-22	SSE	2	36	76	6	-	-	-	6	0	9	-	1010.8	-24	ESE	2	2	38	85	5	5	4	6	4-6	2500	1	*	47	34	22	-	Tr	3.8	
	Croydon ...	217	1016.5	-22	SSE	2	36	76	6	-	-	-	6	0	9	-	1011.3	-24	ESE	3	2	40	86	7	5	4	6	4-6	2500	1	*	47	34	29	-	-	0.0	
	S. Farnborough ...	226	1015.8	-26	ESE	2	35	72	4	-	-	-	8	0	4-6	-	1010.0	-18	ESE	3	2	39	82	6	5	7	5	1	1000	0	*	50	32	23	-	-	4.1	
	Boscombe Down ...	417	1015.0	-32	E	3	37	72	6	-	-	-	3	7	0	10	-	1009.1	-28	SE'S	4	2	43	86	7	5	7	5	1	1000	0	*	48	35	30	-	-	3.2
	Thorney Island ...	10	1015.0	-28	E	2	40	72	5	5	-	-	7	1	10	2500	-	1009.3	-18	SE'S	4	2	46	75	8	7	3	1	2-3	5700	0	*	53	37	31	-	-	*
	Lympne ...	346	1018.7	-18		0	35	85	5	-	-	-	6	0	2-3	-	1013.7	-26	SE	4	2	40	75	8	7	2	0	9	-	1	54	45	30	19	-	-	6.7	
	Manston ...	154	1017.9	-18	SE'S	1	36	75	6	-	-	-	-	0	0	-	1013.2	-24	SSE	2	2	39	75	6	7	2	0	2-3	-	1	*	44	30	15	-	-	7.7	
2	Shoeburyness ...	11	1017.9	-14		0	27	97	5	-	-	-	5	0	4-6	-	1013.2	-22	SSE	3	bc	40	85	7	7	7	0	4-6	-	1	*	47	26	19	-	-	7.7	
	Felixstowe ...	15	1018.1	-14		0	33	75	4	-	-	-	5	0	4-6	-	1012.6	-34	SSE	4	c	42	65	7	7	7	0	4-6	-	1	3	45	28	19	-	Tr	7.7	
	Gorleston ...	5	1019.0	-8	W'S	2	32	85	5	-	-	-	-	0	0	-	1014.6	-24	ESE	4	bc	43	65	7	7	7	0	4-6	-	0	3	45	30	27	-	-	*	
	Mildenhall ...	19	1017.8	-16	SE	2	28	97	4	-	-	-	6	0	4-6	-	1013.0	-22	SE'E	2	2	31	85	6	7	6	0	4-6	-	0	*	44	24	16	-	Tr	6.9	
	Cranwell ...	240	1016.8	-22	S	2	29	85	4	-	-	-	1	0	Tr	-	1012.0	-22	SE	2	2	27	97	4	5	7	2-3	10	2500	3	*	45	23	18	-	-	7.3	
3	Birmingham ...	535															1008.7	-36	ESE	3	c	38	85	7	7	7	0	10	-	1	*	44	35	32	-	-	0.0	
	Upper Heyford ...	408	1015.5	-22	E	2	35	85	3	-	-	-	7	0	10	-	1010.1	-26	SE'E	2	2	37	85	6	5	7	8	1	94	5500	1	*	48	34	31	-	-	*
4	Ross-on-Wye ...	223															1009.2	-12	SE	4	c	42	85	6	5	1	1	10	2000	1	*	46	41	38	-	-	0.7	
5	Hartland Point ...	299	1009.4	-38	E	3	bc	46	75	8	5	-	-	4-6	4-6	2500	1001.6	-30	SE	4	c	49	85	8	5	-	-	10	10	2000	0	4	51	43	40	-	-	0.2
	Bristol ...	209	1014.0	-30	ESE	3	2	40	85	5	3	8	2-3	10	3000	1007.5	-12	SSE	3	2	44	85	6	7	7	-	2-3	10	3000	0	*	49	37	30	-	-	0.8	
	Portland Bill ...	32	1012.5	-32	SE	5	c	47	92	8	5	-	-	10	10	2500	1006.8	-28	S	6	c	46	92	8	5	7	-	7-8	10	2500	1	5	53	44		-	-	*
	Plymouth ...	82	1010.8	-30	ESE	5	2	51	75	6	5	2	-	7-8	10	2000	1002.1	-38	SE	6	pr	56	75	7	5	1	94	10	1600	0	5	53	43	37	-	Tr	2.8	
	The Lizard ...	240	1007.9	-40	SE	8	c	51	85	8	2	-	7-8	10	1500	1000.3	-30	SE	6	pr	51	85	8	8	2	-	7-8	10	1500	1	5	54	48		-	Tr	6.0	
	Scilly (St. Mary's) ...	163	1008.2	-44	SSE	6	c	52	85	8	8	-	-	10	10	1500	996.5	-42	SSE	6	pr	52	92	8	8	2	-	7-8	10	1200	1	5	53	50		-	0.5	3.3
	Guernsey ...	175																																				
6	Pembroke ...	142	1008.2	-24	SE	8	cy	50	85	8	6	-	7-8	10	2500	999.5	-44	SE	8	ir	50	85	7	8	2	-	7-8	10	2000	1	5	51	42		0.4	Tr	0	
7	Holyhead (Valley) ...	26	1010.0	-20	SSE	4	c	46	85	7	5	1	2-3	10	2000	1002.0	-42	SE	4	c	47	65	7	5	-	-	10	10	4000	0		46	43	41	-	0.4	*	
	Chester (Sealand) ...	16	1013.1	-28	SE'S	3	2	43	85	5	5	1	7-8	10	3000	1006.3	-38	ESE	4	2	41	85	6	5	-	-	10	10	2500	1	*	49	41	37	-	-	2.2	
8	Manchester ...	235	1014.2	-26	SE	4	2	41	75	6	5	-	10	10	4000	1008.2	-32	SE'E	4	2	41	75	6	5	1	-	7-8	94	3000	1	*	43	33	31	-	-	*	
10	Spurn Head ...	29	1017.0	-10	S	2	b	36	75	7	-	-	-	0	0	-	1012.6	-18	SE	4	bc	39	75	7	5	4	1	2-3	4-6	4000	0	3	43	39		-	6	7.2
	Catterick ...	175	1016.7	-18		0	m	24	97	4	-	-	-	0	0	-	1011.3	-26	SSE	2	c	31	85	6	5	1	-	9	94	3500	3	*	45	24	15	-	-	8.0
	Tynemouth ...	108	1016.4	-20	WNW	3	m	32	85	4	-	-	-	0	0	-	1012.1	-24	S	3	2	36	65	6	5	-	-	94	94	2500	1	4	42	31	29	-	-	*
11	St. Abbs Head ...	280	1014.8	-20	SW	3	bc	34	85	7	4	-	2-3	2-3	2500	1009.3	-30	S	4	c	36	75	7	5	7	-	4-6	7-8	2500	0	3	41	38		-	-	*	
	Leuchars ...	36	1014.7	-20		0	fg	25	97	6	-	-	8	0	7-8	-	1009.5	-20	SE	5	c	38	75	8	-	-	7	0	10	-	3	*	42	25	18	-	-	8.0
12	Renfrew (Abbots L.) ...	19	1013.1	-24	ENE	2	2	35	97	4	5	-	-	10	10	3000	1006.2	-32	E	4	2	37	75	5	5	1	-	9-6	10	3000	1	*	41	29	22	-	-	0.9
	Eskdalemuir ...	794															1009.4	-40	N	1	0	33	85	6	5	-	-	10	10	1500	3	*	42	22	14	-	-	7.5
	Point of Ayre ...	30	1010.8	-24	SSE	6	2	45	85	6	2	-	7-8	10	2000	1003.2	-32	SSE	7	ir	46	85	6	6	2	-	4-6	10	800	1		46	44		-	Tr	0.4	
13A	Tiree ...	22	1008.6	-34	SE'S	5	c	43	85	8	5	*	7-8	7-8	1800	998.6	-32	SE'E	6	rr	42	92	7	7	2	-	10	10	1500	0	6	45	42		-	0.2	3.8	
13B	Stormoway ...	80	1009.9	-24	SSE	5	c	42	85	8	5	7	-	7-8	10	2500	1002.5	-38	SSE	5	c	44	75	8	5	7	-	7-8	10	2								



THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
BRITISH SECTION  
Monday 10th November 1941.  
No 92208

OBSERVATIONS at 13h. G.M.T. 9th November															OBSERVATIONS at 18h. G.M.T. 9th November															PAST 24 HOURS.							
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	° Humid.	Visibility. 0-9	Cloud.					Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	° Humid.	Visibility. 0-9	Cloud.					Barom. at M.S.L. mb.	Change in 3 hours.	State of Ground. 0-9	Sea. 0-9	WEATHER.					
				Direc.	Force. 0-12					Low.	Med.	High.	Low 0-10	Total 0-10			Height of Base (feet)	Direc.					Force. 0-12	Low.	Med.	High.	Low 0-10					Total 0-10	Height of Base (feet)	7h.—13h. 9th.	13h.—18h. 9th.	18h.— 1h.—10th.	1h.—7h. 10th.
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lympe ... Manston ...	1004.9 1005.0 1003.3 1001.9 1003.9 1007.8 1010.0	-34 -34 -32 -30 -30 -22 -18	SE'E SE SE'E SE'E SE SE SE	3 3 4 6 5 4 4	ca c bc c bc ca ca	45 46 48 47 48 43 42	55 55 65 75 65 65 55	6 7 8 7 7 6 6	- - - 5 1 - -	7 7 7 7 9 3 3	6 6 8 6 4 3 2	0 0 0 1 1 4 0	9 7.8 4.6 9 2500 4.6 4.6	1004.4 1004.8 1005.3 1006.7 1007.7 1002.0 1002.6	-20 -22 -30 -22 +26 -12 -30	SE'E SE SE SE SE SE ESE	3 3 4 5 5 5 5	ca bc bc bc bc bc bc	41 41 41 41 38 41 43	55 55 55 55 85 65 67	6 6 6 6 7 6 6	- - - - 4 - -3	1 1 1 1 2 0 4	0 2.3 0 0 0 2.3 4.6	- - - - - - -	1 1 0 0 0 1 1	*	*	*	*	*	beezy cybcy mabe c bc beezybc	cbcbzy cybcy beeby beeby beeby beeby beeby	bbeezy bze bze bze bze bze bze	cgcbzy cgcb cgcb cgcb cgcb cgcb cgcb	
2	Shoeburyness ... Felixstowe ... Gorleston ... Mildenhall ... Cranwell ...	1007.8 1008.0 1009.6 1006.8 1006.2	-24 -32 -32 -28 -32	SE'E SE'S SE'E SE SE	3 6 6 5 5	c bc c c ca	44 46 45 39 40	65 58 55 92 72	8 8 7 7 6	5 - - - -	3 4 7 7 7	4 8 1 0 0	4.6 4.6 7.8 9 10	7.8 4.6 7.8 9 10	7100 1003.1 1003.5 1005.0 1002.0 1001.5	-24 -28 -18 -26 -14	SE SE'E SE'E SE'E SE'E SE'E	6 7 6 5 5 5	c bc bc c c c	43 43 45 42 38	75 75 65 65 75 75	7 7 6 7 5	5 - - - - -	1 0 4.6 0 0	5700 4.6 2800 0 0	1 1 6 0 0	5 5 6 0 0	*	*	*	*	*	bee bee beezy c c c	bee bee bee bee bee bee	bbee bbee bbee bbee bbee bbee	cgcb cgcb cgcb cgcb cgcb cgcb	
3	Birmingham Upper Heyford	1003.0 1003.6	-34 -34	ESE E	4 3	c ca	42 45	75 65	7 6	2 -	- -	4.6 0	10 9	1500 -	1003.7 1003.7	0 -38	ESE E'S	4 3	c ca	41 38	65 65	6 5	- -	7 7	- -	0 2.3	- -	1 1	*	*	c c	c c	bce beezy	bee bee	cgcb cgcb		
4	Ross-on-Wye	1000.6	-34	SE'E	4	c	47	65	8	-	7	-	0	9	-	1000.7 1000.7	-20 -20	ESE ESE	4 4	c bc	43 43	65 65	5 5	4 2	- -	0 1.4	3500 3500	1	*	*	c c	c c	bee bee	cgcb cgcb			
5	Hartland Point Bristol ... Portland Bill ... Plymouth ... The Lizard ... Scilly (St. Mary's) Guernsey ...	994.8 1000.9 999.0 995.5 992.9 990.3	-34 -34 -56 -40 -32 -30	SE ESE ESE SE SE SSE	4 5 6 6 6 6	c c c c c c	51 49 51 53 52 53	65 58 92 85 85 92	8 7 8 8 8 6	5 7 7 1 2 5	6 7 7 7 7 2	- 4 7 7 7 4	4.6 7.8 7.8 7.8 7.8 4.6	1500 3000 4000 2500 1500 700	983.8 985.8 984.2 983.8 987.7 984.4	-20 -14 -12 -18 -36 -30	ESE ESE E SE SE SE'S	5 6 6 4 6 6	c bc bc c c c	48 42 49 53 53 52	75 75 92 75 75 97	8 7 8 7 6 5	4 - - - - -	4.6 2.3 4.6 4.6 10 7.8	1500 5700 4000 2500 1000 800	0 0 4 1 1 1	5 5 4 5 5 5	*	*	*	*	*	c c c c c c	bee bee bee bee bee bee	cgcb cgcb cgcb cgcb cgcb cgcb		
6	Pembroke	992.8	-24	SE	9	c	50	85	7	8	2	-	7.8	10	2000	986.3	-4	SE	9	c	51	85	7	8	4	1	2.3	2500	5	c	c	bee bee	cgcb cgcb				
7	Holyhead (Valley) Chester (Sealand)	993.8 1000.3	-50 -36	ESE ESE	6 4	c ca	50 43	55 75	8 5	7 5	- 2	- -	7.8 9	4000 1000	989.4 986.7	-24 -14	ESE SE'E	6 5	c ca	51 43	45 65	8 5	7 2	- -	7.8 7.8	10 2000	0 1	5 5	*	*	c c	c c	bee bee	cgcb cgcb			
8	Manchester	1002.0	-40	ESE	4	c	42	65	7	5	7	-	4.6	10	5000	986.9	-28	ESE	4	c	42	65	6	5	-	4.6	10	3500	1	*	c	c	bee bee	cgcb cgcb			
10	Spurn Head Catterick Tynemouth	1007.1 1005.5 1006.6	-30 -38 -16	SSE SSE SSE	6 4 6	c ca c	44 38 42	75 65 65	7 6 7	5 5 5	1 2 -	- -	4.6 9	2500 2000 2500	1002.5 1001.6 1001.3	-14 -16 -20	SE SE'S SSE	7 4 8	c c c	44 40 45	85 75 65	7 6 7	5 7 5	- - -	10 4.6 9	10 3500 2200	0 0 1	5 5 5	*	*	c c	c c	bee bee	cgcb cgcb			
11	St. Abbs Head Leuchars	1005.0 1004.2	+16 -28	S SE	5 5	c c	40 39	75 85	6 6	5 2	2 -	- -	7.8 10	2500 2500	983.7 983.6	-16 -28	S ESE	8 8	c c	44 44	85 75	7 6	5 7	- -	7.8 8	1500 1200	1 2	4 5	*	*	c c	c c	bee bee	cgcb cgcb			
12	Renfrew (Abbots L.) Eakdalemuir Point of Ayre	1000.8 1002.2 997.1	-30 -40 -32	ESE SE SSE	4 4 8	c c c	40 36 46	75 85 97	6 6 7	5 5 6	2 2 2	- -	7.8 10 9	2000 1500 1000	986.3 986.7 981.8	-14 +16 -24	E'S SE SSE	4 6 8	c c c	41 37 45	65 65 75	4 6 6	5 5 6	- - -	10 7.8 7.8	10 1500 1000	1 1 0	5 5 5	*	*	c c	c c	bee bee	cgcb cgcb			
13A	Tiree	991.0	-36	SE'E	7	c	43	97	6	5	2	-	10	10	1200	987.2	-2	SE	7	c	43	92	6	2	-	10	10	1200	1	5	c	c	bee bee	cgcb cgcb			
13B	Stornoway	996.4	-30	SE	7	c	45	65	7	5	2	-	7.8	10	2000	980.5	-18	SE	7	c	45	85	7	5	-	7.8	10	1500	1	5	c	c	bee bee	cgcb cgcb			
15	Dalwhinnie Aberdeen	999.6 1005.5	-46 -26	SE SE	6 6	c c	32 44	85 65	4 6	5 5	- -	- -	10 10	1500 1700	985.0 1001.5	+24 +14	SE SSE	7 5	c c	33 45	85 65	5 6	5 2	- -	7.8 10	1500 1700	4 1	4 4	*	*	c c	c c	bee bee	cgcb cgcb			
16	Wick Sumburgh	1004.4 1009.3	-26 -18	SSE SE	6 5	c c	45 42	65 55	9 8	5 5	1 1	- -	4.6 9	2500 2500	1000.0 1006.2	-26 -14	SE SE	8 5	c c	46 43	75 55	7 8	5 5	- -	9 10	2000 1800	1 1	4 4	*	*	c c	c c	bee bee	cgcb cgcb			
17	Blacksod Point	982.4	+10	SE	4	c	54	92	6	6	-	-	10	10	800	982.4	0	-	0	49	92	6	6	-	10	10	800	2	5	c	c	bee bee	cgcb cgcb				
18	Malin Head Aldergrove	986.5 991.3	-44 -42	SSE SE'E	7 6	c c	46 47	85 75	6 7	9 5	- -	- -	9 10	800 1600	983.0 987.6	-4 -16	SSE ESE	7 6	c c	47 45	85 92	6 5	6 2	- -	9 4.6	800 800	1 1	5 5	*	*	c c	c c	bee bee	cgcb cgcb			
19	Birr Castle	986.3	-28	S	6	c	51	92	7	6	2	-	7.8	10	1500	982.6	-6	S	6	51	92	7	6	-	7.8	10	1500	1	5	c	c	bee bee	cgcb cgcb				
20	Valentia Obay. Roches Point	982.4 985.1	-6 -18	SE SSE	8 9	c c	52 53	97	7	6	2	-	7.8	10	800	979.4 980.1	-10 -22	SE SSE	8 8	c c	52 53	97	7	6	-	7.8	10	800	1	5	c	c	bee bee	cgcb cgcb			

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).  
 bc, sky partly cloudy (one half covered). c, generally cloudy.  
 d, drizzle. e, wet air. g, gloom.  
 f, fog, visibility 220-1100 yds.  
 F, thick fog „ less than 220 yds.  
 fa, 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.  
 ka, storm of drifting snow.  
 k/s, slight storm of drifting snow (generally low).  
 k/S, heavy storm of drifting snow (generally low).  
 s/k, slight storm of drifting snow (generally high).  
 S/k, heavy storm of drifting snow (generally high).  
 KQ, line squall. l, lightning.  
 o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.  
rs, sleet. t, thunder.  
u, ugly, threatening sky.  
v, unusual visibility. w, dew.  
x, hoar frost. y, dry air.  
z, dust haze: the turbid atmosphere  
of dry weather.

h(r), "hail" or "rain and hail."  
Capital letters indicate intense;  
suffix & indicates slight; repetition  
of letters indicates continuity: thus  
R, heavy rain. r<sub>o</sub>, slight rain.

rr, continuous rain.

<, less than (for cloud height). /galo.  
⊕ Solar halo. ⊙ Lunar halo. ☌ Aurora.

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

A "solidus" divides actual exist-  
ing weather from preceding con-  
ditions thus: —bc/r, fair weather  
after rain; —, has decreased;  
+, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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

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

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

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

4 Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

---

Cloud form abbreviations :—

Cirrus, -Ci :      Cirrocumulus, -Cc :      Cirrostratus, -Cs :  
Stratocumulus, -Sc :      Stratus, -St :      Nimbostratus, -Ns :

COLUMN 29 — STATE OF GROUND.

COLUMBIA		STATE OF NEW YORK	
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., but ground frozen.
2	" flooded.	9	" covered with snow greater than 6 ins. deep.
3	" frozen hard and dry.	-	Fresh snow has fallen in the mountains.
4	" partly covered with snow or hail.		
5	" covered with ice or glazed frost.		
6	" covered with thawing snow.		

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

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

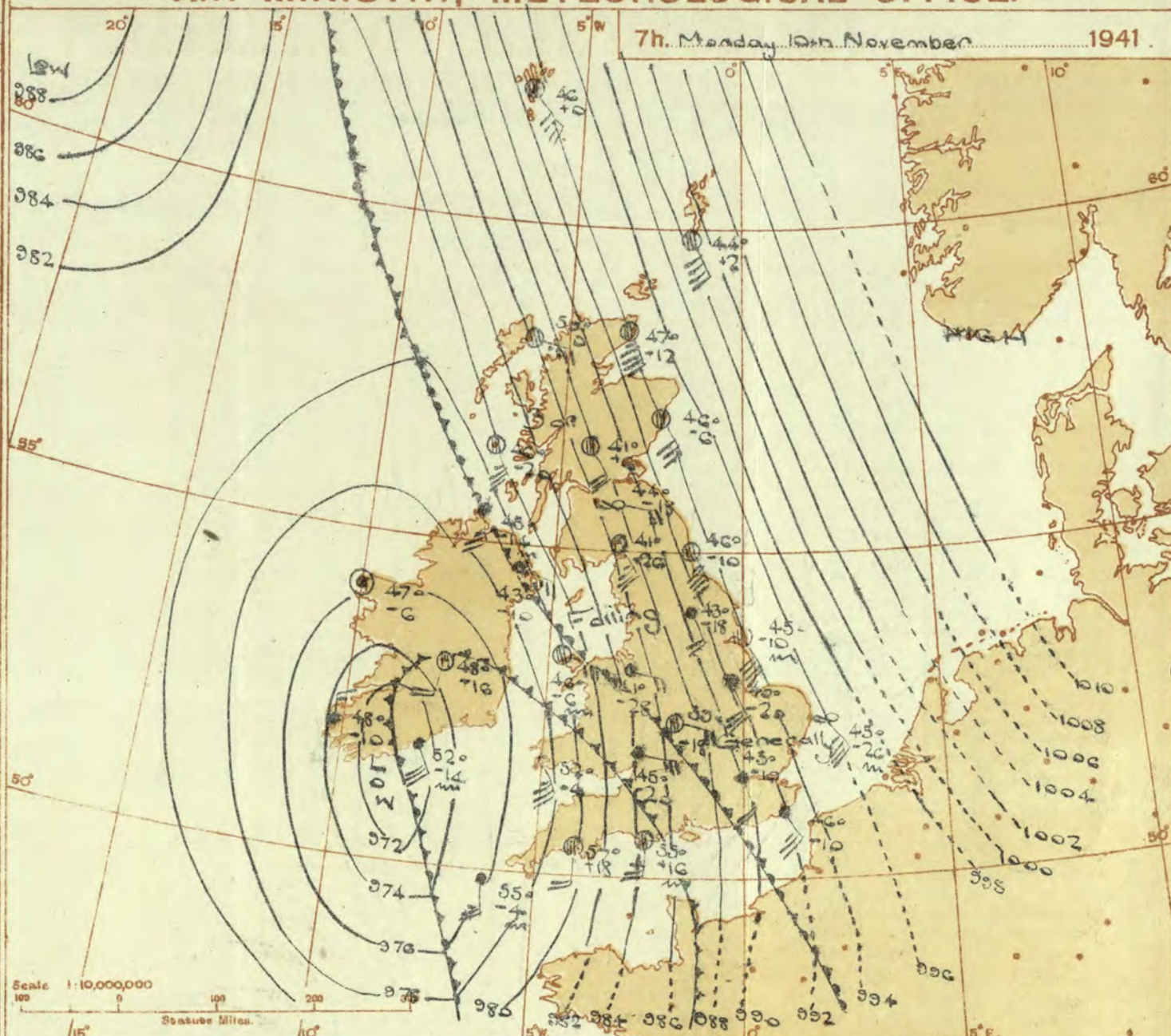


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 9th November 1941							01h. G.M.T. 10th November 1941							07h. G.M.T. 10th November 1941						
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN					
109	5-	61858	45768	52	22744	45868	52	02745	43828											
115	57	14834	45827	52	81834	45787	52	62734	45887	52	15834	45767								
203				6-	72738	12628														
206	52	02854	12528	52	61644	45668	52	02858	45868	57	02854	45926								
210	57	02765	45828	57	02848	45828	57	02858	44828	54	01854	44825								
220	62	76555	15768	62	66635	14768				62	61636	13768								
230	52	62643	10468	52	62644	07168	57	05655	43468	57	05654	06526								
245	57	02765	47728	52	14757	15868	57	05665	47826	57	05656	45827								
260	52	62744	10578	52	02765	10568	54	02764	12425	59	02864	10426								
272	52	22647	45768	52	62635	45668	57	02744	45767	57	63845	43667								
279	5-	02755	45668	57	05664	03528	07	02790	44627	57	02864	45726								
285										5-	05648	04628								
288	52	02762	13328	52	02763	14528	07	02790	47825	07	02790	45516								
315	62	62636	44568	52	22636	12568	62	64635	12568											
301	5-	05668	45868	5-	05568	45868	57	05663	45866	52	61644	45828								
321	57	05661	14328	57	05673	45428	03	01780	13414	52	64658	44528								
299	82	02744	12528				5-	01744	12814	8-	01745	12715								
292	02	05690	11328	02	05677	11427	07	05690	10315	5-	05648	43428								
310										--	66428	08668								
312				07	05690	45524	07	05690	43527	5-	61548	43768								
333	52	02851	12827	57	22864	10728	02	64690	10668	62	61743	66668								
334										--	64547	10568								
340	5-	05648	12628	07	05690	45425	07	05690	45516	62	66437	43668								
136	07	02890	13527				00	02890	11516											
336										62	64653	12468								
350				57	05664	41525	07	05690	41615	62	54536	43668								
368	57	02665	45528	50	01753	13613	5-	02644	46568	5-	62648	12568								
379	07	02890	45528	03	05690	12814				02	64408	45668								
390	07	05690	12526	07	05690	45525	07	05690	42527	52	61656	10568								
382	09	02890	45526	07	05690	10425	03	05690	10317	62	22628	43468								
428	07	01790	12513							02	67119	12869								
430	10	02851	11515	03	05690	12612	52	02775	08628	6-	61638	11568								
409	57	22842	11767	57	02741	46767	57	62643	44768	52	61636	49568								

III - Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W - Present and past weather—See M.O. 252.  
h, N<sub>h</sub> - Height and amount of low cloud—See M.O. 252.  
N - Total amount of cloud—See M.O. 252.  
C<sub>M</sub> - Form of low and medium cloud—See page 1.  
V - Visibility. F - Force of wind—See page 4.  
DD - Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday 10th November 1941
1 S.E. England	Fresh or strong S.E. wind, gale locally on coast, veering S. to S.W. and decreasing; occasional rain; some bright intervals; becoming somewhat milder.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	Fresh S. wind veering S.W. strong locally; occasional rain; bright intervals; local hail and thunder; average temperature.
5 S.W. England	
6 South Wales ...	
7 North Wales ...	Fresh or strong S.E. wind, gale on coasts, veering South later; rain at first; some clear intervals and showers later; temperature rising slowly.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Fresh or strong S.E. wind gale on coasts; occasional rain; rather cold.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	Winds becoming variable finally W. or N.W. fresh or strong locally; some rain; local hail and thunder; becoming rather cold.
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

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

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.

GENERAL INFERENCE.

Pressure is high to the E. and N.E. of the British Isles. A deep depression off S.W. Ireland will probably move slowly N. Weather will be dull with occasional rain but some bright intervals are expected later in the South.

FURTHER OUTLOOK.

Unsettled; occasional rain. Gale warning in operation in districts 1, 2, 5, 6, 7, 8, 10, 11, 12, 13(a and b), 15, 16, 17, 18, 19, and 20. Times of issue: 2300 on 8/11/41; 0415, 0845 and 2005 on 9/11/41

Forecasts issued at 1030 G.M.T.

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

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

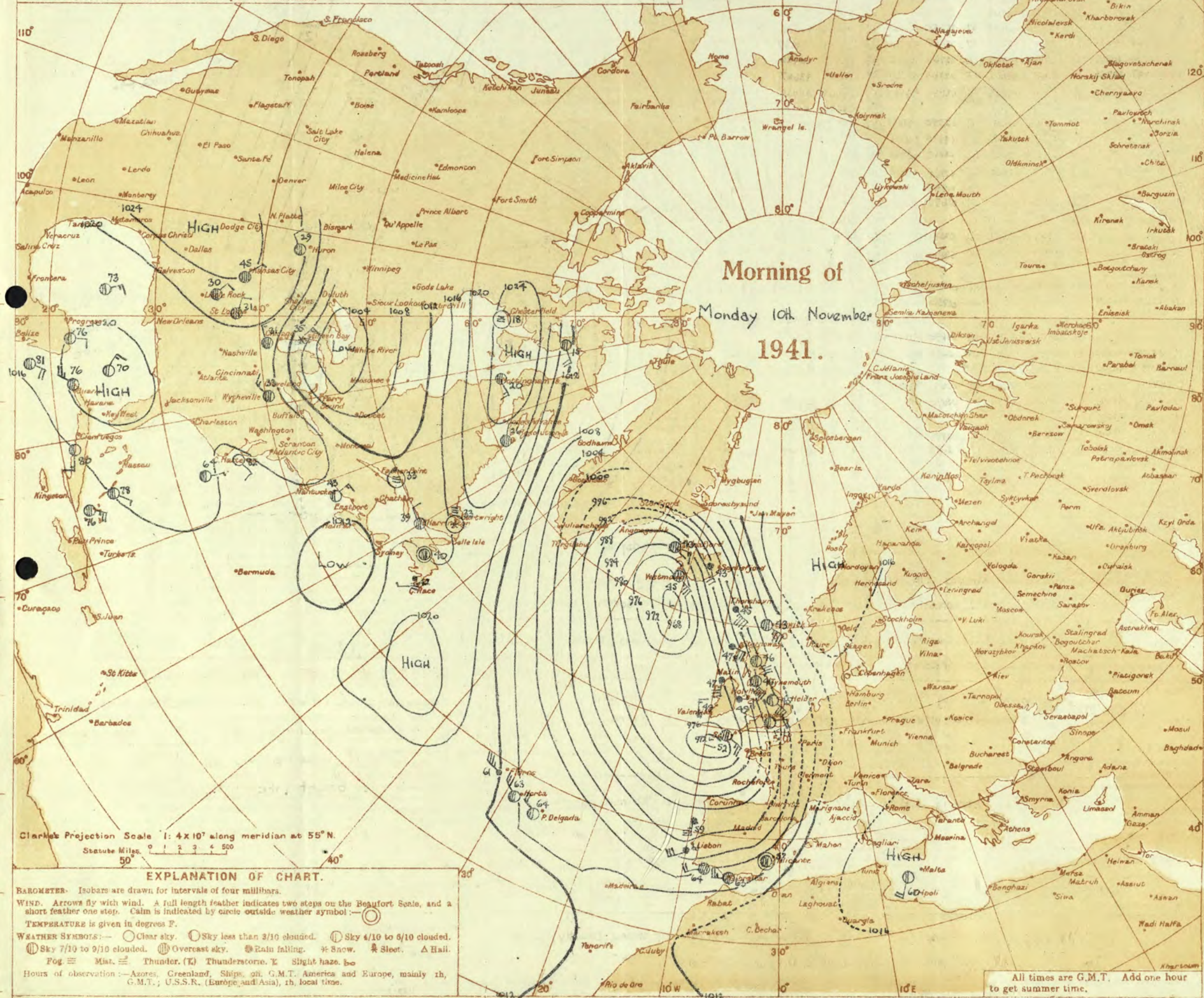
4249/4120. W. 8/76. D. 6034. G. 348. 3300. 8/41



# 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 at the foot of page 2.)  
**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.





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 10th November 1941.

No. 22,208

OBSERVATIONS at 1 hr. G.M.T. 10th November														OBSERVATIONS at 7 hr. G.M.T. 10th November														PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. (22)	Cloud.					State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		Sun-shine Hrs. (36)	
					Direc.	Force.					Low.	Med.	High.	Total.	Height of Base. (feet).			Direc.	Force.					Low.	Med.	High.	Total.	Height of Base. (feet).			Max. Day 7h-15h °F. (31)	Min. Night 15h-7h °F. (32)	Min. on Grass °F. (33)	Day 7h-18h mm. (34)	Night 18h-7h mm. (35)		
																																					0-12
1	London (Kew)	18	30.3.4	-3.0	ESE	4	4	75	7	3	0	0	0	30.3.4	-1.2	ESE	3	4	44	32	5	0	2	2	7.8	10	15.00	1	47	44	33	0	0.3	2.8			
	Croydon	217	30.2.1	-3.0	ESE	4	4	75	7	3	0	0	0	30.2.1	-1.0	ESE	4	4	45	37	6	0	2	2	4.2	10	5.00	1	48	40	35	0	0.1	1.6			
	S. Farnborough	226	30.2.1	-3.0	ESE	4	4	75	7	3	0	0	0	30.2.1	-1.0	ESE	4	4	46	37	6	0	2	2	4.2	10	5.00	1	48	38	34	0	0.2	3.2			
	Boscombe Down	417	30.2.1	-3.0	ESE	4	4	75	7	3	0	0	0	30.2.1	-1.0	ESE	4	4	46	37	6	0	2	2	4.2	10	5.00	1	47	38	35	0	0.2	1.6			
	Thorney Island	10	30.1.0	-3.4	NW	4	4	75	7	3	0	0	0	30.1.0	-1.0	ESE	4	4	52	32	6	5	7	7	0	10	15.00	1	50	42	39	0	0.1	1.6			
	Lympne	346	30.7.0	-2.0	ESE	5	5	75	7	3	0	0	0	30.7.0	-1.0	ESE	5	5	46	37	6	0	2	2	4.2	10	25.00	1	45	39	35	0	0.1	5.6			
	Manston	154	30.6.5	-2.0	ESE	5	5	75	7	3	0	0	0	30.6.5	-1.8	ESE	5	5	43	35	6	5	2	2	7.8	10	20.00	1	44	39	35	0	0.1	4.4			
2	Shoeburyness	11	30.7.7	-3.0	ESE	5	5	75	7	3	0	0	0	30.7.7	-1.0	ESE	5	5	43	35	6	5	2	2	7.8	10	32.00	1	45	43	36	0	0.1	4.4			
	Felixstowe	15	30.7.7	-3.0	ESE	7	7	75	7	3	0	0	0	30.7.7	-2.8	ESE	6	6	44	35	7	5	2	2	4.2	10	20.00	1	47	43	39	0	0.1	4.4			
	Gorleston	5	10.0.0	-3.2	ESE	7	7	75	7	3	0	0	0	10.0.0	-2.0	ESE	7	7	45	75	6	5	2	2	4.2	10	25.00	0	46	43	40	0	0.1	4.4			
	Mildenhall	19	30.6.4	-3.0	ESE	5	5	75	7	3	0	0	0	30.6.4	-1.0	ESE	5	5	44	75	7	5	2	2	4.2	10	4.00	1	45	43	33	0	0.1	0.6			
	Cranwell	240	30.6.7	-3.0	ESE	5	5	75	7	3	0	0	0	30.6.7	-2.0	ESE	5	5	40	75	6	5	2	2	7.8	10	4.00	1	44	36	34	0	0.5	0.1			
3	Birmingham	535	30.2.2	-3.0	ESE	4	4	75	7	3	0	0	0	30.2.2	-1.8	ESE	4	4	40	37	5	0	2	2	7.8	10	8.00	1	43	37	32	0	0.1	0.0			
	Upper Heyford	408	30.2.2	-3.0	ESE	4	4	75	7	3	0	0	0	30.2.2	-1.2	ESE	3	4	40	37	5	0	2	2	7.8	10	7.00	1	46	37	32	0	0.1	0.0			
4	Ross-on-Wye	223	30.2.2	-3.0	ESE	4	4	75	7	3	0	0	0	30.2.2	-2.0	ESE	5	4	45	37	6	0	2	2	7.8	10	15.00	1	47	38	35	0	0.1	0.0			
5	Hartland Point	299	30.2.1	-3.2	NW	6	6	75	7	3	0	0	0	30.2.1	-1.0	ESE	4	4	50	35	8	5	2	2	4.2	10	15.00	0	52	47	46	0	0.3	0.5			
	Bristol	209	30.2.1	-3.4	ESE	5	5	75	7	3	0	0	0	30.2.1	-1.0	ESE	4	4	50	32	4	5	2	2	4.2	10	8.00	1	50	43	36	0	0.1	0.6			
	Portland Bill	32	30.6.4	-4.4	ESE	6	6	75	7	3	0	0	0	30.6.4	-1.0	ESE	6	6	55	35	6	5	2	2	4.2	10	25.00	0	51	47	47	0	0.1	0.6			
	Plymouth	82	30.1.3	-5.2	ESE	6	6	75	7	3	0	0	0	30.1.3	-1.8	ESE	6	6	57	32	7	5	2	2	4.2	10	12.00	1	53	49	47	0	0.1	0.6			
	The Lizard	240	30.7.3	-3.4	ESE	7	7	75	7	3	0	0	0	30.7.3	-1.0	ESE	5	5	50	32	5	5	2	2	4.2	10	10.00	1	53	50	47	0	0.1	0.6			
	Scilly (St. Mary's)	163	30.7.7	-2.2	ESE	5	5	75	7	3	0	0	0	30.7.7	-1.0	ESE	5	5	55	32	5	5	2	2	7.8	10	8.00	1	53	52	47	0	0.1	0.6			
	Guernsey	175	30.7.7	-2.2	ESE	5	5	75	7	3	0	0	0	30.7.7	-1.0	ESE	5	5	55	32	5	5	2	2	7.8	10	8.00	1	53	52	47	0	0.1	0.6			
6	Pembroke	142	30.1.5	-3.0	ESE	5	5	75	7	3	0	0	0	30.1.5	-1.0	ESE	7	7	52	37	7	8	2	2	7.8	10	15.00	1	52	43	36	0	0.1	0.0			
7	Holyhead (Valley)	26	30.4.6	-2.0	ESE	2	2	75	7	3	0	0	0	30.4.6	-1.0	ESE	6	6	40	35	8	5	2	2	7.8	10	25.00	1	52	44	36	0	0.1	0.0			
	Chester (Sealand)	16	30.1.3	-3.4	ESE	5	5	75	7	3	0	0	0	30.1.3	-2.8	ESE	4	4	41	32	5	5	2	2	7.8	10	20.00	1	44	38	34	0	0.1	0.0			
8	Manchester	235	30.2.0	-2.2	ESE	6	6	75	7	3	0	0	0	30.2.0	-1.4	ESE	7	7	40	32	7	6	2	2	7.8	10	20.00	1	43	39	36	0	0.1	0.0			
10	Spurn Head	29	30.8.0	-4.4	ESE	8	8	75	7	3	0	0	0	30.8.0	-1.0	ESE	8	8	45	35	7	8	2	2	7.8	10	15.00	0	44	37	34	0	0.1	0.7			
	Catterick	175	30.7.1	-2.2	ESE	3	3	75	7	3	0	0	0	30.7.1	-1.8	ESE	4	4	43	35	6	5	2	2	7.8	10	25.00	0	40	39	34	0	0.1	0.0			
	Tynemouth	108	30.5.5	-2.0	ESE	5	5	75	7	3	0	0	0	30.5.5	-1.0	ESE	5	5	46	75	7	8	2	2	7.8	10	25.00	1	45	45	42	0	0.1	0.0			
11	St. Abbs Head	280	30.5.2	-1.0	ESE	8	8	75	7	3	0	0	0	30.5.2	-1.0	ESE	8	8	46	35	7	8	2	2	7.8	10	20.00	0	44	43	36	0	0.1	0.0			
	Leuchars	36	30.6.4	-1.4	ESE	8	8	75	7	3	0	0	0	30.6.4	-1.0	ESE	7	7	46	75	6	5	2	2	7.8	10	18.00	1	44	43	40	0	0.1	0.0			
12	Renfrew (Abbots L.)	19	30.2.3	-1.4	ESE	4	4	75	7	3	0	0	0	30.2.3	-1.8	ESE	4	4	44	35	6	5	2	2	4.2	10	3.00	1	41	39	33	0	0.1	0.0			
	Esksdalemuir	794	30.2.3	-1.4	ESE	4	4	75	7	3	0	0	0	30.2.3	-2.2	ESE	7	7	41	35	7	5	2	2	4.2	10	15.00	1	37	36	35	0	0.1	0.0			
	Point of Ayre	30	30.8.4	-1.0	ESE	8	8	75	7	3	0	0	0	30.8.4	-1.0	ESE	8	8	46	75	7	5	2	2	7.8	10	20.00	0	46	44	42	0	0.1	0.0			
13A	Tiree	22	30.4.4	-1.2	ESE	7	7	75	7	3	0	0	0	30.4.4	-2.0	ESE	7	7	40	35	7	5	2	2	7.8	10	18.00	0	43	43	36	0	0.1	0.0			
13B	Stornoway	80	30.7.4	-1.0	ESE	6	6	75	7	3	0	0	0	30.7.4	-1.0	ESE	7	7	50	35	7	8	2	2	7.8	10	20.00	1	46	44	36	0	0.1	0.0			
15	Dalwhinnie	1176	30.7.4	-1.0	ESE	6	6	75	7	3	0	0	0	30.7.4	-1.0	ESE	6	6	41																		



# SECRET

BRITISH SECTION  
Tuesday 11th November 1941.  
No 29203.

Page 1.

AIR  
MINISTRY.

## THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

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

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

PAST 24 HOURS.

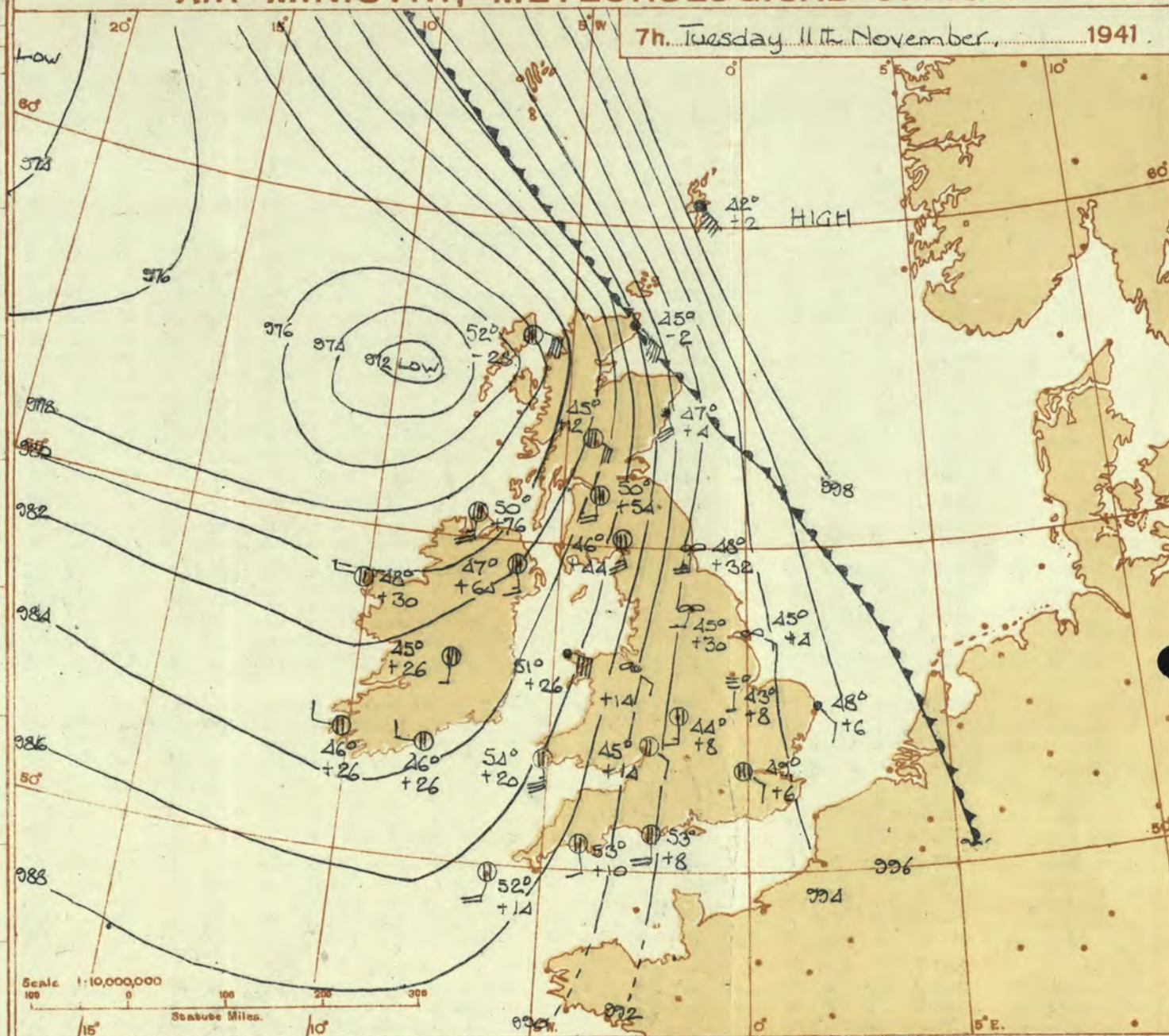
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					State of Ground. (29)	Sea. 0-9 (30)	WEATHER.					
				Direc. (3)	Force. (4)					Low. (9)	Med. (10)	High (11)	Low 0-10 (12)	Total 0-10 (13)			Height of Base. (feet) (14)	Direc. (17)					Force (18)	Low. (23)	Med. (24)	High (25)	Low 0-10 (26)			Total 0-10 (27)	Height of Base (feet) (28)	7h.—13h. 10th (37)	13h.—18h. 10th (38)	18h.—11th to 11th (39)	11h.—7h. 11th (40)
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lymington ... Manston ...	987.8 988.1 987.0 985.0 986.6 981.2 981.0	-14 -6 -8 -10 -14 -16 -14	SE S SE S SE S SE S SE S SE S SE S	3 3 3 3 4 4 4 4 4 4 3 3 4 4	54 54 53 53 53 53 53 53 55 55 50 50 48 48	92 92 92 92 97 97 97 97 97 97 97 97 92 92	6 6 7 7 6 6 6 6 7 7 5 5 7 7	2 2 2 2 2 2 2 2 2 2 2 2 2 2	7-8 7-8 5 5 7-8 7-8 9 9 4-6 4-6 10 10 4-6 4-6	10 10 10 10 600 600 500 500 2500 2500 200 200 2200 2200	988.0 987.5 987.1 985.4 987.6 981.6 982.3	+6 0 +8 +10 +10 +6 +10	SE SE SE SE SE SE SE SE SE SE SE SE SE SE	3 3 4 4 5 5 6 6 4 4 4 4 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0	55 55 55 55 55 55 55 55 56 56 51 51 51 51	85 85 85 85 85 85 85 85 85 85 87 87 87 87	6 6 7 7 7 7 7 7 7 7 6 6 5 5	5 5 5 5 5 5 5 5 5 5 6 6 5 5	- - - - - - - - - - - - - -	10 10 0 0 4-6 4-6 7-8 7-8 4-6 4-6 7-8 7-8 0 0	10 10 78 78 1000 1000 4000 4000 2500 2500 500 500 - - - -	1 1 1 1 1 1 1 1 1 1 1 1 1 1	* * * * * * * * * * * * * *	hidpr derRc derRc derRc derRc derRc derRc	cr/cm cr/cm cr/cm cr/cm cr/cm cr/cm cr/cm	cbcm cbcm cbcm cbcm cbcm cbcm cbcm	cm bcm bcm bcm bcm bcm bcm						
2	Shoeburyness ... Felixstowe ... Gorleston ... Mildenhall ... Cranwell ...	981.2 981.0 983.3 980.1 983.5	-10 -10 -8 -12 -8	SE SE SE SE SE SE SE SE SE SE	4 4 4 4 6 6 5 5 4 4	47 47 47 47 46 46 47 47 45 45	92 92 92 92 85 85 97 97 92 92	5 5 5 5 5 5 5 5 4 4	1 1 1 1 1 1 2 2 2 2	10 10 10 10 10 10 10 10 5 5	900 900 600 600 2000 2000 800 800 200 200	980.7 981.3 983.1 983.2 983.1	+2 +8 +4 +2 0	SE SE SE SE SE SE SE SE SE SE	3 3 5 5 6 6 5 5 5 5	0 0 0 0 0 0 0 0 0 0	49 49 48 48 47 47 50 50 48 48	97 97 97 97 85 85 92 92 97 97	5 5 5 5 5 5 5 5 4 4	5 5 5 5 5 5 5 5 5 5	- - - - - - - - - -	4-6 4-6 10 10 10 10 10 10 10 10	2500 2500 1000 1000 800 800 900 900 300 300	1 1 1 1 1 1 1 1 1 1	* * * * * * * * * *	omddrc omddrc omddrc omddrc omddrc	rr/cm om/cm om/cm om/cm om/cm	cbcm cbcm cbcm cbcm cbcm	cm cm cm cm cm						
3	Birmingham Upper Heyford	985.9 986.3	-8 -14	SE SE	3 3	47 47 52 52	97 97 97 97	2 2 5 5	- - - -	10 10 10 10	1150 1150 300 300	983.9 986.1	0 +8	SE SE	4 4 5 5	0 0 0 0	53 53 54 54	97 97 92 92	6 6 7 7	6 6 5 5	- - - -	9 9 4-6 4-6	1500 1500 1600 1600	1 1 1 1	* * * *	orof orof	of/cm of/cm	apcm apcm	ebcm ebcm						
4	Ross-on-Wye ...	982.9	-8	SE SE	4 4	55 55	92 92	7 7	- -	7-8 7-8	10 10	1500 1500	983.0	+10	SE SE	5 5	0 0	56 56	75 75	7 7	5 5	2 2	- -	1-2 1-2	2500 2500	1 1	* *	orof	of/cm	apcm	ebcm				
5	Hartland Point Bristol ... Portland Bill Plymouth ... The Lizard Silly (St. Mary's) Guernsey ...	977.0 983.4 984.0 978.2 973.3 968.2	-18 -10 -20 -22 -40 -62	SE SE SE SE SE SE SE SE SE SE SE SE	5 5 5 5 6 6 6 6 8 8 7 7	58 58 54 54 55 55 57 57 56 56 54 54	75 75 92 92 92 92 77 77 75 75 85 85	8 8 8 8 7 7 7 7 7 7 6 6	2 2 4 4 4 4 4 4 2 2 1 1	2-3 2-3 2-3 2-3 4-6 4-6 9 9 7-8 7-8 10 10	2500 2500 3000 3000 4000 4000 1800 1800 1500 1500 800 800	972.8 981.5 984.4 977.4 976.2 973.2	-12 +10 +8 +6 +50 +84	SW SW SW SW SW SW SW SW SW SW W W	6 6 6 6 6 6 6 6 8 8 8 8	0 0 0 0 0 0 0 0 0 0 0 0	53 53 56 56 53 53 54 54 52 52 50 50	85 85 65 65 92 92 92 92 92 92 92 92	6 6 7 7 6 6 6 6 6 6 6 6	8 8 5 5 5 5 5 5 5 5 5 5	2 2 2 2 2 2 2 2 2 2 2 2	7-8 7-8 10 10 10 10 10 10 10 10 3 3	800 800 2000 2000 2500 2500 600 600 1000 1000 800 800	1 1 1 1 1 1 1 1 1 1 1 1	5 5 5 5 5 5 5 5 5 5 5 5	cinbc cinbc cinbc cinbc cinbc cinbc	bccrr bccrr bccrr bccrr bccrr bccrr	irbcm irbcm irbcm irbcm irbcm irbcm	bcbcm bcbcm bcbcm bcbcm bcbcm bcbcm						
6	Pembroke	976.3	-4	SE SE	7 7	55 55	85 85	7 7	- -	7-8 7-8	9 9	2000 2000	968.2	-32	SE SE	7 7	0 0	53 53	97 97	6 6	8 8	2 2	- -	7-8 7-8	10 10	2000 2000	1 1	5 5	cinbc	cinbc	cinbc	cinbc			
7	Holyhead (Valley)	978.6	-4	SE SE	6 6	56 56	75 75	8 8	- -	7-8 7-8	9 9	3000 3000	975.2	-24	SE SE	7 7	0 0	56 56	65 65	8 8	5 5	- -	- -	9 9	9 9	1000 1000	1 1	5 5	cinbc	cinbc	cinbc	cinbc			
8	Chester (Sealand)	987.3	-10	SE SE	5 5	48 48	92 92	4 4	- -	9 9	10 10	400 400	980.9	-14	SE SE	5 5	0 0	53 53	85 85	5 5	5 5	- -	- -	4-6 4-6	4-6 4-6	800 800	1 1	5 5	cinbc	cinbc	cinbc	cinbc			
10	Spurn Head Catterick Tynemouth	989.5 989.9 980.6	-16 -12 -18	SE SE SE SE SE SE	7 7 7 7 9 9	45 45 43 43 48 48	97 97 97 97 97 97	4 4 4 4 6 6	2 2 2 2 1 1	10 10 10 10 10 10	1500 1500 600 600 1500 1500	988.7 988.3 989.4	-6 -6 -8	SE SE SE SE SE SE	7 7 4 4 9 9	0 0 0 0 0 0	46 46 46 46 46 46	97 97 97 97 97 97	5 5 4 4 6 6	5 5 6 6 6 6	2 2 2 2 1 1	- - - - - -	10 10 10 10 10 10	10 10 500 500 1500 1500	1 1 1 1 1 1	* * * * * *	cinbc cinbc cinbc	cinbc cinbc cinbc	cinbc cinbc cinbc	cinbc cinbc cinbc					
11	St. Abbs Head Leith	987.2 988.7	-20 -20	SE SE	8 8 9 9	44 44 44 44	97 97 97 97	6 6 6 6	5 5 5 5	7-8 7-8 9 9	2000 2000 1100 1100	987.2 988.8	-20 -2	SE SE	8 8 9 9	0 0 0 0	45 45 46 46	97 97 97 97	6 6 6 6	5 5 5 5	1 1 1 1	- - - -	10 10 10 10	800 800 200 200	1 1 2 2	5 5 5 5	cinbc cinbc	cinbc cinbc	cinbc cinbc	cinbc cinbc					
12	Renfrew (Abbots L.) Eskdalemuir Point of Ayre	984.2 985.8 981.1	-22 -16 -4	SE SE SE SE SE SE	5 5 7 7 7 7	47 47 42 42 47 47	75 75 85 85 97 97	6 6 6 6 6 6	2 2 2 2 2 2	4-6 4-6 7-8 7-8 7-8 7-8	10 10 800 800 1000 1000	983.5 985.3 979.6	-4 -4 0	SE SE SE SE SE SE	4 4 5 5 7 7	0 0 0 0 0 0	47 47 44 44 50 50	85 85 85 85 92 92	5 5 6 6 6 6	5 5 5 5 5 5	2 2 2 2 2 2	- - - - - -	10 10 10 10 400 400	1800 1800 800 800 400 400	1 1 1 1 1 1	* * * * * *	cinbc cinbc cinbc	cinbc cinbc cinbc	cinbc cinbc cinbc	cinbc cinbc cinbc					
13A	Tiree	978.9	-12	SE SE	7 7	46 46	85 85	7 7	- -	10 10	1500 1500	980.5	-8	SE SE	7 7	0 0	50 50	75 75	8 8	5 5	7 7	- -	7-8 7-8	10 10	2000 2000	1 1	5 5	cinbc	cinbc	cinbc	cinbc				
13B	Stornoway	983.2	-20	SE SE	7 7	49 49	65 65	7 7	- -	4-6 4-6	10 10	2500 2500	980.5	-8	SE SE	7 7	0 0	50 50	75 75	8 8	5 5	7 7	- -	7-8 7-8	10 10	1500 1500	1 1	5 5	cinbc	cinbc	cinbc	cinbc			
15	Dalwhinnie	986.5	-22	SE SE	6 6	37 37	92 92	5 5	- -	10 10	1500 1500	986.6	+10	SE SE	6 6	0 0	41 41	97 97	5 5	6 6	2 2	- -	7-8 7-8	10 10	1500 1500	1 1	5 5	cinbc	cinbc	cinbc	cinbc				
16	Aberdeen	983.1	-30	SE SE	8 8	46 46	75 75	6 6	- -	9 9	10 10	1400 1400	983.0	-10	SE SE	8 8	0 0	45 45	85 85	6 6	5 5	2 2	- -	7-8 7-8	10 10	1400 1400	1 1	5 5	cinbc	cinbc	cinbc	cinbc			
17	Wick	984.5	-10	SE SE	9 9	47 47	75 75	7 7	- -	3 3	10 10	1200 1200	982.0	-10	SE SE	9 9	0 0	45 45	75 75	6 6	5 5	2 2	- -	7-8 7-8	10 10	200 200	1 1	5 5	cinbc	cinbc	cinbc	cinbc			
18	Sumburgh	982.2	-2	SE SE	8 8	43 43	65 65	7 7	- -	10 10	1800 1800	1001.2	+2	SE SE	8 8	0 0	42 42	75 75	6 6	5 5	7 7	- -	3 3	10 10	1800 1800	1 1	7 7	cinbc	cinbc	cinbc	cinbc				
19	Blackod Point	974.5	-10	SE SE	2 2	49 49	92 92	7 7	- -	10 10	800 800	973.2	-4	NW NW	3 3	0 0	49 49	92 92	7 7	6 6	- -	- -	10 10	800 800	2 2	* *	cinbc	cinbc	cinbc	cinbc					
20	Malin Head Aldergrove	975.9 976.7	-18 -20	SE SE SE SE	4 4 6 6	47 47 50 50	92 92 92 92	6 6 6 6	3 3 2 2	9 9 7-8 7-8	800 800 500 500	975.4 976.5	+12 0	SE SE SE SE	5 5 5 5	0 0 0 0	51 51 51 51	92 92 92 92	6 6 6 6	8 8 6 6	1 1 1 1	- - - -	9 9 7-8 7-8	1500 1500 700 700	1 1 1 1	* * * *	cinbc cinbc	cinbc cinbc	cinbc cinbc	cinbc cinbc					
19	Birr Castle	972.4	-12	SE SE	1 1	54 54	97 97	7 7	- -	7-8 7-8	10 10	1500 1500	973.6	+10	NW NW	2 2	0 0	47 47	85 85	7 7	5 5	2 2	- -	1 1	10 10	1500 1500	1 1	4 4	cinbc	cinbc	cinbc	cinbc			
20	Valentia Obay. Roches Point	971.9 972.6	-6 -4	NW NW SE SE	1 1 5 5	48 48 55 55	92 92 92 92	7 7 7 7	6 6 5 5	4-6 4-6 4-6 4-6	10 10 7-8 7-8	1500 1500 800 800	973.6 968.4	+10 +10	NW NW NW NW	2 2 2 2	0 0 0 0	47 47 51 51	85 85 92 92	7 7 8 8	5 5 6 6	2 2 2 2	- - - -	7-8 7-8	9 9	1500 1500	1 1 1 1	4 4 5 5	cinbc cinbc	cinbc cinbc	cinbc cinbc	cinbc cinbc			



Abridged observations of additional stations in the AVIATION WEATHER CODE															
13h. G.M.T. 10th November.				18h. G.M.T.				01h. G.M.T. 11th November.				07h. G.M.T.			
III C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>L</sub> C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>L</sub> C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>L</sub> C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>L</sub> C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>L</sub> C <sub>M</sub>
1063	05647	44228	6-	61638	44868	6-	61638	44968	5-	61638	44068				
1157	15734	45827	57	81754	45987	57	81834	45987	52	81734	45987				
2035	40284	12727							57	02538	43628				
2065	02855	43228	62	61855	43368	5-	02858	43268	57	02855	43766				
2105	02855	43828	87	22845	43468	62	22245	42768	62	67158	42766				
2205	02854	46668							52	22628	18768				
2305	21857	06468	62	62747	07468	52	51667	10918	57	22755	18468				
2456	64637	11868	62	64457	12868	62	06305	12668	37	22577	17668				
2606	62735	09568	61	64645	11468	5-	62618	11068	34	22656	13568				
2786	64638	45668	52	05637	44668	6-	61683	46768	51	21767	18468				
2795	63754	43668	87	61645	42768	5-	02766	45068	5-	61857	14467				
285-	67109	06667	-	67103	08568				23	01744	16465				
2885	22745	44568	52	22645	45668	8-	81657	45857	40	00761	15362				
5756	62638	08368	67	72705	0266	5-	05648	00068	57	02844	18366				
8010	05548	45668	02	05538	26668	5-	61658	45868	54	05663	48524				
3210	51548	45468							46	22654	17565				
2996	64638	12768	6-	04438	10868	5-	05538	14668	50	01763	66203				
2926	62526	44468	62	22526	43568	5-	02767	46457	07	05630	13312				
310-	57109	04548							-	03428	24428				
6146	47246	10328	02	47328	45348	50	05661	49441	59	05571	41118				
3336	61854	08768	8-	02857	42827	8-	81847	18767	5-	61747	14587				
334-	54537	20358	-	02744	10415				-	01640	10402				
3406	54436	43668	5-	08457	10657	50	01863	49383							
1366	52517	11468	62	62423	11568	5-	02767	13467	01	05630	14227				
3366	62626	12468	52	02746	12528										
350			50	05523	12463	07	05630	17313							
3685	57234	12564	52	62646	13668	03	00690	16363	53	01761	16303				
3795	62528	12468	47	05644	12467	04	00790	18561							
3905	57338	12468	50	05563	45453	5-	05655	18325	57	05564	13227				
3836	64428	13368	57	01744	46415	03	00830	17302	57	04672	00024				
4387	02753	15427							81	02744	16327				
430			53	02665	14566	51	02751	18418	97	25644	16488				
4095	02747	45667	52	64637	49868	50	05653	18563	24	01743	15414				

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
 ww, W = Present and past weather—See M.O. 252.  
 h, N<sub>h</sub> = Height and amount of low cloud—See M.O. 252.  
 N = Total amount of cloud—See M.O. 252.  
 C<sub>L</sub> C<sub>M</sub> = Form of low and medium cloud—See page 1.  
 V = Visibility. F = Force of wind—See page 4.  
 DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

# AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 11th November, 1941.
1 S.E. England	Moderate S.-S.E. wind; some rain; mild.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Moderate or fresh S. wind, strong locally, veering S.W.; bright intervals; showers; local hail and thunderstorms; average temperature.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	Moderate or fresh S.-S.E. wind, strong locally; occasional rain; mild.
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	Strong S.E. wind, gale locally; occasional rain; average temperature.
15 N.E. Scotland	
16 Orkneys and Shetlands	
17 N.W. Ireland	
18 N.E. Ireland	Variable wind, finally moderate or fresh; bright intervals; showers; local hail and thunder; Average temperature.
19 S.E. Ireland	
20 S.W. Ireland	

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

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  
 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.

## GENERAL INFERENCE.

A deep depression off N.W. Ireland is moving N.W. and a shallow depression over France is expected to move north and then north west across the British Isles. There will be rain in the East, North and Midlands and bright intervals and showers in the S.W. with local hail and thunder.

## FURTHER OUTLOOK.

Unsettled; occasional rain.  
 Southeastly gale in operation in districts 8, 0415h on 9/11 and districts 10, 13B, 15+16 at 0815h on 9/11.

Forecasts issued at 10.00h. G.M.T.  
 H.M.S.O. Press, Meteorological Office, Dunstable.

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

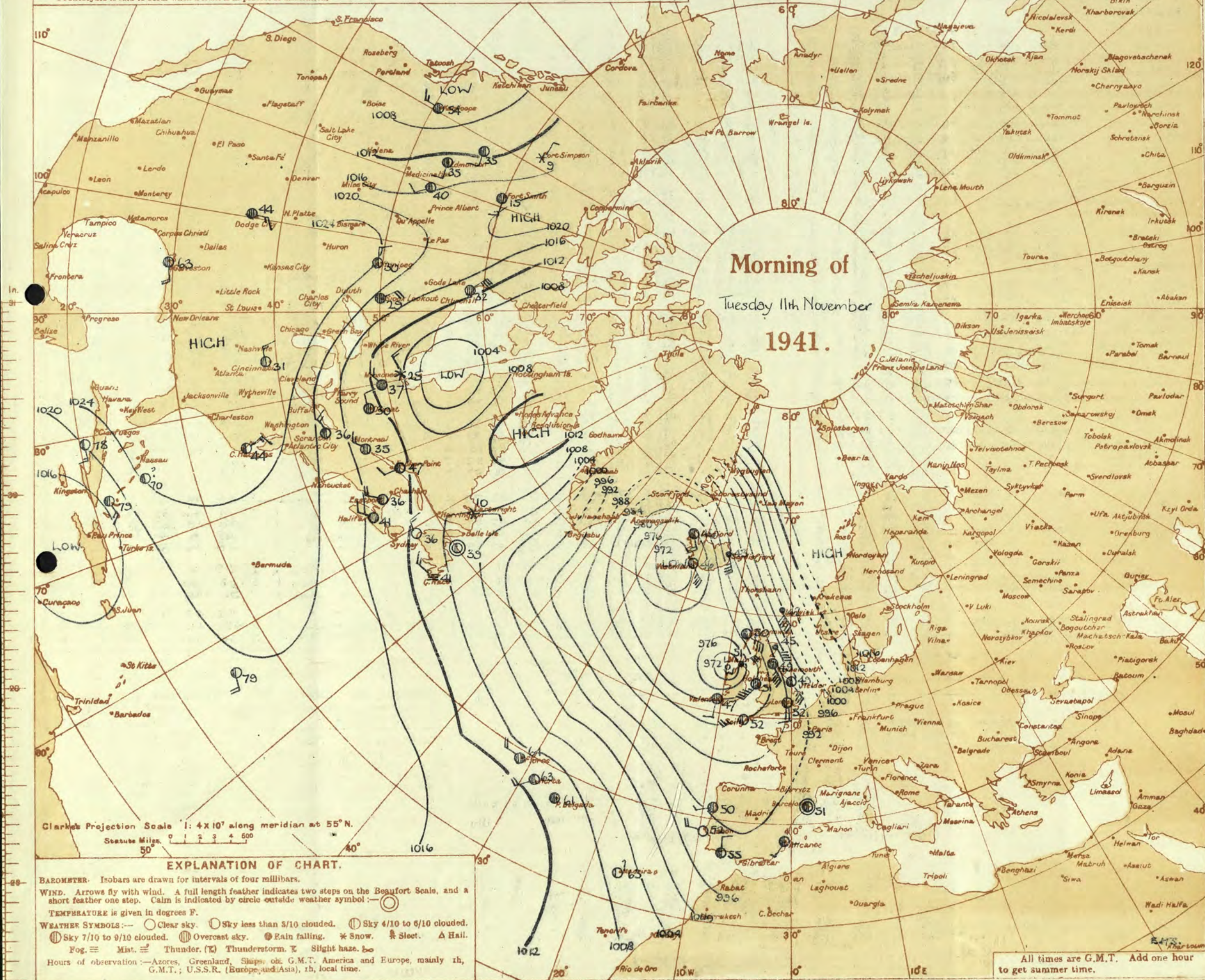
G.269/4120. No. 8176. D. 6034. Op. 246. 3100/3/41.



# 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 at the foot of page 2.)  
**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.





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Tuesday 14th November 1941.  
No. 2229

OBSERVATIONS at 1 hr. G.M.T. 14th November														OBSERVATIONS at 7 hr. G.M.T. 14th November														PAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.				Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.				State of Ground.	Sea.	TEMPERATURE.			RAINFALL.			SUNSHINE Hrs.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
					Direc.	Force.					Form.	Amount.	Height of Base (feet).	Direc.			Force.	Form.					Amount.	Height of Base (feet).	Max. Day 7h-18h °F.	Min. Night 18h-7h °F.			Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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## LONDON OBSERVATIONS

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

Kew...	...	...	...	...	...
CROYDON	...	...	...	...	...
GREENWICH (Royal Observatory)...	...	...	...	...	...
CITY (Bunhill Row)	...	...	...	...	...
WESTMINSTER (St. James' Park)...	...	...	...	...	...
REGENTS PK. (Botanic Gardens)...	...	...	...	...	...
CAMDEN SQUARE	...	...	...	...	...
KENSINGTON	...	...	...	...	...
HAMPSHIRE OBSERVATORY	...	...	...	...	...



# SECRET

BRITISH SECTION

Wednesday 12th November 1941.

No. 20210

Page 1.

AIR  
MINISTRY.

## THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

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

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

PAST 24 HOURS.

District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visiblity. m.	Cloud.			Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visiblity. m.	Cloud.			State of Ground.	Sea.	WEATHER.												
				Direc.	Force. 0-12					Low.	Med.	High			Form.	Amount. 0-10					Height of Base. (feet)	Direc.	Force. 0-12			Low.	Med.	High	Form.	Amount. 0-10	Height of Base. (feet)	7h.—13h. 11th	13h.—18h. 11th	18h.—11th 12th	11h.—7h. 12th			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(37)	(38)	(39)	(40)					
1	London (Kew)...	304.5	+2	SE	2	N	55	75	6	5	7	-	10	1500	304.5	+4	ENE	2	7	51	32	3	6	2	-	7-8	10	1500	1	*	mofc	2	0	0	0			
	Croydon ...	304.4	-4	ESE	1	N	55	85	6	5	7	-	7-8	10	5000	304.5	+2	ENE	1	5	51	32	4	6	2	-	7-8	10	700	1	*	mofc	2	0	0	0		
	S. Farnborough	304.1	-4	SE	2	N	54	85	6	5	2	-	9	2000	304.3	+2	E	3	5	51	32	5	2	2	-	4-6	10	2500	1	*	mofc	2	0	0	0			
	Boscombe Down	303.8	-2	SE	2	N	53	92	7	8	4	8	7-8	2000	303.7	-2	E	3	5	51	32	6	1	2	-	10	10	7200	1	*	mofc	2	0	0	0			
	Thorney Island	304.2	-2	SE	2	N	53	92	7	8	4	8	7-8	2000	303.7	-2	E	3	5	51	32	6	1	2	-	10	10	7200	1	*	mofc	2	0	0	0			
	Lymington	306.0	-6	SE	2	N	53	92	7	8	4	8	7-8	2000	303.7	-2	E	3	5	51	32	6	1	2	-	10	10	7200	1	*	mofc	2	0	0	0			
	Manston	305.6	-6	SE	1	N	52	92	6	5	7	-	4-6	2000	304.8	+4	NE	3	5	50	37	6	1	2	-	9	10	600	1	*	mofc	2	0	0	0			
2	Shoeburyness ...	306.2	-4	SE	1	N	52	92	6	5	7	-	4-6	10	2500	306.1	-2	ENE	2	7	50	37	5	6	2	-	7-8	10	800	1	*	mofc	2	0	0	0		
	Felixstowe ...	305.3	-2	ESE	1	N	49	97	6	7	-	-	0	10	305.2	0	NE	3	5	50	37	5	6	2	-	10	10	1500	1	*	mofc	2	0	0	0			
	Gorleston ...	307.0	+6	SE	2	N	49	97	6	7	-	-	7-8	7-8	1500	307.2	+4	E	3	5	50	37	5	6	2	-	10	10	1500	1	*	mofc	2	0	0	0		
	Mildenhall ...	305.6	0	ESE	1	N	53	92	6	7	-	-	2-3	10	4000	306.2	+2	E	3	5	51	32	5	6	2	-	7-8	10	600	1	*	mofc	2	0	0	0		
	Cranwell	304.5	+6	SE	1	N	51	92	5	7	-	-	2-3	20	2500	306.1	+10	SE	3	5	51	32	3	5	-	-	10	10	1300	1	*	mofc	2	0	0	0		
3	Birmingham	304.0	+6	SSE	3	N	53	85	6	8	7	-	7-8	20	1500	304.0	+12	ESE	2	7	51	32	3	5	-	-	10	10	2500	1	*	mofc	2	0	0	0		
	Upper Heyford	303.9	-2	SE	2	N	52	85	6	7	-	-	9	20	1100	304.5	+6	ESE	2	7	50	32	4	5	-	-	7-8	10	1500	1	*	mofc	2	0	0	0		
4	Ross-on-Wye ...	302.6	0	SE	3	N	55	85	7	2	-	-	4-6	20	3000	304.1	+10	ESE	2	7	51	32	3	5	-	-	7-8	10	1500	1	*	mofc	2	0	0	0		
5	Hartland Point	300.5	0	S	3	N	57	65	8	2	6	5	4-6	2500	301.8	+12	S	3	5	51	32	3	5	2	4	5	4-6	7-8	2500	1	*	mofc	2	0	0	0		
	Bristol ...	302.7	-4	S	2	N	57	75	8	2	6	5	4-6	2500	303.7	+12	SE	2	7	51	32	3	5	2	4	5	4-6	7-8	2500	1	*	mofc	2	0	0	0		
	Portland Bill ...	302.9	+4	S	4	N	57	92	8	2	6	5	4-6	2500	302.9	+6	E	3	5	53	32	7	5	2	4	5	4-6	7-8	2500	1	*	mofc	2	0	0	0		
	Plymouth	300.8	+2	SSE	3	N	57	85	8	2	6	5	4-6	2500	301.4	+6	SSE	3	5	53	32	7	5	2	4	5	4-6	7-8	2500	1	*	mofc	2	0	0	0		
	The Lizard	300.5	+4	S	4	N	57	85	8	2	6	5	4-6	2500	300.5	0	SSE	3	5	53	32	7	5	2	4	5	4-6	7-8	2500	1	*	mofc	2	0	0	0		
	Scilly (St. Mary's)	300.6	+4	S	3	N	57	85	8	2	6	5	4-6	2500	300.6	+10	S	2	5	52	32	8	6	3	4	5	4-6	7-8	2500	1	*	mofc	2	0	0	0		
	Guernsey	300.6	+4	S	3	N	57	85	8	2	6	5	4-6	2500	300.6	+10	S	2	5	52	32	8	6	3	4	5	4-6	7-8	2500	1	*	mofc	2	0	0	0		
6	Pembroke	303.8	+4	SE	5	N	55	85	8	2	4	6	4-6	2500	301.2	+12	SSW	3	5	53	32	8	8	4	5	2	4	5	4-6	7-8	2500	1	*	mofc	2	0	0	0
7	Holyhead (Valley)	302.7	+14	S	5	N	55	75	8	2	4	6	4-6	2500	301.7	+18	SE	3	5	49	32	7	2	6	8	1	2	3	4	3000	1	*	mofc	2	0	0	0	
	Chester (Sealand)	302.2	+6	SE	3	N	55	75	6	7	10	1500	304.3	+22	SE	2	7	50	32	4	5	7	8	1	7	8	10	2000	1	*	mofc	2	0	0	0			
8	Manchester	303.5	+6	SSE	4	N	53	85	5	7	10	1500	304.5	+10	SE	3	5	50	32	4	5	7	8	1	7	8	10	2000	1	*	mofc	2	0	0	0			
10	Spurn Head	305.5	0	SE	3	N	47	92	6	1	4	3	2-3	7-8	2500	305.6	+2	ESE	3	5	46	32	4	5	2	-	10	10	1500	1	*	mofc	2	0	0	0		
	Catterick	304.8	+4	SW	1	N	51	85	4	1	3	-	0	7-8	-	306.4	+16	SE	3	5	50	32	4	5	-	-	10	10	800	1	*	mofc	2	0	0	0		
	Tynemouth	304.6	+12	S	4	N	50	85	6	1	4	-	0	2-3	-	306.4	+16	SE	3	5	48	32	6	5	-	-	10	10	1500	1	*	mofc	2	0	0	0		
11	St. Abbs Head	302.4	+6	S	6	N	49	92	7	5	4	1	4-6	2500	305.6	+14	SE	6	49	32	6	5	1	-	-	10	10	800	1	*	mofc	2	0	0	0			
	Leuchars	302.5	+14	SE	6	N	51	92	6	5	4	1	4-6	2500	305.7	+22	SE	6	49	32	6	5	1	-	-	10	10	700	1	*	mofc	2	0	0	0			
12	Renfrew (Abbots L.)	300.8	+18	SSE	3	N	51	92	6	5	4	1	4-6	2500	303.5	+22	SE	6	49	32	6	5	1	-	-	10	10	1300	1	*	mofc	2	0	0	0			
	Eskdalemuir ...	301.8	+16	SE	4	N	52	75	7	8	7	-	1	4-6	1500	304.7	+22	-	1	45	35	6	5	2	-	-	7-8	7-8	800	1	*	mofc	2	0	0	0		
	Point of Ayre ...	302.8	+10	S	5	N	52	92	7	8	7	-	9	20	1500	302.5	+10	SE	4	45	35	7	4	4	2	2	3-4	6	1500	1	*	mofc	2	0	0	0		
13A	Tiree ...	307.2	+24	SE	4	N	52	85	8	7	-	-	4-6	2500	309.0	+14	SE	2	48	32	8	5	1	-	-	4-6	6	2500	0	*	mofc	2	0	0	0			
13B	Stornoway ...	304.6	+58	SE	4	N	51	85	8	7	-	-	7-8	20	1500	306.7	+24	S	3	50	32	7	5	1	-	-	4-6	20	2500	1	*	mofc	2	0	0	0		
15	Dalwhinnie	300.5	+22	SSE	5	N	45	92	7	5	2	-	9	10	2500	302.8	+24	SSE	4	45	32	6	5	2	-	-	7-8	10	1500	1	*	mofc	2	0	0	0		
	Aberdeen	304.7	+14	SE	6	N	47	97	6	5	2	-	9	10	800	308.1	+22	SSE	4	47	32	6	5	2	-	-	9	10	800	1	*	mofc	2	0	0	0		
	Wick ...	303.4	+38	SE	10	N	47	92	6	5	2	-	10	10	500	307.5	+24	SE	9	46	32	5	5	1	-	-	10	10	600	1	*	mofc	2	0	0	0		
16	Sumburgh	1000.8	+10	SE	9	N	43	85	6	6	2	-	9	10	1000	1003.5	+10	SE	9	43	75	6	6	2	-	-	9	10	900	1	*	mofc	2	0	0	0		
17	Blacksod Point...	305.6	+18	SW	2	N	51	92	7	8	7	-	9	20	2500	308.9	+18	SW	1	50	32	8	5	1	-	-	7-8	7-8	2500	1	*	mofc	2	0	0	0		
18	Malin Head	305.6	+22	S	2	N	51	85	8	4	-	4	2-3	7-8	4000	308.7	+22	S	2	48																		



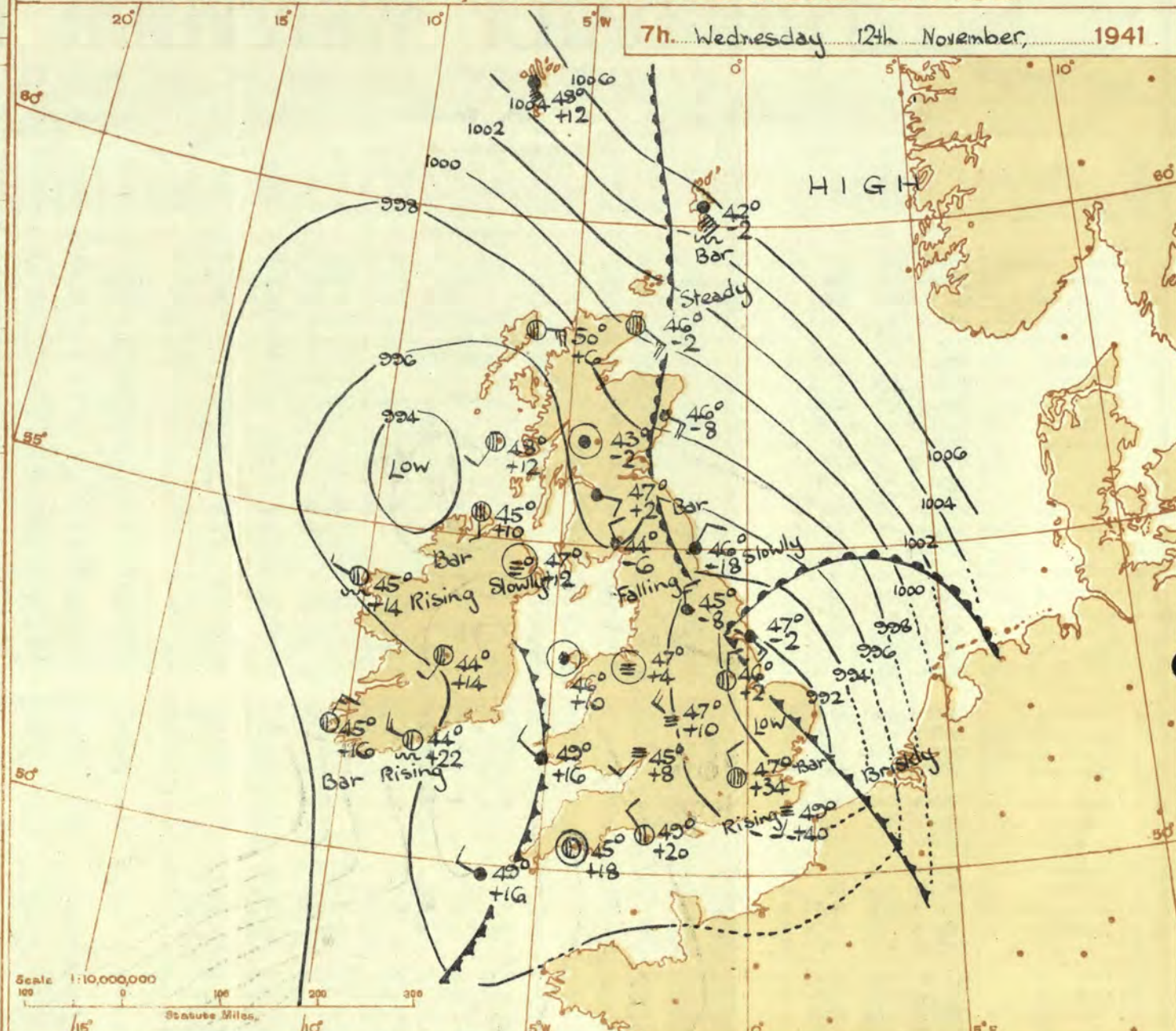
Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 11th November				18h. G.M.T.				01h. G.M.T. 12th November				07h. G.M.T.			
III	C	wwVhN	DDFWN	C	C	wwVhN	DDFWN	C	C	wwVhN	DDFWN	C	C	wwVhN	DDFWN
109	62	62536	44868					6-	62638	43668	62	51638	09388		
115	52	15834	45787	52		14844	45627	52	14844	45566	52	81844	45587		
203				5-		02948	12428	5-	02846	12426	51	02834	08428		
206	57	02855	14527	62		22645	10568	53	01854	30265	57	02746	10128		
210	57	02854	11525	5-		22748	44668	51	02835	43527	52	62735	08228		
220				80		25745	14385					52	22436	12268	
230	57	02845	16227	5-		51746	14167	5-	05647	00057	57	05644	00027		
245	62	61627	46768	62		21537	45668	62	21536	12558	62	64437	08468		
260	57	01853	13465	53		08461	10213	5-	05548	08248	5-	64438	06168		
278	52	64844	12368	5-		63648	11368	5-	05658	12368	52	21556	14258		
279	03	05630	14513	00		05690	10214	52	05644	04328	52	62545	09268		
285	23	05644	14414					6-	62637	30367					
288	27	05652	14314	5-		05664	14314	5-	58568	02168	6-	67328	29168		
575	5-	02843	10315	93		01853	08214	53	05653	00014	--	48109	00049		
301	53	05663	14414	04		08490	14214	07	48390	10248	5-	47338	00068		
321	17	05653	14215	57		47354	12128	02	64318	05368	62	22525	30368		
299	5-	25654	18284	--		44209	10449	5-	52448	10468	50	05647	14227		
298	07	05650	11217	5-		47344	07214	02	62568	02158	62	52537	29368		
310				--		46109	10329				--	01635	04415		
614	8-	05557	16227	5-		47348	00048	5-	00068	09347					
333	26	02854	12515	4-		01854	14315	52	02755	08218	52	05657	00068		
334	--	01773	16314	--		02646	20117				--	0435	00028		
340	50	05645	14315	03		05590	09327	02	62468	32168	61	47336	30168		
136	57	05517	11228	62		62527	12268	6-	62428	06368	62	52417	13368		
336	54	02744	12316	54		01754	12315				54	05644	12316		
350	5-	47347	14227	--		45209	08149	5-	64438	32468	52	47	28368		
368	8-	02765	14385	57		02654	12327	5-	61448	04168	54	43364	00045		
379	57	02745	14357	5-		05558	12128	02	64438	04468	5-	05647	39367		
390	57	05555	12148	52		67337	00068	62	64426	04368	5-	57228	27368		
383	57	05645	13327	52		05663	10228	02	64428	32368	51	02646	26227		
488	52	02764	06218								02	03748	22328		
430	57	02751	08228					52	62643	06468					
400	20	01853	15324	24		01853	15324	81	81665	00087	50	01764	13184		

III - Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W - Present and past weather—See M.O. 252.  
h, N<sub>h</sub> - Height and amount of low cloud—See M.O. 252.  
N - Total amount of cloud—See M.O. 252.  
C, C<sub>1</sub> - Form of low and medium cloud—See page 1.  
V - Visibility. F - Force of wind—See page 1.  
DD - Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Wednesday 12th November, 1941



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 12th November, 1941.
1 S.E. England	
2 E. England ...	Light winds mainly between west and south; cloudy or dull. Visibility poor to misty at times. Average temperature.
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light N.W. to W. winds; bright intervals; some showers or occasional rain; fog patches in morning; average temperature.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	Light variable winds; dull and misty; local rain or drizzle; average temperature.
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Light variable wind; dull; rainy at first with some mist and local fog; average temperature.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N.E. Scotland	Strong to gale S.E. wind; moderating slowly; dull; rainy; rather cold.
16 Orkneys and Shetlands	
17 N.W. Ireland	
18 N.E. Ireland	AS 4-7.
19 S.E. Ireland	
20 S.W. Ireland	

BAROMETER. Isobars are drawn for intervals of two millibars. WIND, WEATHER SYMBOLS: For explanation see opposite page. SEA DISTURBANCE. Rough. High.  
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.  
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  
= Cold Front above the ground  
= Cold Front on the surface  
= Cold Front above the ground  
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.  
= Occluded Front (or Occlusion)  
= Warm Occlusion  
= Cold Occlusion  
= Lines of Frontogenesis  
Short strokes across the frontal line indicate Frontolysis. (For explanation see page 3.)

GENERAL INFERENCE.

A large complex low pressure area covers the Eastern Atlantic and Western Europe. A depression centred over Eastern England will move N.N.W. and become less deep. Weather will be unsettled generally with continuous rain in Scotland at first but some bright intervals are likely in western districts. Temperatures will be about average for the season.

FURTHER OUTLOOK.

Continuing unsettled; further general rain in the Northeast, mainly dull and misty elsewhere.  
Southerly gale still in operation in districts 15 & 16.

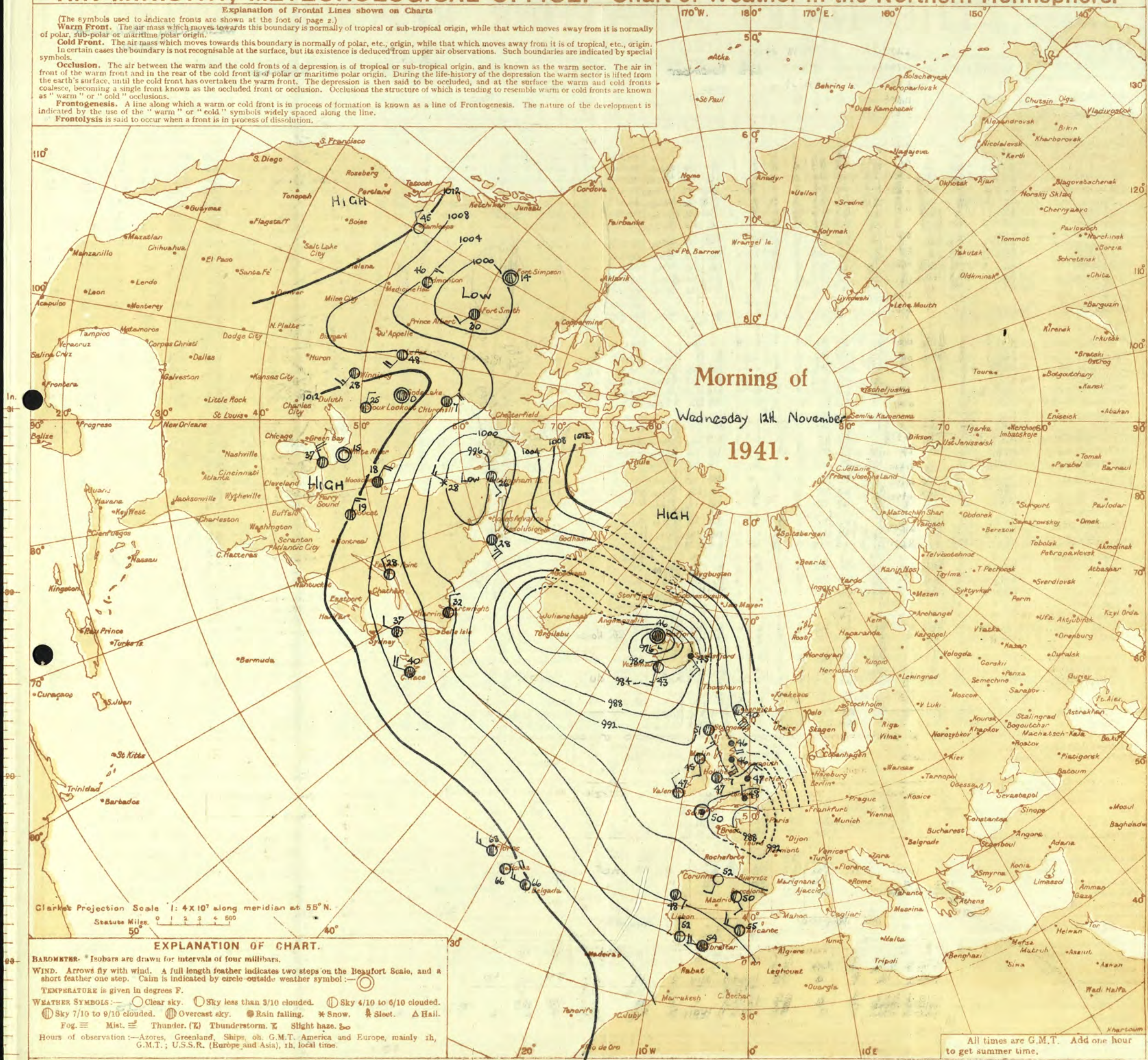
Forecasts issued at 10.30h. G.M.T. N. K. JOHNSON, D.Sc., A.R.C.S. Director.  
H.M.S.O. Press, Meteorological Office, Dunstable. 9289/4120. No. 8176. D. 6034. 6p. 348. 3/100. 1/41



# 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 at the foot of page 2.)  
**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.





AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 12th November 1941.

No. 2210

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

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

PAST 24 HOURS.

DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					State of Ground.	Sea.	TEMPERATURE.			RAINFALL.		SUN- SHINE Hrs.																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
					Direc.	Force.					Low.	Med.	High.	Low 0-10	Total 0-10			Height of Base. (feet)	Direc.					Force.	Low.	Med.	High.	Low 0-10			Total 0-10	Height of Base. (feet)	Form.	Amount.	Height of Base. (feet)		Form.	Amount.	Height of Base. (feet)	Max. Day 7h-13h °F.	Min. Night 13h-7h °F.	Min. on Grass °F.	Day 7h-13h mm.	Night 13h-7h mm.																																																																																																																																																																																																																																																																																																																																																																																																																																																														
																																													0-12	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0-9	0

## LONDON OBSERVATIONS

Day 7h-13h, Kew & Croydon.  
9h-13h, Kensington.  
9h-21h, other stations except for rainfall which is 9h-13h.

STATIONS.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.	Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.	State of Ground.	Sea.
Kew ...	30.0	...	...	...	...	...	...	...	...	...
CROYDON ...	217	...	...	...	...	...	...	...	...	...
GREENWICH (Royal Observatory) ...	149	...	...	...	...	...	...	...	...	...
CITY (Bunhill Row) ...	...	...	...	...	...	...	...	...	...	...
WESTMINSTER (St. James' Park) ...	27	...	...	...	...	...	...	...	...	...
REGENTS PK. (Botanic Gardens) ...	168	...	...	...	...	...	...	...	...	...
CAMDEN SQUARE ...	110	...	...	...	...	...	...	...	...	...
KENSINGTON ...	80	...	...	...	...	...	...	...	...	...
HAMPSTEAD OBSERVATORY ...	450	...	...	...	...	...	...	...	...	...

## FOREIGN OBSERVATIONS.

STATIONS.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.	Weather.	Temp. °F.	Hum
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THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
BRITISH SECTION  
Thursday 13th November 1944  
No. 29211

OBSERVATIONS at 13h. G.M.T. 12th November.															OBSERVATIONS at 18h. G.M.T. 12th November.															PAST 24 HOURS.					
Direction.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.			Height of Base. (feet)	Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.			Height of Base. (feet)	State of Ground.	Sea. 0-9	WEATHER.							
				Direc.	Force. 0-12					Form.	Amount. 0-10	Direc.				Force. 0-12	Form.					Amount. 0-10	7h.-13h. 12h.	13h.-18h. 12h.				18h. 12h to 1h. 13h.	1h.-7h. 13h.						
																														Low.	Med.	High	Low	Total	Low
1	London (Kew)...	999.2	+18	NNW	2	z	52	75	6	5	7	-	9	1500	1002.3	+20	N	1	of+	50	85	3	5	-	-	10	10	2500	1	*	cmo2z	czcf	cfro	rocr	
	Croydon ...	998.9	+14	NW	3	z	52	85	5	3	-	2.3	10	2500	1001.9	+18	NW	1	of+	49	85	3	5	-	-	10	10	4000	1	*	cmcm	cmcf	cfro	mrro	
	S. Farnborough	999.3	+18	N'W	1	c	53	75	7	1	7	2	1	3000	1001.9	+12	N'E	1	c	49	85	3	-	3	-	0	10	-	1	*	domo	cccm	mmro	rocr	
	Boscombe Down	999.5	+14	WNW	1	c	51	85	7	5	5	-	Tr	9	600	1002.5	+16	-	0	48	92	5	-	5	-	0	9	-	1	*	omof	cfcm	bmcm	omd	
	Thorney Island	999.0	+22	NNE	1	c	54	75	7	1	3	2	2.3	7.8	2500	1001.8	+14	N'E	1	z	49	85	6	5	-	10	10	7200	0	*	cmo	cmcf	cmro	mrro	
	Lympe	999.4	+12	N	2	z	50	92	6	5	-	-	10	10	1200	1002.3	+16	-	1	rr	47	97	4	-	2	-	10	10	3500	1	5	cmo	cmamrr	mrro	rocr
	Manston	998.8	+12	NW	1	Lo	49	92	5	5	-	-	10	10	1300	1002.0	+10	N	1	o	48	97	5	-	-	10	10	2100	1	*	omedom	clcm	igcm	rocr	
2	Shoeburyness ...	999.1	+14	WNW	1	z	50	92	5	5	-	-	10	10	1500	1002.3	+16	N	1	ro	49	97	5	6	2	-	4.6	10	1100	1	*	ommo	ircm	rocr	ommo
	Flieshowne ...	998.2	+26	W	1	z	49	92	6	5	2	-	9	10	800	1001.5	+10	-	0	cf+	47	97	3	5	2	-	9	10	1500	1	2	adfo	omro	rocr	ommo
	Gorleston	999.2	+32	S'W	2	0	49	92	6	5	-	-	10	10	800	1003.0	+12	-	0	ro	48	92	4	6	-	-	10	10	800	1	4	ofmz	Orro	om	co
	Mildenhall	998.5	+26	W'S	2	z	49	92	6	5	2	-	7.8	10	1000	1002.5	+26	-	0	cf+	47	97	3	5	-	-	7.8	7.8	4000	1	*	ofmz	cmcmcf	cmro	cmro
	Cranwell	998.5	+34	W'N	2	z	48	85	5	5	1	7	2.3	10	1500	1002.7	+22	-	0	cm	45	92	4	-	3	-	0	9	-	1	*	gmcm	cmcm	gmrr	dmrr
3	Birmingham	999.4	+20	W	2	z	52	85	5	5	7	-	4.6	9	4000	1002.3	+18	W	1	cf+	49	85	3	5	-	-	9	9	4000	1	*	forbce	CZ		orod
	Upper Heyford	998.7	+26	NW	1	z	51	85	5	-	1	6	0	9	-	1003.8	+12	NW	1	z	45	97	5	-	7	-	0	10	-	2	*	bcm	cm	cmadr	orod
4	Ross-on-Wye ...	998.9	+14	SW	2	z	53	85	6	5	4	2	1	7.8	3500	1002.3	+18	SE	1	of+	49	92	2	5	-	-	10	10	3500	1	*	fbc	cczm	cfbf	cfas
5	Hartland Point	998.9	+16	W	3	c	52	85	8	2	6	-	4.6	7.8	2500	1001.8	+12	S	1	cf	50	92	8	8	-	7	4.6	10	2000	1	4	bccirc	crorc	clrc	eroc
	Bristol ...	998.3	+2	-	0	z	55	75	6	1	4	6	Tr	9	3000	1002.5	+20	-	0	z	47	85	5	-	3	-	0	9	-	1	3	bccz	cm	cm	bcc
	Portland Bill ...	999.3	+16	ENE	2	c	52	92	8	4	7	-	7.8	10	4000	1002.2	+20	E	2	c	51	92	8	5	-	-	10	10	4000	1	3	cc	c	c	c
	Plymouth	998.5	+10	S	1	c	55	85	8	2	3	-	7.8	9	1800	1001.4	+18	-	0	z	50	97	5	5	3	2	7.8	9	5700	0	2	bccm	ccm	clrr	ircm
	The Lizard	998.1	+24	NW	2	c	55	75	8	8	6	-	7.8	7.8	1500	1001.9	+20	N'W	3	rr	48	92	8	8	-	-	10	10	1000	1	2	cbcc	cprrr	crc	cbe
	Soilly (St. Mary's)	998.9	+18	N'W	3	ro	50	97	7	8	7	-	7.8	10	800	1002.5	+20	N'W	4	C	50	85	8	8	7	3	9	9	1200	1	3	cfro	cforc	cbe	bc
	Guernsey ...																																		
6	Pembroke	999.2	+18	S'W	1	bc	56	85	8	8	6	-	4.6	4.6	3000	1002.2	+12	N	3	c	49	97	8	8	-	-	7.8	7.8	2500	1	2	bc	c	bcwc	
7	Holyhead (Valley)	997.6	+18	WNW	2	bc	55	85	7	3	6	3	4.6	4.6	2000	1001.7	+26	-	0	z	48	97	6	8	7	-	4.6	9	4000	1	1	cmo	bcc	clwif	cwc
	Chester (Sealand)	998.6	+22	SSE	1	rf	50	92	2	5	2	-	7.8	10	1000	1002.1	+24	-	0	of+	48	97	3	5	7	-	7.8	10	1700	1	*	cfro	cfro	cfro	cfro
8	Manchester	998.6	+22	SW	1	m	50	85	4	5	3	5	2.3	7.8	4000	1002.1	+20	-	0	m	49	92	4	5	3	-	7.8	10	4000	1	*	cm	cm	cfro	cfro
10	Spurn Head	997.2	+34	W	3	m	46	97	4	5	2	-	7.8	10	1500	1002.6	+22	-	0	c	45	97	4	5	7	-	7.8	9	1500	1	*	oisom	omcm	omrr	omid
	Catterick	998.0	+22	NNW	2	c	49	85	7	5	-	8	2.3	9	2200	1002.3	+24	-	0	cf+	44	97	3	-	3	-	0	9	-	1	*	c	cmof	cmcf	cfrr
	Tynemouth	997.3	+14	NNW	3	c	47	92	6	8	-	-	7.8	7.8	2200	1001.7	+16	NNW	3	m	46	92	4	5	-	-	7.8	7.8	2500	1	5	oirc	cbccm	cmcf	orr
11	St. Abbs Head	997.2	+10	N	3	c	45	92	8	8	7	-	7.8	10	1500	1001.7	+22	NW	3	c	45	92	7	5	4	-	7.8	9	2500	1	3	rc	c	cbcm	bcm
	Leuchars	997.6	+8	NNW	2	c	46	85	7	5	2	-	4.6	10	4500	1001.5	+26	-	0	z	45	92	6	-	3	-	0	7.8	-	2	*	crmm	ccm	mmbcm	cmof
12	Reafrow (Abbots L)	998.2	+4	ESE	1	z	50	85	5	8	-	-	9	9	1500	1002.3	+20	-	0	cf+	48	97	2	5	-	-	7.8	7.8	2000	1	*	cfro	cm	bcc	ofc
	Eskdalemuir	997.4	+6	E	1	c	50	75	8	7	-	5	1	7.8	4000	1002.0	+26	N	1	c	41	92	6	5	7	-	7.8	7.8	2500	1	*	cfro	cfro	cfro	cfro
	Point of Ayre	997.7	+14	E'S	1	c	51	92	7	5	-	-	9	9	3000	1001.7	+22	-	0	b	46	97	7	4	-	-	1	1	2000	1	2	cir	cbcb	cbcb	cfro
13A	Tiree ...	996.5	+10	S'E	1	c	51	85	7	5	-	-	9	9	2100	1000.4	+20	-	0	c	47	92	7	5	-	-	7.8	7.8	2100	0	2	cbcc	c	cbe	bc
13B	Stornoway	997.5	+4	SSE	2	cf	50	92	7	5	7	-	4.6	10	1500	1001.9	+22	S'E	4	rr	50	92	7	8	7	-	7.8	9	2000	1	2	cfro	cprrr	cbe	bcc
15	Dalwhinnie	997.8	0	S	1	c	46	85	8	6	3	-	Tr	9	1500	1002.0	+24	SW	1	c	37	92	8	-	3	-	0	9	-	1	*	oirc	c	co	co
	Aberdeen	998.1	+6	NW	3	ro	42	97	6	-	2	-	10	10	3100	1001.8	+22	NW	1	d.do	43	97	5	5	-	-	10	10	1000	1	4	crrom	cdodm	cdodm	cir
	Wick ...	998.8	+12	-	0	c	46	92	5	9	-	-	4.6	10	2500	1001.8	+26	S'E	1	z	46	92	5	7	-	-	4.6	9	1200	1	*	cfro	c	cdodm	orod
16	Sumburgh	1003.9	-12	SE	8	RR	44	85	6	6	2	-	1	7.8	1000	1006.0	+16	SE	8	rr	44	92	5	6	-	-	10	10	800	1	7	cfro	cfro	cfro	cfro
17	Blacksod Point...	999.4	+10	-	0	bc/pr	52	65	8	2	6	-	2.3	4.6	2500	1002.3	+14	-	0	b	44	85	8	2	-	-	1	1	4000	0	*	prbc	bc	bb	bbe
18	Malin Head	997.3	+14	S'w	2	c	50	85	8	8	9	-	4.6	7.8	4000	1000.9	+22	NW	3	bc	47	75	8	4	3	-	2.3	4.6	4000	0	3	c	c	bc	be
	Aldergrove	998.6	+18	WSW	1	z	48	97	5	5	-	-	9	9	200	1002.7	+24	-	0	m	44	97	4	5	7	-	7.8	9	2000	1	*	bcfg	cfcm	bcfg	bcfg
19	Birr Castle	999.8	+16	SSW	1	bc	51	85	8	5	-	-	4.6	4.6	2500	1002.8	+10	NNW	2	bc	42	85	8	-	4	-	0	2.3	-	1	*	cbe	bc	#	bbcx
20	Valentia Obay.†	1001.1	+14	WNW	2	bc	51	75	9	2	-	-	4.6	4.6	2500	1004.1	+18	ENE	1	b	41	92	9	1	-	-	1	1	2500	1	2	bbcv	bcvb	bw	bbwc
	Roche's Point	999.3	+16	NNW	3	hc	50	85	8	2	-	-	1	4.6	2500	1003.6	+24	NW	3	bc	47	85	9	5	-	-	1	2.3	2500	1	4	bc	bc	b	bw

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).  
bc, sky partly cloudy (one half covered). c, generally cloudy.  
d, drizzle. e, wet air. g, gloom.  
f, fog, visibility 220-1100 yds.  
F, thick fog „ less than 220 yds.  
fs, low fog over sea (coast station).  
fg, low fog over land (inland station).  
m, mist, visibility 1100-2200 yds.  
h, hail. i, intermittent.  
jf, fog at a distance, but not at station.  
jp, precipitation within sight of station.  
ks, storm of drifting snow.  
k/e, slight storm of drifting snow (generally low).  
k/S, heavy storm of drifting snow (generally low).  
s/k, slight storm of drifting snow (generally high).  
S/k, heavy storm of drifting snow (generally high).  
KQ, line squall. l, lightning.  
o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.  
rs, sleet. t, thunder.  
u, ugly, threatening sky.  
v, unusual visibility. w, dew.  
x, hoar frost. y, dry air.  
z, dust haze: the turbid atmosphere  
of dry weather.

h(r), "hail" or "rain and hail."  
Capital letters indicate intense;  
suffix o indicates slight; repetition  
of letters indicates continuity: thus  
R, heavy rain. r<sub>o</sub>, 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 exist-  
ing weather from preceding con-  
ditions thus: —be/r, fair weather  
after rain; —, has decreased;  
+, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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

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

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

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

‡ Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

Cloud form abbreviations :—

Cirrus,-Ci:	Cirrocumulus,-Cc:	Cirrostratus,-Cs:	Alto cumulus,-Ac:	Altostratus,-As
Stratocumulus,-Sc:	Stratus,-St:	Nimbostratus,-Ns:	Cumulus,-Cu:	Cumulonimbus,-Cb

COLUMN 29 —STATE OF GROUND.

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

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

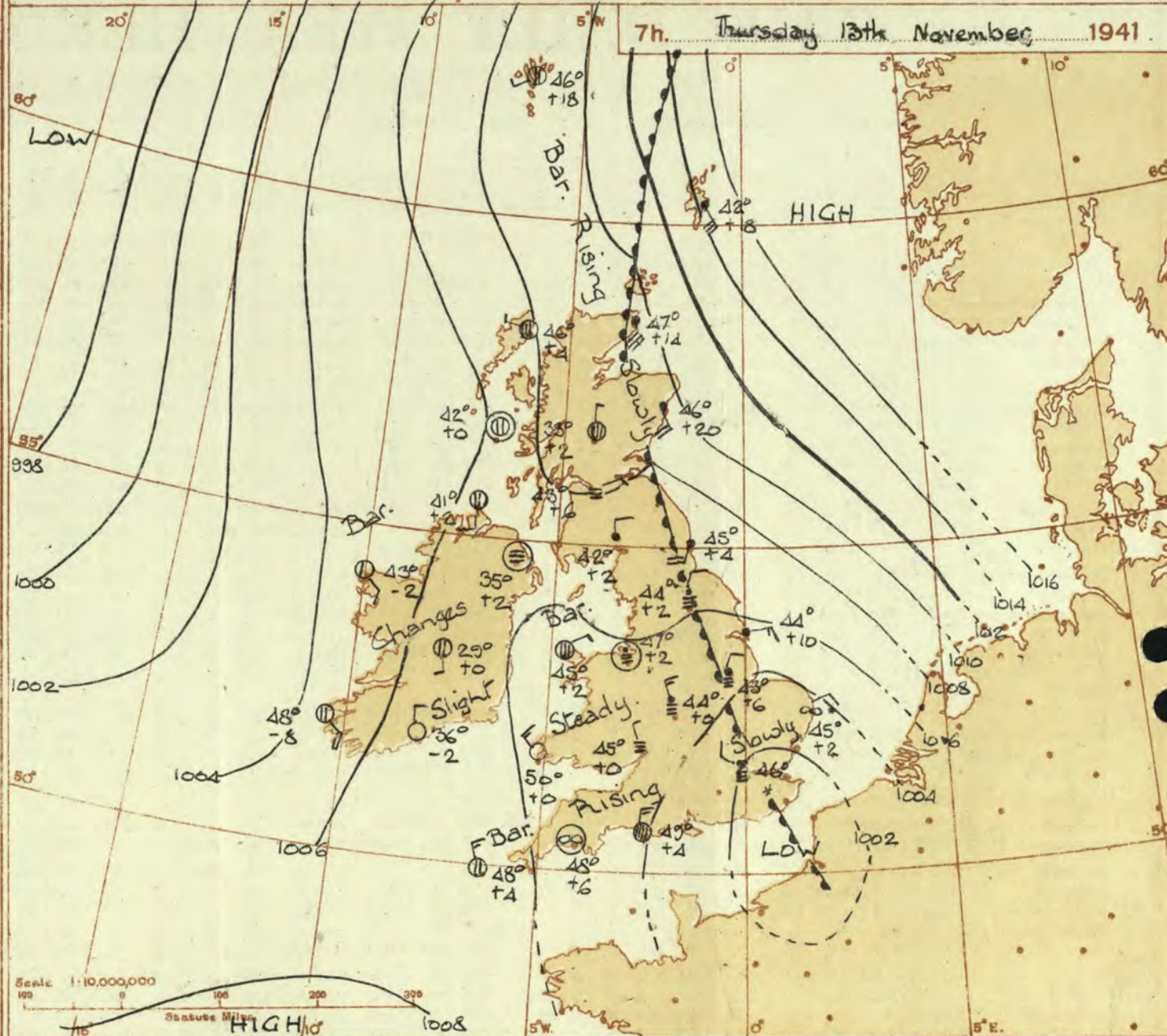


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 12th November 18h. G.M.T.								01h. G.M.T. 13th November 07h. G.M.T.							
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN		C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN		C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	
109	62	61635	12368	5-	62538	12668		5-	62538	12668		5-	62538	12668	
115	52	62944	12387	57	02844	20166		54	01844	20225		55	02844	12226	
203				5-	02845	16425		5-	02946	12326		51	02944	08228	
206	52	22846	06168	5-	03758	24168		00	08490	24120		--	46309	24149	
210	52	02854	00068	03	09890	08127		50	00753	00003		52	52843	12228	
220	83	81846	13117	80	01845	12105						52	01754	12215	
230	5-	02857	00057	5-	05658	00028		57	01744	00065		57	02756	00027	
245	57	02985	30167	57	09672	23127		5-	05648	20228		5-	64438	11468	
260	5-	02767	31167					00	45390	00040		5-	67348	00169	
278	5-	62658	12168	53	08453	14164		5-	05557	00027		51	08464	00027	
279	87	01852	00015	07	08490	00018		5-	08448	00028		52	52144	00268	
285				53	02853	32327						6-	63638	28368	
288	84	05554	28216	03	47290	00047		02	61338	00048		02	62438	00062	
325	87	01853	24265	43	00852	26113		00	08490	16101		50	45251	00041	
301	53	05565	20147	--	48109	12149		00	45290	00040		02	67348	00048	
321	01	02790	26227	57	05563	00025		02	67338	02268		02	62428	02368	
299	5-	03548	30368	5-	08447	03227		5-	64488	12368		5-	52448	08468	
292	54	02852	28357	05	02790	00026		02	62478	30168		02	62528	04168	
310	--	05428	26328	--	08445	24315						--	63628	04468	
614	45	05554	24228	04	45390	00044		52	67357	00068		62	67347	02368	
338	87	05654	18227	53	01764	00014		5-	02785	26227		57	02884	26228	
334	--	02646	24217	--	05553	20214						--	04309	00028	
340	5-	08468	18128	03	47390	00038		07	47290	00048		--	67109	31169	
136	6-	05515	22258	5-	21428	00058		5-	64408	30168		5-	62438	06268	
336	23	02753	12317	53	02753	16217									
350	04	05690	25228	03	47390	00028		02	67348	30368		02	54428	30368	
308	04	01790	12144	5-	51547	10118		57	05564	00057		57	47365	00048	
379	13	02742	26227	03	05690	00028		53	61444	30128		62	62445	32368	
390	57	08444	26158	07	47390	00048		5-	67338	32268		52	57327	02268	
382	17	02753	29325	53	08464	00028		62	62478	31268		62	62437	01368	
436	02	02658	04228									6-	66228	32248	
430	10	02753	28227	03	05590	00028		5-	62678	32268		5-	64648	24268	
409	37	81846	29287	5-	61657	24187		5-	22668	28268		54	02865	30326	

III - Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W - Present and past weather—See M.O. 252.  
h, N<sub>h</sub> - Height and amount of low cloud—See M.O. 252.  
N - Total amount of cloud—See M.O. 252.  
C<sub>M</sub> - Form of low and medium cloud—See page 1.  
V - Visibility. F - Force of wind—See page 1.  
DD - Direction of wind (E, E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 13th Nov. 1941.
1 S.E. England	Light northerly to variable wind; dull; occasional drizzle; misty with local hill fog; rather cold.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	Light northerly wind, backing slowly; cloudy, with some light rain in the East at first; bright periods spreading in from the west; some fog tonight; average temperature.
5 S.W. England	
6 South Wales ...	
7 North Wales ...	Light variable wind; dull and rainy today; occasional drizzle later; some persistent fog and mist; rather cold.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	Light variable wind; fair at first; then cloudy or dull with occasional light rain; rather persistent fog in industrial areas; average temperature.
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	Moderate to fresh S.E. winds; dull; rainy; local fog, especially near coast.
14 Mid Scotland	
15 N. E. Scotland	As 19-20
16 Orkneys and Shetlands	
17 N. W. Ireland	Calm to light variable wind; becoming cloudy; with some light rain or drizzle; some mist; average temperature.
18 N. E. Ireland	
19 S. E. Ireland	Wind S.E., moderate, freshening; fair today; becoming cloudy with some rain in the West tomorrow; average temperature.
20 S. W. Ireland	

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

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

GENERAL INFERENCE.

Pressure is highest to northeast of the British Isles. A depression centred over the Strait of Dover area will move slowly northwest over the country. Further general rainfall will occur in many parts of the country with dull, misty weather. Rain from an Atlantic disturbance will reach Ireland later.

FURTHER OUTLOOK.

Mainly dull. Occasional drizzle, especially in the East.

Forecasts issued at 1030h. G.M.T.  
H.M.S.O. Press, Meteorological Office, Dunstable.

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

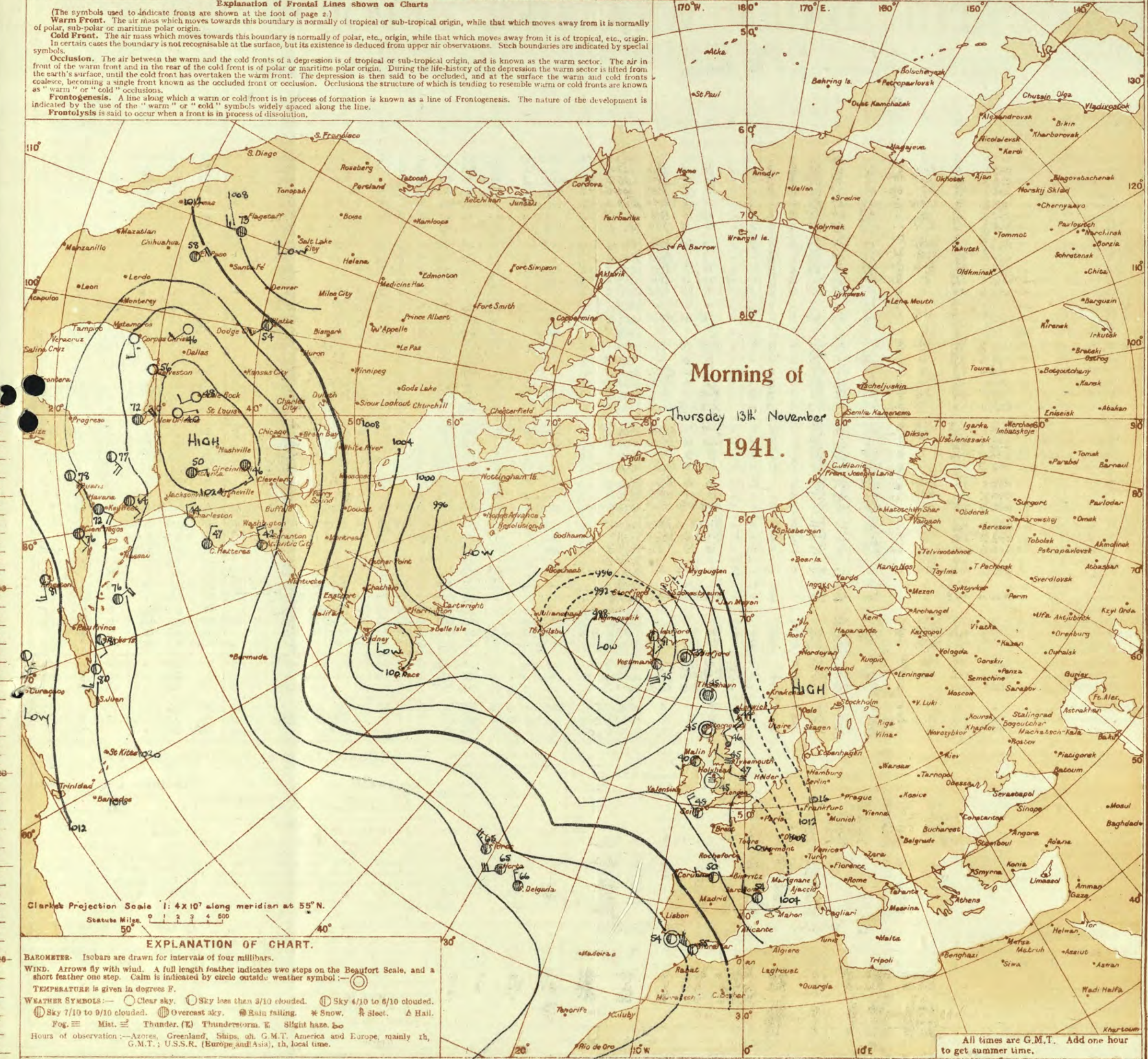
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# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)  
**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.









AIR  
MINISTRY.

## THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET  
BRITISH SECTION

Friday 14th November 1941.

No. 28212

OBSERVATIONS at 13h. G.M.T. 13th November														OBSERVATIONS at 18h. G.M.T. 13th November														PAST 24 HOURS.							
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.					Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.					State of Ground. 0-9	Sea. 0-9	WEATHER.					
				Dir.	Force.					Low.	Med.	High.	Form.	Amount.			Height of Base. (feet)	Dir.					Force.	Low.	Med.	High.	Form.			Amount.	Height of Base. (feet)	7h.—13h. 13h.	13h.—18h. 13h.	18h.—14h. 14h.	14h.—7h. 14h.
1	London (Kew)...	1003.1	0	NW	2	ro. ro.	44	92	5	6	2	3	10	500	1005.3	+18	W	2	ro. ro.	44	92	4	6	2	3	10	500	1	*	Cr. r. m.	ro. r. m.	ro. r. m.	cl. b. f.		
	Croydon ...	1002.3	+2	NW	2	ro. ro.	43	97	4	6	2	4	6	600	1005.7	+22	NW	2	df	42	97	3	6	2	10	10	800	2	*	ch. d. m.	ro. d. f.	fid. b. c.	cl. b. c. m.		
	S. Farnborough	1003.8	+2	NW	3	ro. ro.	44	92	5	6	2	10	10	700	1006.2	+16	NNW	3	rr	42	92	5	5	2	10	10	3000	2	*	R. r. m. c.	cr. r. m.	ro. d. o. b. c.	cl. m. c. f.		
	Boscombe Down	1005.0	-6	NW	3	rr	47	97	4	2	2	10	10	300	1006.4	+10	NW	2	rr	45	97	4	2	2	10	10	450	1	*	or. r. m. r.	or. r. m.	or. o. b. e. o. m.	or. m. c. m.		
	Thorney Island	1003.9	+2	NNW	2	rr	47	97	5	5	2	10	10	1500	1006.3	+12	NW	2	ro. ro.	44	92	6	2	2	10	10	1500	1	*	or. r. m. r.	or. r. m.	or. o. b. e. o. m.	or. m. c. m.		
	Lymington	1003.3	+6	NNW	1	df	43	97	3	2	2	10	10	1150	1006.3	+24	WS	1	df	43	97	3	2	2	10	10	1150	1	\$2	or. d. f.	or. d. f.	or. b. f. m.	or. m. c. m.		
	Manston	1000.6	0	—	0	d. d. o.	45	97	4	5	2	10	10	1000	1005.4	+32	WSW	3	df	43	97	4	5	2	10	10	200	1	*	or. d. f.	or. d. f.	or. b. f. m.	or. m. c. m.		
2	Shoeburyness ...	1003.0	0	N	1	dd	44	97	4	5	2	10	10	300	1004.3	+18	W	2	dr	44	97	3	5	2	10	10	400	1	*	or. d. f.	or. d. f.	or. b. f. m.	or. m. c. m.		
	Felixstowe ...	1001.8	-2	ESE	3	ro. ro.	45	92	5	5	2	4	6	1400	1003.4	+22	SSE	2	m	46	92	4	5	2	10	10	300	1	2	or. d. f.	or. d. f.	or. b. f. m.	or. m. c. m.		
	Gorleston ...	1005.9	+2	E	5	ro. ro.	46	85	6	6	2	10	10	800	1005.2	+14	E'S	5	ro. ro.	46	85	6	5	2	10	10	1000	1	5	or. d. f.	or. d. f.	or. b. f. m.	or. m. c. m.		
	Mildenhall ...	1003.2	-4	N'E	2	ro. ro.	44	97	4	5	2	10	10	200	1004.3	+12	N'E	1	ro. ro.	44	97	2	2	2	10	10	1150	1	*	or. d. f.	or. d. f.	or. b. f. m.	or. m. c. m.		
	Cranwell ...	1004.8	-2	NNE	2	d. d. o.	42	97	4	6	2	3	10	400	1005.3	+16	—	0	ir	43	97	4	6	2	9	10	600	1	*	or. d. f.	or. d. f.	or. b. f. m.	or. m. c. m.		
3	Birmingham	1005.5	0	N	2	rr	43	97	4	6	2	7	8	800	1006.0	+2	NNW	2	rr	41	97	3	6	2	10	10	450	1	*	r	or. r.	or. r.	or. b. f.	or. b. f.	
	Upper Heyford	1003.3	-4	NW	3	rr	43	97	5	6	2	3	10	300	1005.8	+8	NW	3	rr	41	97	4	2	2	10	10	2500	1	*	or. r.	or. r.	or. b. f.	or. b. f.		
4	Ross-on-Wye ...	1005.5	0	NW	2	id.	49	85	4	5	2	10	10	800	1006.1	+6	SW	1	rr	46	97	3	2	2	10	10	500	1	*	or. r.	or. r.	or. b. f.	or. b. f.		
5	Hartland Point	1006.2	-4	NW	3	c	51	85	8	8	6	4	6	2000	1007.6	+14	NNW	2	c	50	75	9	8	2	7	8	1700	1	3	or. r.	or. r.	or. b. f.	or. b. f.		
	Bristol ...	1005.4	-2	NW	1	dr	48	92	4	5	2	10	10	1400	1006.7	+14	NE	1	rr	47	92	3	6	2	3	10	800	1	*	or. r.	or. r.	or. b. f.	or. b. f.		
	Portland Bill ...	1005.6	+4	NW	2	o	51	92	6	5	2	10	10	2500	1006.2	+6	W	2	c	53	92	7	5	2	10	10	2500	1	3	or. r.	or. r.	or. b. f.	or. b. f.		
	Plymouth ...	1005.9	-2	NW	3	c	53	97	7	7	2	7	8	2000	1007.3	+8	NNW	1	bc	46	85	6	1	2	8	10	3000	0	2	or. r.	or. r.	or. b. f.	or. b. f.		
	The Lizard ...	1007.1	0	NW	3	bc	54	65	8	2	6	2	3	4	2500	1007.3	+10	W	3	bc	43	97	8	4	2	2	3	3500	0	3	or. r.	or. r.	or. b. f.	or. b. f.	
	Scilly (St. Mary's)	1007.7	-4	W	1	bc	56	65	9	3	9	3	3	2200	1007.6	+6	SW	2	bc	50	85	9	5	4	1	2	2	2000	1	2	or. r.	or. r.	or. b. f.	or. b. f.	
	Guernsey ...	1007.7	-4	W	1	bc	56	65	9	3	9	3	3	2200	1007.6	+6	SW	2	bc	50	85	9	5	4	1	2	2	2000	1	2	or. r.	or. r.	or. b. f.	or. b. f.	
6	Pembroke	1006.4	-2	NW	4	c	52	97	8	8	6	4	6	2500	1007.1	+10	NW	2	bc	50	85	8	7	4	1	2	3	3000	1	2	or. r.	or. r.	or. b. f.	or. b. f.	
7	Holyhead (Valley)	1005.9	-2	N	1	zo	52	92	5	5	3	7	8	2500	1005.0	-2	—	0	m	49	92	4	5	2	9	10	1500	0	0	or. r.	or. r.	or. b. f.	or. b. f.		
	Chester (Sealand)	1005.3	-2	NW	1	rf	46	97	3	2	2	10	10	1500	1005.9	+2	—	0	rf	44	97	3	2	2	10	10	1000	1	*	or. r.	or. r.	or. b. f.	or. b. f.		
8	Manchester	1006.3	+2	—	0	rf	44	97	3	2	2	10	10	2800	1006.2	+6	—	0	rf	42	97	2	2	2	10	10	2500	1	*	or. r.	or. r.	or. b. f.	or. b. f.		
10	Spurn Head	1005.1	-4	E'S	4	id.	44	97	6	2	2	10	10	1800	1005.2	+2	E'S	4	ro. ro.	45	92	5	6	2	4	6	800	1	4	or. r.	or. r.	or. b. f.	or. b. f.		
	Catterick	1007.4	-2	NE	1	d. d. o.	43	97	4	6	2	7	8	10	600	1006.9	-2	NE	1	ro. ro.	42	97	3	6	2	9	10	600	1	*	or. r.	or. r.	or. b. f.	or. b. f.	
	Tynemouth	1008.1	-4	E	6	ir.	45	92	6	2	2	10	10	1400	1007.6	-2	ESE	5	rr	44	97	6	2	2	10	10	1400	1	5	or. r.	or. r.	or. b. f.	or. b. f.		
11	St. Abbs Head	1009.3	+6	SE	3	ro. ro.	44	97	7	5	2	10	10	1000	1008.3	0	SE	4	ro. ro.	43	92	6	5	2	9	10	1500	1	3	or. r.	or. r.	or. b. f.	or. b. f.		
	Leuchars	1009.3	-2	ESE	3	rr	45	97	5	5	2	10	10	500	1009.0	+2	E	4	ro. ro.	44	97	5	6	2	7	8	10	500	2	*	or. r.	or. r.	or. b. f.	or. b. f.	
12	Renfrew (Abbots L.)	1008.5	-2	ESE	3	ro. ro.	46	92	5	5	2	10	10	1000	1008.5	-2	—	0	ro. ro.	63	97	5	5	2	4	6	10	1100	1	*	or. r.	or. r.	or. b. f.	or. b. f.	
	Eskdalemuir	1007.6	-2	NE	2	RR	41	92	6	6	2	7	8	10	220	1007.2	0	NE'E	2	rr	40	97	6	2	2	10	10	450	1	*	or. r.	or. r.	or. b. f.	or. b. f.	
	Point of Ayre	1006.8	0	E'N	3	c	49	85	7	6	2	2	3	10	1500	1006.4	0	E'S	3	ro. ro.	45	85	7	5	2	7	8	10	1500	1	4	or. r.	or. r.	or. b. f.	or. b. f.
13a	Tiree ...	1007.2	0	ESE	1	c	49	92	7	5	2	3	4	1800	1006.8	0	SE'E	3	c	48	85	7	5	2	9	10	1800	0	3	c	c	cl. d.	cl. d.		
13b	Stornoway	1008.2	-6	ESE	1	c	49	85	8	5	7	4	6	3500	1007.9	+2	SE	4	ro. ro.	49	92	7	5	7	9	10	1500	1	1	c	c	cl. d.	cl. d.		
15	Dalwhinnie	1009.2	+2	SSE	3	rr	41	85	7	5	1	7	8	10	500	1010.0	+4	NNE	1	id.	37	97	6	5	2	10	10	500	1	*	or. r.	or. r.	or. b. f.	or. b. f.	
	Aberdeen	1011.4	-2	SE'S	4	ir.	45	92	6	6	2	7	8	10	300	1011.5	+2	SE	5	ir.	44	92	6	6	2	7	8	10	900	1	5	or. r.	or. r.	or. b. f.	or. b. f.
	Wick ...	1011.6	+2	SE'S	6	dd	45	92	6	6	2	3	10	400	1012.0	+4	SE	6	ro. ro.	44	92	6	6	2	9	10	400	1	*	or. r.	or. r.	or. b. f.	or. b. f.		
16	Sumburgh	1017.1	+2	SE'S	6	ir.	41	85	6	6	2	9	10	800	1018.2	+6	SE	8	ro. ro.	41	85	6	6	2	9	10	800	1	7	or. r.	or. r.	or. b. f.	or. b. f.		
17	Blackad Point...	1004.5	-8	SE	3	c	47	75	8	2	6	0	7	8	—	1005.3	+10	S'E	3	ir.	47	85	8	6	2	10	10	2500	1	*	or. r.	or. r.	or. b. f.	or. b. f.	
18	Malin Head	1006.1																																	

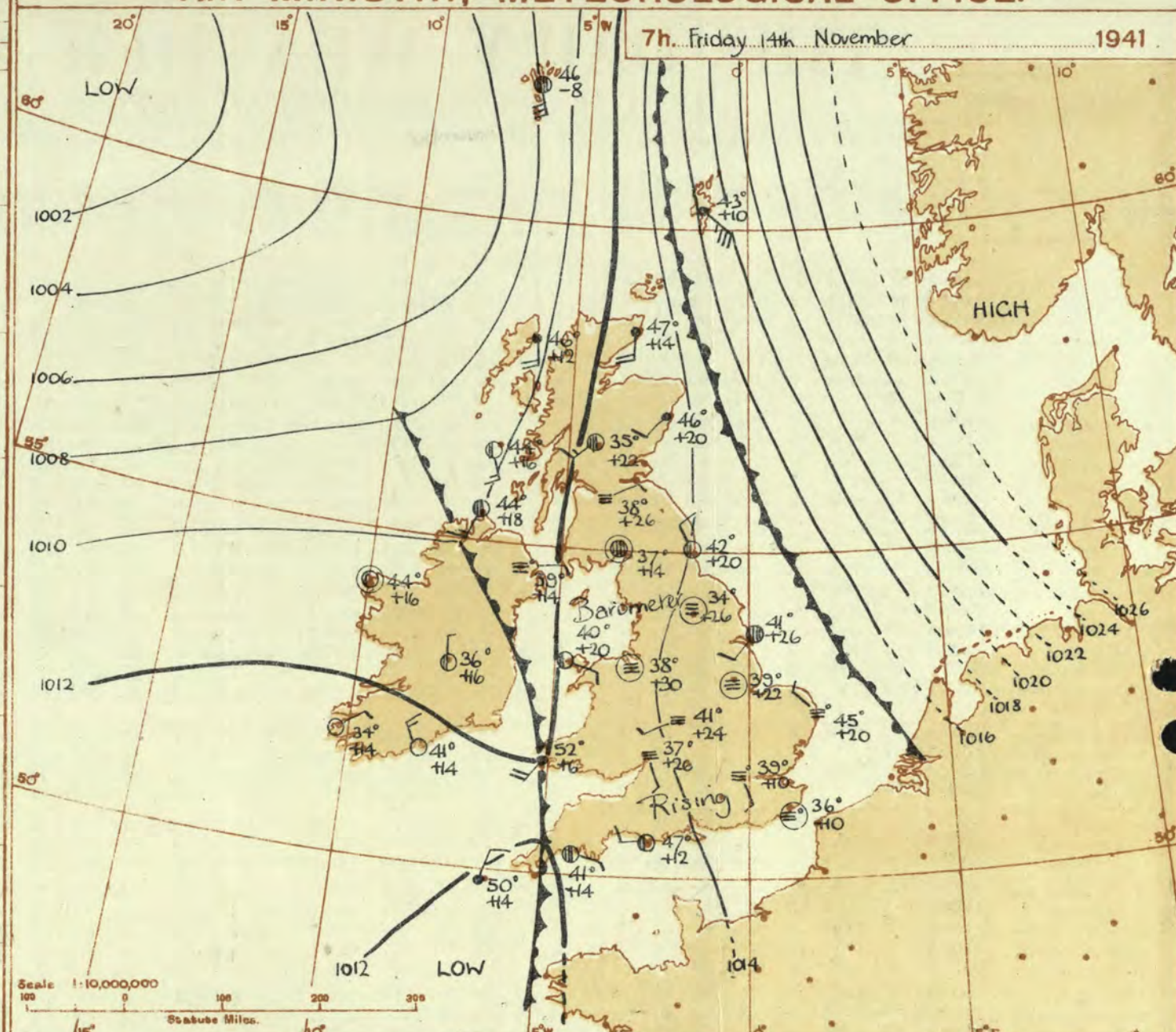


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 13th November 18h. G.M.T.							01h. G.M.T. 4th November 07h. G.M.T.						
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	
109				6-	22638	11668	6-	62638	44668	62	05645	12568	
115	52	02844	14327				02	62738	14468	52	62835	18368	
203	5-	02848	08228	6-	61838	12368	6-	62638	12368	6-	61938	12468	
206	52	62846	12168	5-	62758	10368	5-	62748	10268	50	01964	00064	
210	52	62734	09268	52	61746	10268	02	02768	08268	57	02865	12227	
220	53	02844	13216	80	25645	10385				50	01744	17214	
230	52	02847	08128	5-	62758	08168	52	62747	00068	57	02857	00068	
245	62	52636	10468	62	62635	05638	62	58537	12568	5-	47347	00067	
260	62	62435	04168				62	62545	00068	50	43661	00061	
278	57	02755	28127	5-	6.758	12268	52	02764	13258	5-	05666	14216	
279	02	64638	04268	02	64538	02268	52	51545	08158	5-	05558	00058	
285	6-	63538	08464	6-	64538	10468				5-	03748	00019	
288	62	61535	06168	62	64455	06268	02	57328	00088	07	43390	18155	
575	15	09651	11114	50	05681	12113	00	45190	08140	57	04643	10164	
801	62	64436	04168	62	67345	00068	5-	22544	08164	5-	47357	12217	
921	02	52438	01258	02	67328	04268	5-	08447	31157	--	48209	21149	
299				5-	64648	08468	5-	54548	10558	5-	05648	00.28	
292	5-	52528	02168	02	64548	05168	02	05548	00002	5-	05548	60028	
310	--	08428	04228	--	63428	0.458				--	46209	04249	
614	62	52435	02268	02	64328	04168	51	08444	24165	02	08448	00028	
338	83	05654	30127	52	05654	00028	50	00761	26121	53	02951	00045	
334	--	04556	20217	--	63437	18288				--	04390	00028	
340	02	66327	32168	02	64328	32168	52	43368	16148	--	44109	15149	
136	5-	58548	06268	62	52417	09268	02	57308	16268	07	47290	04158	
336	--	46309	16343	52	22744	20368				--	42209	16349	
350	52	21525	28258	62	62348	26358	5-	45268	16148	51	08444	14248	
368	5-	08468	18168	5-	08437	23128	00	05590	00050	00	47190	00040	
379	5-	64428	32368	62	64525	32368	00	05590	20260	03	45190	18146	
390	52	57317	00058	5-	57208	27258	5-	43338	24348	5-	45346	24146	
382	62	64636	28368	02	62558	30258	50	05553	00023	5-	48109	00048	
438	6-	66308	30248							51	02754	04217	
430	52	62544	26268	52	62676	30266	5-	43367	32167				
409	10	01954	26324	50	01953	24313	50	00752	14302	50	01854	14364	

III - Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W - Present and past weather—See M.O. 252.  
h, N<sub>h</sub> - Height and amount of low cloud—See M.O. 252.  
N - Total amount of cloud—See M.O. 252.  
C<sub>M</sub> - Form of low and medium cloud—See page 1.  
V - Visibility. F - Force of wind—See page 4.  
DD - Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday November 14th 1941

1 S.E. England	Calm to light variable breeze; fair at first apart from rather persistent mists and local fog; probably overcast with rain later; rather cold.
2 E. England ...	
3 E. Midlands ...	Calm to light variable breeze; fair apart from rather persistent local fog and mist; rain probable later; rather cold.
4 W. Midlands ...	
5 S.W. England	Light variable winds; cloudy; some occasional rain or showers; some fog at night; rather cold.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	Light variable breeze; mainly fair but considerable cloud at times; average temperature.
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	Light to moderate southerly winds; mainly cloudy; some occasional rain; average temperature.
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	Light winds mainly between South and West; bright periods; some showers; fog patches at night and morning; rather cold.
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

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

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.

GENERAL INFERENCE.

Pressure is high to eastward of the British Isles. A very complex trough of low pressure covers western Europe, and pressure is fairly uniform over the country. Fog or mist will tend to persist in many areas especially near towns. It is expected that further general rain may spread up from the South.

FURTHER OUTLOOK.

Continuing unsettled generally.  
Gale warning in operation in district 16 (part).  
Time of issue 2025 on 13/11/41

Forecasts issued at 1030 G.M.T.  
H.M.S.O. Press, Meteorological Office Dunstable.

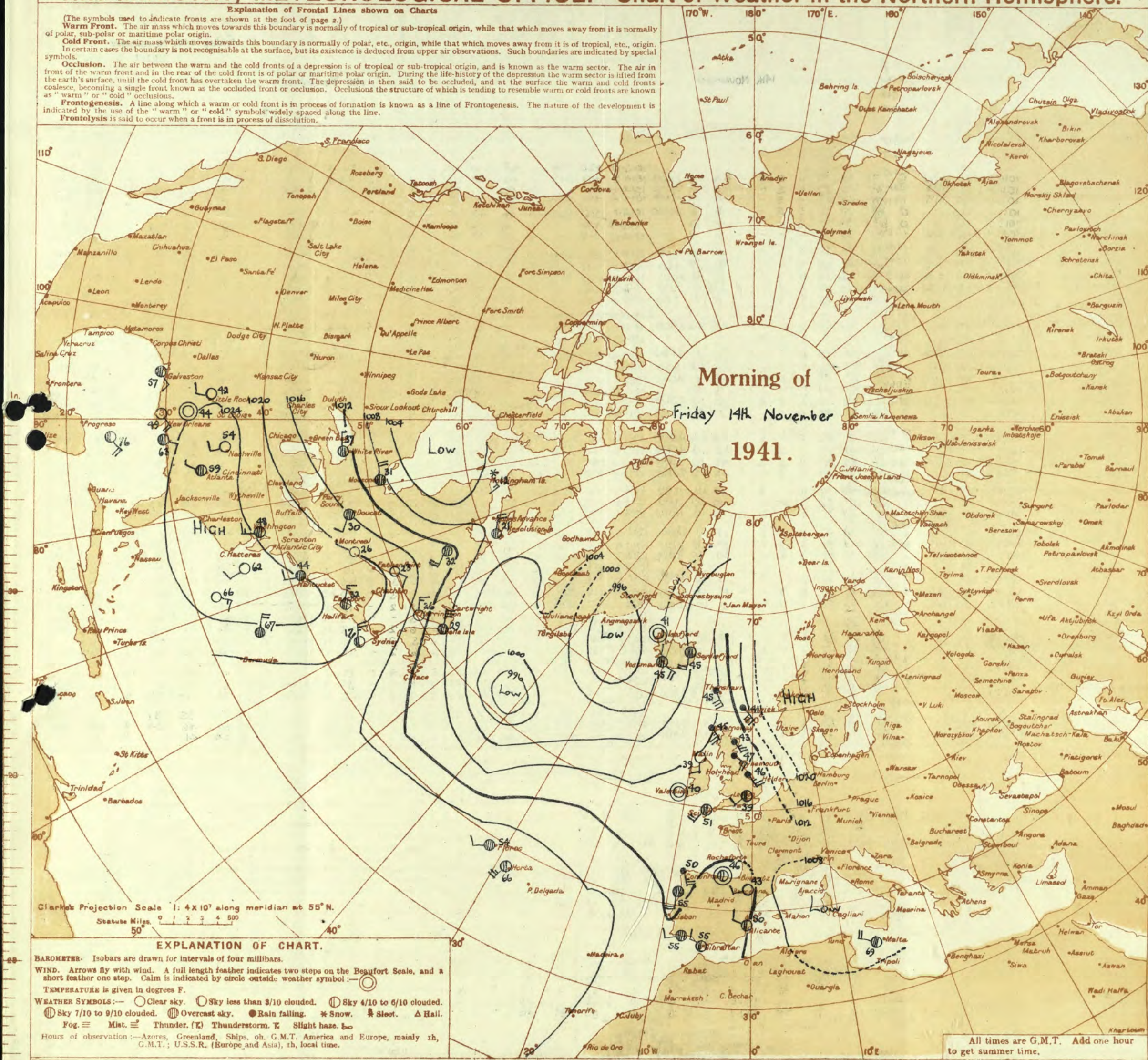
N. K. JOHNSON, D.Sc., A.R.C.S.  
Director.



# 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 at the foot of page 2.)  
**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.



Clark's Projection Scale 1: 4 x 10<sup>7</sup> along meridian at 55° N.

Statute Miles. 0 1 2 3 4 5 6 7 8 9 10

## EXPLANATION OF CHART.

**BAROMETER.** Isobars are drawn for intervals of four millibars.

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

**TEMPERATURE** is given in degrees F.

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

Fog. ≡ Mist. ≡ Thunder. (T) Thunderstorm. T Slight haze. so

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

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



THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Friday 14th November 1941  
No. 29212

OBSERVATIONS at 1 hr. G.M.T. 14th November															OBSERVATIONS at 7 hr. G.M.T. 14th November															PAST 24 HOURS.							
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Temp. °F. (6)	Humid. % (7)	Visibility. (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Temp. °F. (20)	Humid. % (21)	Visibility. (22)	Cloud.					State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		SON-SHINE (36)			
					Direc. (3)	Force. (4)				Weather. (5)	Form. (9)	Amount. (10)	Height of Base. (feet) (11)	Direc. (17)			Force. (18)	Weather. (19)				Form. (23)	Amount. (24)	Height of Base. (feet) (25)	Max. Day 7h-15h °F. (31)	Min. Night 15h-7h °F. (32)			Min. on Grass °F. (33)	Day 7h-15h mm. (34)	Night 15h-7h mm. (35)						
																																Low. (12)	Med. (13)		High (14)	Low (26)	Med. (27)
1	London (Kew) ... 18	217	1011.3	+24	WSW	1	20	39	97	6	3	3	4-6	7-8	3000	1015.0	+20	NE	1	bf	40	97	2	-	-	0	0	-	1	*	47	38	31	9	Tr	0.0	
	Croydon ... 217	1011.3	+24	WSW	1	20	39	97	6	3	3	4-6	7-8	3000	1014.8	+10	SSE	1	bf	39	97	4	-	7	0	0	-	1	*	46	37	32	9	Tr	0.0		
	S. Farnborough ... 226	1011.4	+22	SW	2	m	40	97	4	3	-	-	7-8	7-8	3000	1014.6	+12	-	0	m	42	97	4	-	-	0	0	-	1	*	47	37	31	22	0.5	0.0	
	Boscombe Down ... 417	1011.1	+20	SE	1	m	40	97	4	3	-	-	10	10	1200	1014.4	+14	WNW	1	bf+	42	97	4	-	-	0	0	-	1	*	47	35	32	7	0.4	0.0	
	Thorney Island ... 10	1011.3	+20	-	0	bf+	40	97	3	5	-	-	Tr	Tr	3000	1014.1	+10	NE	1	m	43	97	4	5	1	-	4-6	4-6	450	1	*	43	38	34	11	0.2	*
	Lympne ... 346	1012.2	+26	-	0	bf+	34	97	2	-	-	-	0	0	-	1000.4	+10	-	1	m	36	97	4	5	-	-	4-6	4-6	4500	1	3	45	31	28	2	-	0.0
	Manston ... 154	1011.4	+26	SW	1	m	37	97	4	-	-	-	0	0	-	1015.0	+18	-	0	of	38	97	1	5	-	-	10	10	1150	1	*	46	35	29	2	Tr	0.0
2	Shoeburyness ... 11	1013.9	+20	SE	1	ft	41	97	2	-	-	-	10	10	1150	1015.1	+16	WN	1	cf-	39	97	3	5	2	-	3	10	1800	1	*	45	37	31	2	Tr	0.0
	Felixstowe ... 15	1010.1	+30	SW	1	m	44	97	4	5	-	-	10	10	450	1014.2	+22	NWN	2	ft	40	97	2	-	-	10	10	1150	1	*	46	40	37	1	-	0.0	
	Gorleston ... 5	1010.3	+24	SSE	2	z	46	92	6	5	-	-	10	10	800	1014.8	+20	NW	1	m	45	97	4	5	-	-	10	10	300	1	3	47	44	43	1	0.2	*
	Mildenhall ... 19	1010.5	+36	SWW	2	z	43	97	5	5	-	-	10	10	800	1014.7	+18	-	0	z	40	97	5	5	-	-	10	10	2000	1	*	44	36	36	3	0.6	0.0
	Cranwell ... 240	1010.9	+30	N	1	m	40	97	4	5	-	-	3	3	800	1014.5	+22	-	0	of	39	97	2	5	-	-	10	10	3000	1	*	46	35	30	13	1	0.0
3	Birmingham ... 535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.8	+24	WSW	1	F	41	97	1	-	-	-	10	10	1150	1	*	45	40	37	17	4	0.0
	Upper Heyford ... 408	1010.4	+22	W&W	2	m	41	97	4	5	-	-	4-6	4-6	2000	1014.1	+18	ESE	1	F+	38	97	1	-	-	-	10	10	1150	1	*	45	36	34	17	2	*
4	Ross-on-Wye ... 223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.2	+26	SE	1	F	37	97	1	5	-	-	10	10	1150	1	*	43	36	31	5	0.4	0.0
5	Hartland Point ... 299	1009.8	+10	SSW	3	b	44	85	8	5	-	-	1	1	2500	1012.4	+14	SSE	3	c	45	83	8	5	3	-	4-6	7-8	1000	0	*	52	42	39	3	-	0.2
	Bristol ... 209	1010.6	+22	SW	1	bcf-	47	92	3	5	-	-	4-6	4-6	800	1014.4	+22	-	0	bcF+	33	97	1	5	-	8	2-3	4-6	1000	1	*	43	29	23	1	Tr	0.0
	Portland Bill ... 32	1010.6	+22	WNW	3	c	52	85	7	5	-	-	7-8	7-8	4000	1013.4	+12	W	2	bc	47	85	7	2	-	-	4-6	4-6	4000	1	3	53	44	*	-	*	0.0
	Plymouth ... 82	1010.3	+14	SE	2	z	37	97	5	-	-	-	0	0	-	1013.0	+14	ESE	1	c	41	97	8	5	-	-	7-8	7-8	3500	0	2	54	35	30	-	Tr	2.3
	The Lizard ... 240	1009.4	+8	SW	3	c	52	85	8	6	-	-	7-8	7-8	2000	1011.7	+12	S	4	c	53	92	8	6	-	-	3+	10	2500	0	4	54	47	*	-	8.4	
	Scilly (St. Mary's) ... 163	1008.5	+8	SWW	3	c/pr	51	97	8	5	-	-	9	9	1500	1011.5	+14	NNE	2	ir	50	97	8	8	7	-	7-8	10	1500	1	3	57	48	*	-	6	8.4
	Guernsey ... 175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6	Pembroke ... 142	1009.2	+10	S	4	bc	51	85	8	1	6	-	2-3	4-6	4000	1012.1	+6	SW'S	4	rr	52	97	7	8	6	-	7-8	9+	2500	1	3	52	46	*	0.3	4	1.6
7	Holyhead (Valley) ... 26	1008.1	+18	E	1	bc	41	97	7	5	-	-	2-3	2-3	4000	1012.5	+20	ESE	1	bc	40	97	8	1	3	9	Tr	2-3	3000	1	*	53	38	31	-	0.5	*
	Chester (Sealand) ... 16	1009.3	+16	SE'E	2	m	43	92	4	5	2	-	9+	10	2100	1013.8	+30	-	0	F+	38	97	1	-	-	10	10	1150	1	*	48	37	33	9	4	0.0	
8	Manchester ... 235	1009.6	+14	-	0	m	39	97	4	5	-	-	4-6	4-6	2500	1014.2	+30	-	0	m	41	97	4	5	-	-	10	10	2000	2	*	45	37	34	10	7	*
10	Spurn Head ... 29	1008.4	+22	SE	3	d, do	46	92	5	-	2	3	10	10	1500	1014.6	+26	SW'S	2	0	41	92	5	-	2	-	10	10	7200	1	3	45	40	*	5	0.2	
	Catterick ... 175	1009.6	+18	-	0	of	41	97	2	5	-	-	10	10	200	1014.6	+26	-	0	cf	34	97	3	5	3	-	7-8	7-8	2500	1	*	45	34	28	8	3	0.0
	Tynemouth ... 108	1008.9	+12	ESE	5	rr	47	97	6	-	2	-	10	10	1500	1014.1	+20	NW	2	bc	42	92	6	5	-	-	4-6	4-6	2500	1	4	46	41	40	4	8	*
11	St. Abbs Head ... 280	1008.7	+6	S	3	ro, ro	44	97	6	5	2	-	7-8	10	1500	1012.6	+18	N	2	c	40	97	7	5	4	-	4-6	7-8	2000	1	2	45	40	*	8	10	*
	Leuchars ... 36	1009.1	+6	-	0	rr	42	97	6	5	2	-	9+	10	800	1013.4	+26	NW	1	b	37	97	7	5	-	1	1	1	3500	2	*	47	37	32	11	8	0.0
12	Renfrew (Abbots I.) ... 19	1009.4	+6	NE	1	of+	37	97	3	5	-	-	10	10	700	1013.7	+26	ENE	1	m	38	97	4	5	-	-	10	10	1200	1	*	42	35	30	3	19	0.0
	Exkdalemuir ... 794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1014.5	+14	-	0	0	37	97	6	5	-	-	10	10	800	1	*	47	35	35	10	9	0.0
	Point of Ayre ... 30	1008.3	+12	-	0	0	44	97	7	-	2	-	10	10	2500	1012.6	+26	SE	3	z	47	92	6	5	3	-	4-6	9+	2000	1	3	48	41	*	2	1	0.1
13A	Tiree ... 22	1007.0	0	SES	3	d	48	92	6	5	-	-	10	10	1500	1009.9	+16	SE	3	bc	44	85	8	2	3	-	2-3	2-3	2500	0	3	48	44	*	-	0.5	0.0
13B	Stornoway ... 80	1007.0	0	SE	5	rr	48	92	7	5	2	-	9	10	1000	1009.1	+12	S	4	bc	46	92	8	5	2	-	9	10	2000	1	2	48	45	*	0.2	7	0.0
15	Dalwhinnie ... 1178	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1013.2	+22	SW	3	c	35	92	7	5	-	-	7-8	7-8	1500	1	*	42	32	31	3	7	0.0
	Aberdeen ... 79	*	*	*	*	*	45	*	*	*	*	*	*	*	*	1013.5	+20	SW'S	4	ir	46	97	6	6	2	-	7-8	10	800	1	5	46	42	40	6	10	0.0
	Wick ... 119	1010.8	-4	SSE	6	ir	45	85	6	5	2	-	7-8	10	600	1012.3	+14	S	4	ro, ro	47	92	6	5	2	-	7-8	10	800	2	*	47	42	40	8	4	0.0
16	Sumburgh ... 30	1015.9	-10	SE	8	ro, ro	42	85	6	6	2	-	9+	10	800	1017.0	+10	SE	7	ro, ro	43	85	6	6	2	-	9+	10	800	1	7	43	39	38	7	5	0.0
17	Blackad Point ... 18	1007.1	+12	SW	3	bc	45	85	8	2	4	-	2-3	4-6	2500	1011.1	+16	-	0	pr	44	92	8	-	4	-	0	1	-	*	47	41	*	0.1	1	*	
18	Main Head ... 84	1007.0	+10	S	2	z	39	97	5	-	-	-	0	0	-	1018.3	+18	SSW	3	c	44	85	7	8	-	-	9	9	5700	0	3	57	38	*	-	-	4.5
	Aldergrove ... 268	1008.4	+10	-	0	z	43	97	5	5	-	-	7-8	7-8	2800	1011.7	+14	E	1	cf+	39	97	3	5	7	-	4-6	9+	2500	1	*	46	39	35	Tr	Tr	0.8
19	Birr Castle ... 173	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1011.8	+16	N	1	bc	36	97	7	5	-	-	0	2-3	-	1	1	52	35	31	-	1	5.3
20	Valentia Obay. ... 30	1009.8	+14	-	0	b	40	85	8	1	-	1	Tr	1	2500	1012.7	+14	ENE	1	b	34	97	9	-	-	-	0	0	-	1	1	52	46	34	4	1	2.0
	Roche's Point ... 22	1008.2	+16	NW	4	bc	46	85	8	5	-	-	2-3	2-3	2500	1012.4	+14	NWN	3	b	41	97	8	-	-	-	0	0	-	1	1	54	41	*	-	1	*

[illegible]

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

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



AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

## SECRET

 Saturday 15th November 1941.  
 No 25213.

OBSERVATIONS at 13h. G.M.T. 14th November														OBSERVATIONS at 18h. G.M.T. 14th November														PAST 24 HOURS.					
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.				Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.				State of Ground.	Sea.	WEATHER.					
				Dir.	Force.					Form.	Amount.	Height of Base (feet)	Dir.			Force.	Form.					Amount.	Height of Base (feet)	7h.—18h. 14th	18h.—18h. 14th			18h.—14th 15th	1h.—7h. 15th				
1	London (Kew)...	1016.4	0	WNW	1	46	82	2	5	-	3+	3+	4000	1018.2	+12	NE/N	3	46	85	5	5	-	3+	3+	2500	1	*	oFeFe	bFeFe	cd dcm	cz		
	Croydon ...	1016.3	-2	NW	1	48	85	5	5	3	-	2-3	3+	4500	1017.8	+10	NNE	3	45	85	4	5	-	10	10	2100	1	*	cmf	cfcm	cmodd	cmo	
	S. Farnborough	1016.6	-2	-	0	47	85	5	5	7	-	0	7-8	-	1018.5	+10	NW	1	45	87	1	5	-	10	10	400	1	*	cmfcm	cmofw	cmofw	afwbccm	
	Boscombe Down	1016.7	0	N	1	45	87	2	5	-	1	9	2500	1018.0	+10	N	2	43	87	1	5	-	10	10	1150	1	*	coff	cm	om	cm		
	Thorney Island	1016.2	+2	NE	1	51	85	6	5	3	1	0	9	-	1017.2	+8	NNE	1	43	87	5	4	-	0	Tr	-	0	*	bccm	cbccm	bccid	oidcm	
	Lymington	1016.4	-2	N	1	46	85	5	5	7	5	0	9	-	1017.4	+8	NNE	1	43	87	3	5	-	10	10	1150	1	*	cmf	cmf	cmf	cmf	
	Manston	1015.7	-2	NW	2	45	85	6	5	3	6	0	9	-	1017.0	+14	NE/E	3	45	82	4	5	-	10	10	1100	1	*	cmf	cmf	cmf	cmf	
2	Shoeburyness	1016.5	-4	N	1	46	85	5	5	4	2	0	9+	-	1017.7	+8	NW	1	45	87	4	5	-	10	10	300	1	*	cfcm	cmf	cmf	cmf	
	Felixstowe	1015.8	-2	N	1	46	82	5	5	-	-	10	10	600	1017.7	+12	E/N	4	44	85	5	5	-	10	10	1500	1	3	cfcm	cmf	cmf	cmf	
	Gorleston	1017.2	+2	-	0	46	82	4	5	-	-	10	10	450	1019.5	+16	E	4	45	85	5	5	-	10	10	800	1	4	cmf	cmf	cmf	cmf	
	Mildenhall	1017.1	+2	-	0	45	82	6	5	1	-	7-8	10	2500	1018.2	+8	N	1	44	82	5	5	-	10	10	400	1	*	cmf	cmf	cmf	cmf	
	Cranwell	1017.3	+2	-	0	44	82	4	5	-	-	10	10	800	1019.0	+10	NNE	1	41	87	3	5	7	-	4-6	2+	200	1	*	cfcm	cmf	cmf	cmf
3	Birmingham	1016.7	+2	E	1	43	87	2	-	-	-	10	10	1150	1018.6	+12	NE	1	41	87	2	5	-	10	10	1150	1	*	FF	FF	FF	FF	
	Upper Heyford	1016.8	+6	NW	1	42	87	1	-	-	-	10	10	1150	1018.7	+8	NE	2	42	87	1	-	-	10	10	1150	1	*	FF	FF	FF	FF	
4	Ross-on-Wye	1016.7	+4	N/E	1	41	87	1	5	-	-	10	10	1150	1018.3	+12	ENE	2	41	87	2	5	-	10	10	200	1	*	FF	FF	FF	FF	
5	Hartland Point	1014.6	+6	SSE	3	53	75	8	5	6	-	4-6	7-8	2500	1016.8	+14	SSE	3	51	75	8	8	-	9	9	2000	0	3	cbcc	cbcc	cbcc	cbcc	
	Bristol ...	1016.8	+2	-	0	44	87	2	-	-	-	10	10	1150	1018.2	+10	ENE	1	43	87	3	5	-	10	10	200	1	*	FF	FF	FF	FF	
	Portland Bill	1015.9	+4	E	2	51	85	8	5	7	-	7-8	10	2500	1017.2	+6	ENE	2	46	85	7	4	-	4-6	4-6	4000	0	2	cbcc	cbcc	cbcc	cbcc	
	Plymouth	1015.1	+2	SE	3	56	75	8	7	-	8	2-3	4-6	2500	1016.6	+12	SSE	1	47	82	7	5	-	8	2-3	4-6	3000	0	2	cbcc	cbcc	cbcc	cbcc
	The Lizard	1014.1	+10	SSW	4	54	82	8	8	6	-	7-8	7-8	1500	1015.9	+10	SW	2	52	82	8	8	-	4-6	4-6	1500	1	3	cbcc	cbcc	cbcc	cbcc	
	Soilly (St. Mary's)	1014.1	+8	-	0	53	87	8	8	7	-	7-8	10	1200	1015.3	+12	SE	1	51	87	8	8	7	-	7-8	9+	1200	1	2	cbcc	cbcc	cbcc	cbcc
	Guernsey	1014.7	+10	S	4	52	87	8	8	6	-	4-6	7-8	2500	1016.4	+10	SSE	2	51	87	8	8	4	-	4-6	4-6	1500	1	3	cpr	cpr	cpr	cpr
6	Pembroke	1014.7	+10	S	4	51	75	8	8	7	-	7-8	9+	2200	1016.7	+10	SE	1	49	82	6	5	-	9+	9+	1500	1	1	cbcc	cbcc	cbcc	cbcc	
7	Holyhead (Valley)	1014.7	+6	SE	1	45	87	2	5	-	-	10	10	100	1018.7	+16	SE	2	42	87	1	-	-	10	10	400	1	*	FF	FF	FF	FF	
8	Chester (Sealand)	1016.7	+6	SE	1	47	82	4	5	3	9	2-3	10	3000	1018.8	+16	SE	2	43	87	1	-	-	10	10	1150	1	*	cmf	cmf	cmf	cmf	
	Manchester	1017.2	+6	-	0	47	82	4	5	3	9	2-3	10	3000	1018.8	+16	SE	2	43	87	1	-	-	10	10	1150	1	*	cmf	cmf	cmf	cmf	
10	Spurn Head	1017.4	+12	S/W	2	43	82	3	-	-	-	10	10	1150	1019.2	+12	SE	4	45	87	6	5	-	10	10	2500	1	3	cfcm	cmf	cmf	cmf	
	Catterick	1018.0	+4	S	1	42	82	5	-	3	-	0	9+	-	1020.3	+14	WNW	1	37	87	2	5	-	10	10	1700	1	-	cfcm	cmf	cmf	cmf	
	Tynemouth	1017.5	+10	NW	2	45	85	4	5	-	-	9+	9+	2600	1019.4	+8	NNE	2	46	87	6	5	-	9+	9+	2500	1	5	bccm	cmf	cmf	cmf	
11	St. Abbs Head	1017.5	+10	S	2	43	82	8	5	4	5	4-6	7-8	2000	1019.5	+8	S	2	43	82	8	4	4	-	4-6	7-8	1500	1	3	c	c	cmf	cmf
	Leuchars	1017.6	+18	W	1	42	82	6	-	8	0	7-8	9+	-	1020.4	+20	-	0	37	82	5	-	4	-	0	1	-	2	3	bccm	cbccm	cbccm	cbccm
12	Reafrew (Abbots L.)	1017.1	+14	WSW	1	41	82	4	5	-	-	7-8	7-8	4000	1019.7	+16	E/N	1	43	75	3	5	-	10	10	3000	1	*	cm	cm	cm	cm	
	Eskdalemuir	1017.7	+10	-	0	39	87	2	-	-	-	10	10	1150	1020.1	+16	NE/N	1	36	87	6	5	-	2-3	2-3	2500	1	*	coffe	cfcc	cbcc	cbcc	
	Point of Ayre	1015.7	+10	S/E	4	49	85	6	5	-	-	9	9	2500	1018.2	+6	SE/S	4	49	85	7	5	1	-	7-8	10	1800	0	3	cmz	cmz	cmz	cmz
13A	Tiree	1014.4	+22	S/W	4	50	75	8	2	-	-	4-6	4-6	2500	1016.8	+10	SSE	1	49	82	8	8	-	2-3	2-3	2500	1	2	cbcc	cbcc	cbcc	cbcc	
13B	Stornoway	1013.6	+16	SSE	5	49	85	8	5	7	-	7-8	9+	2000	1017.4	+18	SSW	3	46	82	7	8	7	-	4-6	9+	2000	1	2	cpr	cpr	cbcc	cbcc
15	Dalwhinnie	1016.0	+6	SW	2	43	75	8	1	5	1	1	1500	1019.7	+18	NE	2	37	85	8	8	-	7-8	7-8	1500	1	*	bc	bc	cbcc	cbcc		
	Aberdeen	1017.3	+14	SSW	2	45	82	6	5	7	-	7-8	10	1100	1020.8	+24	SW	1	42	82	6	-	7	-	0	4-6	-	1	4	cir	cbcc	cbcc	cbcc
	Wick	1016.0	+20	S/W	3	47	85	9	1	-	-	4-6	4-6	2500	1019.0	+22	SE	3	45	85	6	5	4	8	Tr	4-6	2500	1	*	cir	cbcc	cbcc	cbcc
16	Sumburgh	1019.3	+6	SE/S	6	44	85	6	6	2	-	9+	10	1000	1021.6	+14	SSE	5	44	82	6	6	2	-	9+	10	1000	1	6	cbcc	cbcc	cbcc	cbcc
17	Blackad Point	1014.4	+12	SSE	1	52	75	8	2	-	-	1	1	4000	1015.5	+8	-	46	85	8	-	-	3	0	2-3	-	0	*	bc	bc	bb	bb	
18	Malin Head	1014.6	+18	S	1	50	75	8	7	-	-	2-3	2-3	5700	1016.5	+12	SSW	1	41	82	8	-	-	0	0	-	0	2	bc	bc	cbcc	cbcc	
	Aldergrove	1016.2	+18	-	0	46	87	6	5	-	-	9+	9+	1200	1017.9	+10	-	0	43	87	2	5	-	2-3	2-3	2000	1	*	cfcm	cfcm	cfcm	cfcm	
19	Birr Castle	1015.1	+2	NNE	1	50	85	8	-	-	-	0	0	-	1016.5	+2	NE	1	40	87	3	-	-	10	10	1150	1	*	cfcm	cfcm	cfcm	cfcm	
20	Valentia Obay.†	1015.1	+4	NNE	2	51	75	9	1	3	2	Tr	4-6	2500	1015.9	+6	E/N	2	40	85	9	1	-	Tr	Tr	2500	1	2	cfcm	cfcm	cfcm	cfcm	
	Roches Point	1015.2	+2	NW	2	51	85	8	1	4	-	1	2-3	4000	1016.7	+14	E/N	1	45	82	8	-	5	0	2-3	-	1	2	bbc	bbc	bbc	bbc	

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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



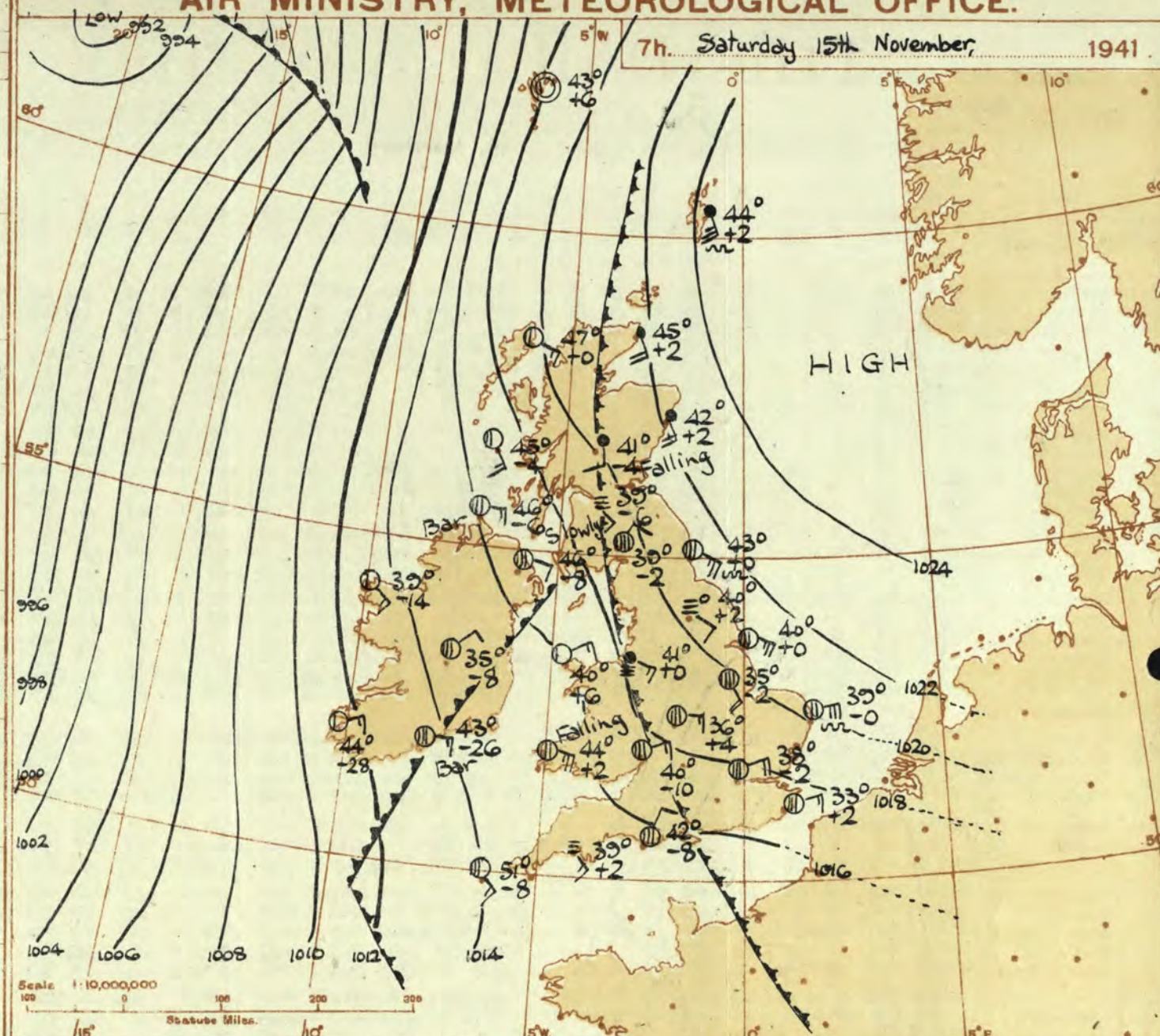
Abridged observations of additional stations in the

# AVIATION WEATHER CODE

13h. G.M.T. 14th November				15th November				15th November				15th November			
III	C <sub>1</sub>	wwVhN <sub>1</sub>	DDFWN <sub>1</sub>	C <sub>2</sub>	wwVhN <sub>2</sub>	DDFWN <sub>2</sub>	C <sub>3</sub>	wwVhN <sub>3</sub>	DDFWN <sub>3</sub>	C <sub>4</sub>	wwVhN <sub>4</sub>	DDFWN <sub>4</sub>	C <sub>5</sub>	wwVhN <sub>5</sub>	DDFWN <sub>5</sub>
109	5-	22646	14366	5-	01642	13314	5-	05647	12417	5-	52528	45558	5-	52528	45558
115	54	02944	16225	54	02944	20425	54	02854	16225	52	02844	12227	52	02844	12227
203	57	02845	16416				50	01943	12313	50	00843	12203			
206	53	01763	00014	53	05563	00015	07	05690	00026	57	02764	00025			
210	54	01962	12215	03	01890	11114	03	01890	10114	52	02864	12228			
220	83	01843	21384	80	01753										
230	57	02754	00026	5-	02766	00026	5-	05757	00017	53	05782	08116			
245	54	05642	20246	54	05543	25124	5-	51438	10348	62	64536	45468			
260	--	48109	04149	04	49390	00043	5-	45348	08148	5-	45345	04148			
2785	61648	16145		5-	02648	10268	5-	01755	12315	5-	05665	11215			
279	00	05520	06314	04	05690	04212	00	05690	03300	5-	57358	06358			
285	5-	02747	12217							--	67209	08569			
288	04	05620	16116	5-	47357	00027	5-	45238	12168	5-	05647	12257			
575	--	46109	12149	--	46109	00049	--	46109	00049	5-	57228	00058			
301	00	41490	12244	00	47290	12240	00	43390	12240	5-	08447	10347			
321	--	46109	00049	--	48109	00049	5-	67138	07158						
299	5-	05538	00048	07	42490	27147	5-	52648	10368	80	02737	12427			
292	--	01634	04214	--	48109	32319				5-	02758	10328			
310	6145	45338	00048	5-	47145	00045	02	57318	08258	6-	05557	08358			
338	53	02965	12227	5-	22957	00067	5-	01754	00014	04	00890	00013			
334	--	14454	30115	--	01664	24115	--			--	04209	00028			
340	5-	05648	12248	5-	08438	12128	--	44209	32149	5-	41648	10358			
136	02	61800	26148	02	62428	08268	00	05690	08260	5-	05666	07316			
336	54	01643	16345	53	01742	12315				--	42209	04349			
350	5-	05538	00048	5-	04338	01128	5-	43348	06258	5-	05658	06428			
308	50	08424	07346	--	46009	06349	--	46109	07349	5-	45338	06348			
379	--	46109	18149	--	46109	12149	5-	21408	04348	50	05653	04353			
390	5-	08458	28148	5-	57338	30148	50	08453	06243	5-	05658	09428			
382	5-	46203	00048	--	48109	02249	5-	57328	31258	5-	05657	03328			
426	5-	02657	04227												
430										5-	05548	02328	5-	05648	02328
400	57	51745	16327	57	02743	14266	50	01743	12383	54	01744	13215			

III - Index Number of Station - See M.O. 252 or list issued on 1st of each month.  
 ww, W - Present and past weather - See M.O. 252.  
 h, N<sub>h</sub> - Height and amount of low cloud - See M.O. 252.  
 C, C<sub>1</sub> - Total amount of cloud - See M.O. 252.  
 C, C<sub>2</sub> - Form of low and medium cloud - See page 1.  
 V - Visibility.  
 F - Force of wind - See page 1.  
 DD - Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

## AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 15th November 1941
1 S.E. England	Freshening E. to S.E. wind; fine; cold; frost at night.
2 E. England	
3 E. Midlands	Freshening E. to S.E. wind; dry weather but variable cloud; cold; frost at night.
4 W. Midlands	
5 S.W. England	Moderate E. to S.E. wind; dull with some drizzle and fog at first; fair or fine later; cold; frost at night.
6 South Wales	
7 North Wales	Light to moderate E. to S.E. wind; cloudy; slight local rain or drizzle; rather cold.
8 N.W. England	As 4.
9 N. Midlands	Fresh E. to S.E. wind; cloudy or dull; rain at first; rather cold.
10 N.E. England	
11 S.E. Scotland	Light or moderate S.E. wind; increasing, perhaps reaching gale force later in the northwest; cloud increasing; rain later; becoming mild.
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	As 10-11.
14 Mid Scotland	
15 N. E. Scotland	Wind southerly increasing perhaps to gale later; cloud increasing with rain later; becoming mild.
16 Orkneys and Shetlands	
17 N. W. Ireland	Freshening S.E. wind; mainly cloudy but some bright intervals today; some rain later; becoming milder.
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	As 17.

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

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  
 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.

GENERAL INFERENCE.  
 High pressure will be maintained to eastwards of the British Isles; A rather deep depression covers most of the Atlantic and is extending its influence over our western districts. Weather will be dry and cold in the East and Southeast with variable cloud. Cloudy weather with local drizzle will occur in East Scotland. Along the Western seaboard S. to S.E. winds will increase perhaps to gale force and mild rainy weather will set in.

Unsettled and mild in WEST and NORTHWEST. Mainly dry and cold elsewhere, but slight risk of snow in the S.E. and local drizzle in the Northeast.

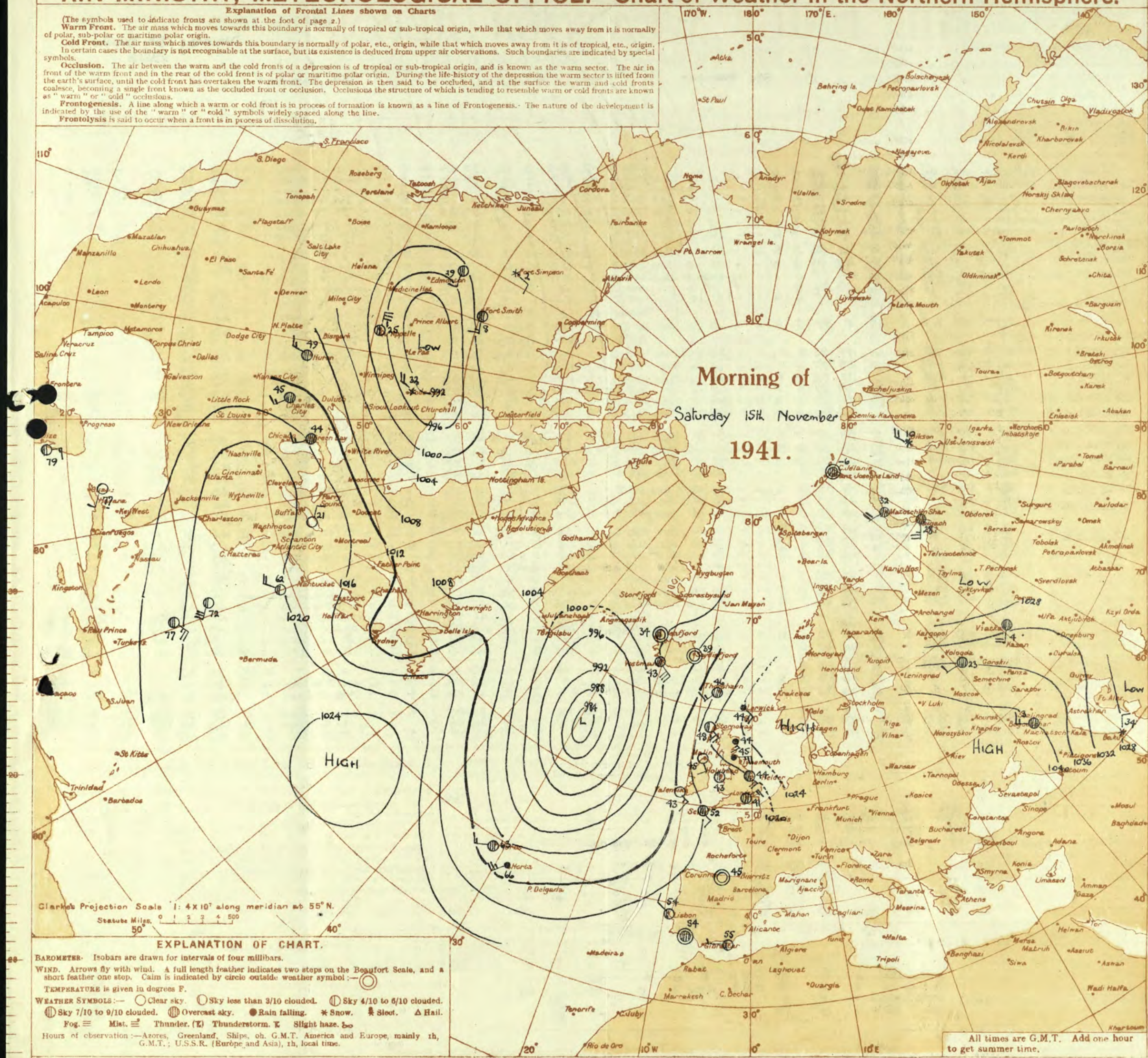
FORECASTS issued at 1030 G.M.T. N. K. JOHNSON, D.Sc., A.R.C.S., Director.  
 H.M.S.O. Press, Meteorological Office Dunstable.



# 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 at the foot of page 2.)  
**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.





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Saturday 15th November 1941.  
No. 29213

OBSERVATIONS at 1 hr. G.M.T. 15th November														OBSERVATIONS at 7 hr. G.M.T. 15th November														PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather. (6)	Temp. °F. (8)	Humid. % (7)	Visibility. (9)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. (22)	Cloud.					State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		SUNSHINE (36)	
					Direc. (3)	Force. (4)					Form. (10)	Amount. (11)	Height of Base. (feet) (12)	Direc. (17)	Force. (18)			Form. (23)	Amount. (24)					Height of Base. (feet) (25)	Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Day 7h-18h mm. (34)			Night 18h-7h mm. (35)						
																																Low. (13)	Med. (14)	Low. (26)	Med. (27)		High. (28)
1	London (Kew) ... 18	1017.7	+2	NE	3	*	41	85	5	*	*	10	10	3200	1016.9	-2	NE/E	3	3	39	65	6	5	-	-	10	10	1500	1	*	48	38	34	-	0.1	0.0	
	Croydon ... 217	1017.7	+2	NE	3	*	43	85	5	*	*	10	10	100	1016.8	-2	ENE	3	3	38	65	6	5	-	-	4-6	10	4000	1	*	48	38	36	-	0.2	0.0	
	S. Farnborough ... 226	1017.2	-2	NE	2	*	43	85	5	*	*	10	10	200	1016.4	-2	NE	2	2	38	85	6	5	-	-	10	10	2500	1	*	48	36	34	Tr	Tr	0.0	
	Boscombe Down ... 417	1017.6	-6	N	2	*	42	87	4	5	*	10	10	800	1017.2	+2	NE	2	2	38	75	6	5	-	-	7-8	7-8	1500	1	*	47	37	36	Tr	Tr	0.5	
	Thorney Island ... 10	1016.7	-6	NW	2	*	44	92	5	1	2	10	10	500	1015.7	-4	NE/N	2	2	39	85	6	5	-	-	9	9	4000	1	*	51	38	31	-	Tr	0.5	
	Lynnhope ... 346	1017.1	-2	NNE	2	*	46	97	3	5	2	10	10	500	1017.4	+2	ENE	3	3	33	75	7	5	-	-	7-8	7-8	2500	1	*	47	33	29	Tr	0.2	0.2	
	Manston ... 154	1016.8	+6	E/N	3	*	42	85	3	5	-	10	10	1800	1017.5	+2	E/N	4	4	33	75	7	5	-	-	9	9	2500	1	*	46	33	31	0.2	-	1.8	
2	Shoeburyness ... 11	1017.6	-6	NE/E	3	0	41	85	5	5	-	10	10	2500	1017.6	0	E/S	4	4	38	75	7	5	-	-	9	9	2500	1	*	47	34	36	0.1	0.2	0.7	
	Felixstowe ... 15	1017.6	-4	E	6	0	42	75	6	5	-	10	10	2500	1018.2	+4	E/S	6	6	37	65	7	5	-	-	9	9	2700	1	5	46	37	35	0.1	-	0.0	
	Gorleston ... 5	1020.0	0	ESE	5	0	42	75	6	1	-	4-6	4-6	2500	1020.0	0	E/N	6	6	39	68	7	8	-	-	9	9	2500	0	5	46	39	35	-	10	*	
	Mildenhall ... 19	1018.9	+2	ENE	2	0	35	92	6	1	-	0	0	0	1018.9	-2	E	3	3	35	75	7	5	-	-	7-8	7-8	3000	0	*	46	33	28	Tr	0.1	0.0	
	Cranwell ... 240	1019.4	+2	E	3	0	41	97	4	5	-	10	10	200	1019.7	-2	SE	4	4	35	85	6	5	-	-	10	10	2800	1	*	45	35	33	-	0.3	0.0	
3	Birmingham ... 535	1017.9	-2	N/E	2	dg	41	97	2	5	-	10	10	200	1019.0	+4	E	3	3	36	75	6	5	-	-	7-8	7-8	2500	1	*	43	35	34	Tr	0.6	0.0	
	Upper Heyford ... 408	1017.9	-2	N/E	2	dg	41	97	2	5	-	10	10	200	1018.1	+4	NE	3	3	35	85	6	5	-	-	9	10	2500	1	*	43	34	32	-	0.1	*	
4	Ross-on-Wye ... 223	1017.4	-10	ENE	3	0	40	92	6	5	-	10	10	1500	1017.4	-10	ENE	3	3	40	92	6	5	1	-	9	10	1500	1	*	43	39	39	Tr	0.1	0.0	
5	Hartland Point ... 299	1017.2	+6	SE	2	c	47	85	8	5	-	7-8	7-8	2500	1015.5	0	ESE	3	3	36	97	6	5	4	-	2-3	4-6	800	0	3	55	36	34	-	-	3.6	
	Bristol ... 209	1018.9	+2	ENE	1	dg	39	97	4	2	-	10	10	800	1017.2	+2	ENE	4	4	40	97	5	5	2	-	7-8	7-8	2000	1	*	45	38	37	Tr	Tr	0.0	
	Portland Bill ... 32	1017.6	+4	ENE	2	c	42	92	7	5	-	10	10	2500	1015.1	-8	NNE	2	2	42	85	7	5	-	-	10	10	2500	1	3	52	41	41	-	-	0.0	
	Plymouth ... 82	1017.1	0	E	1	c	38	97	5	1	-	0	0	0	1015.6	+2	SE	3	3	39	97	3	1	-	-	10	10	1150	0	3	57	35	30	-	Tr	4.0	
	The Lizard ... 240	1016.1	-2	SE	1	c	51	92	8	2	-	7-8	7-8	1500	1014.9	+6	SE	4	4	50	92	8	5	2	-	9	10	1500	1	4	55	50	49	0.2	2	1.2	
	Scilly (St. Mary's) ... 163	1015.4	-4	SSE	2	c	52	92	7	8	-	4-6	7-8	1500	1013.8	-8	SE	3	3	51	92	8	5	6	-	4-6	9	1500	1	3	54	49	*	1	0.3	0.2	
	Guernsey ... 175	1015.4	-4	SSE	2	c	52	92	7	8	-	4-6	7-8	1500	1013.8	-8	SE	3	3	51	92	8	5	6	-	4-6	9	1500	1	3	54	49	*	1	0.3	0.2	
6	Pembroke ... 142	1017.2	0	E/S	4	c	50	97	7	8	-	9	9	1500	1016.6	+2	E/S	5	5	44	97	6	8	2	-	7-8	10	1500	1	3	53	41	*	6	0.4	0.3	
7	Holyhead (Valley) ... 26	1017.7	+2	ENE	2	dg	43	97	6	5	-	4-6	4-6	2500	1015.9	+6	NE/E	3	3	40	92	6	1	4	9	0	1	-	1	2	52	39	36	0.3	-	*	
	Chester (Sealand) ... 16	1019.3	+2	S/E	1	dg	41	92	3	5	-	10	10	300	1018.5	0	ESE	3	3	41	97	2	5	-	-	10	10	400	1	*	42	41	40	Tr	0.4	0.0	
8	Manchester ... 235	1019.3	+2	-	0	F	39	97	1	1	-	10	10	1150	1019.0	0	ESE	2	2	40	85	6	5	-	-	9	9	2000	1	*	47	38	38	-	Tr	0.0	
10	Spurn Head ... 29	1020.0	+6	SE/E	4	N	44	75	6	5	-	10	10	2500	1021.5	0	ESE	5	5	40	65	7	5	-	-	9	9	2500	1	3	45	39	*	2	0.2	0.0	
	Catterick ... 175	1020.6	+2	-	0	Tr	43	97	1	1	-	10	10	1150	1020.8	+2	SE/E	5	5	40	65	7	5	2	-	4-6	10	1100	1	*	42	37	36	-	1	0.0	
	Tynemouth ... 108	1021.0	+6	E	5	Tr	45	92	7	2	-	10	10	1500	1021.1	0	ESE	5	5	43	75	6	1	2	-	10	10	1500	1	5	47	42	39	-	1	*	
11	St. Abbs Head ... 280	1020.2	-8	SE	3	Tr	45	97	5	5	-	10	10	1500	1020.4	0	SE	5	5	41	97	6	5	2	-	9	10	1500	1	2	44	41	*	-	4	*	
	Leuchars ... 36	1021.0	-2	-	0	Tr	39	97	4	5	-	10	10	400	1020.6	+2	SE	5	5	43	97	3	5	-	-	10	10	500	2	*	43	35	30	-	1	2.8	
12	Renfrew (Abbots L.) ... 19	1020.7	+2	E	0	Tr	42	92	4	5	-	10	10	1000	1019.7	-6	SE	1	1	39	97	3	5	-	-	10	10	1150	1	*	43	39	39	0.1	-	0.0	
	Eskdalemuir ... 794	1018.9	+4	S/E	2	Tr	46	92	7	4	-	1	1	4000	1019.8	-2	NE	2	2	39	97	6	5	-	-	10	10	450	1	*	43	35	32	-	-	0.2	
	Point of Ayre ... 30	1018.9	+4	S/E	2	b	46	92	7	4	-	1	1	4000	1017.7	-6	SE/S	5	5	47	85	7	6	2	-	7-8	10	1000	0	4	50	44	*	-	-	0.6	
13A	Tiree ... 22	1017.9	0	SE/S	2	Tr	48	92	7	5	-	7-8	7-8	1800	1016.6	-4	SE/S	3	3	45	92	8	5	-	-	4-6	4-6	2500	0	4	52	40	*	0.3	-	1.6	
13B	Stornoway ... 80	1020.1	+12	SSE																																	



AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
 Sunday 16th November 1941.  
 No. 29214

OBSERVATIONS at 13h. G.M.T. 15th November														OBSERVATIONS at 18h. G.M.T. 15th November														PAST 24 HOURS.						
Duration.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Temp. °F. (6)	Humid. % (7)	Visibility. mi. (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind. Dir. (17)	Force 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. mi. (22)	Cloud.					State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.					
				Dir. (3)	Force. (4)				Low. (9)	Med. (10)	High (11)	Low 0-10 (12)	Total 0-10 (13)									Height of Base. (feet) (14)	Low (23)	Med. (24)	High (25)	Low 0-10 (26)			Total 0-10 (27)	Height of Base (feet) (28)	7h.—13h. 15th...	13h.—18h. 15th...	18h. 15th to 16th	1h.—7h. 16th...
																															7h.—13h. 15th...	13h.—18h. 15th...	18h. 15th to 16th	1h.—7h. 16th...
1	London (Kew)...	1016.4	-14	ENE	3	39	65	6	5	-	-	9+	9+	1015.5	-2	SSE	2	z	35	5	-	-	0	0	-	1	*	cbcczo	cbcczo	b,cz	cm			
	Croydon ...	1016.4	-14	ENE	4	38	65	7	1	-	-	4-6	4-6	1015.8	-2	E	1	z	31	85	4	-	0	0	-	1	*	czobc	bczo	bc,c	cxcm			
	S. Farnborough	1016.1	-14	E	3	39	65	7	1	-	-	1	1	1015.7	0	SSE	2	m	32	85	4	5	-	2-3	2-3	3000	1	*	cmobcb	bzomx	bmcmx	xcm		
	Boscombe Down	1016.6	-6	EN	2	36	65	7	5	-	-	7-8	7-8	1015.1	-6	ESE	3	c	35	75	7	5	-	10	10	3000	1	*	cmobc	c	cm	cm		
	Thorney Island	1015.9	-6	EN	3	39	65	7	1	-	-	1	1	1015.2	-2	NE	3	z	35	75	6	5	-	7-8	7-8	4600	0	*	cmobcb	cbccmo	cm	cm		
	Lympne ...	1016.9	-10	ENE	1	35	65	7	5	-	-	7-8	7-8	1016.8	+2	-	0	m	30	85	4	4	-	7-8	7-8	4000	1	3	cbcc	bczowb	bczowb	cm		
	Manston ...	1016.5	-14	NE	1	36	65	7	8	-	-	9	9	1016.0	-2	S	2	z	33	75	6	5	-	2-3	2-3	2500	1	*	cbccm	cbccm	cbccm	cm		
2	Shoeburyness ...	1017.2	-8	ENE	1	38	65	8	5	-	-	9+	9+	1016.2	-2	NE	1	c	37	75	7	5	-	7-8	7-8	4000	1	*	c	c	cm	cm		
	Felixstowe ...	1017.4	-8	E'N	3	38	65	8	5	-	-	7-8	9+	1015.0	-18	SSE	2	z	34	92	6	5	-	4-6	4-6	2500	1	1	c	c,hs	cbccbcm	bmcm		
	Gorleston ...	1018.3	-16	E	4	38	75	7	8	-	-	7-8	7-8	1015.7	-14	SW	2	z	36	75	6	8	-	10	10	2500	0	4	c	c	bczo	bc,c		
	Mildenhall ...	1017.4	-16	E	1	39	65	7	7	-	-	4-6	4-6	1015.5	-10	ESE	1	z	33	85	6	5	-	2-3	2-3	3000	1	*	cbcc	cbccm	bmox	bmox		
	Cranwell ...	1018.1	-24	E	4	37	75	8	5	-	-	9	9	1015.4	-14	-	0	z	35	85	6	5	-	1	1	3000	1	*	cmobcp	cbccg	bmox	bmox		
3	Birmingham	1017.0	-12	ESE	3	37	75	8	1	-	-	4-6	4-6	1015.2	-6	SE	2	z	34	75	5	5	-	9+	9+	2500	0	*	cbc	bcm	c	c		
	Upper Heyford	1017.0	-10	ENE	3	37	65	7	7	-	-	2-3	2-3	1016.0	0	E	1	z	33	85	6	7	-	4-6	4-6	3000	1	*	cmobc	bcm	bcm	cir,m		
4	Ross-on-Wye ...	1016.4	-10	E'N	3	37	65	6	5	-	-	7-8	7-8	1014.4	-8	SE	1	z	35	75	5	5	-	10	10	3000	1	*	cbc	bcm	bcm	c		
5	Hartland Point	1013.6	-12	E	3	43	75	6	5	-	-	7-8	7-8	1010.7	-22	E	4	bc	39	85	6	5	-	4-6	4-6	2500	1	4	bcc	cbc	bcc	chcc		
	Bristol ...	1015.7	-10	E	3	38	75	6	7	6	-	7-8	7-8	1014.2	-8	ESE	2	fj	32	75	6	5	-	9+	9+	3500	1	1	cmobcc	cz	cz	cm		
	Portland Bill ...	1014.8	-6	E	4	41	92	7	5	-	-	10	10	1013.6	-12	E	4	fj	42	85	7	5	-	10	10	2500	1	3	c	cofr	co	cm		
	Plymouth ...	1014.1	-10	ENE	2	43	92	6	5	-	-	9+	9+	1011.2	-18	E'S	4	z	41	92	5	5	-	1	1	3000	0	3	ofcm	bcmcm	bcwcm	cm		
	The Lizard ...	1012.7	-12	ESE	4	50	85	8	8	2	-	9	10	1010.3	-8	SE	5	c	48	85	8	8	2	9	10	1300	0	4	cbcc	c	c	cm		
	St. Mary's ...	1011.4	-18	SE'S	4	52	85	8	8	7	-	4-6	9+	1007.5	-28	SE	5	c/r	51	75	8	8	2	7-8	9+	1500	1	4	c	c	c	cm		
6	Pembroke ...	1013.9	-16	ESE	6	45	85	6	8	-	-	9+	9+	1010.8	-20	ESE	5	c	44	85	6	8	-	7-8	7-8	2500	1	2	cm	cm	c	cg		
7	Holyhead (Valley)	1013.9	-18	E	3	43	75	6	5	5	-	7-8	9	1011.3	-10	SE	3	z	40	75	5	5	-	10	10	1800	0	2	cbccm	cir-m	cm	bcm		
	Chester (Sealand)	1017.0	-16	ESE	4	37	65	6	5	-	-	7-8	7-8	1014.9	-6	ESE	2	z	35	75	5	5	-	10	10	2800	1	*	ofdom	bcm	bcm	cm		
8	Manchester ...	1017.6	-18	E'S	4	39	65	6	1	-	-	4-6	4-6	1015.2	-14	E'S	2	z	34	85	5	-	-	0	0	-	1	*	cbcc	cbcc	cm	cm		
10	Spurn Head ...	1018.3	-16	ESE	4	40	65	7	8	-	-	9	9	1015.4	-22	NE	2	psh	39	75	7	8	-	9	9	2500	0	3	zc	cpsh	c	bc		
	Catterick ...	1019.0	-20	SSE	3	44	75	7	2	-	-	4-6	4-6	1016.0	-18	ESE	1	c	36	85	7	5	-	7-8	7-8	3500	1	*	cmobc	bcw	cmw	bm of s		
	Tynemouth ...	1020.5	-12	SE	5	43	85	7	5	-	-	9+	9+	1016.7	-20	E	5	bc	42	85	7	8	-	4-6	4-6	2500	1	5	oc	cbcc	cbcc	abc		
11	St. Abbs Head	1018.3	-14	SE	5	41	75	7	5	2	-	7-8	10	1016.1	-12	SE	5	c	40	75	8	5	7	4-6	7-8	1500	0	3	roc	c	phrc	phrc		
	Leuchars ...	1020.2	-12	SE	5	42	75	7	5	-	-	10	10	1017.1	-18	E	4	c	41	75	8	5	-	9+	9+	2200	2	*	cdrom	c	c	phrc		
12	RAF (Abbots L.)	1018.3	-10	E'S	3	42	85	4	5	2	-	9	10	1015.8	-16	ESE	2	m	37	75	4	5	-	1	1	2000	1	*	cidfm	cidbc	zofcm	cm		
	Eskdalemuir ...	1019.0	-8	E'S	4	36	65	6	5	-	-	7-8	7-8	1015.7	-14	EN	2	c	33	85	7	5	-	7-8	7-8	1500	1	*	pd.doc	cbcc	cmobc	bc		
	Point of Ayre ...	1016.3	-6	SSE	6	43	75	7	6	2	-	7-8	10	1013.0	-16	SSE	6	z	41	75	6	8	-	7-8	7-8	2000	0	5	c	cbcc	cbcc	bbccz		
13a	Tiree ...	1014.8	-10	SE	4	48	85	7	5	-	-	10	10	1012.2	-4	SE'E	5	0	43	75	6	5	-	10	10	1800	0	5	co	co	cbc	cbc		
13b	Stornoway ...	1017.3	-12	ESE	3	50	75	8	1	4	-	2-3	4-6	1013.8	-10	ESE	5	c	46	85	8	5	7	4-6	9	2000	1	3	bloc	bcc	cbc	bcc		
15	Dalwhinnie ...	1017.8	-24	SSE	5	38	85	6	5	5	-	7-8	9+	1016.9	-8	SSE	3	c	35	75	7	5	-	7-8	7-8	2500	1	*	oidoc	c	co	co		
	Aberdeen ...	1021.3	-16	SSE	4	43	65	6	5	-	-	4-6	10	1018.2	-22	SE	4	c	42	55	6	5	-	7-8	7-8	1900	1	4	cir.c	cbcczo	cz	cir.c		
	Wick ...	1020.7	-10	SSE	5	43	75	7	5	2	-	7-8	9+	1018.3	-16	SE	5	c	43	65	6	5	-	9	9	2500	1	*	dm.cbc	c	cir.c	cir.c		
16	Sumburgh ...	1024.6	-6	SSE	5	44	65	7	5	-	-	10	10	1021.5	-26	SSE	5	bc	41	65	7	5	-	4-6	4-6	2500	1	5	cidoc	cb	cir.c	cir.c		
17	Blackad Point...	1008.3	-34	ESE	4	45	85	8	2	5	-	4-6	7-8	1004.3	-16	SE	5	r.c	51	85	7	6	-	10	10	1500	1	*	bc	ro	ro	rrq		
18	Malin Head ...	1012.7	-22	SSE	3	47	85	5	9	-	-	9	9	1009.8	-10	E'S	4	z	42	85	5	9	-	7-8	7-8	1500	0	3	czc	z	czb	c		
	Aldergrove ...	1014.4	-12	SE	4	46	85	8	5	-	-	9	10	1012.3	-6	ESE	4	z	40	75	5	5	-	10	10	2100	1	*	cmoidom	cbcczo	cz	bcz		
19	Birr Castle ...	1010.3	-32	S	2	51	92	8	5	7	-	7-8	9	1007.1	-12	S	3	c	48	85	8	5	1	7-8	10	2500	1	*	c	c	*	cirir		
20	Valentia Obsy.†	1006.4	-30	SSE	5	53	75	8	2	-	-	1	9	1001.9	-22	SE	6	c	51	75	9	1	7	2	4-6	9	2500	1	3	cpoc	cbcc	cpoc	cpoc	
	Roches Point ...	1005.0	-26	SE	5	54	85	8	5	-	-	7-8	7-8	1004.8	-26	SSE	6	f/r	52	85	3	6	3	4-6	7-8	1500	1	5	lc	irc	irc	irc		

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).  
 bo, 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.  
 fa, low fog over sea (coast station).  
 fg, low fog over land (inland station).  
 m, mist, visibility 1100-2200 yds.  
 h, hail. i, intermittent.  
 jf, fog at a distance, but not at station.  
 jp, precipitation within sight of station.  
 ks, storm of drifting snow.  
 k/s, slight storm of drifting snow (generally low).  
 k/S, heavy storm of drifting snow (generally low).  
 s/k, slight storm of drifting snow (generally high).  
 S/k, heavy storm of drifting snow (generally high).  
 KQ, line squall. l, lightning.  
 o, overcast sky. p, passing showers.  
 q, squalls. r, rain. s, snow.  
 ra, 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),

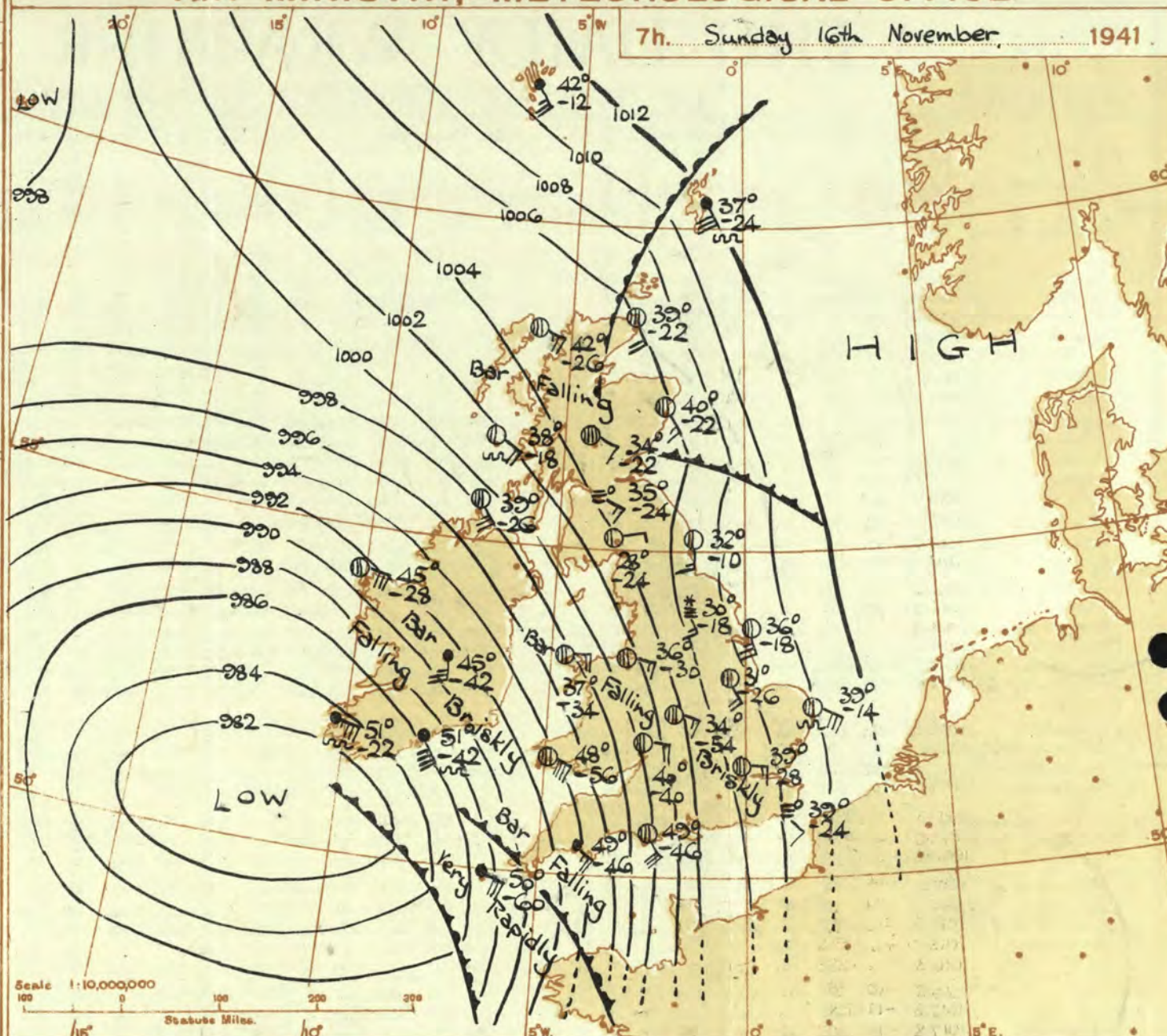


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 15th November				18h. G.M.T.				01h. G.M.T. 16th November				07h. G.M.T.			
III. C.	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN
109	5-	03647	11657	5-	01744	12624	5-	61748	10628	8-	02746	08686			
115	54	02844	08425	54	02844	14525	54	02844	12425	52	02844	12527			
203				80	02835	12415	00	00990	12410	10	01843	08313			
206	57	02856	12428	50	01863	12423	5-	01868	10528	52	02864	10428			
210	5-	02855	11425	5-	01854	09314	5-	02868	08228	57	02865	08328			
220				50	01654	13524				52	03745	17428			
230	5-	05758	06228	50	00762	06212	50	05761	10101						
245	5-	02767	14467	5-	02767	14467	5-	53638	44468	87	02844	10467			
260	5-	02757	10447	50	05664	10414	5-	05668	00028	5-	02765	10225			
278	52	52536	12358	5-	05647	05457	5-	05654	05414	5-	02758	10518			
279	50	01764	10524	04	00790	08201	50	00762	08202	50	01765	08415			
285	23	01744	10515	*3	01744	06415									
288	8-	02856	10316	5-	17655	12125	5-	05568	00028	5-	05667	18217			
515	62	05536	12328	5-	05638	10328	5-	61648	10468						
301	5-	05656	10426	50	05564	12414	00	05630	10310	5-	05558	12528			
321	86	02755	07425	50	05662	00022	00	08490	16200	5-	05658	14328			
299	8-	02745	10315	8-	02747	08328	5-	02748	14228	87	01743	18314			
292	7-	01865	08315	50	01763	00013	50	05663	13123	5-	05548	11328			
310	--	05634	04514												
415	40	05658	10215	50	05564	00024	00	45390	12240	57	05558	12328			
333	5-	01774	06314	57	05667	14418	5-	05656	43326	5-	05656	14226			
334	--	05555	06316	--	02665	04315									
340	10	01763	12413	5-	05558	12118	50	51548	12358	03	05690	10555			
136	7-	02863	03315	5-	02766	00016	00	05690	22220	50	05664	10304			
336	52	02753	12428	52	02742	12328									
350	70	01764	08314	40	05562	00012	5-	05568	12328	57	05655	08027			
308	5-	02543	08348	5-	05658	08328	5-	05648	07428	82	05645	43588			
279	50	01754	10314	5-	05667	08127	5-	51658	08458	5-	05648	10458			
390	50	05654	06314	5-	04555	08115	00	04490	06100	5-	08458	12328			
383	7-	02755	07215	5-	05666	00026	5-	05668	11358	5-	05658	08328			
438	70	01763	06413												
430	10	00751	08311	50	05654	04314	5-	05658	10328	5-	05648	10428			
409	57	41634	12445	50	05667	14417	07	05690	45626	5-	66648	45768			

III. - Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W - Present and past weather—See M.O. 252.  
h, N<sub>h</sub> - Height and amount of low cloud—See M.O. 252.  
N - Total amount of cloud—See M.O. 252.  
C, C<sub>m</sub> - Form of low and medium cloud—See page 1.  
V<sub>m</sub> - Visibility. F = Force of wind—See page 4.  
DD - Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Sunday 16th November
1 S.E. England ▼	Freshening southeast wind becoming strong, gale on coasts. Cloudy; rain in southwest of area, spreading slowly eastwards during day; variable cloud and showers later. Becoming slowly milder.
2 E. England ▼	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England ▼	Strong southeast wind, severe gale at exposed places, veering southwest. Cloudy with rain at first, broken cloud later. Rather mild at first, becoming colder later.
6 South Wales ... ▼	
7 North Wales ... ▼	
8 N.W. England ▼	Strong southeast wind, gale at exposed places, becoming west to southwest later. Cloudy; rain later to-day, sleet or snow on high ground; cold, becoming slowly milder.
9 N. Midlands ...	
10 N.E. England ▼	
11 S.E. Scotland ▼	
12 S.W. Scotland ▼ & Isle of Man.	
13A. W. Scotland ▼	Fresh southeast wind, strong or gale at exposed places, backing northeast to north, variable. Cloud at first; dull with sleet or snow later: cold.
13B. N.W. Scotland ▼	
14 Mid Scotland	
15 N. E. Scotland ▼	
16 Orkneys and Shetlands ▼	
17 N. W. Ireland ▼	Fresh or strong east to southeast wind, gale on coasts, backing north, and finally northwest. Cloudy with occasional rain at first, showers later. Cold.
18 N. E. Ireland ▼	
19 S. E. Ireland ▼	
20 S. W. Ireland ▼	

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

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.

GENERAL INFERENCE.

Pressure is high to the east of the British Isles and a very deep depression off Southwest Ireland is moving east and will later turn northeast or north. Winds will become fresh or strong southeast in most districts, reaching gale on coasts and will later veer south to southwest in southwest districts. Gales will probably be severe in the Southwest. Rain in southwest districts will spread slowly northeast and reach Eastern England this evening. Snow will occur over high ground. It will be cold generally but temperature will rise slowly during the next twenty-four hours.

FURTHER OUTLOOK.

Bright periods and occasional showers in South. Wintry showers in North; rather cold generally.  
Warning of southerly gale issued at 1800h, 15.11.41, in districts 12, 13A, 13B, 17, 18, 19, 20, and at 0005h, in districts 5, 6, 7, 8; at 0550 in district 1, and at 0645h in districts 2, 10, 11, 15, 16 on 16.11.41.

Forecasts issued at 1030 G.M.T.

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

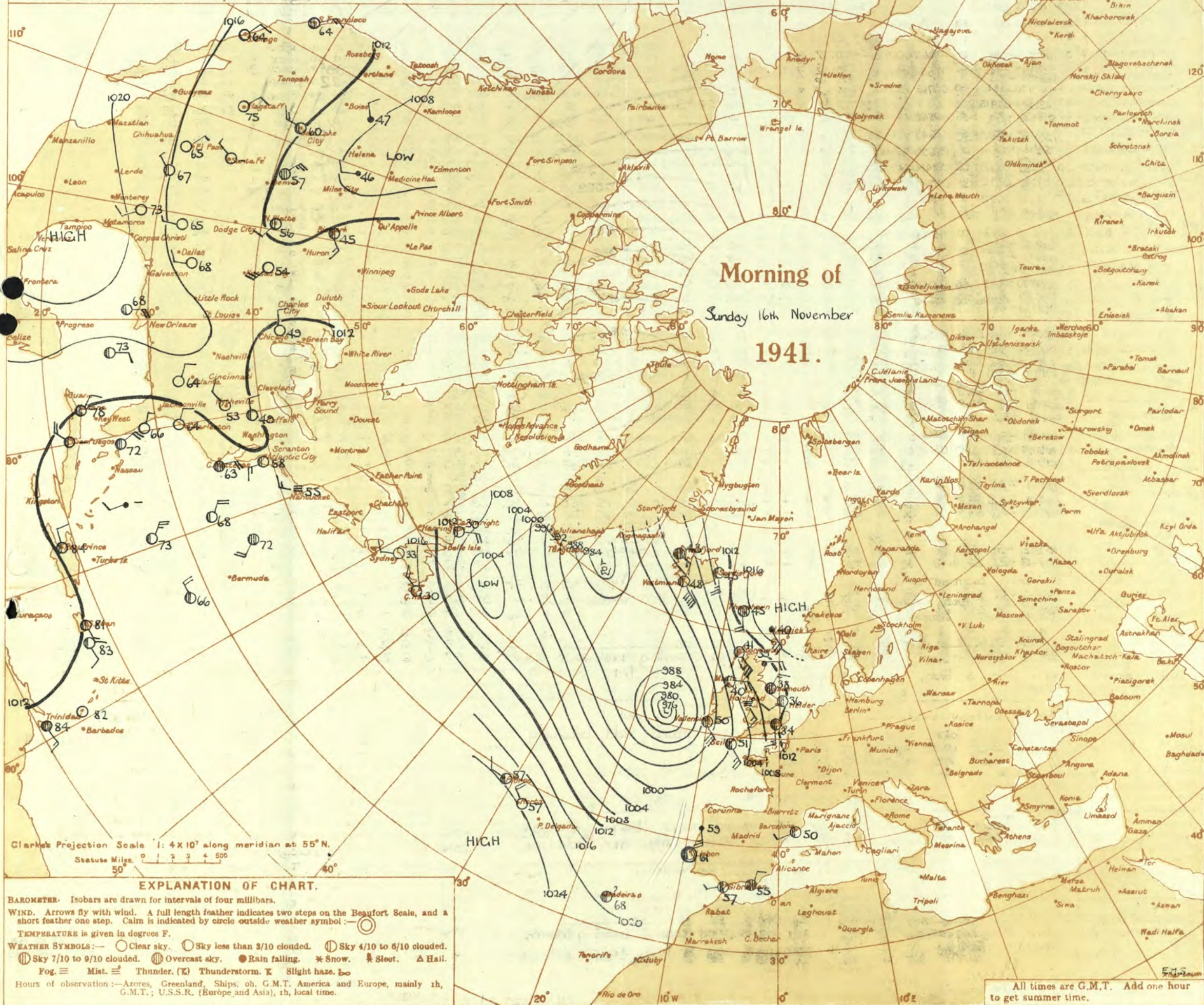
H.M.S.O. Press, Meteorological Office, Dunstable.



# 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 at the foot of page 2.)  
**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.





THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 16th November.....1941:

No. 29214.

OBSERVATIONS at 1 hr. G.M.T. 16th November.....															OBSERVATIONS at 7 hr. G.M.T. 16th November.....															PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L.	Change in 3 hours.	Wind.		Weather.	Temp.	Humid.	Visibility.	Cloud.			Barom. at M.S.L.	Change in 3 hours.	Wind.		Weather.	Temp.	Humid.	Visibility.	Cloud.			State of Ground.	Sea.	TEMPERATURE.			RAINFALL.		SUNSHINE.							
					Dir.	Force.					Low.	Med.	High.			Low.	Med.					High.	Low.	Med.			High.	Low.	Med.	High.	Max. Day 7h-18h °F.		Min. Night 18h-7h °F.	Min. on Glass °F.	Day 7h-18h mm.	Night 18h-7h mm.			
																																					Form.	Amount.	Height of Base (feet).
			mb.				°F.	%					mb.					°F.	%																				
1	London (Kew)	18																																					
	Croydon	217	1011.7	-28	S	3							1004.9	-38	E/N	3			38	92	6	5			1	*	33	28	33	-	-	1.9							
	S. Farnborough	226	1010.5	-26	ESE	3							1005.9	-28	E/N	3			38	92	6	5			1	*	33	28	22	-	Tr	5.5							
	Boscombe Down	417	1009.9	-30	E/N	4							1003.3	-42	E/S	3			33	92	6	5			3	*	41	29	23	-	-	5.4							
	Thorney Island	10	1001.1	-34	ESE	3							1001.3	-48	E/S	3			33	97	6	5			1	*	38	33	32	-	-	0.6							
	Lymington	346	1013.6	-22	ESE	3							1003.2	-38	SE/E	4			45	85	7	5			0	*	40	35	*	-	-	*							
	Manston	154	1013.2	-18	SE	3							1009.0	-24	SE	2			39	97	4	5			1	5	36	29	19	-	-	4.3							
													1008.1	-26	SE	3			38	92	5	5			1		37	30	23	-	0.1	2.1							
2	Shoeburyness	11	1013.5	-18	SSE	3							1008.7	-24	SE/E	3			39	85	6	5			1	*	39	35	29	-	-	0.6							
	Felixstowe	15	1013.1	-12	S	4							1008.4	-24	SE/S	4			40	85	6	7			1	3	39	33	31	-	Tr	0.5							
	Gorleston	5	1013.9	-8	SSW	2							1010.3	-14	SE/E	4			39	65	7	5			0	5	39	32	26	-	-	*							
	Mildenhall	19	1012.7	-2	SE/S	2							1007.7	-30	SE	3			30	85	7	5			1		41	25	20	-	Tr	1.4							
	Cranwell	240	1011.5	-18	SW	3							1006.9	-26	SSE	4			31	92	6	5			0	*	40	26	19	-	-	3.8							
3	Birmingham	535											1003.2	-54	ESE	3			34	85	6	5	7	-4.6	10	1500	1	*	38	31	30	-	-	1.6					
	Upper Heyford	408	1010.9	-22	SE	3							1005.1	-22	E	3			34	85	6	5			1	*	39	31	30	-	Tr	*							
4	Ross-on-Wye	223											1001.1	-40	E	4			40	85	6	5			1	*	40	33	27	-	-	4.4							
5	Hartland Point	299	1003.6	-40	E	4							993.9	-46	E	5			47	75	7	5	6	-7.8	9	2000	1	4	43	37	35	-	-	2.1					
	Bristol	209	1007.7	-32	SE	4							999.3	-48	ESE	4			41	92	6	5			1	*	41	32	31	-	Tr	2.4							
	Portland Bill	32	1007.6	-26	SE	4							999.2	-46	SE	6			49	92	7	5			1	4	46	44	*	0.2	0.3	*							
	Plymouth	82	1003.9	-42	SE	5							994.2	-46	SE	5			49	85	6	5	2	-7.8	10	1000	1	4	45	40	35	-	1	1.7					
	The Lizard	240	1000.9	-50	SSE	6							990.0	-52	SE	7			48	97	7	5			1	6	52	48	*	-	10	2.2							
	Scilly (St. Mary's)	163	999.6	-48	SE/S	5							985.9	-60	SE/E	6			50	97	7	5	2	-7.8	10	1500	1	5	54	49	*	0.1	0.5						
	Guernsey	175																																					
6	Pembroke	142	1003.7	-44	ESE	7							993.0	-56	ESE	8			48	92	7	8	1	-4.6	10	1500	1	4	52	39	*	-	-	0.3					
7	Holyhead (Valley)	26	1005.4	-30	SE	3							997.8	-34	E	4			37	85	6	5	3	-4.6	7.8	3000	0	2	48	32	30	-	Tr	*					
	Chester (Sealand)	16	1008.3	-32	ESE	3							101.9	-30	E/S	3			36	85	6	5			0	*	41	34	30	0.2	-	-	2.0						
8	Manchester	235	1009.1	-34	E	3							1003.2	-30	SE/E	4			36	75	6	5			1	*	40	27	21	-	-	*							
10	Spurn Head	29	1011.4	-10	WSW	2							1500	1007.8	-18	SE	5			36	92	7	3	1	-4.6	7.8	4000	0	3	41	34	*	-	-	1.8				
	Catterick	175	1010.3	-22	SSW	2							3500	1006.6	-18	SSE	3			30	97	3	1		-10	10	1500	1	*	42	28	24	-	-	3.0				
	Tynemouth	108	1010.2	-20	NE	3							1500	1007.2	-10	S	3			32	75	6	2		-2.3	2.3	1500	1	4	43	33	31	-	1	*				
11	St. Abbs Head	280	1009.9	-50	SE	4							1500	1005.2	-18	SSW	3			35	97	7	8	4	-4.6	7.8	2000	1	3	41	35	*	-	Tr	1	*			
	Leuchars	36	1009.5	-42	SE	2							2000	1004.3	-20	ESE	4			38	92	8	5	2	-10	10	1500	2	*	44	36	33	0.4	2	0.0				
12	Renfrew (Abbots I.)	19	1009.8	-30	SSE	1							5700	1003.8	-24	ESE	3			35	85	4	5		-4.6	4.6	4000	1	*	44	33	26	Tr	-	0.0				
	Esksdalemuir	794												1004.1	-24	E/N	1			28	85	8	1	7	0	1	-	1	*	41	28	23	Tr	-	2.2				
	Point of Ayre...	30	1007.1	-32	SSE	6							800	1000.3	-24	SSE	6			39	85	6	6	2	-7.8	10	1500	0	5	47	36	*	-	-	0.0				
13A	Tiree	22	1005.8	-34	SE/E	5							2500	1001.1	-18	SE/E	4			38	75	8	5		-4.6	4.6	2500	0	5	48	38	*	-	-	0.0				
13B	Stornoway	80	1009.9	-26	ESE	5							2500	1004.9	-26	SE/E	5			42	75	7	5	7	-4.6	7.8	1500	1	3	50	41	*	-	-	4.9				
15	Dalwhinnie	1176												1004.5	-22	ESE	2			34	85	7	5		-10	10	1500	0	*	41	32	27	0.1	0.1	0.1				
	Aberdeen	79												1005.5	-22	SE	3			40	65	7	5	4	-9	9	2100	1	*	43	38	35	Tr	-	0.0				
	Wick	119	1013.2	-30	SE	5							1400	1007.1	-22	SE	4			39	85	7	5		-7.8	9	1800	1	3	46	38	36	Tr	-	0.5				
16	Sumburgh	30	1017.6	-24	SE/S	6							1500	1011.6	-24	SE	6			37	92	7	6	7	-7.8	10	1100	1	5	44	36	34	Tr	-	0.5	0.0			
17	Blackod Point	18											991.1	-28	ESE	6			45	85	7	9		-7.8	7.8	80	1	*	51	42	*	-	Tr	0.4	*				
18	Malin Head	84	1003.6	-38	E/S	4							1500	997.3	-26	SE	5			39	65	6	6		-2.4	-6.7	1500	0	4	48	34	*	-	-	0.0				
	Aldergrove	268	1005.9	-30	ESE	5							2500	998.7	-34	E/S	4			37	85	6	5		-7.4	-6.10	2000	1	*	48	35	*	Tr	-	2.4				
19	Birr Castle	173	*										1500	991.3	-42	S	5			45	85	7	6	2	-7.8	10	1500	1	*	52	44	42	-	2	1.0				
20	Valentia Obay.	30	999.8	-58	SE/E	6							800	982.4	-22	SE	7			51	85	7	6	2	-4.6	10	1500	1	5	34	49	47	0.2	10	2.8				
	Rochees Point	22	998.9	-48	SSE	6							800	985.9	-42	SE/S	8			51	97	6	6	2	-7.8	10	800	1	6	54	50	*	3	15					

LONDON OBSERVATIONS.												EXPLANATION of FIGURES, LETTERS, etc.			
Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations except for rainfall which is 9h—18h												COLUMNS 2, 16. The barometric tendency is expressed in tenths of a millibar.			
Height above sea level in feet. Weather. Temperature. Rainfall. Sunshine. Humidity. Atmospheric Pollution.												COLUMNS 3, 22—Code for surface visibility.			
Morning. Afternoon. Night. Day Max. Night Min. Min. on Grass. Day. Night. Sunsh. to Sunset. 15h. 9h. G.M.T. G.M.T. Visibility.												COLUMNS 4, 18. THE BEAUFORT SCALE of WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.			
24 hrs. ended 9h. °F. °F. mm. mm. Yesterday. To-day. 24 hrs. ended 7h. G.M.T.												SOUTH KENSINGTON.			
Max. Time. Min. Time.												COLUMNS 30—Code for State of Sea.			
Max. Time. Min. Time.												Kew Observatory.			
Max. Time. Min. Time.												Beauffort No. Statute m/h. Beauffort No. Statute m/h. Beauffort No. Statute m/h.			
Kew... 18 Croydon... 217 Greenwich (Royal Observatory)... 149 City (Sunhill Row)... Westminster (St. James' Park)... 27 Regents Pk. (Botanic Gardens)... 168 Camden Square... 110 Kensington... 80 Hampstead Observatory... 460												0 Dense fog 55 yards. 1 Thick fog 220 " 2 Fog 550 " 3 Moderate fog 1,100 " 4 Mist or haze 1½ miles. 5 Poor visibility 2½ " 6 Moderate " 6½ " 7 Good " 12½ " 8 Very good " 31 " 9 Excellent " beyond 31m.			
FOREIGN OBSERVATIONS.												COLUMNS 34, 35. Tr. = rain has fallen, but amount less than 0·1 mm.			
Evening of 15th November. Morning of 16th November. Past 24 Hours.												0 1 4 13-18 9 47-54 1 1-3 5 19-24 10 56-63 2 4-7 6 25-31 11 64-75 3 8-12 7 32-38 12 75 8 39-46			
Stations. Barom. mb. Wind. Direc. Force. Weather. Temp. °F. Barom. mb. Wind. Direc. Force. Weather. Temp. °F. Max. Day °F. Min. Night °F. Rainfall. Day mm. Night mm.												Reykjavik (18h and 07h) ... 998·0 SSE 3 c/d 50 998·7 SE 5 ir 46 * * * * Lisbon (18h and 07h) ... 1015·0 WSW 2 c/s 53 1015·3 NNW 5 c 55 59 55 5 13 Madrid (18h and 07h) ... 899·8 S 2 c/s 46 1015·3 NE 3 bc 64 80 58 - * Cairo (Heliopolis) (18h and 06h) ... 1017·0 NE 4 bc 70 Toronto (13h and 01h) ... Washington (13h and 01h) ...			

§ Pressure at 1,000 dynamic metres level.

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h.

† Sea disturbance reported from Dungeness.

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

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 { 2/6 per month: 6/6 per quarter: 25/- per year.

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

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



## THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**

Monday 17th November 1941.  
No 29215

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

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

PAST 24 HOURS.

[illegible]

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).  
bo, 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.  
p, precipitation within sight of station.  
ks, storm of drifting snow.  
k/s, slight storm of drifting snow (generally low).  
k/S, heavy storm of drifting snow (generally low).  
s/k, slight storm of drifting snow (generally high).  
S/k, heavy storm of drifting snow (generally high).  
KQ, line squall. l, lightning.  
o, overcast. 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<sub>o</sub>, slight rain.  
rr, continuous rain.  
<, less than (for cloud height). /gale.  
⊕ Solar halo. ⊙ lunar halo. ∇ Aurora.  
With present weather is combined, whenever possible, the general character of the weather.  
A "solidus" divides actual existing weather from preceding conditions thus: —bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

- 0 No low clouds.
- 1 Fair weather Cu.
- 2 Large Cu without anvil.
- 3 Ch.
- 4 So 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 So.
- 8 Large-Cu (or Ch) and Sc.
- 9 Large-Cu (or Ch) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

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

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

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

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

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

† Sea disturbance reported from Dungeness.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

6 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° alti-  
tude: 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 Ca not increasing and not covering whole  
sky.  
9 Ce predominating, and a little cirrus.  
(Ce may occur with any of the types 1 to 8).

COLUMN 29 — STATE OF GROUND.

STATE OF GROUND.	
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., but ground frozen.
2 . . " flooded.	9 . . " covered with snow greater than 6 ins. deep.
3 . . " frozen hard and dry.	— . . Fresh snow has fallen in the mountains.
4 . . " partly covered with snow or hail.	
5 . . " covered with ice or glazed frost.	
6 . . " covered with thawing snow.	

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



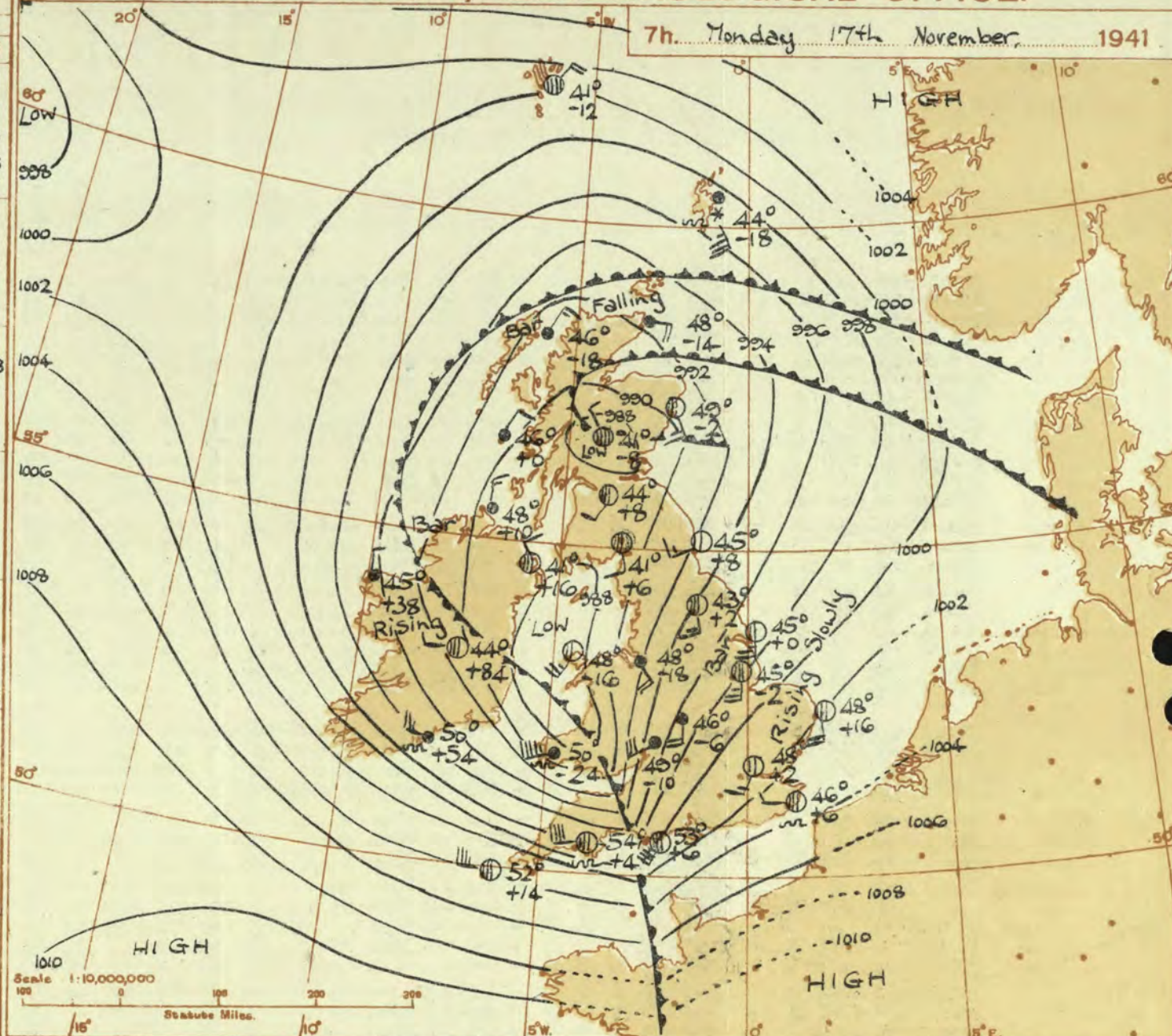
Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 16th November 18h. G.M.T.							01h. G.M.T. 17th November 07h. G.M.T.						
III	C <sub>u</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>u</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>u</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>u</sub>	wwVhN <sub>h</sub>	DDFWN	
109	3-	10844	08584	8-	81748	12388	8-	25748	09488	52	62646	09568	
115	57	02944	08427	54	02944	08525	84	01844	08425	52	02834	12427	
203	70	01844	08324	50	01844	08314	50	01944	08304	51	61838	04428	
206	53	02866	05427	50	00863	09523	5-	61748	06368	5-	22748	08268	
210	87	02854	08417	5-	02748	09328	02	62748	40458	5-	02847	06327	
220	50	01855	14315	50	01754	00004				51	02644	29318	
230	50	01873	08313	50	00862	09212	5-	68758	08278	52	62754	00068	
245	5-	15757	16387	8-	02748	12588	62	62524	08668	57	62546	16268	
260	55	05663	10314	5-	08448	04218	5-	22645	08268				
272	5-	02736	09427	5-	62648	08668	6-	62637	16167	5-	05547	00067	
279	07	05690	07428	62	62646	06478	5-	63668	20268	50	01755	12225	
285										5-	05638	09468	
288	53	02752	11327	62	62646	12368	02	62548	18468	5-	05655	18315	
295	67	61644	08568	62	62635	08468	62	05645	08368				
301				02	08558	43568	5-	05654	22464	62	51546	15468	
321	5-	58638	10428	6-	64638	11568	5-	05658	14458	54	01763	15414	
299	80	02745	14415	8-	64548	14668	50	05642	14612	80	01745	23315	
292	52	05666	09328	62	61538	43468	02	52748	19458	52	61644	13467	
310										--	02636	24526	
314	--	67108	07468	62	47337	10468	50	05661	53461	81	81654	51587	
333	62	64644	12568	52	05646	04368	5-	61648	18418	5-	64438	63568	
334										--	63547	24388	
340	02	64538	12568	6-	51448	42468	50	05662	18462	5-	22768	16568	
136	5-	05628	11428	6-	22627	15468	50	01763	53513	84	02787	19327	
336										62	64634	20668	
350	62	51506	43468	51	51535	47455	50	05654	17314				
368	5-	62628	43568	5-	02636	55767	8-	81645	56585	62	62635	23768	
379	02	54408	10568	5-	02746	47586	50	05643	24313	5-	51745	20665	
390	52	61436	43548	62	51436	49468	5-	05587	20417	53	05563	18314	
382	62	62626	11468	5-	61747	15427	50	05662	19302	80	02764	18414	
438	62	66635	16768							60	14745	20665	
430				52	64546	22588	5-	05658	22468	90	81754	22684	
409	62	66617	55668	87	25635	55687	3-	97638	52698	62	05645	54888	

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W = Present and past weather—See M.O. 252.  
h, N<sub>h</sub> = Height and amount of low cloud—See M.O. 252.  
N = Total amount of cloud—See M.O. 252.  
C<sub>u</sub>, C<sub>l</sub> = Form of low and medium cloud—See page 1.  
V = Visibility. F = Force of wind—See page 1.  
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Monday 17th November 1941



DISTRICTS.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Monday, November 17th 1941

1 S.E. England	Fresh or strong S.W.-W. wind, reaching gale force temporarily at exposed places; bright periods, occasional showers and local thunder today, more general rain later tomorrow; mild.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	Fresh S.W. wind veering W. temporarily, gale on coast at first; much cloud and frequent showers with thunder locally, bright intervals; more general rain spreading from S.W. later.
5 S.W. England	
6 South Wales ...	
7 North Wales ...	Wind variable moderate or light, becoming N.W.; cloudy, rain at times; becoming somewhat colder.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	Wind moderate or fresh S. to S.W. becoming variable; cloudy; rain at times; rather mild.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	As 7-9.
13A. W. Scotland	
13B. N.W. Scotland	Wind variable, moderate or light; cloudy; occasional rain but some bright intervals; rather cold.
14 Mid Scotland	
15 N. E. Scotland	Fresh or strong Easterly wind veering S.E. to S.; overcast with rain at first, fair periods but showers later; becoming somewhat milder.
16 Orkneys and Shetlands	
17 N. W. Ireland	Moderate N.W. wind; bright periods, occasional showers; rather cold.
18 N. E. Ireland	
19 S. E. Ireland	Moderate or fresh N.W. wind, backing S.W. to S. and increasing; bright intervals today, cloud increasing with rain later; becoming milder.
20 S. W. Ireland	

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

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  
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.

GENERAL INFERENCE.

A complex depression covering the British Isles has centre over Scotland and the Irish Sea. The latter centre will move East and then Northeast. Another depression about midway between Ireland and the Azores will move E.N.E. There will be bright intervals in most areas today but occasional showers especially in the North. More general rain is expected to reach the Southwest tonight and to spread Northeastwards.

FURTHER OUTLOOK.

Continuing unsettled generally; further rain spreading eastwards across Southern districts. Gale warning in operation districts 5, 6, 12, 19, 20. Times of issue 0200 17/11 and 0830 17/11/41

Forecasts issued at 1030 G.M.T.  
H.M.S.O. Press, Meteorological Office Dunstable.

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



# 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 at the foot of page 2.)

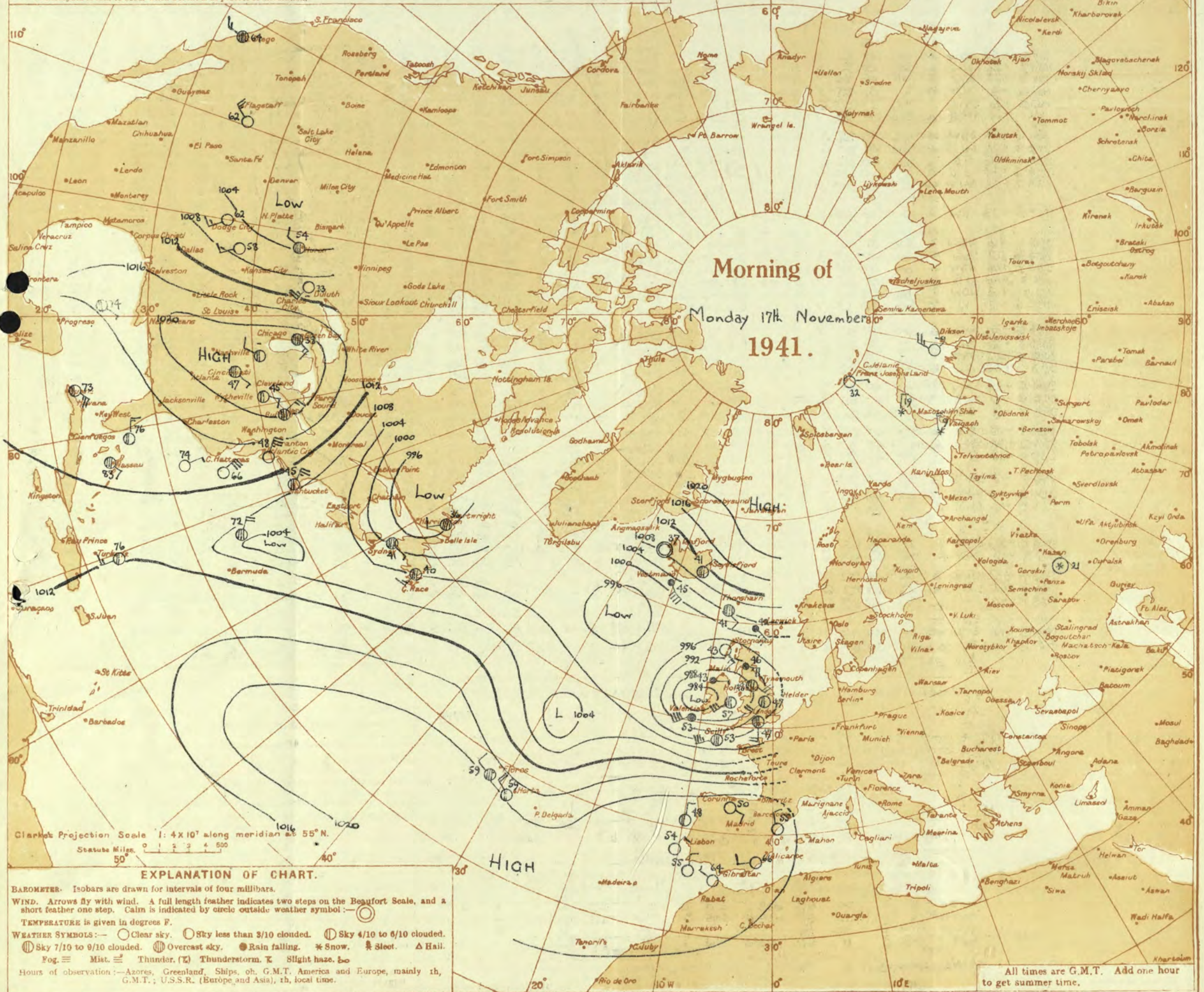
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

**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.





THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 17th November 1941.  
No. 29215

OBSERVATIONS at 1 hr. G.M.T. 17th November														OBSERVATIONS at 7 hr. G.M.T. 17th November														PAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. (6)	Humid. (7)	Visiblity.	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. (20)	Humid. (21)	Visiblity.	Cloud.					State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		SUNSHINE Hrs. (36)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
					Dirce.	Force.					Low.	Med.	High.	Amount.	Height of Base. (feet).			Dirce.	Force.					Low.	Med.	High.	Amount.	Height of Base. (feet).			Max. Day 7h-18h (31)	Min. Night 18h-7h (32)	Min. on Grass (33)	Day 7h-18h (34)	Night 18h-7h (35)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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1	London (Kew)	18	30.08	+0.3	SSW	4	c	48	92	7	1	1	1	1	1001.6	+4	SSW	3	c	47	85	6	5	1	1	1	1	1	52	47	44	1	1	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	Croydon	217	30.07	+0.2	SSW	4	c	47	85	5	1	1	1	1	1001.5	+2	SSW	3	c	46	85	5	5	1	1	1	1	1	52	46	42	4	3	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	S. Farnborough	226	30.07	+0.2	SSW	4	c	46	85	5	1	1	1	1	1001.6	+2	SSW	3	c	46	85	5	5	1	1	1	1	1	52	46	42	4	3	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	Boscombe Down	417	30.04	+0.2	SSW	4	c	46	85	5	1	1	1	1	1001.0	+2	SSW	3	c	46	85	5	5	1	1	1	1	1	53	45	39	4	0.1	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	Thorney Island	10	30.06	+0.8	WS	3	c	50	85	7	1	1	1	1	1003.3	+6	WS	6	c	50	85	8	6	3	3	3	3	3	53	44	44	7	8	*																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	Lympe	346	30.02	+0.2	SSW	2	c	47	87	6	1	1	1	1	1005.3	+6	WS	1	c	46	85	8	5	1	1	1	1	1	52	45	42	3	15	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	Manston	154	30.02	+0.2	SSW	4	c	47	85	7	1	1	1	1	1004.2	+6	SSW	3	c	46	85	8	5	1	1	1	1	1	50	46	41	4	2	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
2	Shoeburyness	11	30.06	+0.2	SSW	4	c	48	92	5	1	1	1	1	1003.3	+2	SSW	4	c	47	85	6	5	3	2	4	6	2	4	50	46	42	1	5	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	Felixstowe	15	30.07	+0.2	SSW	4	c	48	92	6	1	1	1	1	1001.9	+4	SSW	5	c	47	85	7	5	3	1	7	8	3	4	48	46	42	0.2	2	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	Gorleston	5	30.04	+0.6	SE	4	c	49	92	6	1	1	1	1	1002.7	+16	SE	4	c	48	75	7	5	1	1	1	1	1	48	46	42	2	1	*																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	Mildenhall	19	30.06	+0.3	SW	4	c	49	85	6	1	1	1	1	1003.9	+0	SE	4	c	47	85	7	5	7	1	1	1	49	47	40	2	0.1	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	Cranwell	240	30.02	+0.3	SW	6	c	47	85	6	1	1	1	1	1006.6	-2	S	5	c	45	85	7	5	1	1	1	1	45	42	38	3	-	0.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
3	Birmingham	535	30.08	+0.3	SSW	4	c	48	92	5	1	1	1	1	1003.3	+2	SSW	4	c	47	85	6	5	3	2	4	6	2	4	50	46	42	1	5	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	Upper Heyford	408	30.07	+0.2	SSW	4	c	48	92	6	1	1	1	1	1001.9	+4	SSW	5	c	47	85	7	5	3	1	7	8	3	4	48	46	42	0.2	2	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	Ross-on-Wye	223	30.07	+0.2	SSW	4	c	48	92	6	1	1	1	1	1001.9	+4	SSW	5	c	47	85	7	5	3	1	7	8	3	4	48	46	42	0.2	2	0.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
5	Hartland Point	299	30.06	+0.6	WSW	8	c/pr	51	73	7	8	2	-	4-6	10	1500	30.05	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	30.04	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	30.03	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	30.02	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	30.01	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	30.00	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.99	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.98	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.97	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.96	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.95	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.94	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.93	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.92	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.91	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.90	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.89	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.88	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.87	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.86	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.85	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.84	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.83	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.82	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.81	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.80	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.79	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.78	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.77	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.76	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.75	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.74	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.73	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.72	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.71	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.70	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.69	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.68	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.67	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.66	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.65	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.64	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.63	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.62	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.61	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.60	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.59	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.58	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.57	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.56	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.55	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.54	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.53	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.52	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.51	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.50	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.49	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.48	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.47	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.46	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.45	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.44	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.43	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.42	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.41	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.40	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.39	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.38	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.37	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.36	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.35	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.34	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.33	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.32	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.31	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.30	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.29	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.28	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.27	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.26	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.25	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.24	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.23	0	W	8	c/pr	52	75	7	2	2	-	4-6	10	1500	29.22	0	W	8	c/pr</

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

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



AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET  
TUESDAY SECTION

Tuesday, 18th November, 1941.  
No. 29216

OBSERVATIONS at 13h. G.M.T. 17th November														OBSERVATIONS at 18h. G.M.T. 17th November														PAST 24 HOURS.																																																																																																																																																																																																									
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visib. 0-9	Cloud.			Height of Base (feet)	Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visib. 0-9	Cloud.			Height of Base (feet)	State of Ground.	Sea.	WEATHER.																																																																																																																																																																																																									
				Dir.	Force.					Form.	Amount.	Dir.				Force.	Form.					Amount.	Height of Base (feet)	7h.—13h. 17th				13h.—18h. 17th	18h. 17h. to 1h. 18h.	1h.—7h. 18h.																																																																																																																																																																																																							
1	London (Kew) ... Croydon ... S. Farnborough ... Boscombe Down ... Thorney Island ... Lympe ... Manston ...	1002.5 1003.1 1003.1 1003.1 1005.0 1006.6 1006.0	+4 +4 +8 +18 +10 +2 -4	SW SSW WSW SW WSW SSW SSW	5 5 5 6 6 5 5	ir ir pr ro pr pr pr	50 51 51 50 53 51 52	85 85 85 85 75 92 85	7 7 7 6 7 6 6	7 9 6 6 5 9 8	7 - - 2 1 - - -	7 10 10 10 10 9 10	1500 800 1000 600 1500 1500 1000	1006.6 1006.1 1007.3 1008.4 1008.9 1008.7 1006.8	+26 +22 +30 +38 +30 +20 +14	SW SW SW WSW W SW SW	4 5 5 4 6 5 5	ir ir pr pr pr pr pr	51 51 50 49 53 50 51	85 85 85 85 75 85 75	7 6 7 8 7 6 7	5 9 - - 3 - - -	7 10 7 8 10 10 10	1500 4300 3000 1900 4000 1200 1500	1 1 1 1 1 1 1	5 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

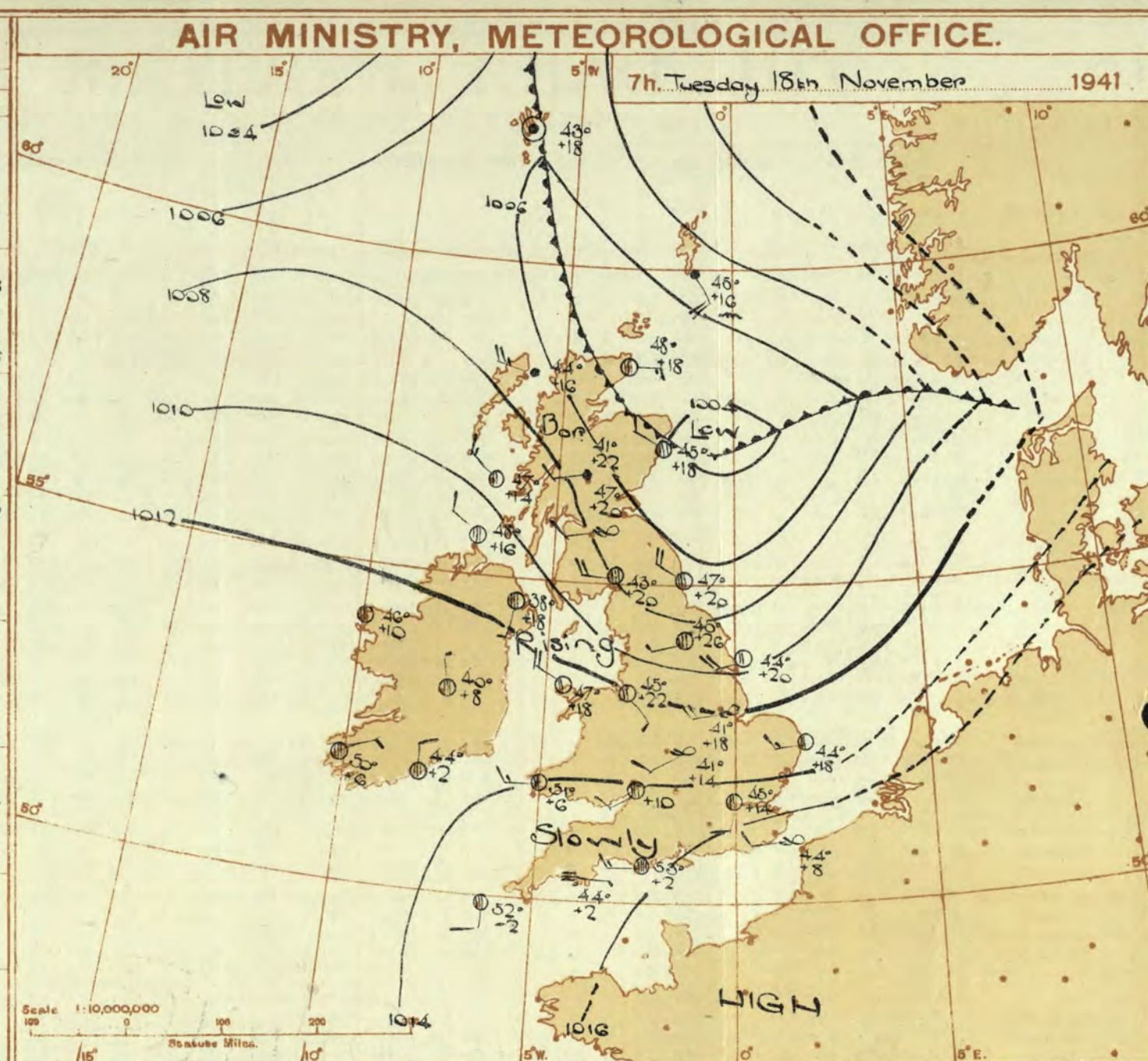
### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).  
bc, sky partly cloudy (one half covered). c, generally cloudy.  
d, drizzle. e, wet air. g, gloom.  
f, fog, visibility 220-1100 yds.  
F, thick fog, less than 220 yds.<



Abridged observations of additional stations in the AVIATION WEATHER CODE											
13h. G.M.T. 17th November				18h. G.M.T.				01h. G.M.T. 18th November			
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>
109	5-	61438	08328	5-	02647	12327	5-	61648	10568	5-	02745
115	52	02734	08467	52	09734	08227	51	02834	12227	52	62834
203	6-	64838	04428	5-	02938	12368					
206	52	61635	08168	57	02845	00068	5-	05658	00028	52	51746
210	57	22854	08267	5-	01863	10113	5-	02879	12128	5-	02738
220	52	63644	29268								
230	57	02857	00038	5-	61748	22168	27	22746	57568	8-	22647
245	54	05645	15366	02	63467	00063	5-	05643	23363	54	05664
260	5-	05567	18127	5-	45368	00048	5-	05658	24148	5-	02756
278	57	63636	28368	50	01753	24463	5-	22747	59467	86	01844
279	02	58428	28258	62	62635	22368	50	80756	22486	50	01763
285	--	57109	08358	5-	05635	28528				23	01744
288	52	61764	14268	57	61548	19267	5-	05558	18218		
295	57	02753	28468	51	02756	29488	57	02754	28265	50	00853
301	5-	21638	24358	50	25653	26483	5-	05666	59526	5-	05645
321	52	59538	53468	5-	61647	24468	81	81655	57586	50	05663
299	8-	25748	16428	8-	03538	20328	5-	01753	20313	50	01744
292	5-	05637	15267	52	22666	54468	5-	02748	22428	50	01854
310	--	57109	20529	--	67109	20569				--	01633
314	62	61646	55568	5-	62648	55568	51	05563	57423	50	05661
333	62	63746	24488	57	02744	24568	5-	01754	24314	5-	00852
334	--	64537	30468	--	25547	30388					
340	57	25845	23488	5-	02868	26328	50	01865	22485	50	02865
136	8-	81748	16588	8-	81848	53488	01	02790	20488	57	05671
336				62	63633	28568				62	61633
350	8-	25748	53688	50	62643	55563	57	05664	19415	57	05664
368	82	22634	57566	5-	02646	24486				86	25643
379	52	02743	53568	50	01843	20363	50	00751	22301	5-	49355
390				8-	25477	55587	00	05690	22480	03	08490
382	52	62745	53528	5-	01744	21364	00	05690	20300	50	01754
488	86	4745	22628							54	02744
430				86	02764	55687	5-	02757	22487		
409	6-	02746	55826	5-	02746	56626	50	00751	14311	5-	02766

III -- Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
 ww, W -- Present and past weather—See M.O. 252.  
 h, N<sub>h</sub> -- Height and amount of low cloud—See M.O. 252.  
 N -- Total amount of cloud—See M.O. 252.  
 C<sub>M</sub> -- Form of low and medium cloud—See page 1.  
 V -- Visibility. F -- Force of wind—See page 1.  
 DD -- Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Tuesday 18th November
1 S.E. England	Moderate westerly winds becoming light; fair at first apart from scattered showers in the West and rain spreading eastwards in the extreme South later; fog developing in many places tonight; rather mild.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	
6 South Wales ...	
7 North Wales ...	Moderate northwest to west wind, decreasing; showers especially in the West, but bright intervals; fog developing in many places tonight; rather mild.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	Moderate or fresh southeast wind; dull, rain at times; little change of temperature.
16 Orkneys and Shetlands	
17 N. W. Ireland	As 7-14
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

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

**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.

**GENERAL INFERENCE.**  
 A depression off East Scotland is filling up. A shallow depression over the western part of the Bay of Biscay is moving east and will cause rain to spread eastwards along our Southern coastal districts. It will be dull with rain at times in Northeast Scotland. Elsewhere there will be bright intervals today but fog will develop extensively tonight.

**FURTHER OUTLOOK.**  
 Bright intervals in most districts; fog in many places at night and in early morning

Forecasts issued at 10.30. G.M.T.  
 H.M.S.O. Press, Meteorological Office Dunstable.  
 N. K. JOHNSON, D.Sc., A.R.C.S.  
 Director.  
 0259/4120. No. 876. D. 6034. 6p. 348. 3500. 8/41



# 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 at the foot of page 2.)

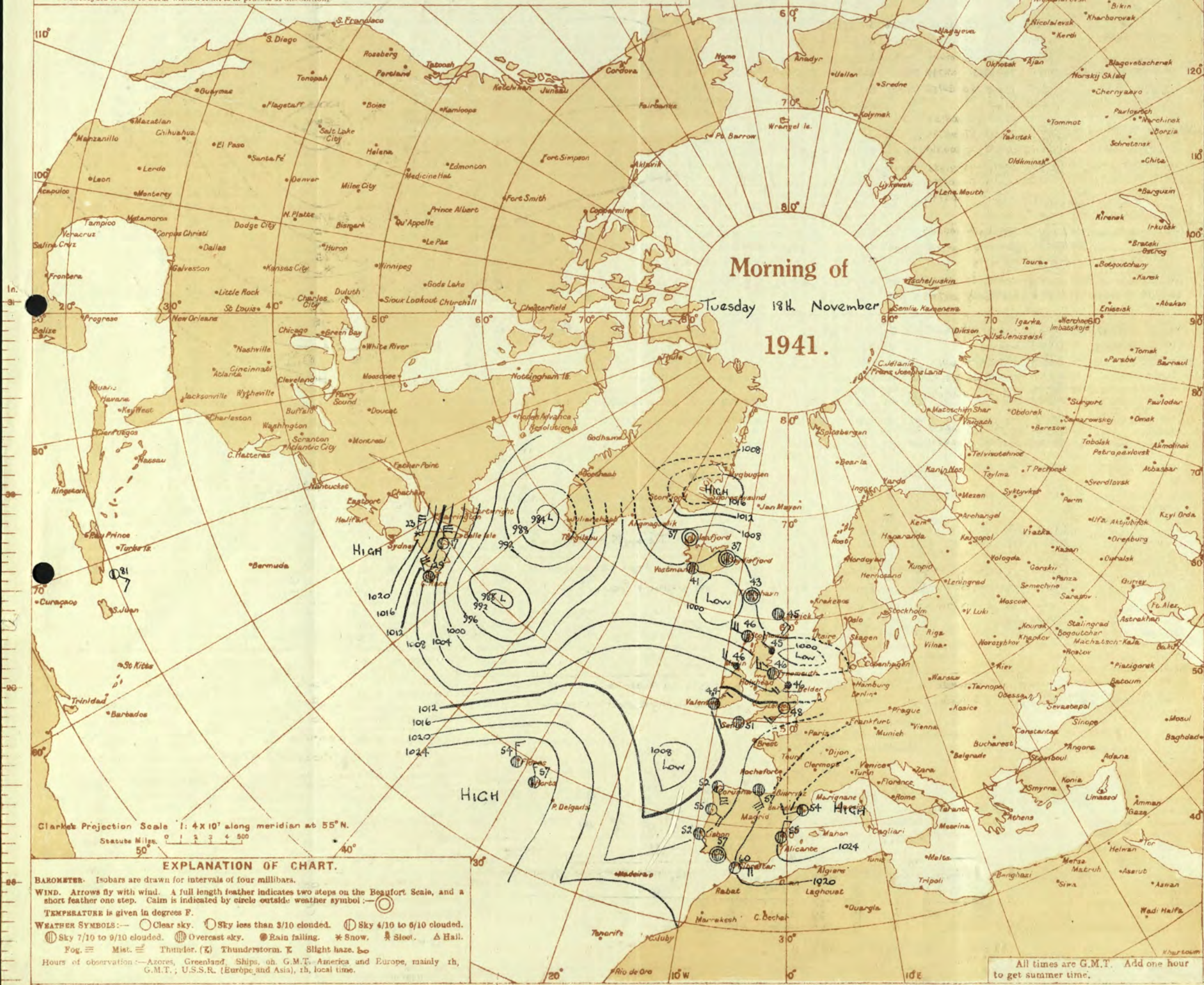
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

**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.





THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Tuesday 18th November 1941.  
No. 23216

OBSERVATIONS at 1 hr. G.M.T. 18th November														OBSERVATIONS at 7 hr. G.M.T. 18th November														PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Temp. (6)	Humid. (7)	Visibility. (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Temp. (20)	Humid. (21)	Visibility. (22)	Cloud.					State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		SUNSHINE. (36)			
					Direc. (3)	Force. (4)				Form. (9)	Amount. (10)	Height of Base (feet). (14)	Direc. (17)	Force. (18)			Form. (23)	Amount. (24)				Height of Base (feet). (28)	Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Day 7h-18h mm. (34)			Night 18h-7h mm. (35)								
																														Low. (11)	Med. (12)	High (13)	Low (25)		Med. (26)	High (27)	
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	1015.0	+4	SW	3	45	92	6	5	-	2-3	4-6	2500	1	*	52	45	39	3	Tr	0.0					
	Croydon	217	1012.7	+22	SW'S	3	b	48	85	7	5	-	1015.6	+4	SSW	3	bc	45	92	7	4	5	0	1	*	53	45	38	2	Tr	0.3						
	S. Farnborough	226	1013.5	+22	WS	3	c	48	85	6	5	-	1015.6	+0	-	0	b	42	97	7	3	1	0	1	*	53	42	33	1	Tr	0.0						
	Boscombe Down	417	1013.7	+18	SW	3	bc	46	92	7	5	-	1015.8	+8	SW	2	bc	41	97	7	7	1	0	4-6	1	*	51	41	3	Tr	0.0						
	Thorney Island	10	1014.5	+22	W	4	b	51	85	7	5	-	1016.2	+10	WSW	2	z	46	97	6	5	4	2	2-3	4000	1	*	55	45	35	0.2	0.1	*				
	Lynapne	346	1013.7	+14	W	4	z	48	92	6	5	4	1016.1	+8	WS	2	z	44	97	6	2	5	4	2-3	4000	1	3	53	44	39	0.5	-	1.0				
	Manston	154	1012.6	+16	SW	3	b	47	85	7	5	4	1015.3	+4	SW	3	z	44	92	6	3	1	0	1	1	*	53	43	38	0.5	Tr	2.0					
2	Shoeburyness	11	1012.3	+10	SW	3	bc	43	85	7	5	3	1015.2	+4	SW	3	c	45	92	5	5	3	2	1	7-8	4000	1	3	53	44	40	1	0.2	0.9			
	Holyhead	15	1010.4	+18	WSW	4	z	46	92	6	5	3	1013.5	+14	WSW	3	z	44	92	6	4	2	0	2-3	-	1	3	52	44	39	2	Tr	1.7				
	Gorleston	5	1008.8	+26	WSW	4	z	46	92	6	5	-	1012.5	+8	WSW	3	bc	44	85	7	5	-	2-3	2000	1	3	54	43	42	0.2	0.5	-					
	Mildenhall	19	1009.5	+20	SWW	3	bc	45	85	7	5	-	1013.0	+6	SWW	3	bc	44	92	7	7	1	0	2-3	-	1	3	53	43	38	1	Tr	0.0				
	Cranwell	240	1007.2	+18	WSW	5	z	45	85	6	5	1	1011.6	+18	WSW	4	z	41	92	6	4	-	0	Tr	-	1	*	50	41	38	1	-	0.7				
3	Birmingham	635	*	*	*	*	*	*	*	*	*	*	1013.3	+4	SW	2	z	41	85	5	7	-	0	4-6	-	1	*	49	41	37	3	-	0.0				
	Upper Heyford	408	1011.0	+22	WSW	2	b	42	97	7	5	4	1013.9	+4	SW	2	z	44	97	6	5	3	4	4-6	3000	1	*	51	42	37	1	-	0.0				
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	1013.9	+10	SW	2	bc	45	85	8	5	7	1	1	2-3	3000	1	*	52	45	39	4	-	0.2			
5	Hartland Point	299	1013.1	+16	NNE	3	bc	51	85	7	4	-	1014.4	+4	W	3	bc	51	85	8	1	4	-	2-3	2500	1	4	53	50	45	4	0.1	0.0				
	Bristol	209	1012.9	+24	W	1	bc	47	92	7	6	-	1015.0	+10	WNW	2	bc	47	85	7	8	7	1	4-6	2000	1	*	53	45	39	9	1	0.2				
	Portland Bill	32	1013.9	+20	W	6	bc	53	92	8	4	-	1014.0	+2	W	3	c	53	92	7	5	-	10	10	4000	1	5	54	51	3	-	0.0					
	Plymouth	82	1014.8	+16	-	0	b	47	92	7	-	-	1015.3	+2	ESE	1	m	44	97	4	5	-	2	4-6	5700	1	2	56	42	38	Tr	Tr	0.9				
	The Lizard	240	1014.6	+10	WSW	2	c	52	92	7	8	-	1014.7	+2	-	0	cpr	49	97	7	8	6	-	7-8	7-8	1500	1	3	56	48	*	2	*				
	Scilly (St. Mary's)	163	1014.5	+10	SWW	2	c	51	92	8	5	-	1014.1	-2	S	2	cjp	52	97	7	5	7	-	4-6	5+1200	1	4	55	48	*	0.1	6.3					
	Guernsey	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
6	Pembroke	142	1012.5	+18	NW	4	bcq	52	92	7	2	4	1014.0	+6	W	3	bc	51	92	7	2	2	2	2-3	4-6	3000	1	3	53	47	*	5	Tr	1.0			
7	Holyhead (Valley)	26	1009.4	+24	NW	5	b	48	75	7	5	-	1012.3	+8	WNW	4	bc	47	85	7	5	3	-	2-3	4-6	2500	0	3	51	45	*	3	-	*			
	Chester (Sealand)	16	1008.7	+22	WS	4	z	48	75	6	5	-	1012.2	+22	SE	1	bc	45	75	6	5	3	-	2-3	4-6	4500	0	*	50	45	35	2	Tr	0.6			
8	Manchester	235	1008.2	+24	WSW	4	c	46	85	7	4	-	1011.8	+20	SWW	4	c	44	85	7	5	-	-	7-8	7-8	2000	1	*	49	42	38	2	Tr	*			
10	Spurn Head	29	1005.3	+20	WSW	4	iro	46	85	6	6	-	1009.3	+20	WSW	4	bc	44	92	7	4	4	-	2-3	2-3	1500	1	3	43	43	*	3	Tr	1.5			
	Catterick	175	1003.6	+40	W	3	z	47	92	6	5	1	1008.5	+26	WSW	1	cpr	45	92	7	5	-	9	1	7-8	3100	1	*	48	45	38	2	0.1	0.0			
	Tynemouth	108	1002.7	+16	NW	3	c	46	85	6	8	-	1006.3	+20	NW	4	c	47	85	7	5	-	-	7-8	7-8	1500	1	4	49	45	41	1	-	*			
11	St. Abbs Head	280	1000.4	+16	NW	3	c	45	85	7	5	4	1004.3	+26	NW	4	c	46	75	7	8	4	-	4-6	7-8	2500	1	2	46	44	*	Tr	0.6	*			
	Leuchars	36	1001.2	+24	NW	2	m	42	97	4	-	-	1004.6	+20	NW	3	c	45	92	7	5	-	-	7-8	7-8	3200	2	*	50	39	30	Tr	-	1.3			
12	Renfrew (Abbots L.)	19	1003.3	+26	SW	2	cpr	47	85	6	5	-	1007.4	+20	WS	2	z	47	85	6	5	2	-	9	10	2500	1	*	45	45	26	0.3	0.5	0.0			
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	1006.9	+20	WN	4	c	43	75	7	5	-	-	10	10	1500	1	*	45	40	40	2	1	0.0			
	Point of Ayre	30	1006.0	+28	WNW	6	bc	47	85	7	4	1	1003.9	+20	WNW	5	b	46	85	8	4	4	-	Tr	1	1800	1	4	50	46	*	5	0.4	0.2			
13a	Tiree	22	*	*	*	*	*	*	*	*	*	*	1009.4	+14	WNW	3	bc	47	75	8	8	-	-	4-6	4-6	2500	0	*	48	47	*	5	2	0.0			
13b	Stornoway	80	1002.2	+26	NW	6	cpr	46	92	7	5	7	1006.9	+16	WNW	5	pr	44	92	7	5	7	-	7-8	10	1500	1	*	48	44	*	0.6	3	0.0			
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	1007.3	+22	WSW	2	iro	41	92	5	5	-	-	10	10	1500	1	*	43	38	33	0.3	3	0.0			
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	1003.9	+18	NW	2	cpr	45	97	6	5	-	-	9	9	1300	1	*	49	44	43	1	15	0.3			
	Wick	119	1001.8	+18	SE	3	iro	48	92	6	5	2	1005.5	+18	E	3	c	48	85	6	5	7	-	4-6	9+	2500	1	*	48	47	45	1	11	*			
16	Sumburgh	30	1005.7	+18	SE	5	z	45	92	6	5	-	1008.5	+16	SE	4	iro	45	85	6	5	2	-	9	10	1200	1	*	47	43	43	2	1	0.0			
17	Blackod Point	18	1010.6	+18	WNW	2	bc	45	85	8	2	-	1012.6	+10	-	0	c	46	92	8	4	-	-	0	7-8	2500	0	*	44	44	*	1	Tr	*			
18	Malin Head	84	1007.1	+30	WNW	4	PR	46	85	6	5	-	1010.3	+16	NW	2	c	48	65	8	5	9	-	4-6	7-8	4000	1	4	48	41	*	1	Tr	0.0			
	Aldergrove	268	1008.1	+26	WS	3	bc	43	85	8	5	4	1011.8	+18	SW	1	c	38	92	8	8	6	3	2-3	7-8	2000	1	*	45	37	32	1	Tr	0.0			
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	1013.2	+8	NNW	1	c	40	97	7	5	1	-	7-8	10	2500	1	*	48	39	36	1	0.1	0.0			
20	Valentia Obay.	30	1013.0	+10	NEE	2	c	44	92	8	5	-	1013.7	+6	NEE	2	c	45	97	8	5	7	-	Tr	10	2500	1	2	51	42	37	9	Tr	2.5			
	Roches Point	22	1012.8	+12	W	3	b	48	85	8	5	-	1013.8	+2	N	2	c	44	97	8	5	-	-	7-8	7-8	2500	1	4	54	42	*	1	Tr	*			
LONDON OBSERVATIONS			Day 7h-18h, Kew & Croydon.		9h-18h, Kensington.		9h-21h, other stations except for rainfall which is 9h-18h.		Height above M.S.L. in feet.		Weather		Temperature.			Rainfall.		Sunshine.		Humidity.		Visibility.		Atmospheric Pollution.		EXPLANATION OF FIGURES, LETTERS, etc.											
			Morning.		Afternoon.		Night.		Day Max.		Night Min.		Min. on Grass °F.		Day.		Night.		Sunset.		15h. G.M.T.		9h. G.M.T.		Milligrams of Solid Impurity per cubic metre.		COLUMNS 2, 16.										
			24 hrs. ended 9h.		°F.		°F.		°F.		°F.		mm.		mm.		Yesterday.		To-day.		34 hrs. ended 7h. G.M.T. 18h.		Max. Time.		Min. Time.		The barometric tendency is expressed in tenths of a millibar.										
			Kew		217		149		27		168		110		80		450		Kew Observatory.		Max. Time.		Min. Time.		17h.		18h.		COLUMNS 4, 18.								
			bc		ir		bc		cm		pw		52		45		38		2		0.0		.		.		5		THE BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.								
			cpr		ir		ro		pro		cm		53		45		38		2		0.3		.		.		6		COLUMNS 30-Code for State of Sea.								
			cir		ir		ro		cep		cb		53		44		35		3		0.3		90		85		4		0 Dense fog 55 yards.								
			.		.		.		.		.		54		44																						

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

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



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

BRITISH SECTION

Wednesday 13th November 1941.  
20217

OBSERVATIONS at 13h. G.M.T. 13th November														OBSERVATIONS at 18h. G.M.T. 13th November														PAST 24 HOURS.								
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. mi.	Cloud.					Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. mi.	Cloud.					State of Ground. 0-9	Sea. 0-9	WEATHER.						
				Direc.	Force.					Low.	Med.	High.	Low 0-10	Total 0-10			Height of Base. (feet)	Low.					Med.	High.	Low 0-10	Total 0-10	Height of Base. (feet)			Form.	Amount.	Height of Base. (feet)	7h.—13h. 13th	13h.—18h. 13th	18h.—19h. 13th	19h.—7h. 14th
1	London (Kew) ...	016.7	+2	SSW	2	no	50	85	5	5	3	1	4.6	9	4000	016.9	+2	SSW	1	43	82	4	5	-	-	24	2500	1	*	bccmo	cm	cmffw	cfew			
	Croydon ...	016.8	0	SW'S	2	c	53	65	7	5	4	4	4.6	9	3000	016.7	-2	SSW	1	43	92	3	5	-	-	10	10	5000	1	*	bcmo	cm	cfidm	bcwrf		
	S. Farnborough ...	016.8	+2	WSW	3	c	52	75	7	5	7	-	7.8	9	2500	016.9	+4	-	0	55	55	5	5	-	-	10	10	1200	1	*	bwbcmoc	cm	cmffw	cmwrf		
	Boscombe Down ...	017.0	+2	SW'S	2	bc/pr	52	85	7	7	-	-	2.3	4.6	2500	016.8	+2	SE	1	48	97	6	5	7	-	7.8	9	4800	1	*	cpromobc	bcprc	cmwrf	bcwrf		
	Thorney Island ...	017.1	-2	E'N	1	c/pr	53	85	6	5	6	-	7.8	9	2500	016.8	-2	SW	2	49	97	7	5	7	-	1	1	1500	1	*	mprocmo	cp	cmwrf	bcwrf		
	Lymington ...	017.7	+2	SW	1	c	56	75	8	1	2	9	2.3	9	1500	017.7	+2	-	0	48	97	6	5	-	-	7.8	7.8	1500	1	*	cmoc	cm	cmwrf	bcwrf		
	Manston ...	017.1	0	WSW	3	c	53	75	8	8	8	8	2.3	9	2700	017.2	0	SW	1	50	97	6	5	6	-	9	9	4000	1	*	cmoc	cm	cmwrf	bcwrf		
2	Shoeburyness ...	016.9	+4	SW	2	bc	53	75	6	-	-	2	0	4.6	-	017.3	+2	-	0	49	85	4	5	-	-	10	10	4000	1	*	bcmo	cm	cmwrf	bcwrf		
	Felixstowe ...	015.5	+2	SW	2	m	51	85	4	-	4	6	0	7.8	-	016.0	+6	SW'W	1	44	92	4	-	4	-	0	Tr	-	1	2	*	cmobm	cm	cmwrf	bcwrf	
	Gorleston ...	015.3	+6	W'S	3	bc	51	75	1	-	5	1	2.3	2500	016.8	+8	SW	2	44	75	6	-	-	-	0	0	-	-	1	2	*	bc	cm	cmwrf	bcwrf	
	Mildenhall ...	015.5	+6	SW'W	4	c	53	75	7	1	4	6	2.3	7.8	2500	016.1	+6	SW'S	2	45	85	6	-	4	-	0	1	-	1	2	*	moba	cm	cmwrf	bcwrf	
	Cranwell ...	014.5	+14	W	3	no	50	85	6	5	-	1	2.3	4.6	2000	015.7	+10	W'S	1	43	85	4	5	4	6	2.3	7.8	2500	0	*	bmbcz	cm	cmwrf	bcwrf		
3	Birmingham ...	015.7	+6	SW	2	c	49	85	6	8	-	3	4.6	7.8	1500	016.5	+4	W	1	44	85	2	5	-	-	2.3	2.3	2500	1	*	bcz	cm	cmwrf	bcwrf		
	Upper Heyford ...	015.7	+10	WSW	2	c	52	75	7	8	-	8	2.3	7.8	2500	016.1	+6	SSW	1	45	92	6	4	6	1	2.3	2500	1	*	jffbc	cm	cmwrf	bcwrf			
4	Ross-on-Wye ...	015.5	0	SSW	2	bc	54	65	6	2	4	4	1	4.6	3500	015.9	+4	NE	1	48	85	5	4	1	8	7.8	2500	1	*	bc	cm	cmwrf	bcwrf			
5	Hartland Point ...	015.5	0	SSE	2	ir	51	92	6	5	1	-	4.6	9	2000	014.4	-4	SSW	3	49	92	8	3	4	-	4.6	9	1500	1	4	*	bccdo	cm	cmwrf	bcwrf	
	Bristol ...	016.4	+4	SSW	2	bc	55	75	7	2	7	5	1	4.6	2500	015.9	0	-	0	49	85	6	5	1	8	4.6	9	2500	1	4	*	c	cm	cmwrf	bcwrf	
	Portland Bill ...	016.4	+2	S	4	ido	52	92	7	5	-	-	10	10	2500	016.0	-4	S	3	53	85	5	1	-	-	4.6	4.6	4000	1	4	*	ido	cm	cmwrf	bcwrf	
	Plymouth ...	015.6	-2	-	0	c	54	92	7	9	-	-	9	9	1000	014.8	0	-	0	47	97	5	8	-	-	4.6	4.6	1500	1	2	*	cmfc	cm	cmwrf	bcwrf	
	The Lizard ...	015.7	0	SSW	4	c	54	92	8	8	5	-	4.6	7.8	2500	014.4	-6	S	3	51	92	8	6	6	-	4.6	7.8	1500	1	3	*	bcc	cm	cmwrf	bcwrf	
	Scilly (St. Mary's) ...	014.6	+2	SSW	3	c	56	85	8	8	7	3	2.3	7.8	1500	013.9	0	SW	2	51	92	7	5	3	3	2.3	7.8	1200	1	3	*	c	cm	cmwrf	bcwrf	
	Guernsey ...	014.6	+2	SSW	3	c	56	85	8	8	7	3	2.3	7.8	1500	013.9	0	SW	2	51	92	7	5	3	3	2.3	7.8	1200	1	3	*	c	cm	cmwrf	bcwrf	
6	Pembroke ...	015.9	+6	E	2	ro	51	97	7	8	6	-	7.8	10	2600	014.8	+4	ENE	4	48	97	7	8	-	-	4.6	9	500	1	3	*	cro	cm	cmwrf	bcwrf	
7	Holyhead (Valley) ...	014.9	+6	W	3	c	50	75	9	2	6	7	2.3	9	2500	015.3	+6	-	0	45	92	8	-	7	-	0	9	-	0	1	*	bcc	cm	cmwrf	bcwrf	
	Chester (Sealand) ...	014.8	+8	W'N	3	c	50	65	7	5	-	8	7.8	7.8	5000	015.5	+2	WSW	1	46	85	6	5	7	-	2.3	10	2500	1	*	bcczo	cm	cmwrf	bcwrf		
8	Manchester ...	014.6	+6	WSW	3	bc	48	85	7	2	3	-	4.6	1.6	3500	015.8	+10	SW	1	42	92	6	4	3	5	2.3	10	3000	1	*	cmobc	cm	cmwrf	bcwrf		
10	Spurn Head ...	013.1	+24	SW'W	3	no	48	75	6	1	-	-	4.6	4.6	1500	014.7	+16	WSW	3	44	75	6	2	-	-	2.3	2.3	1500	0	3	*	c	cm	cmwrf	bcwrf	
	Catterick ...	012.3	+12	WNW	3	bc	50	75	8	5	-	-	4.6	4.6	3000	014.4	+10	WSW	2	43	85	6	-	3	-	0	1	-	1	*	bc	cm	cmwrf	bcwrf		
	Tynemouth ...	010.7	+18	W	5	c	45	85	6	8	-	-	7.8	7.8	3000	013.1	+14	W	3	45	75	6	2	-	-	2.3	2.3	3000	1	3	*	bc	cm	cmwrf	bcwrf	
11	St. Abbs Head ...	009.0	+20	WNW	4	c	46	75	7	5	7	-	4.6	9	3500	010.3	+8	WNW	4	46	65	7	5	7	-	4.6	7.8	2500	1	3	*	c	cm	cmwrf	bcwrf	
	Leuchars ...	008.9	+14	WNW	3	bc	48	75	9	5	-	-	4.6	4.6	3500	011.2	+14	WNW	3	47	85	8	5	4	-	7.8	9	3500	1	*	bccbc	cm	cmwrf	bcwrf		
12	RAF (Abbots) ...	011.3	+10	WNW	3	bc	50	65	8	5	4	-	4.6	4.6	3500	013.0	+6	-	0	49	85	8	5	6	-	Tr	1	3000	1	*	cmobc	cm	cmwrf	bcwrf		
	Eakdalemuir ...	011.1	+12	N'W	2	bc	45	65	8	5	-	-	4.6	4.6	2500	013.4	+8	SE	1	47	85	8	-	-	0	0	-	-	1	*	cbc	cm	cmwrf	bcwrf		
	Point of Ayre ...	013.4	+12	NW'W	4	bc	51	75	8	1	4	6	Tr	2.3	3000	014.5	+4	NW'W	3	47	85	8	5	-	-	2.3	2.3	4000	0	3	*	b	cm	cmwrf	bcwrf	
13A	Tiree ...	012.2	+6	NNW	3	bc	48	75	8	8	3	-	4.6	4.6	3500	013.8	+10	-	0	38	92	8	1	4	-	Tr	1	3500	0	3	*	bc	cm	cmwrf	bcwrf	
13B	Stornoway ...	010.9	+14	NNW	3	c	45	92	8	5	7	-	7.8	9	2500	012.4	+6	NNW	2	42	85	8	5	7	5	4.6	9	3000	1	2	*	cpr	cm	cmwrf	bcwrf	
15	Datwhinnie ...	010.9	+18	NNW	1	c	42	85	7	5	-	-	9	9	1500	012.1	+12	-	0	40	85	7	5	-	-	4.6	9	1500	1	*	piroc	c	cmwrf	bcwrf		
	Aberdeen ...	008.6	+18	NW	3	c	47	85	7	5	3	-	2.3	7.8	3100	011.4	+16	NW'W	3	46	85	8	5	-	-	4.6	9	3100	1	2	*	cdobc	bc	cmwrf	bcwrf	
	Wick ...	009.3	+16	E'S	2	dr	47	92	6	5	-	-	9	9	900	011.1	+12	SE	2	46	92	6	5	-	-	10	10	900	1	*	ddrom	rdom	cmwrf	bcwrf		
16	Sumburgh ...	011.6	+10	SE	3	ro	45	85	7	5	-	-	9	10	1200	013.0	+12	SE	3	44	85	7	5	-	-	10	10	200	1	4	*	irm	irm	cmwrf	bcwrf	
17	Blackad Point ...	014.4	+10	SW	1	bc	54	85	8	2	-	-	2.3	2.3	2500	014.8	+2	-	0	43	97	8	2	-	-	4.6	4.6	2500	0	*	bc	cm	cmwrf	bcwrf		
18	Malin Head ...	012.9	+10	W'S	1	c/pr	49																													

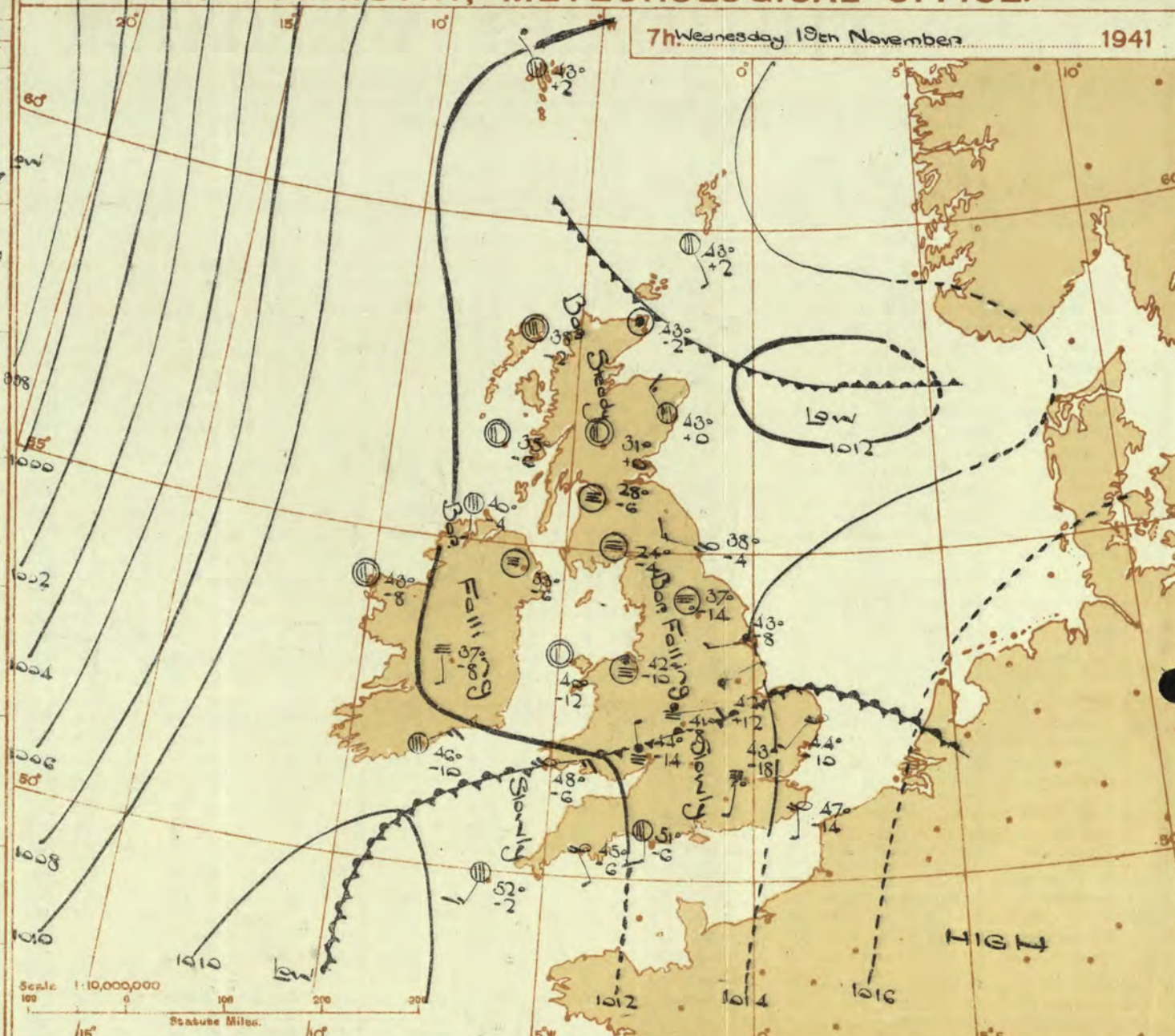


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 18th November				14h. G.M.T. 19th November				15h. G.M.T. 19th November				16h. G.M.T. 19th November			
IIIC	C <sub>u</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>u</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>u</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>u</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>u</sub>	wwVhN <sub>h</sub>	DDFWN
109	5-	52639	09358	5-	51538	09358	5-	03758	00028	57	61746	00028			
115	51	62734	28467	52	62834	28467	54	02844	28385	54	01853	16124			
203	8-	02847	28667	8-	02945	28326	50	00952	16212	50	01944	16304			
206	52	02967	28268	57	61855	22168	52	02755	00068	53	01854	24124			
210	57	21746	21458	5-	02758	23328	5-	52645	20258	54	02866	20227			
220	53	02855	28316	50	01753	00003				50	01753	12103			
230	73	01963	27313	84	01863	27224	00	05670	00000	04	00720	00001			
245	54	02954	22316	57	02866	26127	5-	02767	23127	5-	02767	24167			
260	57	02864	24325	50	05666	22216	00	05670	22110						
278	81	847	27387	8-	25747	00087	51	02855	25225	8-	05637	00087			
279	86	02864	22315	40	00852	22212	5-	02767	20127	87	51645	30157			
285	23	01743	26514							50	01745	32215			
288	7-	02966	23416	54	00771	00012	50	05662	20102	5-	05657	20217			
575	54	00763	10103	5-	02865	20125	50	00762	00052	--	46009	00049			
801	50	01854	26425	50	05652	27124	52	05553	00018	5-	47356	00026			
321	83	05565	22317	50	08464	20224	00	08470	23210	02	62468	23268			
329	53	02753	24203	00	00790	00000	00	00790	24100	5-	05654	24125			
329	50	01850	23383	07	01690	24213	50	01753	21103	5-	08458	00028			
310	--	01635	24415	--	01634	24414				--	63428	04468			
614	5-	05655	22325	07	05670	22223	5-	67348	20168	62	67344	04168			
333	5-	02551	26317	02	67290	00068	02	62668	00068	57	02864	04167			
334	--	01763	28204	--	05456	30228				--	63547	24188			
340	47	01863	22214	01	05690	24128	5-	62868	20168	5-	62458	32168			
136	0	05651	22413	50	05653	21218	51	62471	20228	5-	22667	08168			
336	54	02752	24317	62	62633	24368				52	51633	12358			
350				44	05651	20112	--	48209	00069	5-	08448	06148			
308	84	02856	20127	5-	05558	12128	--	44309	11149	5-	62428	09268			
379	10	02742	22345	07	05690	20112	--	46309	00069	--	67109	08149			
390	00	08480	23245	00	47290	21243	5-	45267	16167	--	48109	00049			
382	17	01853	20315	57	04561	00015	5-	44248	00048	--	44209	00049			
438	81	81735	22588							8-	0747	14217			
430				53	05644	20287	03	08480	30112						
100	57	63635	14367	23	01642	16264	50	05643	16113	52	22667	14368			

III - Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W - Present and past weather—See M.O. 252.  
h, N<sub>h</sub> - Height and amount of low cloud—See M.O. 252.  
N - Total amount of cloud—See M.O. 252.  
C, C<sub>u</sub> - Form of low and medium cloud—See page 1.  
V - Visibility. F - Force of wind—See page 4.  
DD - Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

# AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 19th November 1941
1 S.E. England	Light variable wind; cloudy; slight local rain; some fog; average or rather low temperature.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Wind S. or S.W. light or moderate freshening later; cloudy; occasional rain; local fog; average temperature.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	As 1-4.
9 N. Midlands ...	
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Light variable wind; variable cloud; local showers; local fog; rather cold.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	Freshening S. wind; rain spreading N.E.; local fog at first; becoming milder.
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

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

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.

**GENERAL INFERENCE**  
Pressure is uniform over the British Isles and low to westward. Weather will be quiet with much fog and local rain.

**FURTHER OUTLOOK**  
Rain probably spreading east; Wind tending to freshen from S. to S.W.

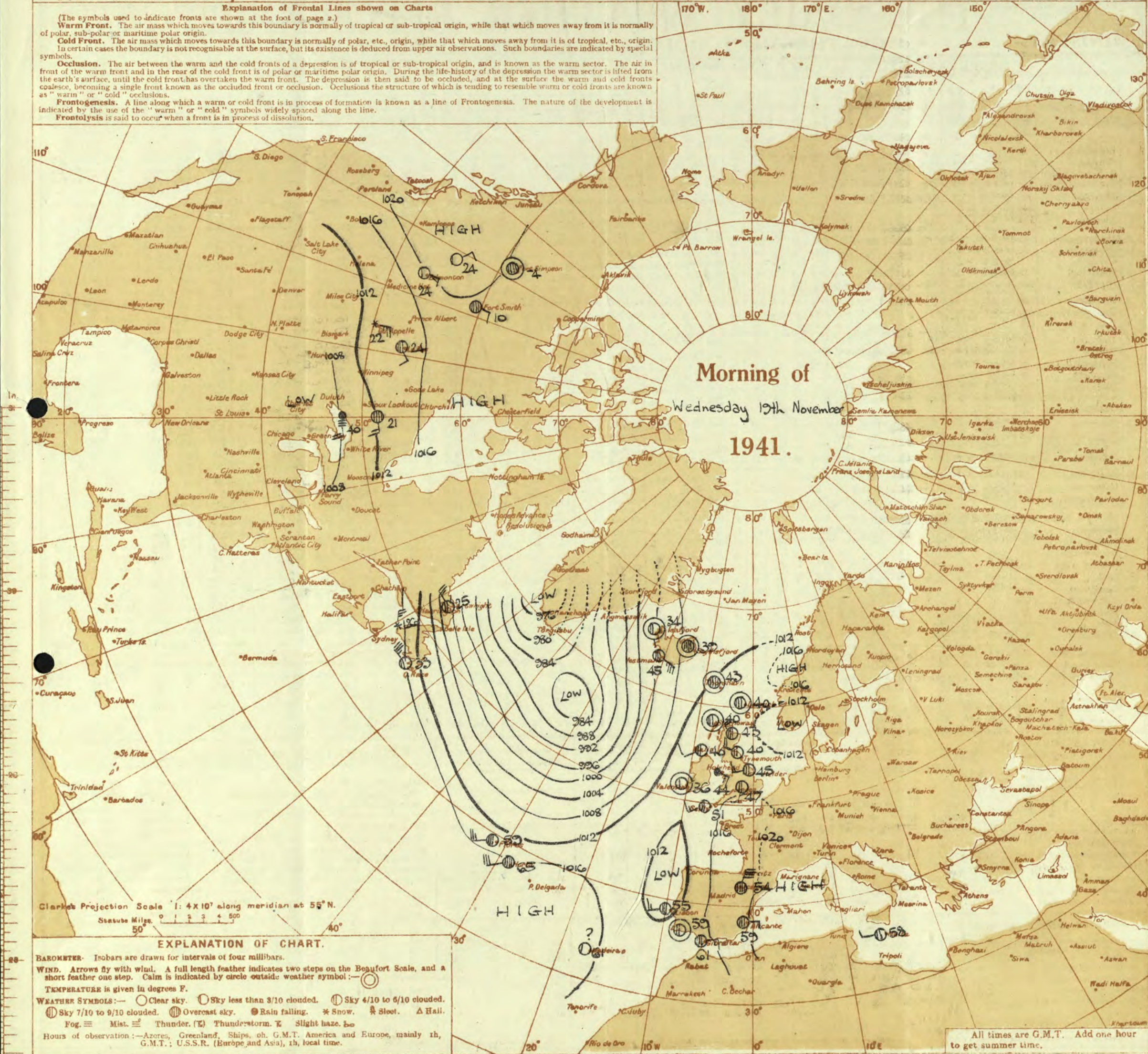
Forecast issued at 1030 G.M.T.  
H.M.S.O. Press, Meteorological Office Dunstable.  
N. K. JOHNSON, D.Sc., A.R.C.S., Director.



# 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 at the foot of page 2.)  
**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.





AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Wednesday 19th November 1941.  
No 22217.

OBSERVATIONS at 1 hr. G.M.T. 19th November														OBSERVATIONS at 7 hr. G.M.T. 19th November														PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Temp. °F.	Humid. %	Visibility.	Cloud.			Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Temp. °F.	Humid. %	Visibility.	Cloud.			State of Ground.	Sea.	TEMPERATURE.			RAINFALL.		SUNSHINE Hrs.							
					Direc.	Force.				Form.	Amount.	Height of Base (feet).			Direc.	Force.				Weather.	Temp.	Humid.			Form.	Amount.	Height of Base (feet).	Max. Day 7h-18h °F.	Min. Night 18h-7h °F.		Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.				
																																		0-12	0-6	0-10	0-10
1	London (Kew) ... 18	217	30.57	-1.4	SSW	1	45	97	6	5	4	1	4	25.0	30.57	-1.8	SSW	1	44	97	6	5	4	1	4	25.0	1	52	41	34	Tr	Tr	2.1				
	Croydon ... 217	217	30.57	-1.4	SSW	1	47	97	6	5	4	1	4	25.0	30.57	-1.8	SSW	1	43	97	4	5	7	1	4	25.0	1	56	42	35	Tr	Tr	2.6				
	S. Farnborough ... 226	226	30.55	-1.4	SSW	1	46	97	4	5	7	1	4	25.0	30.55	-1.8	SSW	1	41	92	2	5	7	1	4	25.0	1	53	41	36	Tr	Tr	0.8				
	Boscombe Down ... 417	417	30.58	-1.0	SE	3	44	97	6	5	7	1	2	3	30.58	-1.4	SE	3	42	97	3	1	7	1	4	25.0	1	53	41	38	0.5	0.1	0.4				
	Thorney Island ... 10	10	30.56	-1.4	SSW	2	46	97	6	5	4	2	2	3	30.56	-1.4	SSW	2	44	97	4	5	7	1	4	25.0	1	54	40	32	Tr	Tr	0.1				
	Lymington ... 346	346	30.75	-6	SSW	1	47	97	6	5	4	2	2	3	30.75	-1.4	SSW	1	47	97	6	5	4	2	2	3	30.75	1	57	44	32	1	0.1	3.1			
	Manston ... 154	154	30.67	-6	SSW	2	46	92	6	5	4	2	2	3	30.67	-1.4	SSW	2	46	92	6	5	4	2	2	3	30.67	1	54	42	32	Tr	Tr	3.0			
2	Shoeburyness ... 11	11	30.4	-1.2	SSW	2	47	92	4	5	4	4	4	25.0	30.4	-1.4	SSW	2	43	97	3	5	7	1	4	25.0	1	54	41	32	Tr	Tr	4.1				
	Felixstowe ... 15	15	30.58	-6	SSW	1	46	97	4	5	4	4	4	25.0	30.58	-1.2	SSW	1	44	97	1	5	7	1	4	25.0	1	53	42	34	Tr	Tr	4.9				
	Gorleston ... 5	5	30.6	-2	SSW	1	46	92	5	5	4	4	4	25.0	30.6	-1.0	SSW	1	44	97	5	5	7	1	4	25.0	1	52	42	40	Tr	Tr	5.3				
	Mildenhall ... 19	19	30.63	-2	SSW	1	46	97	3	5	4	4	4	25.0	30.63	-1.4	SSW	1	42	92	4	5	7	1	4	25.0	1	54	38	32	Tr	Tr	5.4				
	Cranwell ... 240	240	30.6	-2	SSW	3	43	92	4	5	7	1	4	25.0	30.6	+1.2	SSW	3	42	92	4	5	2	1	4	25.0	1	50	41	38	Tr	Tr	5.4				
3	Birmingham ... 535	535	30.7	-4	SSW	1	45	97	0	5	4	4	4	25.0	30.7	-1.8	SSW	2	41	97	3	6	7	1	4	25.0	1	50	41	38	Tr	Tr	2.7				
	Upper Heyford ... 408	408	30.7	-4	SSW	1	45	97	0	5	4	4	4	25.0	30.7	-1.4	SSW	2	43	97	2	5	7	1	4	25.0	1	53	43	36	Tr	Tr	2.7				
4	Ross-on-Wye ... 223	223	30.7	-4	SSW	1	45	97	0	5	4	4	4	25.0	30.7	-1.4	SSW	1	44	97	2	5	7	1	4	25.0	1	54	43	42	Tr	Tr	6.0				
5	Hartland Point ... 299	299	30.34	-6	SE	3	47	85	7	5	4	4	4	25.0	30.34	-1.0	SE	3	47	92	7	5	2	1	4	25.0	1	53	45	43	Tr	Tr	0.0				
	Bristol ... 209	209	30.4	-1.4	SE	2	44	97	6	5	4	4	4	25.0	30.4	-1.0	SE	1	45	97	4	6	2	1	4	25.0	1	57	43	39	Tr	Tr	4.2				
	Portland Bill ... 32	32	30.45	-1.6	SE	3	52	85	8	5	4	4	4	25.0	30.45	-1.4	SE	2	51	85	8	5	2	1	4	25.0	1	53	50	39	Tr	Tr	0.2				
	Plymouth ... 82	82	30.4	-1.0	SE	3	51	92	6	5	4	4	4	25.0	30.4	-1.0	SE	2	45	97	5	5	2	1	4	25.0	1	56	45	38	Tr	Tr	1.7				
	The Lizard ... 240	240	30.4	-1.0	SSW	3	51	85	8	5	4	4	4	25.0	30.4	-1.0	SSW	3	51	97	7	8	2	1	4	25.0	1	56	49	38	Tr	Tr	3.8				
	Scilly (St. Mary's) ... 163	163	30.3	-6	SSW	3	51	97	7	5	4	4	4	25.0	30.3	-2	SSW	3	52	97	8	5	2	1	4	25.0	1	56	49	38	Tr	Tr	3.2				
	Guernsey ... 175	175	30.3	-6	SSW	3	51	97	7	5	4	4	4	25.0	30.3	-2	SSW	3	52	97	8	5	2	1	4	25.0	1	56	49	38	Tr	Tr	3.2				
6	Pembroke ... 142	142	30.34	-8	SE	3	50	97	7	8	1	1	1	15.0	30.34	-6	SE	3	48	97	6	8	2	1	4	25.0	1	53	45	34	Tr	Tr	0.4				
7	Holyhead (Valley) ... 26	26	30.45	-8	SE	3	44	97	7	5	2	2	2	25.0	30.45	-12	SE	3	40	92	7	5	2	1	4	25.0	1	52	39	34	Tr	Tr	2.8				
	Chester (Sealand) ... 16	16	30.54	-2	SE	1	43	92	4	5	2	2	2	25.0	30.54	-10	SE	1	42	97	3	5	2	1	4	25.0	1	51	42	40	Tr	Tr	2.8				
8	Manchester ... 235	235	30.58	-4	SSW	1	43	85	5	5	2	2	2	35.0	30.58	-2	SSW	1	40	97	3	5	2	1	4	25.0	1	48	43	37	Tr	Tr	3.8				
10	Spurn Head ... 29	29	30.52	+4	WS	3	43	92	5	5	4	4	4	25.0	30.52	-8	WS	1	43	92	5	5	2	1	4	25.0	1	50	41	35	Tr	Tr	4.4				
	Catterick ... 175	175	30.5	+2	WS	3	36	92	6	5	2	2	2	25.0	30.5	-14	WS	3	37	97	4	5	2	1	4	25.0	1	50	37	25	Tr	Tr	5.8				
	Tynemouth ... 108	108	30.38	+4	WSW	4	40	85	7	5	4	4	4	25.0	30.38	-4	WSW	3	38	92	5	2	2	1	4	25.0	1	49	37	35	Tr	Tr	5.8				
11	St. Abbs Head ... 280	280	30.27	+6	WSW	2	44	65	7	4	4	4	4	25.0	30.27	0	WSW	2	42	85	7	5	7	1	4	25.0	1	47	42	35	Tr	Tr	0.4				
	Leuchars ... 36	36	30.3	+8	WS	2	42	85	7	5	4	4	4	25.0	30.3	0	WS	1	40	92	6	5	7	1	4	25.0	1	48	40	35	Tr	Tr	0.4				
12	Renfrew (Abbots) ... 19	19	30.43	+2	WSW	1	31	92	7	5	4	4	4	25.0	30.43	-6	WSW	1	28	97	2	5	7	1	4	25.0	1	52	27	19	Tr	Tr	2.8				
	Eskdalemuir ... 794	794	30.43	0	WS	2	37	97	8	5	4	4	4	25.0	30.43	-4	WS	1	24	97	3	5	4	1	4	25.0	1	47	24	18	Tr	Tr	2.6				
	Point of Ayre ... 30	30	30.43	0	WS	2	37	97	8	5	4	4	4	25.0	30.43	-4	WS	1	43	85	8	5	7	1	4	25.0	1	51	36	18	Tr	Tr	5.0				
13a	Tiree ... 22	22	30.44	0	WS	2	43	92	8	5	4	4	4	25.0	30.44	-6	WS	2	35	97	8	5	7	1	4	25.0	1	49	35	34	Tr	Tr	3.4				
13b	Stornoway ... 80	80	30.3	+2	WS	2	40	92	8	5	4	4	4	25.0	30.3	-2	WS	2	38	92	8	5	4	1	4	25.0	1	48	41	34	Tr	Tr	0.6				
15	Dalwhinnie ... 1176	1176	30.4	0	WS	2	45	92	8	5	4	4	4	25.0	30.4	0	WS	2	31	85	8	5	7	1	4	25.0	1	42	29	24	Tr	Tr	0.0				
	Aberdeen ... 79	79	30.4	0	WS	2	45	92	6	5	2	2	2	25.0	30.4	-2	WS	3	43	92	8	5	7	1	4	25.0	1	47	45	40	Tr	Tr	0.6				
	Wick ... 119	119	30.25	+2	SE	2	45	92	6	5	2	2	2	25.0	30.25	-2	SE	2	43	97	6	5	2	1	4	25.0	1	47	43	42	Tr	Tr	0.3				
16	Sumburgh ... 30	30	30.38	+2	SE	2	45	85	7	5	4	4	4	25.0	30.38	+2	SE	1	43	92	7	5	3	1	4	25.0	1	45	43	41	Tr	Tr	0.0				
17	Blackod Point ... 18	18	30.42	-6	WS	2	42	97	8	5	4	4	4	25.0	30.42	-8	WS	2	43	97	8	4	7	1	4	25.0	1	54	40	34	Tr	Tr	0.0				
18	Malin Head ... 84	84	30.3	-2	WS	2	40	92	8	5	4	4	4	25.0	30.3	-4	WS	1	40	92	8	8	7	1	4	25.0	1	50	37	29	Tr	Tr	0.0				



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

SECRET

Thursday, 20th November 1941.  
No. 29218

OBSERVATIONS at 13h. G.M.T. 19th November														OBSERVATIONS at 18h. G.M.T. 19th November														PAST 24 HOURS.									
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.							
				Direc. (3)	Force. 0-12 (4)					Form. (9)	Med. (10)	High (11)	Low 0-10 (12)	Total 0-10 (13)			Height of Base. (feet) (14)	Form. (23)					Med. (24)	High (25)	Low 0-10 (26)	Total 0-10 (27)	Height of Base (feet) (28)			7h.—13h. 19th.				13h.—18h. 19th.		18h.—19th 20th	
																														19th.	19th.	19th.	20th	19th.	20th	19th.	20th
1	London (Kew)...	1011.3	-12		0	of	48	92	3	5	-	9+	9+	4000	1011.3	+2	W	1	cf	47	97	3	5	-	10	10	2500	1	*	cFeff	eff	cFF	cFcm.				
	Croydon ...	1011.7	-14	S	1	20	50	85	6	5	3	-	7.8	9+	4500	1011.5	+2	SSW	1	bfft	46	97	2	5	-	10	10	1200	1	*	cmofcm.	mofpfe	ofer.	cfrsm			
	S. Farnborough	1011.3	-14		0	m/f	48	97	4	5	-	10	10	400	1011.5	+2		0	cft	47	97	3	5	3	-	9+	10	600	1	*	ofefcm	cmidf	cfFowd.	ofdrsm			
	Boscombe Down	1011.6	-10		0	20	49	92	5	5	3	-	1	9+	1500	1011.7	+2	ESE	1	m	46	97	4	5	-	7.8	7.8	4500	1	*	cmofr	cmofr	cirmoid.	d.d.fcm			
	Thorney Island	1011.3	-14		0	20	51	92	7	8	7	-	4.6	9+	2500	1011.3	+2	SSW	1	m	49	92	4	5	7	-	4.6	9	7200	1	*	cmofr	cmofr	rrfom	tefif		
	Lympe	1012.4	-10		0	40	47	92	6	5	7	-	9	9+	1500	1012.1	+2		0	bfft	44	97	2	2	-	4.6	4.6	3500	1	3	cmofr	cmofr	bcbFF	cmofr			
	Manston	1011.6	-14		0	20	49	92	5	3	-	7.8	9+	1100	1011.2	+2		0	fg	45	92	4	5	3	-	4.6	9+	2000	1	*	cwmamm	cmam	cmofe	ofecm			
2	Shoeburyness ...	1012.2	-14	E'S	1	c	48	92	5	5	7	-	7.8	9+	4000	1012.0	+6		0	bft	45	97	3	-	-	0	0	-	1	*	cfeemo	cmofr	bFeFe	ofefc			
	Felixstowe	1011.4	-20	E'N	2	20	48	97	5	5	7	-	7.8	9+	4000	1011.0	0	N'E	1	z	47	92	5	5	-	7.8	7.8	2500	1	0	offemo	cmofr	bcsmcm	cbcmo			
	Gorleston	1013.2	-10	NE	2	0/r	45	85	7	5	-	10	10	2500	1012.2	-2	NE'E	3	z	45	85	6	6	-	10	10	1800	1	2	cpofc	cmofr	orrcm	bcsmo				
	Mildenhall	1012.3	-12	NE'E	1	0	46	85	6	5	-	10	10	2500	1011.7	0	NE	2	z	44	92	5	5	-	10	10	900	1	*	cirmo	cmofr	cmam	cmofr				
	Cranwell	1012.9	-10		0	rr	42	97	5	-	2	-	10	10	1500	1012.1	+2		0	m	40	97	4	5	3	-	4.6	9	4000	1	*	cmorr	cmofr	cbcmf	ofdr		
3	Birmingham	1012.1	-8	E	2	c/r	42	92	4	6	2	-	9+	10	800	1012.4	+2	ESE	2	cf	41	92	3	5	-	10	10	800	1	*	foird	cmofr	of	ofrF			
	Upper Heyford	1011.8	-8	ENE	2	r/f	43	97	3	-	-	10	10	450	1011.5	+2	NNE	1	f	43	97	2	-	-	10	10	450	1	*	ofdrf	cmofr	off	off				
4	Ross-on-Wye	1011.7	-10	NNE	2	m/f	45	97	4	5	-	10	10	700	1011.6	0	E	1	m	44	92	4	5	-	10	10	800	1	*	rfdrf	cmofr	om	om				
5	Hartland Point	1010.4	-8	SSE	2	c/r	49	85	8	5	6	-	7.8	9+	1700	1009.9	+2	W	3	c	51	85	8	8	-	9	9	1500	1	4	cir	cmofr	cbcc	circ			
	Bristol ...	1011.4	-8		0	F	47	97	1	-	-	10	10	150	1011.2	+2		0	f	46	97	2	-	-	10	10	150	1	*	crrff	cmofr	cfir	cmo				
	Portland Bill	1011.2	-12	SW	2	c	52	92	8	5	-	10	10	2500	1011.2	+4	WNW	2	c	51	92	8	5	-	10	10	2500	1	3	cpr	cmofr	c	cpr				
	Plymouth	1010.9	-6	SSW	2	20	53	85	6	1	2	-	7.8	10	800	1010.5	-2	SW	2	z	53	97	6	8	6	-	4.6	10	1500	1	2	cir	cmofr	c	cpr		
	The Lizard	1011.2	-4	SW	3	c	56	85	8	8	6	-	7.8	7.8	2500	1010.7	+2	SSW	3	c	53	97	8	8	2	-	9	10	1500	0	4	cbcc	cmofr	c	cpr		
	Soilly (St. Mary's)	1010.7	-8	WSW	2	c	55	85	8	8	-	9	9	1200	1009.7	-4	S	3	c	53	92	8	8	7	-	7.8	10	1200	1	3	c	cmofr	c	cpr			
	Guernsey																																				
6	Pembroke	1010.5	-10	SE'S	4	c/r	50	97	7	8	-	9+	9+	3000	1008.9	+6	SW'S	3	c	51	85	8	8	6	-	7.8	7.8	2500	1	3	cir	irc	irc	irc			
7	Holyhead (Valley)	1011.1	-2	E	2	c	50	65	8	5	-	7	Tr	9+	4000	1009.8	-2	ESE	1	fs	40	92	7	-	3	8	0	9	-	0	2	bjfb	cmofr	cbcc	cdrom		
	Chester (Sealand)	1012.4	-10	SE	2	20	45	85	6	5	-	10	10	1000	1011.5	0	SE	1	eft	43	97	3	5	2	-	7.8	10	3000	1	*	rfmme	cmofr	cmofr	cmofr			
8	Manchester	1012.7	-10		0	20	45	85	6	5	3	-	7.8	10	6000	1012.2	+4		0	m	43	97	4	-	3	6	0	9	-	1	*	fofc	cmofr	cmofr	cmofr		
10	Spurn Head	1013.2	-2	W'N	1	rr	43	97	4	-	2	-	10	10	2500	1012.0	-2	W'N	1	bc	42	97	6	1	-	2.3	2.3	4000	1	2	omrr	cmofr	bm	bm			
	Catterick	1012.5	-8		0	c/f	46	92	5	8	6	-	2.3	7.8	4500	1012.5	+8		0	cf	40	97	2	5	-	7.8	7.8	3800	0	*	fcmo	c	bcbfx	ofir			
	Tynemouth	1013.0	-4	W	3	m	45	75	4	-	4	-	0	2.3	-	1012.8	-2	W	3	z	44	85	5	5	-	10	10	1500	1	4	bem	cmofr	obcm	bcmoff			
11	St. Abbs Head	1012.0	-6	NW	2	c	43	85	7	5	7	-	7.8	9+	2500	1012.1	0	NW	2	c	43	92	7	5	2	-	7.8	10	2500	1	3	c	cmofr	cmofr	cmofr		
	Leuchars	1012.4	-2		0	c	44	85	7	5	-	7.8	7.8	3200	1011.9	0	WNW	1	z	37	97	6	5	-	2.3	2.3	3500	2	*	cir	cmofr	cmofr	cmofr				
12	Reufrow (Abbots L.)	1012.9	-6		0	F	30	92	0	-	-	-	10	10	450	1012.1	-2		0	F	27	97	0	-	-	10	10	450	3	*	bfxof	cmofr	ofe	ofmofr			
	Eskdalemuir	1011.8	-10		0	b	43	75	8	-	-	0	0	-	1012.3	0		0	b	35	85	8	5	-	Tr	Tr	2500	1	*	bfxb	cmofr	bcc	ccx				
	Point of Ayre	1012.0	-6	SE	1	bc	49	85	8	2	4	-	1	2.3	2000	1011.1	0	SSE	2	bc	45	85	8	4	-	1	2.3	2500	0	2	cparbc	cmofr	bccbc	cdcc			
13a	Tiree	1011.8	-4	SSE	1	b	49	75	9	1	-	-	1	1	3500	1010.1	-8	SSE	1	b	42	85	9	5	-	Tr	Tr	3500	0	3	b	cmofr	bcb	bcb			
13b	Stornoway	1012.3	-8	SE	2	bc	48	75	8	2	4	-	1	4.6	2500	1011.2	-4	E	4	c	46	92	8	5	4	3	4.6	7.8	2500	1	1	cparbc	cmofr	bcc	bcc		
15	Dalwhinnie	1013.4	-2	ESE	1	b	40	75	8	1	-	-	1	1	2500	1012.0	-2		0	b	27	75	9	2	-	1	1	2500	3	*	bc	cmofr	bcc	bcc			
	Aberdeen	1012.2	-2	NW	2	c	44	85	6	5	3	-	2.3	7.8	4100	1012.2	-2	NW	1	c	43	97	6	5	-	9	9	3600	1	2	czo	cmofr	cbcm	cirmo			
	Wick	1013.0	-2	ESE	2	c	45	92	7	2	7	-	4.6	7.8	1400	1012.6	-2	ESE	2	pr	44	97	6	8	7	-	4.6	9+	800	1	*	radofr	cmofr	cmofr	cmofr		
16	Sumburgh	1014.2	-2	ESE	1	c	45	85	8	5	7	-	7.8	9+	2500	1013.9	-2	ESE	1	c	43	92	8	8	7	-	7.8	9+	2500	1	2	bcc	cmofr	cmofr	cmofr		
17	Blacksod Point	1009.7	-14	SE	2	c	46	85	8	-	-	7	0	9	-	1006.3	-20	SE	3	c	45	85	8	-	1	-	0	10	-	0	4	c	cmofr	cmofr	cmofr		
18	Malin Head	1011.5	-2		0	c	46	85	8	5	-	7	2.3	7.8	4000	1009.2	-20	SW	2	bc	43	85	8														



Abridged observations of additional stations in the

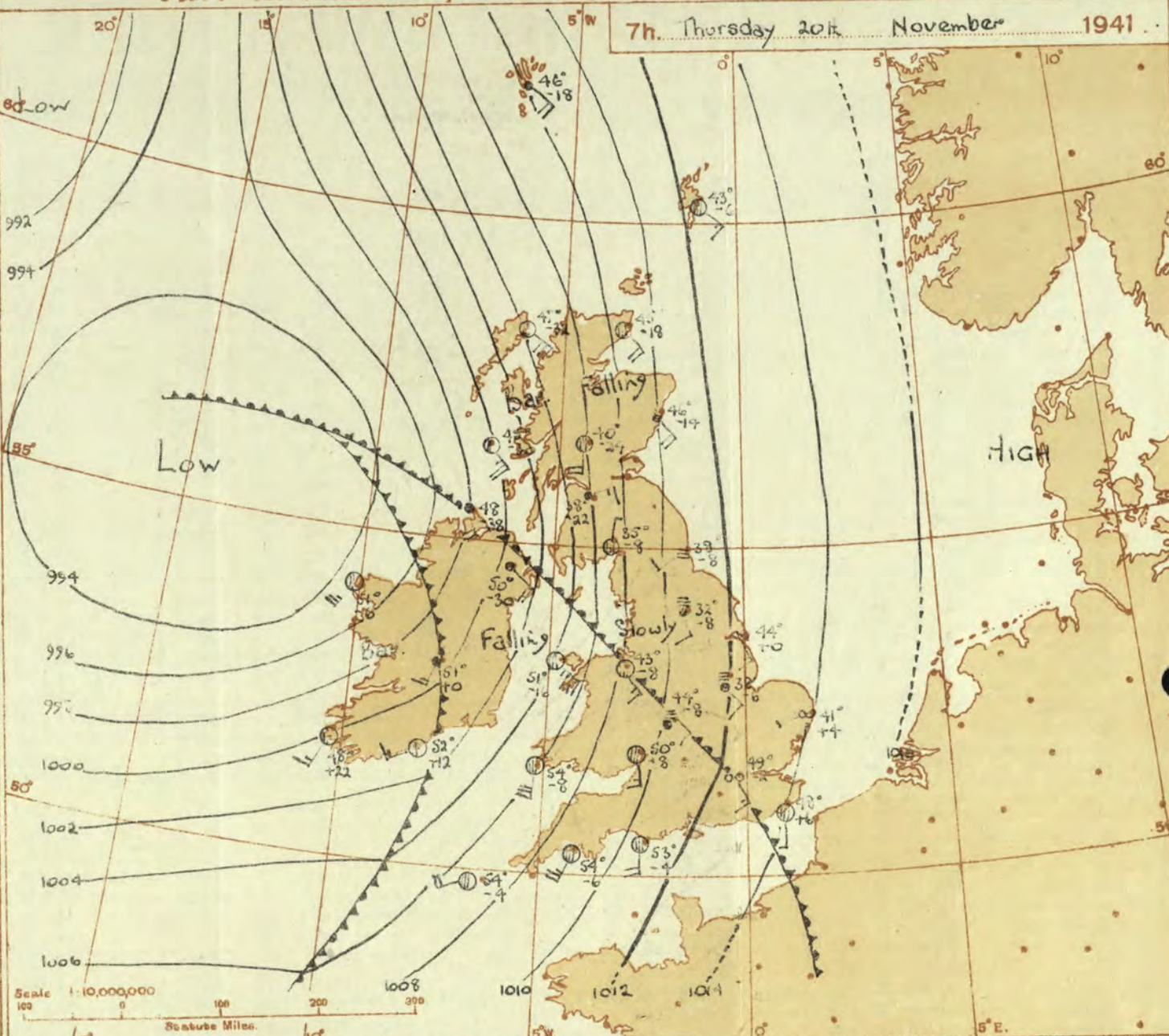
# AVIATION WEATHER CODE

13h. G.M.T. 17th November 18h. G.M.T.						01h. G.M.T. 20th November 07h. G.M.T.						
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN
10982	52656	09228	5-	51747	09427	5-	03758	11488	8-	02747	10627	
115				54	02944	12225	54	01954	12425	57	02844	12426
203	00952	12112					03	00820	12302			
206	02967	24227	5-	01754	30124	50	47453	00043	52	02755	14447	
210	02848	22228				00	00820	12140	57	02865	07327	
220			40	01753	14203				50	01746	14626	
230	00890	00001	04	00820	00011	5-	05664	14114	57	02764	10415	
245	02866	24167	5-	05555	30115	52	02745	00068	57	02745	14266	
260	05490	00000	50	45262	00042	5-	08458	00048	53	05654	03141	
273	00852	00013	50	08463	14224	57	05662	00410	5-	52655	43658	
279	05654	30125	50	08458	00011	00	43750	02240	02	62558	07368	
285	01744	26354	50	01852	32212				--	67309	10459	
288	05690	24115	00	47190	00040	00	45320	20140	57	45244	21148	
298	46109	00049	--	46109	00049	5-	02748	08348	5-	61748	45468	
301	05490	12143	--	46209	08149	--	46190	12249	62	64534	47568	
321	05654	00028	50	08462	16202	--	44009	00049	--	44209	16249	
299	05654	25216	5-	45343	00043	00	00490	24100				
292	05467	00047	07	43290	00045	--	57109	00049	--	57109	09159	
310	02638	05316							--	57109	26249	
314			40	47362	00042	--	44009	08149	--	57109	08169	
333	01962	08314	04	05620	08215	02	22690	08328	52	61656	14468	
334	03537	18128	--	04337	10128				--	64547	22228	
340	08456	12168	5-	08465	06255	5-	47328	10348	--	44309	13469	
136	61664	07168	5-	61668	04268	5-	45247	00068	5-	05548	13248	
336	16309	12449	--			--			--	67309	26349	
350			--	44209	32149	--	45309	09149	--	67209	12149	
368	61464	12227	52	51345	12168	52	45345	10268	5-	61548	43668	
379	67109	08169	--	46109	00049	--	46109	12269	--	67209	12269	
390	43328	11448	--	48009	00049	--	46009	06149	--	46009	12259	
382			--	48209	00049	5-	21318	00058	5-	64438	16228	
436	02746	24126							6-	81747	20487	
430	05655	22127	57	47365	00088	5-	45328	32158	57	22575	14268	
409	63646	17368	57	22644	14267	5-	05648	13468	52	22627	16468	

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
 ww, W = Present and past weather—See M.O. 252.  
 h, N<sub>h</sub> = Height and amount of low cloud—See M.O. 252.  
 N = Total amount of cloud—See M.O. 252.  
 C, C<sub>M</sub> = Form of low and medium cloud—See page 1.  
 V = Visibility. F = Force of wind—See page 1.  
 DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

## AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Thursday 20th November 1941



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

## Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)

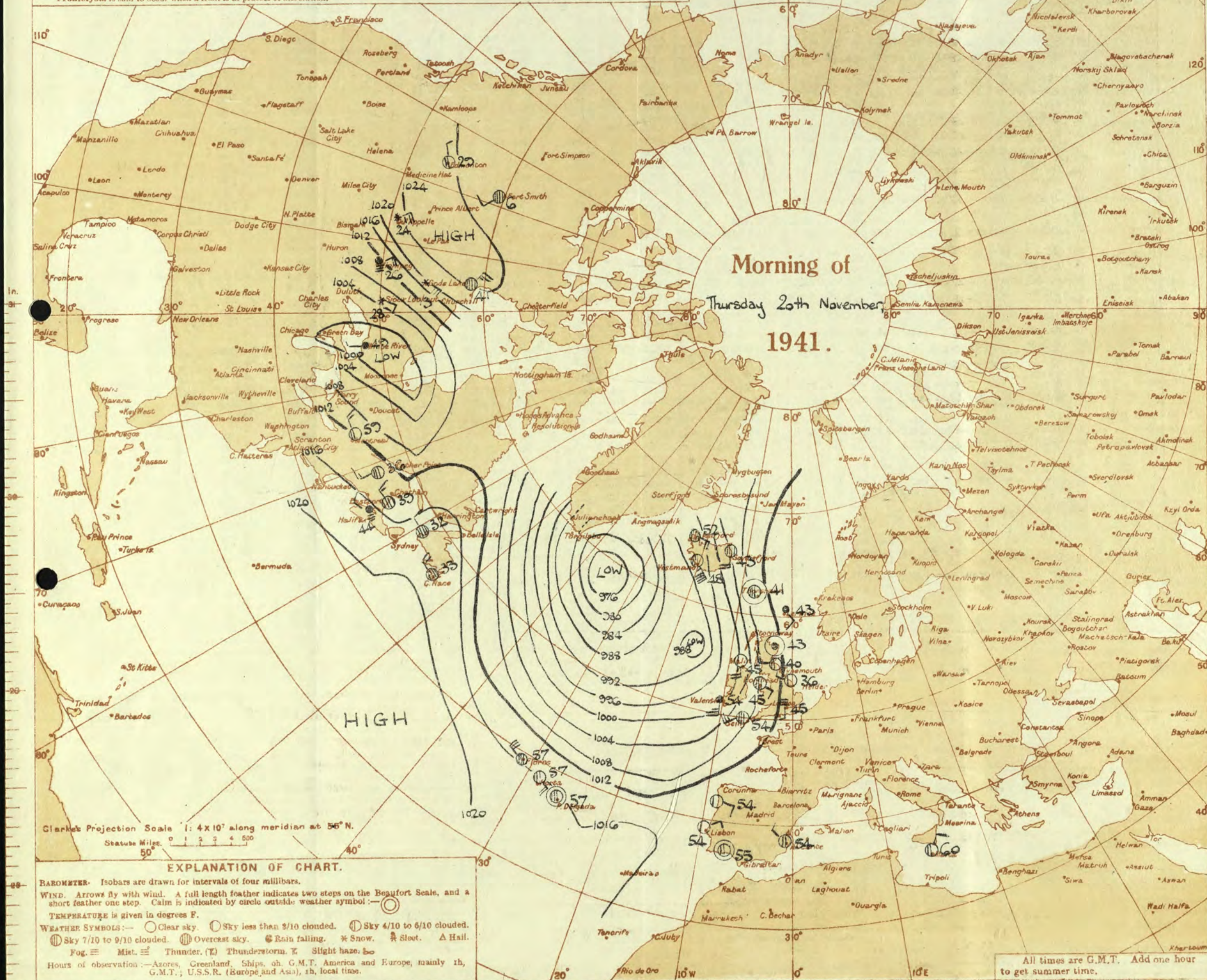
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

**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.





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 20th November 1941.

No. 29218

OBSERVATIONS at 1 hr. G.M.T. 20th November.....															OBSERVATIONS at 7 hr. G.M.T. 20th November.....															PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.			Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.			Barom. at M.S.L. (29)	Sea. 0-9 (30)	TEMPERATURE.			RAINFALL.		SUN- SHINE Hrs. (36)							
					Direc.	Force. 0-12 (4)					Low.	Med.	High (11)			Low 0-10 (12)	Total 0-10 (13)					Height of Base (feet) (14)	Direc.	Force 0-12 (18)			Low.	Med.	High (25)	Low 0-10 (26)	Total 0-10 (27)		Height of Base (feet) (28)	Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Day 7h-18h mm. (34)	Night 18h-7h mm. (35)	
1	London (Kew)	18	*	*	*	*	46	*	*	*	*	*	1012.0	-4	SE	1	2	48	92	5	5	10	10	2500	1	*	49	45	40	Tr	Tr	0.0							
	Croydon	217	1012.8	+8	S	1	of	45	97	3	5	10	10	3000	1012.3	-2	SSE	3	49	97	5	5	10	10	1000	1	*	52	45	43	Tr	0.3	0.1						
	S. Farnborough	226	1012.4	+2	SE's	2	d.f.	46	97	3	5	10	10	1300	1011.7	-6	SSE	3	48	97	5	5	7	7-8	3000	1	*	51	44	39	Tr	0.3	0.3						
	Boscombe Down	417	1012.2	-2	SE's	2	d.f.	47	97	4	5	10	10	2500	1011.6	-2	SSE	3	49	97	6	5	10	10	1000	1	*	49	45	41	0.1	0.3	0.0						
	Thorney Island	10	1012.5	0	ES	1	3/4	47	97	4	5	2	7-8	10	1300	1012.1	-2	SE	3	51	92	6	5	7	9	4000	1	*	52	44	41	Tr	2	*					
	Lynpne	346	1013.8	+6	—	0	bF	40	97	1	—	0	0	—	1014.3	+6	S	1	48	97	5	5	7	9	200	1	5.3	48	38	34	0.2	0.2	0.0						
	Manston	154	1013.2	+10	—	0	F	43	97	1	—	10	10	1150	1013.8	+4	SSE	2	47	97	4	5	7	7-8	10	5000	1	*	49	41	34	—	0.4	0.0					
2	Shoeburyness	11	1013.2	+6	—	0	F	43	97	1	—	10	10	1150	1013.6	0	SE	2	45	97	2	5	10	10	2000	1	*	49	40	36	Tr	Tr	0.1						
	Felixstowe	15	1012.3	+6	WSW	1	0	44	97	5	5	9	9	2500	1012.8	+2	SSE	1	45	92	5	5	10	10	5000	1	0	49	41	36	Tr	—	0.2						
	Gorleston	5	1013.1	0	NW'W	2	0	42	97	6	5	10	10	1500	1013.9	+4	WSW	1	41	97	6	5	3	4-6	9+	1	1	46	37	35	2	7	0.0						
	Mildenhall	19	1012.8	+6	SW's	1	m	41	97	4	5	10	10	300	1012.6	0	SE	3	44	97	4	5	10	10	300	1	*	46	41	38	0.4	Tr	0.0						
	Cranwell	240	1012.6	0	—	0	bF+	31	97	1	—	0	0	—	1011.3	-6	SE	2	38	97	1	5	10	10	1500	1	*	43	29	25	9	0.5	0.0						
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	1009.9	-8	SE	2	44	97	1	—	—	10	10	1150	1	*	43	38	37	2	0.3	0.0						
	Upper Heyford	408	1012.2	-2	—	0	F+	42	97	1	—	10	10	1150	1011.6	-2	SE	2	46	97	2	—	—	10	10	1150	1	*	44	41	41	1	0.2	*					
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	1009.1	-8	S	3	50	85	8	5	—	10	10	2000	1	*	43	43	43	1	0.1	0.0						
5	Hartland Point	299	1008.6	-12	SSE	4	C	50	85	7	5	9+	9+	2500	1007.0	0	SW	3	53	92	8	5	2	4-6	9+	1	4	51	49	47	1	0.0							
	Bristol	209	1011.5	-2	SW	4	0	53	92	7	5	9+	9+	2500	1009.7	0	SSE	4	51	85	6	5	7	4-6	9+	1	4	47	45	44	5	0.6	0.0						
	Portland Bill	32	1011.5	-2	SW	4	0	53	92	7	5	9+	9+	2500	1010.7	-4	S	4	53	92	7	5	2	10	10	2500	1	4	53	49	*	1	1	*					
	Plymouth	82	1010.0	-6	S	3	0	53	92	7	5	9+	9+	2000	1008.8	-6	SSW	5	54	97	7	5	2	8	10	1000	0	4	54	51	48	Tr	Tr	0.0					
	The Lizard	240	1009.3	-6	SSW	5	C	53	97	7	8	2	7-8	1500	1008.8	+2	SSW	6	54	97	7	8	6	7-8	9+	1	5	56	51	*	—	2	2.7						
	Scilly (St. Mary's)	163	1007.5	-10	SW's	5	C	54	97	7	8	2	7-8	9+	1200	1006.0	-4	SWW	4	54	97	7	8	7	7-8	10	1500	1	4	56	52	*	—	0.3	2.7				
	Guernsey	175	1007.5	-10	SW's	5	C	54	97	7	8	2	7-8	9+	1200	1006.0	-4	SWW	4	54	97	7	8	7	7-8	10	1500	1	4	56	52	*	—	0.3	2.7				
6	Pembroke	142	1007.5	-8	SE	5	C	53	92	6	8	9+	9+	2500	1005.1	-8	SW	6	54	97	7	8	1	9+	9+	1	4	52	45	*	0.1	0.3	0.0						
7	Holyhead (Valley)	26	1007.7	-12	ESE	2	0	45	92	6	2	10	10	4000	1003.5	-16	SE	7	51	85	6	5	10	10	4000	1	5	50	39	33	—	0.3	*						
	Chester (Sealand)	16	1010.5	-10	SSE	1	0	41	92	3	7	7	0	10	1008.2	-8	SSE	3	43	97	3	5	10	10	300	1	*	46	40	(35)	0.6	1	0.3						
8	Manchester	235	1011.5	-6	—	0	3/4	36	97	4	5	10	10	3500	1008.9	-12	SE	3	44	97	6	5	10	10	5000	1	*	46	35	29	0.5	0.6	*						
10	Spurn Head	29	1012.2	-2	NW	1	0	36	97	4	10	10	0	1012.2	0	SSE	3	44	85	6	1	6	9	9+	4000	1	2	44	34	*	3	—	0.0						
	Catterick	175	1012.3	-4	0	0	bF	30	97	1	—	0	0	—	1011.1	-8	SE	2	32	97	1	—	—	10	10	1500	1	*	47	28	22	—	—	0.3					
	Tynemouth	108	1012.6	-6	W	3	m	40	85	4	2	2-3	2-3	1500	1011.5	-8	SW	2	38	92	3	5	10	10	1500	1	3	45	36	34	—	—	*						
11	St. Abbs Head	280	1011.1	-8	NW	2	0	43	97	7	5	2	7-8	10	2500	1009.5	-4	S	2	39	97	7	5	4	7-8	9+	1	2	43	39	*	—	1	*					
	Leuchars	36	1010.8	-8	—	0	0	39	97	4	5	10	10	2200	1008.4	-12	—	0	41	97	4	5	10	10	2500	1	*	46	35	30	0.1	1	2.3						
12	Renfrew (Abbots L.)	19	1010.3	-10	W	1	0	31	97	0	10	10	10	1500	1006.9	-22	ENE	3	38	85	5	2	10	10	1200	1	*	32	26	23	—	—	0.0						
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	1008.2	-8	NE	1	0	35	85	8	5	10	10	1500	3	*	45	29	22	—	—	7.1						
	Point of Ayre	30	1008.7	-10	SSE	6	0	45	92	6	6	2	4-6	10	1500	1004.2	-18	SSE	6	45	97	6	6	2	4-6	10	800	1	5	56	44	*	Tr	1	2.1				
13A	Tiree	22	1006.5	-16	SE's	4	bC	48	92	8	8	2	2-3	3500	999.9	-30	SE	5	45	85	8	5	10	10	2500	0	5	49	42	*	*	—	6.0						
13B	Stornoway	80	1005.3	-10	SE	4	b	45	75	8	2	1	1	3500	1003.2	-32	SE	6	47	75	8	5	7	7-8	10	3500	1	3	48	44	*	0.6	—	2.7					
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	1007.1	-24	S	4	40	85	7	5	10	10	9+	9+	1	3	42	26	21	—	—	3.7						
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	1009.4	-14	SE's	4	46	92	6	6	2	7-8	10	900	1	3	45	42	21	—	—	0.1						
	Wick	119	1011.9	-2	SE	4	C	46	85	7	5	9+	9+	2000	1009.1	-18	SE	4	46	85	8	5	10	10	2500	1	*	46	44	42	1	1	*						
16	Sumburgh	30	1014.1	+2	ESE	1	C	44	85	7	5	7	7-8	10	1500	1012.9	-6	SE	3	43	85	8	5	7	7-8	10	1800	1	2	45	43	+1	—	Tr	0.0				
17	Blackod Point	18	999.1	-40	SSE	5	C	45	85	8	7	0	5	—	994.6	-6	SSW	5	51	75	8	5	10	10	1500	1	*	51	43	*	—	0.6	*						
18	Malrn Head	84	1004.5	-30	S'E	4	b	45	83	7	—	0	0	—	997.1	-38	S'E	4	48	85	6	5	10	10	1500	1	3	49	38	*	—	1	3.4						
	Aldergrove	268	1006.8	-22	ESE	4	0	45	85	6	7	0	10	—	1000.7	-36	SE	4	50	97	6	6	10	10	1500	1	*	43	36	31	Tr	1	0.3						
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	999.8	0	SSW</																							



THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
 Friday 21st November 194  
 No 29219

OBSERVATIONS at 13h. G.M.T. 20th November														OBSERVATIONS at 18h. G.M.T. 20th November														PAST 24 HOURS.							
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. m.	Cloud.				Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. m.	Cloud.				State of Ground. 0-6	Sea. 0-9	WEATHER.							
				Dirce.	Force.					Form.	Amount.	Height of Base. (feet)	Form.			Amount.	Height of Base. (feet)					Form.	Amount.	Height of Base. (feet)	7h.—18h. 20th			13h.—18h. 20th	18h.—to 21st 1h.	20th 21st					
																															Low.	Med.	High	Low	Total
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lympne Manston	1012.6 1012.7 1012.3 1011.8 1012.6 1015.2 1014.6	0 -2 -2 -2 0 -2 -2	SSW SSW S S S SSW S.E	2 3 3 3 3 2 3	z c/d c/r dodo c c z	52 53 53 53 52 52 51	85 85 85 92 92 85 92	6 7 5 7 7 7 6	5 2 3 - - 7 7	9 - 4 1.0 4.6 2.3 Tr	10 10 9 10 3 9 10	2500 4500 4000 800 4000 1800 1000	1012.9 1012.7 1012.0 1011.6 1012.5 1015.0 1014.7	+6 +4 +6 -2 0 +2 +2	SSE SE SSE SE SSE SSE SSE	3 3 3 3 3 3 3	z z z z z z z	51 50 50 50 52 50 49	92 92 92 85 92 92 92	8 6 6 6 7 6 6	5 5 5 5 5 5 5	2 2 2 2 2 2 2	10 10 10 10 10 10 10	800 2000 4000 300 1500 700 400	1 1 1 1 1 1 1	• • • • • • •	cmo cmo cmo cmo cmo cmo cmo	circa circa circa circa circa circa circa	cbea cmo cmo cmo cmo cmo cmo	becm cmo cmo cmo cmo cmo cmo				
2	Shoeburyness ... Felixstowe Gorleston Mildenhall Cranwell	1014.0 1013.5 1014.5 1013.0 1010.6	-4 0 -2 -4 -12	SSE S SSE S S	3 4 4 4 4	c z c/pr z F	50 49 49 52 47	85 92 92 85 97	7 6 8 5 3	- - - 7 -	0 0 0 4.6 1.0	9 10 9 2500 1500	1014.5 1013.3 1014.0 1012.6 1010.5	+6 +4 +2 +4 +4	SSE SSE S SSE S	2 3 3 2 3	z z z z z	49 48 49 61 49	92 92 92 85 97	6 6 5 5 4	5 5 5 5 5	2 3 2 2 3	10 10 10 9 9	1500 7200 1500 6000 2000	1 1 1 1 1	• • • • •	cmo cmo cmo cmo cmo	circa cmo cmo cmo cmo	cbea cmo cmo cmo cmo	becm cmo cmo cmo cmo					
3	Birmingham Upper Heyford	1009.9 1011.1	-2 -6	S S	3 2	z z	50 51	97 97	5 5	- 2	10 7.8	10 800	1010.0 1011.1	+2 +4	S S	2 2	z z	51 51	92 92	5 5	- 2	10 10	800 800	1 1	• •	cmo cmo	circa cmo	cbea cmo	becm cmo						
4	Ross-on-Wye	1009.0	-4	S	4	c	53	92	7	5	3	2	7.8	9	2500	1009.0	0	S	4	z	53	92	6	5	2	10	2000	1	•	cmo	circa	cbea	becm		
5	Hardland Point Bristol ... Portland Bill Plymouth The Lizard Scilly (St. Mary's) Guernsey	1008.0 1009.8 1011.2 1009.0 1009.0 1008.0	+4 0 0 0 -2 +4	WSW S.W S SSW SW SW.W	3 3 4 5 4 3	z z r r r c	53 54 54 55 54 57	97 92 92 97 97 92	6 7 5 6 3 7	- 7 5 2 - 3	10 7.8 10 9 10 4.6	600 1000 2500 800 800 1200	1007.6 1009.6 1010.7 1008.5 1008.0 1005.3	0 -2 -4 -2 -2 -18	SSE S S S S S	3 3 3 4 4 4	z z z z z z	53 54 53 54 53 53	97 85 92 97 97 97	8 6 7 6 8 6	5 5 5 5 5 5	2 3 3 4 4 4	10 10 10 10 10 10	800 1500 1200 2500 800 800	1 1 1 1 1 1	• • • • • •	cmo cmo cmo cmo cmo cmo	circa cmo cmo cmo cmo cmo	cbea cmo cmo cmo cmo cmo	becm cmo cmo cmo cmo cmo					
6	Pembroke	1007.6	+12	SW	4	z	55	97	8	2	4	-	2.3	4.6	3000	1006.7	-2	SSE	3	z	53	97	7	8	6	-	4-6	7.8	3000	1	2	cmo	circa	cbea	becm
7	Holyhead (Valley)	1006.2	+10	SW	5	bc	54	92	7	6	-	-	4.6	4.6	1000	1006.4	+6	E	2	z	47	97	7	1	3	-	Tr	1	2500	1	3	cmo	circa	cbea	becm
8	Chester (Sealand)	1006.8	-10	SSE	3	z	53	85	6	5	3	-	9	9	6000	1006.4	+10	SSE	2	z	50	97	4	5	4	-	2-3	2	2500	1	•	cmo	circa	cbea	becm
9	Manchester	1008.4	-4	SSE	4	z	50	92	5	5	3	-	4.6	7.8	3500	1008.7	+8	S	1	z	51	97	5	4	•	-	8	9	2000	1	•	cmo	circa	cbea	becm
10	Spurn Head Catterick Tynemouth	1011.2 1009.3 1009.5	-10 -18 -10	SSE S SSW	4 3 4	z F r	46 39 43	97 97 97	6 1 3	- - 2	10 10 10	2500 1500 1200	1011.0 1008.4 1008.7	+2 +8 +14	SSE S SSW	4 3 3	z z z	47 45 46	97 97 97	6 1 4	- - 2	10 10 10	1500 1500 1500	1 1 1	2 3 3	cmo cmo cmo	circa cmo cmo	cbea cmo cmo	becm cmo cmo						
11	St. Abbs Head Leuchars	1006.2 1004.7	-8 -22	S SE	4 4	c/r c	42 44	92 97	6 5	7 5	- -	7.8 9	2500 900	1007.0 1006.3	+14 +18	SW SW	4 2	z z	44 45	97 97	6 5	- -	2-3 1	2500 1800	1 1	2 •	cmo cmo	circa cmo	cbea cmo	becm cmo					
12	Rentrow (Abbots L.) Eakdalemuir Point of Ayre	1003.7 1004.6 1004.2	-10 -20 0	NE SSE WSW	2 4 4	r r c/d	44 44 53	97 92 92	6 6 9	2 7 7	9 7.8 4.6	900 450 2000	1003.9 1007.1 1006.5	+18 +12 +4	SSE SW SW.S	2 3 2	z z z	45 44 43	92 97 92	5 5 8	- - 4	1 7.8 Tr	1800 2200 1000	1 1 1	• • •	cmo cmo cmo	circa cmo cmo	cbea cmo cmo	becm cmo cmo						
13A	Tirree	998.2	+6	SW.S	7	c	50	85	8	8	-	7.8	7.8	800	1002.0	+16	SW.S	4	z	48	85	8	8	-	-	2-3	2	2500	1	4	cmo	circa	cbea	becm	
13B	Stornoway	998.9	-12	SSE	7	PR	49	85	8	5	7	-	7.8	10	1500	998.3	+14	SSW	4	z	46	85	7	7	-	-	7-8	10	2000	1	2	cmo	circa	cbea	becm
14	Dalwhinnie	1002.5	-20	SSE	4	z	39	92	5	5	-	9	9	1500	1002.5	+12	SSE	3	z	42	85	7	8	7	-	4-6	4	1500	1	3	cmo	circa	cbea	becm	
15	Aberdeen	1006.7	-20	SSE	4	z	47	75	6	9	7	-	7.8	9	1300	1006.2	+12	SW	3	z	47	97	6	6	-	-	10	10	800	1	•	cmo	circa	cbea	becm
16	Wick	1005.1	-22	SE	5	c	47	75	8	5	7	-	7.8	9	1000	1003.5	-2	S	4	z	47	92	8	5	3	-	2-3	4	3000	1	•	cmo	circa	cbea	becm
16	Sumburgh	1008.8	-32	SE.E	6	c	47	85	8	8	7	-	9	9	1500	1006.3	-14	SE	6	z	46	85	6	6	-	-	10	10	1200	1	5	cmo	circa	cbea	becm
17	Blackad Point.	1000.3	+26	SW	4	bc	49	75	8	2	6	-	2.3	4.6	1500	1000.3	-4	S	3	z	48	85	8	4	-	-	2-3	2	2500	0	4	cmo	circa	cbea	becm
18	Malin Head Aldergrove	999.9 1002.6	+22 +18	S SW.S	4 2	c c	52 51	75 75	8 8	4 8	- -	2.3 7.8	4.6 2500	1002.5 1005.2	+6 +10	S SSE	2 1	z z	46 43	75 85	8 5	- 4	0 Tr	2-3 1	- 4000	- 1	3 •	cmo cmo	circa cmo	cbea cmo	becm cmo				
19	Birr Castle	1003.7	+12	S	2	bc	54	65	8	4	-	4.6	4.6	2500	1003.2	-6	S	1	z	46	85	8	5	-	-	2-3	2	4000	1	1	cmo	circa	cbea	becm	
20	Valentia Obey. † Roches Point	1003.6 1004.6	+6 +4	S.W SSW	3 3	b bc	54 55	75 85	9 8	1 2	- -	Tr Tr	2500 2500	999.0 1002.7	-34 -18	SSE SSE	1 3	z z	50 52	75 85	9 8	5 3	- 7	1 5	- 6	2-3 2-3	2 7	2500 1500	1 1	3 5	cmo cmo	circa cmo	cbea cmo	becm cmo	

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

b, blue sky (not more than a quarter covered with cloud).  
bc, sky partly cloudy (one half covered). c, generally cloudy.  
d, drizzle. e, wet air. g, gloom.  
f, fog, visibility 220-1100 yds.  
F, thick fog „ less than 220 yds.  
fs, low fog over sea (coast station).  
fg, low fog over land (inland station).  
m, mist, visibility 1100-2200 yds.  
b, hail. i, intermittent.  
jf, fog at a distance, but not at station.  
jp, precipitation within sight of station.  
ks, storm of drifting snow.  
k/s, slight storm of drifting snow (generally low).  
k/S, heavy storm of drifting snow (generally low).  
s/k, slight storm of drifting snow (generally high).  
S/k, heavy storm of drifting snow (generally high).  
KQ, line squall. l, lightning.  
o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.  
rs, sleet. t, thunder.  
u, ugly, threatening sky.  
v, unusual visibility. w, dew.  
x, hoar frost. y, dry air.  
z, dust haze: the turbid atmosphere  
of dry weather.  
h(r), "hail" or "rain and hail."  
Capital letters indicate intensity;  
suffix o indicates slight; repetition  
of letters indicates continuity: thus  
R, heavy rain. r<sub>o</sub>, 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 exist-  
ing weather from preceding con-  
ditions thus:—bc/r, fair weather  
after rain; —, has decreased;  
+, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

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

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

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

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

‡ Sea disturbance reported from Dungenees.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMN 29 — STATE OF GROUND

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., but ground frozen.
2 ..	" flooded.	9 ..	" covered with snow greater than 6 ins. deep.
3 ..	" frozen hard and dry.	10 ..	Fresh snow has fallen in the mountains.
4 ..	" partly covered with snow or hail.		
5 ..	" covered with ice or glazed frost.		
6 ..	" covered with thawing snow.		

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

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



Abridged observations of additional stations in the

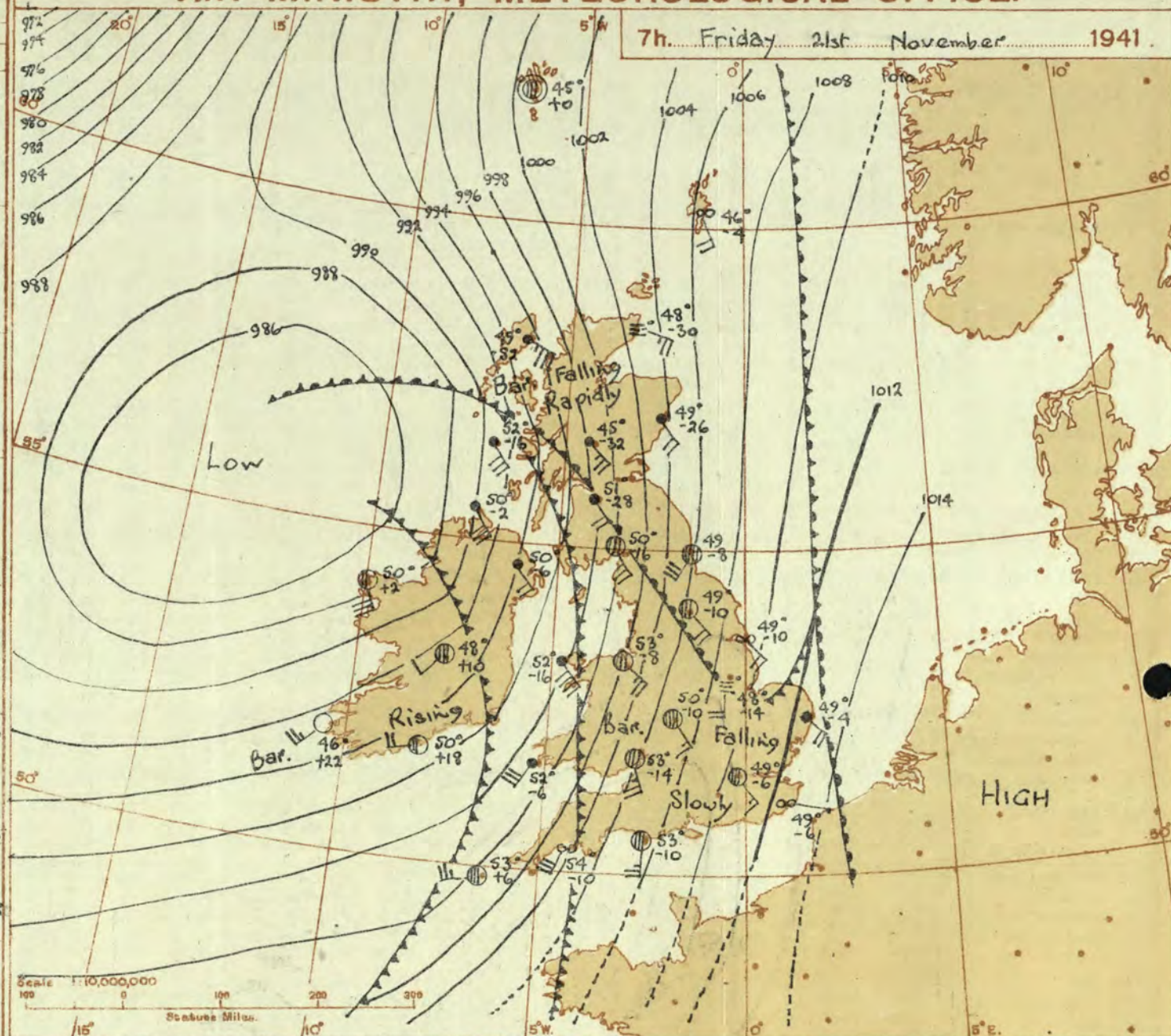
# AVIATION WEATHER CODE

13h. G.M.T. 21st Nov. 1941							01h. G.M.T. 22nd Nov. 1941							07h. G.M.T. 22nd Nov. 1941						
III	C <sub>1</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>2</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>3</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>4</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>5</sub>	wwVhN <sub>h</sub>	DDFWN					
109	57	02856	11627	62	22646	46668	5-	01752	15412	5-	03748	44628								
115				57	81734	16486	54	01851	18413	52	81844	12687								
203	6-	64838	08528	6-	64838	08568	60	02945	12465											
206	57	61866	10367	5-	22854	22364	5+	01754	16313	52	02755	14528								
210				50	00762	14212	50	01883	21113	5-	52638	44558								
220	50	22845	19565																	
230	57	62755	10367	40	00851	17211	50	02764	10217	62	63645	08368								
245	62	64547	47568	50	08433	18363	50	43243	20043	5-	05537	14447								
260	57	02766	10267	00	05630	18200	75	05662	06537	67	05655	08368								
278	84	00852	20362	00	00630	18200	52	62646	45568	5-	58629	45668								
279	62	54426	14458	06	08490	18151	02	05630	08317	52	61665	43567								
285	--	67103	08463	23	45234	08464				5-	05638	12468								
288	57	61845	17368	02	45338	18158	5-	08438	49328	53	05643	47416								
305	83	11854	20214	50	00851	10212	5-	61648	08668	5-	22745	12465								
301	52	05556	48568	00	47130	14140	50	05534	76444	52	05646	46828								
321	57	61445	14367	57	05565	16327	5-	05538	48328	5-	05638	48428								
299	5-	08438	18428	52	05538	18228	50	05644	18324	5-	03648	14428								
292	02	62438	1-348	5-	47348	14268	5-	05548	12248	5-	05548	46528								
310	--	46109	16249	--	67103	16440				--	57103	16440								
314	62	22425	16168	5-	08448	16228	5-	08448	16328	5-	05538	14458								
333	53	22637	19567	54	08421	16124	5-	22757	12667	5-	63648	47668								
334	--	64537	22168	--	02435	00016				--	64547	24468								
340	53	05643	16465	5-	61634	02067	5-	21528	12468	5-	52648	15458								
136	57	61564	14367	57	05674	16327	5-	05625	15365	53	05527	15427								
336	52	02742	16428	52	02753	16328				62	64633	20468								
350	57	05664	16427	52	05546	16328	5-	05538	18418	63	05535	47426								
368	57	02755	16367	57	02645	19388	5-	05637	12458	5-	05645	16568								
379	62	22627	16368	5-	21518	16368	5-	53418	16448	5-	05628	16458								
390	07	22490	14268	57	43366	14228	5-	08437	14347	57	05525	14327								
382	52	02747	15328	62	52647	15358	5-	05538	15428	57	05644	12424								
436	81	02756	18328							57	02225	16427								
430	57	21645	16268	5-	63668	12368	5-	05648	15368											
400	52	61727	19368	6-	54618	16368	6-	21648	16758	5-	66528	42768								

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
 ww, W = Present and past weather—See M.O. 252.  
 h, N<sub>h</sub> = Height and amount of low cloud—See M.O. 252.  
 N = Total amount of cloud—See M.O. 252.  
 C<sub>1</sub>, C<sub>2</sub> = Form of low and medium cloud—See page 1.  
 V = Visibility—See page 1.  
 DD = Direction of wind (E = E, S = S, W = W, N = N).

## AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Friday 21st November 1941.



### DISTRICTS.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Friday 21st November 1941

1 S.E. England	Fresh Southerly winds; mainly cloudy with occasional slight rain; rather mild.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Strong Southerly winds with gale locally, moderating temporarily but probably freshening again later; dull and rainy at first, then some bright intervals; renewed rain probable later; rather mild.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	As 0-4.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	As 5-8.
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	Moderate or fresh S.W. winds backing Southerly later and increasing to strong to gale; showers and bright intervals at first; rain later; rather mild.

BAROMETER. Isobars are drawn for intervals of two millibars. WIND, WEATHER SYMBOLS. For explanation see opposite page. SEA DISTURBANCE. Rough. High.

BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

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.

### GENERAL INFERENCE.

A depression off N.W. Ireland is moving N.N.E. and another is expected to develop to the N.E. of the Azores and move rather rapidly northeastwards. It will be rather mild and unsettled generally with some rain or showers in all districts.

### FURTHER OUTLOOK.

Unsettled conditions continuing.

Forecasts issued at 1030 G.M.T.

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

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

4389/4120. No. 0176 D 2034. 6p. 340. 9100/9/41



# 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 at the foot of page 2.)

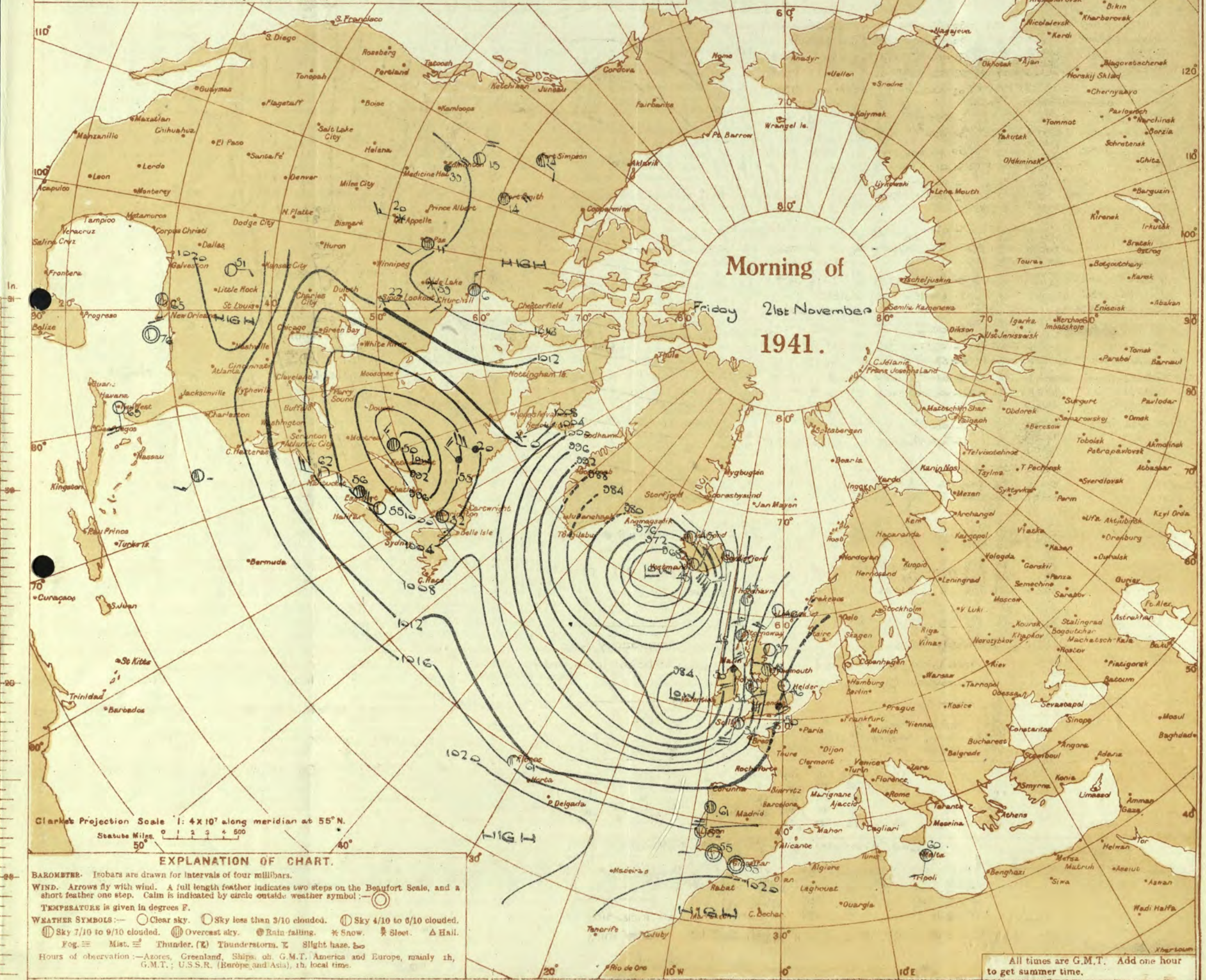
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

**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.





THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Friday 21st November 1941  
No 20219

[illegible]



AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
Saturday 22nd November 1941.  
No. 29220

OBSERVATIONS at 13h. G.M.T. 21st November														OBSERVATIONS at 18h. G.M.T. 21st November														PAST 24 HOURS.								
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.				Barom. M.S.L. (15)	Change in 3 hours. (16)	Wind.		Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.				State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.										
				Dir. (3)	Force. 0-12 (4)				Form. (9)	Med. (10)	High (11)	Low (12)			Total 0-10 (13)	Height of Base (feet) (14)				Dir. (17)	Force 0-12 (18)	Weather. (19)	Form. (23)			Med. (24)	High (25)	Low 0-10 (26)	Total 0-10 (27)	Height of Base (feet) (28)	7h.—13h. 21st..... (37)	13h.—18h. 21st..... (38)	18h. 21st to 1h. 22nd. (39)	1h.—7h. 22nd..... (40)		
1	London (Kew)...	1009.3	-4	W/S	4	52	92	6	5	2	-	9	10	1500	1011.0	+16	S/W	2	z	50	97	6	5	-	Tr	4.6	2500	1	*	bcc,ldo	rcbcmo	bcbmw	bccmw			
	Croydon ...	1009.8	-6	S/E	4	52	92	6	5	-	-	10	10	1600	1010.8	+8	SSW	2	m	51	92	4	5	-	-	4.6	4.6	1000	1	*	c	cmldo	bcm	bcm		
	S. Farnborough	1008.8	-6	S	3	52	92	6	5	-	-	10	10	600	1010.7	+14	SSW	3	z	50	92	6	5	-	8	2.3	4.6	1000	1	*	bccmo	cdobcm	bcm	bcm		
	Boscombe Down	1007.5	-6	S/E	5	52	97	4	6	2	-	9	10	100	1010.2	+18	S/W	3	b	46	92	7	5	-	Tr	Tr	1500	1	*	cirrm	cirbc	bcm	bcm			
	Thorney Island	1009.0	-8	S/W	3	52	92	6	5	-	-	10	10	1500	1010.9	+18	S/W	2	z	51	92	6	5	-	8	Tr	4.6	4000	1	*	cbrmo	crrr	bcbmw	bcm		
	Lympe	1012.5	-6	SSE	2	50	97	4	5	-	-	10	10	100	1012.9	+8	S	2	ir	52	97	4	5	-	7	7.8	97	200	1	*	qffm	ombr	cmo	bcc		
	Manston	1011.2	-14	SSE	3	52	92	6	5	-	-	10	10	700	1012.4	+6	S/W	3	dd	53	92	5	5	-	-	10	10	1200	1	*	cmo	cirrm	cdobcm	bcbmw		
2	Shoeburyness	1011.4	-6	S/E	4	51	92	6	5	-	-	10	10	450	1012.0	+10	SSW	2	ro	51	92	5	-	2	-	10	10	2800	1	*	cbcmo	cdobcm	orgom	om		
	Felixstowe	1010.9	-10	SSE	4	49	97	3	-	-	-	10	10	-	-	+6	S/W	3	o/pr	49	97	5	-	-	-	10	10	2000	1	2	cmo	cdobcm	prbm	om		
	Gorleston	1012.2	-10	SSE	4	49	85	6	5	3	-	2.3	4.6	2000	1011.6	0	S/E	2	d	47	97	4	5	-	-	10	10	1500	1	5	cirbcm	bcdm	prbm	bcbmw		
	Mildenhall	1009.7	-10	SSE	4	53	85	6	5	-	-	97	97	400	1010.3	+8	S	3	pr	53	85	6	8	6	-	4.6	4.6	2000	1	*	cmo	cmo	bcbmw	ofcm		
	Cranwell	1007.3	-10	S	5	52	85	6	5	-	-	10	10	1000	1008.8	+16	S	4	b/pr	49	92	6	5	-	-	Tr	Tr	3000	1	*	cmo	cdobcm	bcm	om		
3	Birmingham	1006.2	-4	S	4	51	92	6	6	-	-	10	10	450	1008.8	+16	S	2	b	48	92	6	-	-	0	0	-	-	-	1	*	cir	cdobcm	b	bpr	
4	Upper Heyford	1007.0	-4	S	3	52	85	5	5	-	-	10	10	600	1009.1	+18	SSW	2	z	49	92	6	5	-	-	2.3	2.3	2200	1	*	cmo	cdobcm	b	bpr		
	Ross-on-Wye	1005.0	-4	SW	4	51	92	6	6	2	-	97	10	1500	1008.6	+26	SW	2	b	47	85	7	7	-	-	Tr	Tr	3000	1	*	cdobcm	rrbc	b	bpr		
5	Hartland Point	1003.6	+16	W	4	52	85	8	2	4	-	2.3	2.3	1500	1006.5	+20	S	4	bc	51	75	8	1	-	-	2.3	2.3	2000	1	3	rrrbc	c	bcc	bcc		
	Bristol ...	1005.6	0	SSW	3	53	92	7	6	2	-	2.3	10	800	1008.9	+20	SSW	3	b	49	85	7	8	-	-	1	1	1500	1	*	rrrbc	cdobcm	bcc	bcc		
	Portland Bill	1006.7	-4	SSW	4	52	92	7	5	-	-	10	10	2500	1009.3	+12	W	4	bc	54	92	8	2	-	-	4.6	4.6	4000	1	4	crr	cdobcm	bcc	bcc		
	Plymouth	1005.3	+10	SW	5	55	75	8	2	-	-	2.3	2.3	1500	1008.3	+16	SW	4	bc	53	85	8	2	-	-	4.6	4.6	2500	1	3	cirbcm	cdobcm	bcc	bcc		
	The Lizard	1005.9	+16	SW	5	56	75	8	8	6	-	4.6	4.6	2500	1008.0	+8	SSW	5	bc	53	85	8	4	-	-	4.6	4.6	2500	1	4	crrbc	bc	bcc	bcc		
	St. Mary's	1004.5	+22	WSW	4	54	65	8	8	4	3	4.6	4.6	1500	1005.2	+2	SSW	4	pr	53	85	8	8	4	-	-	7.8	97	1500	1	4	bcc	bcc	bcc	bcc	
	Guernsey	1002.4	+6	SW	6	53	92	7	8	2	-	4.6	10	1500	1005.9	+22	SSW	5	bc	52	85	8	2	4	-	-	2.3	2.3	2500	1	3	crrbc	cdobcm	bcc	bcc	
6	Pembroke	1002.4	+6	SW	6	53	92	7	8	2	-	4.6	10	1500	1005.9	+22	SSW	5	bc	52	85	8	2	4	-	-	2.3	2.3	2500	1	3	crrbc	cdobcm	bcc	bcc	
7	Holyhead (Valley)	1000.6	+14	SW/S	6	52	75	8	8	2	3	4.6	9	1000	1004.2	+22	SSW	5	bc	50	85	8	3	-	-	2.3	2.3	1500	1	5	crrbc	cdobcm	bcc	bcc		
	Chester (Sealand)	1002.8	+4	S/E	3	51	92	6	6	-	-	9	10	600	1006.6	+28	SSE	3	z	47	92	5	-	-	-	0	0	-	-	-	1	*	crrbc	cdobcm	bcc	bcc
8	Manchester	1003.2	-8	SSE	6	53	85	6	9	-	-	7.8	10	1500	1006.9	+20	S/E	3	bc	48	85	8	4	-	-	2.3	2.3	4000	1	*	crrbc	cdobcm	bcc	bcc		
10	Spurn Head	1007.7	-16	SSE	4	48	92	7	4	6	2	4.6	4.6	2500	1008.4	+6	SSE	4	ro	48	97	6	5	2	-	7.8	10	1500	1	4	bc	cdobcm	bcc	bcc		
	Catterick	1003.6	-10	S/E	4	51	97	6	5	7	-	4.6	10	700	1005.4	+2	S/E	2	z	47	92	5	8	-	-	Tr	Tr	2500	1	*	cdobcm	cdobcm	bcc	bcc		
	Tynemouth	1003.8	-12	SSE	6	51	85	6	8	3	-	4.6	7.8	2400	1005.4	+28	SSW	5	c/pr	49	85	6	8	-	-	7.8	7.8	1500	1	4	bc	cdobcm	bcc	bcc		
11	St. Abbs Head	999.8	-12	SE	6	51	92	6	5	2	-	7.8	10	1500	1002.6	+12	S	4	c	48	92	7	5	2	-	7.8	10	1500	1	3	cdobcm	cdobcm	bcc	bcc		
	Leuchars	1000.3	-2	SSE	5	50	97	6	5	-	-	10	10	1500	1000.9	+22	S	3	c/r	47	92	8	5	2	-	7.8	9	2070	2	*	cdobcm	cdobcm	bcc	bcc		
12	Reufrow (Abbots L.)	996.1	+2	SSE	3	51	85	6	5	2	-	9	10	2500	1002.0	+30	S/W	4	z	48	75	6	5	-	-	1	1	1500	1	*	cdobcm	cdobcm	bcc	bcc		
	Esdaletur	1000.7	-2	S/W	4	47	97	6	6	2	-	7.8	10	800	1003.4	+22	SSW	3	ir	45	92	6	6	-	-	9	9	800	1	*	crrbc	cdobcm	bcc	bcc		
	Point of Ayre	999.3	0	SSW	4	50	92	7	9	2	-	2.3	10	1000	1003.4	+30	SW	4	b	45	85	8	-	-	-	0	0	-	-	-	1	3	crrbc	cdobcm	bcc	bcc
13A	Tiree	992.8	+10	SSW	6	50	75	7	5	7	-	7.8	9	1800	996.2	+18	SW/S	5	bc	49	85	8	8	-	-	2.3	2.3	2500	0	6	c	cdobcm	bcc	bcc		
13B	Stornoway	991.3	-12	SSE	6	52	85	8	5	7	9	1.6	97	2000	992.4	+6	S	7	c	50	75	8	5	7	-	7.8	10	2000	1	5	crr	cdobcm	bcc	bcc		
15	Dalwhinnie	997.0	0	SSE	4	47	85	5	5	2	-	4.6	10	1600	1000.3	+14	SSE	4	bc	43	85	7	8	-	-	4.6	4.6	2500	1	*	crr	cdobcm	bcc	bcc		
	Aberdeen	1000.6	-20	SSE	5	50	97	6	6	-	-	10	10	800	1002.3	+16	S/W	3	ro	49	92	5	6	-	-	10	10	700	1	4	cdobcm	cdobcm	bcc	bcc		
	Wick	998.0	-10	SE/S	6	50	85	6	5	2	-	9	10	300	998.5	+10	SSE	6	ro	49	92	6	5	-	-	10	10	1200	1	*	cdobcm	cdobcm	bcc	bcc		
16	Sumburgh	1004.3	-10	SE/S	6	48	92	5	6	-	-	10	10	500	1002.6	-10	SE	7	o/d	48	92	6	6	-	-	10	10	500	1	5	cdobcm	cdobcm	bcc	bcc		
17	Blacksod Point	991.7	+28	SSW	6	52	65	8	9	-	-	7.8	7.8	2500	996.2	+24	SSE	4	b/pr	49	75	7	9	-	-	4.6	4.6	1500	1	*	crr	cdobcm	bcc	bcc		
18</																																				

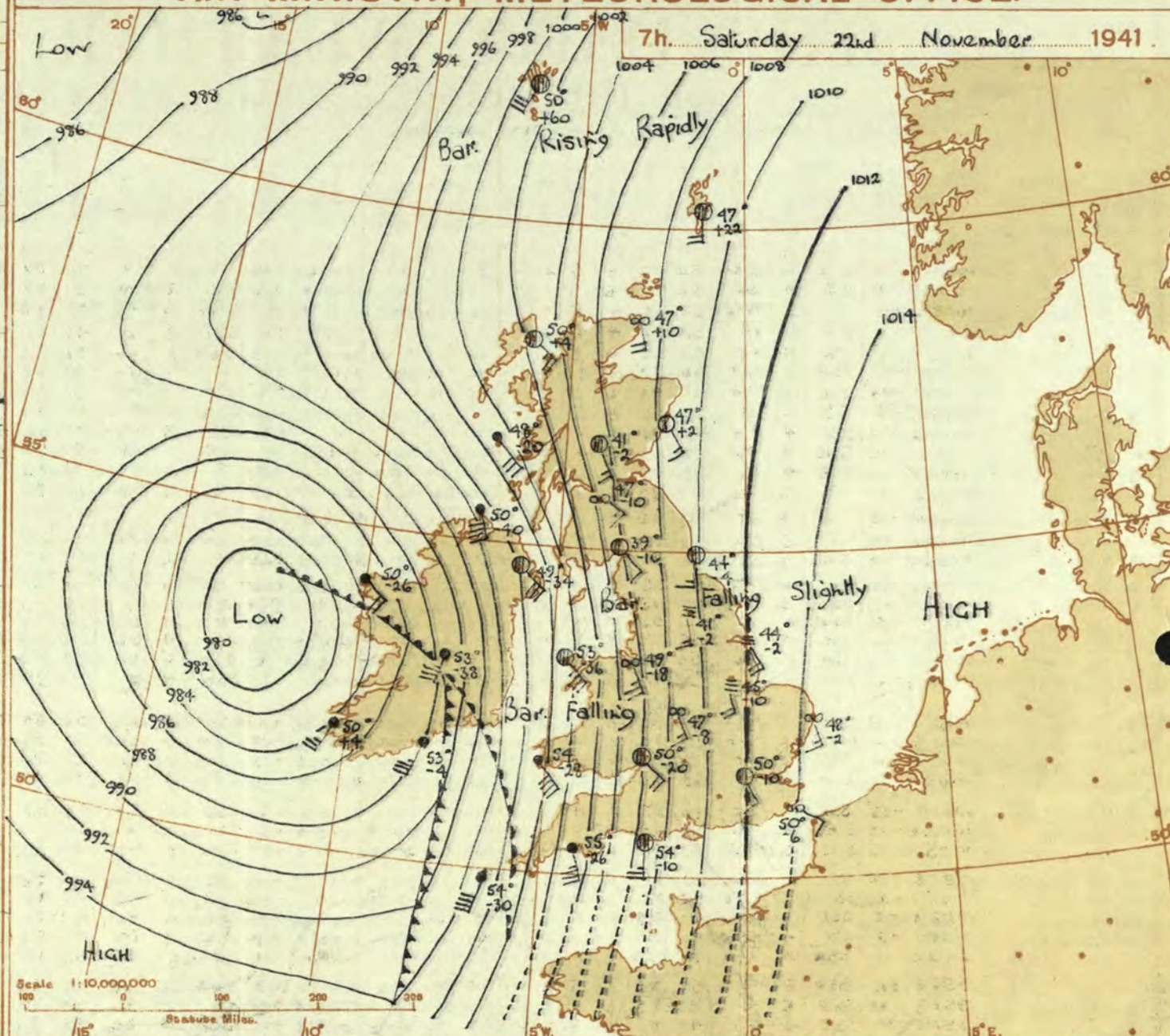


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 21st November								13h. G.M.T.				01h. G.M.T. 22nd November								07h. G.M.T.			
III	C <sub>u</sub>	ww	VhN <sub>h</sub>	DDFWN	C <sub>u</sub>	ww	VhN <sub>h</sub>	DDFWN	C <sub>u</sub>	C <sub>u</sub>	ww	VhN <sub>h</sub>	DDFWN	C <sub>u</sub>	C <sub>u</sub>	ww	VhN <sub>h</sub>	DDFWN					
109					G	02508	46668	00	00730		47410	07	01700			01700		12414					
115	52	10834	16587		51	02844	16327	54	01844		16485	51	02844			02844		12427					
203					5	02048	12628	50	00951		12721												
206	57	02955	16368		52	02853	22260	00	00700		20120	52	02755			14328							
210	57	02645	18368									57	02863			00328							
220	83	01854	16515		50	01654	23384					62	04430			15508							
230	62	22844	17268		80	00843	18013	50	00861		16101	57	02857			10218							
245	5	22628	15668		5	22757	16368	00	00890		18220	57	05563			14414							
260					80	00852	18362	00	00700		20300	57	02763			08316							
270	57	22623	13368		00	00890	20310	00	00890		10300	52	02745			44628							
279	62	62634	16468		00	00890	17310	00	00700		12200	87	02761			13403							
285	63	63638	12568		G	22635	24805					57	05100			08550							
288	53	02743	47525		5	22654	17364	00	47390		18140	53	01803			20144							
301	53	01843	47413		30	00851	13381	07	02790		12418	62	04645			12608							
301	6	64538	50468		00	00840	17360	00	00850		10200	57	05543			12610							
321					07	22630	15264	--	46109		14149	5	42438			12358							
209	50	05645	14515		54	25548	4588	5	08448		0028	--	46000			18340							
202	57	05666	45427		50	05653	14263	00	46030		9149	5	572-8			10358							
310	--	02638	16658		--	48109	16549					--	46109			16449							
314	5	05558	16428		50	08461	18161	00	08430		16100	7	08448			12258							
333	27	25654	11466		30	01842	16212	5	01863		40013	57	02764			47717							
334	--	64647	24488		--	01762	28203					--	02545			20510							
340	62	64636	53668		00	00700	16400	03	08400		15303	53	05045			1442							
136	5	05635	14415		52	22546	15468	00	08490		19310	--	44207			13340							
336	62	64634	16368		13	01752	20313					52	02753			12428							
350	52	05637	47528		53	05651	14362	50	08424		16214	52	05544			12328							
308	62	62645	16468		50	00861	22111	5	02750		10510												
379	6	62628	16568		2	02745	20365	--	48109		16249												
390	5	05646	14426		50	43353	16263	00	08430		15200	5	43337			13247							
382	52	62636	14168		50	00751	16201	5	43308		14348	5	05646			12416							
428	-2	10748	22628									54	02754			18415							
430	5	64538	18468		52	22263	----	03	45100		04241	07	02790			12447							
400	80	01854	18464		50	00763	18413	50	01744		16015	52	02645			48768							

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W = Present and past weather—See M.O. 252.  
h, N<sub>h</sub> = Height and amount of low cloud—See M.O. 252.  
N = Total amount of cloud—See M.O. 252.  
C<sub>u</sub>, C<sub>m</sub> = Form of low and medium cloud—See page 1.  
V = Visibility. F = Force of wind—See page 4.  
DD = Direction of wind (E, SE, S, SW, W, NW, N, NE).

AIR MINISTRY, METEOROLOGICAL OFFICE.



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DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Saturday 22nd November 1941
1 S.E. England	Fresh southerly winds; cloudy with rain at times; rather mild.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Strong southerly winds, gale in exposed places veering southwest and moderating later; dull and rainy at first; showers and bright intervals later; mild.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	As 1-3.
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	Strong southeast wind, gale in exposed places, veering southwest and moderating later; rain spreading northeastwards followed by bright intervals and showers; rather mild.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	Fresh or strong southwest winds; showers and bright intervals; rather mild.
19 S. E. Ireland	
20 S. W. Ireland	

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

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.

GENERAL INFERENCE.  
 A vigorous depression centred off western Ireland is moving northwards. Weather will be mild and unsettled with some rain or showers in all districts and with gales in exposed places in the West and North.

FURTHER OUTLOOK.  
 Continuing mild and unsettled.  
 in operation in districts 6, 7, 12, 13, 17, 18, 19, 20 and Irish Sea issued at 2300h 21/11/41; also district 5 at 0200h 22/11/41 and district 16 at 0730h 22/11/41.

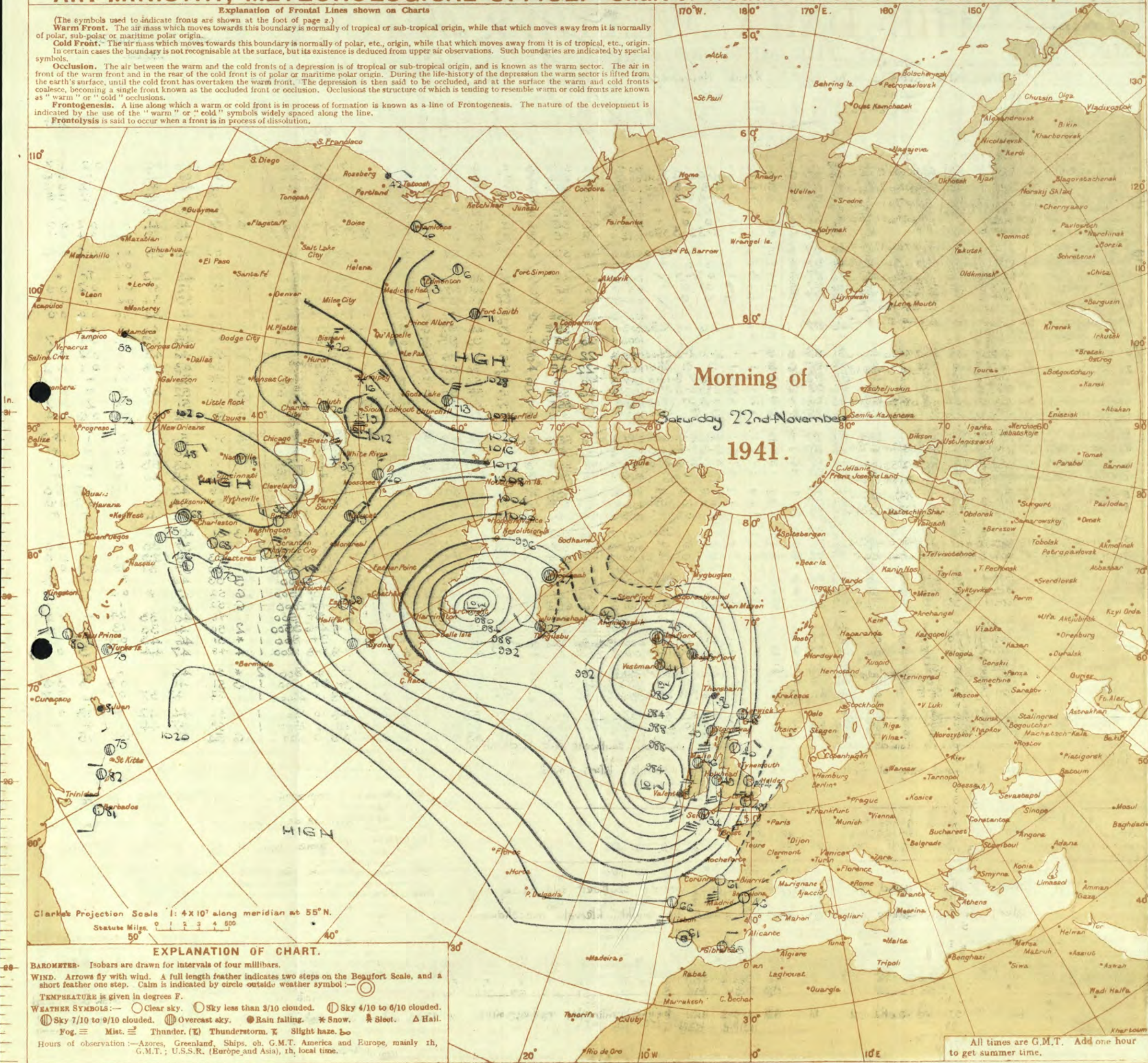
N. K. JOHNSON, D.Sc., A.R.C.S.  
 Director.  
 Forecasts issued at 10.30h.  
 H.M.S.O. Press, Meteorological Office, Dunstable.



# 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 at the foot of page 2.)  
**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.





THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Saturday 22nd November 1941.  
No 25220.

[illegible]

LONDON OBSERVATIONS.										Height above sea level, in feet.	Weather.			Temperature.			Rainfall.		Sunshine, to Sunset, hrs.		Humidity.		Visibility, mi.	Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.				EXPLANATION OF FIGURES, LETTERS, etc.																																																											
Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations except for rainfall which is 9h—18h											Morning.	Afternoon.	Night.	Day Max.	Night Min.	Min. on Grass °F.	Day.	Night.	15h. G.M.T. %	9h. G.M.T. %	24 hrs. ended 7h. G.M.T. 22nd				COLUMNS 2, 16. The barometric tendency is expressed in tenths of a millibar.  COLUMNS 4, 18. THE BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground. <table><tr><th>Beaufort No.</th><th>Statute m/h.</th><th>Beaufort No.</th><th>Statute m/h.</th><th>Beaufort No.</th><th>Statute m/h.</th></tr><tr><td>0</td><td>1</td><td>4</td><td>13-18</td><td>9</td><td>47-54</td></tr><tr><td>1</td><td>1-3</td><td>5</td><td>19-24</td><td>10</td><td>55-63</td></tr><tr><td>2</td><td>4-7</td><td>6</td><td>25-31</td><td>11</td><td>64-75</td></tr><tr><td>3</td><td>8-12</td><td>7</td><td>32-38</td><td>12</td><td>75</td></tr><tr><td></td><td></td><td>8</td><td>39-46</td><td></td><td></td></tr></table> COLUMNS 30—Code for State of Sea. <table><tr><td>0</td><td>Calm—glassy.</td><td>5</td><td>Rough.</td></tr><tr><td>1</td><td>Calm—rippled.</td><td>6</td><td>Very rough.</td></tr><tr><td>2</td><td>Smooth.</td><td>7</td><td>High.</td></tr><tr><td>3</td><td>Slight.</td><td>8</td><td>Very high.</td></tr><tr><td>4</td><td>Moderate.</td><td>9</td><td>Phenomenal.</td></tr></table>						Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	0	1	4	13-18	9	47-54	1	1-3	5	19-24	10	55-63	2	4-7	6	25-31	11	64-75	3	8-12	7	32-38	12	75			8	39-46			0	Calm—glassy.	5	Rough.	1	Calm—rippled.	6	Very rough.	2	Smooth.	7	High.	3	Slight.	8	Very high.	4	Moderate.	9	Phenomenal.	
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Max.	Time.	Min.	Time.																																																																																				
CROYDON ...										217	c	cm	id	g	rb	bm	c	54	48	42	4	—	0.6	.	.	7	Kew Observatory. <table><tr><th>Max.</th><th>Time.</th><th>Min.</th><th>Time.</th></tr><tr><td>0.1</td><td>13-22</td><td>0.1</td><td>0.6h</td></tr><tr><td>21st</td><td></td><td></td><td>22nd</td></tr></table>				Max.	Time.	Min.	Time.	0.1	13-22	0.1	0.6h	21st			22nd																																													
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REGENTS PK. (Botanic Gardens)...										168	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.																																																													
CAMDEN SQUARE ...										110	bc	c	.	.	.	.	.	54	48	38	1	0.2	*	.	24	.																																																													
KENSINGTON ...										80	bc	or	.	.	.	.	.	56	47	36	1	0.3	.	93	33	.																																																													
HAMPSHIRE OBSERVATORY ...										450	bc	or	bc	or	bc	or	bc	53	47	40	1	0.3	.	.	97	.																																																													

FOREIGN OBSERVATIONS.										Evening of 21st November										Morning of 22nd November										Past 24 Hours.									
STATIONS.										Barom.		Wind.		Weather.	Temp. °F.	Barom.		Wind.		Weather.	Temp. °F.	Max. Day °F.	Min. Night °F.	Rainfall.															
										mb.	mb.	Dir.	Force.			mb.	mb.	Dir.	Force.					Day mm.	Night mm.														
Reykjavik (18h and 07h) ...										982.6	SE	3	bc	42	984.4	ESE	1	b	33	*	*	*	*																
Lisbon (18h and 07h) ...										1018.1	SE	2	c	59	1016.1	SW	5	c	61	63	57	0.4	—																
Madrid (18h and 07h) ...																																							
Cairo (Heliopolis) (18h and 06h) ...										1018.4	NE	2	b	62	1017.4	—	0	b	56	71	45	—	—																
Toronto (13h and 01h) ...															1017.8	WSW	4	ps	35		*		*																
Washington (13h and 01h) ...																																							

COLUMNS 34, 35. Tr. = rain has fallen, but amount less than 0.1 mm.																													
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2/6 per month: 8/6 per quarter: 25/- per year.

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

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



AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
Sunday 23rd. November, 1941.  
No. 29, 221

OBSERVATIONS at 13h. G.M.T. 22nd. November.														OBSERVATIONS at 18h. G.M.T. 22nd. November.														PAST 24 HOURS.							
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 8 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. at M.S.L. mb. (15)	Change in 8 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					Sea. 0-9 (30)	WEATHER.						
				Direc. (3)	Force. 0-12 (4)					Form. (9)	Amount. (10)	Height of Base. (feet) (11)	Form. (23)	Amount. (24)			Height of Base. (feet) (25)	State of Ground. 0-9 (26)					7h.—13h. 22nd. (37)	13h.—18h. 22nd. (38)	18h.—23h. 22nd. (39)	1h.—7h. 23rd. (40)									
1	London (Kew)...	1006.9	-2.0	SSE	3	20	57	75	6	1	3	3	Tr	9	1500	1005.7	-2	SSE	3	20	55	75	6	5	-	9	9	2500	1	*	cmow	Cz	cmocrs	cbccmo	
	Croydon ...	1007.6	-2.2	SSE	4	20	59	75	7	1	4	6	0	7-8	1800	1005.1	-4	SSE	3	10	55	75	6	5	7	-	9	10	5700	1	*	c.cobc	Czmo	ccocrs	ccocrs
	S. Farnborough	1006.2	-2.2	SE	4	20	52	75	7	1	5	6	Tr	7-8	1800	1005.1	-4	SSE	3	10	54	85	6	5	-	-	9	9	3000	1	*	cmobc	ccocrs	ccocrs	ccocrs
	Boscombe Down	1004.6	-2.4	SE	5	20	53	85	7	5	7	-	4-6	10	1500	1003.7	-6	SEIS	5	11	52	97	6	6	2	-	7-8	10	800	1	*	cmocls	ccocrs	ccocrs	ccocrs
	Thorney Island	1006.1	-2.2	SSE	4	20	56	85	8	1	3	3	Tr	7-8	4000	1005.2	+2	SSE	4	11	55	85	6	5	7	-	7-8	10	2600	1	*	cbcc	ccocrs	ccocrs	ccocrs
	Lympne ...	1010.7	-2.2	SE	4	20	54	92	6	5	7	7	1	10	2200	1003.9	-4	SE	5	11	54	85	7	5	-	-	9	9	6000	1	*	cmo	ccocrs	ccocrs	ccocrs
	Manston ...	1010.3	-1.8	SSE	4	20	55	85	6	-	7	6	0	7-8	-	1008.3	-6	SE	5	20	54	85	6	5	-	-	9	9	6000	1	*	bemocrs	ccocrs	ccocrs	ccocrs
2	Shoeburyness ...	1009.9	-2.2	SE	4	20	53	85	7	-	7	7	0	10	-	1008.2	-6	SE	4	10	52	85	7	-	4	2	0	4-6	-	1	*	cmoc	ccocrs	ccocrs	ccocrs
	Felixstowe ...	*	-2.0	SSE	5	20	52	92	6	-	7	-	0	9	-	*	-6	SEIS	6	20	52	92	6	5	-	-	9	9	7000	1	5	cmo	ccocrs	ccocrs	ccocrs
	Gorleston ...	1012.7	-1.0	SEIS	4	20	48	97	6	5	4	-	2-3	7-8	2500	1009.9	-14	SSE	6	20	50	92	6	5	-	-	7-8	7-8	2500	1	4	Cz	ccocrs	ccocrs	ccocrs
	Mildenhall ...	1009.0	-2.2	SEIS	4	20	55	85	7	5	7	3	4-6	5	4000	1006.7	-10	SEIS	4	10	54	85	7	5	7	-	2-3	4-6	4000	1	*	C	ccocrs	ccocrs	ccocrs
	Cranwell ...	1007.1	-2.2	SSE	1	20	52	92	6	5	3	6	0	9	600	1005.7	-2	SEIS	5	20	52	92	5	5	7	-	2-3	10	3000	1	*	cfcmo	ccocrs	ccocrs	ccocrs
3	Birmingham	1003.8	-2.4	SE	4	20	54	85	7	6	7	-	4-6	7-8	800	1002.8	-4	SSE	4	10	53	85	7	6	-	-	9	9	800	1	*	C	ccocrs	ccocrs	ccocrs
	Upper Heyford	1004.7	-2.8	SEIS	3	20	56	75	7	5	3	9	1	7-8	1500	1003.9	-2	SE	4	10	53	85	6	5	3	-	9	9	2000	1	*	cmobc	ccocrs	ccocrs	ccocrs
4	Ross-on-Wye ...	1001.8	-2.0	SE	4	20	55	75	7	6	2	7	1	9	2500	1001.1	-4	S	5	10	53	92	6	6	1	-	9	10	1500	1	*	Cpoc	ccocrs	ccocrs	ccocrs
5	Hartland Point	992.8	-2.4	S	6	20	56	75	7	8	2	-	4-6	10	1500	999.1	+3.0	S	3	10	49	85	8	5	4	-	4-6	7-8	3400	1	4	ccrrc	ccocrs	ccocrs	ccocrs
	Bristol ...	1002.2	-1.8	SSE	4	20	54	85	7	5	2	-	2-3	10	1400	1001.1	-4	S	5	10	53	92	6	6	2	-	4-6	10	800	1	4	ccrrc	ccocrs	ccocrs	ccocrs
	Portland Bill ...	1004.6	-8	S	5	20	54	92	7	5	-	-	10	10	2500	1002.5	-8	S	4	10	54	92	7	5	-	-	10	10	2500	1	5	ccrrc	ccocrs	ccocrs	ccocrs
	Plymouth ...	998.6	-1.4	SSW	6	20	57	85	6	5	-	-	10	10	2500	1000.4	+1.6	SSW	5	10	52	85	6	2	7	2	7	9	2000	1	4	ccrrc	ccocrs	ccocrs	ccocrs
	The Lizard ...	996.7	+6	SSE	8	20	54	92	7	8	2	-	7-8	10	1000	1000.2	+1.6	SSW	4	10	51	85	8	8	-	-	4-6	4-6	1500	1	5	ccrrc	ccocrs	ccocrs	ccocrs
	Scilly (St. Mary's)	994.5	+1.4	WS	5	20	49	97	8	8	2	-	4-6	9	1000	998.0	+8	WS	5	10	51	85	8	8	6	-	2-3	2-3	1500	1	5	ccrrc	ccocrs	ccocrs	ccocrs
	Guernsey ...																																		
6	Pembroke ...	992.6	-1.2	SEIS	8	20	55	97	6	8	-	-	10	10	1500	997.8	+2.4	SSW	5	10	51	92	8	8	7	-	4-6	7-8	2000	1	4	ccrrc	ccocrs	ccocrs	ccocrs
7	Holyhead (Valley)	994.0	-2.4	SSE	7	20	57	75	8	6	2	-	7-8	10	1500	996.5	+3.4	SSE	6	10	50	92	7	5	-	-	9	9	1000	1	5	ccrrc	ccocrs	ccocrs	ccocrs
	Chester (Sealand)	1000.8	-2.4	SSE	5	20	55	85	6	5	7	1	4-6	9	800	999.5	-1.0	SSE	5	10	54	85	6	5	-	-	7-8	10	1800	1	*	cmobc	ccocrs	ccocrs	ccocrs
8	Manchester ...	1002.7	-2.4	SEIS	6	20	55	75	7	5	9	-	Tr	9	3000	1001.0	+2	SE	5	10	55	85	7	5	3	-	4-6	7-8	5000	1	*	C	ccocrs	ccocrs	ccocrs
10	Spurn Head ...	1007.9	-2.4	SE	5	20	49	97	6	5	3	2	4-6	7-8	1500	1006.3	-1.0	SE	5	10	48	92	6	2	5	4	4-6	4-6	2000	1	3	cmo	ccocrs	ccocrs	ccocrs
	Catterick ...	1005.3	-3.0	SSE	4	20	49	92	5	5	2	-	4	10	300	1003.2	-6	SSE	4	10	52	85	5	5	2	-	9	10	1100	1	*	cfcmo	ccocrs	ccocrs	ccocrs
	Tynemouth ...	1007.0	-2.4	S	5	20	49	85	7	8	-	-	9	9	2800	1004.2	-8	S	5	10	50	92	6	8	-	-	9	9	2000	1	4	cmoc	ccocrs	ccocrs	ccocrs
11	St. Abbs Head	1005.3	-1.6	SSE	5	20	46	97	5	5	-	-	10	10	1500	1000.6	-2.2	SSE	5	20	48	97	5	5	-	-	10	10	1500	1	5	cmoc	ccocrs	ccocrs	ccocrs
	Leuchars ...	1004.3	-1.4	SSE	7	20	47	92	6	5	2	-	4-6	10	1500	1001.2	-1.0	SSE	7	20	49	97	6	5	2	-	9	10	800	1	*	bbccmo	ccocrs	ccocrs	ccocrs
12	Renfrew (Abbots L.)	1000.1	-2.0	ESE	5	20	51	75	5	5	7	-	4-6	10	1300	997.9	-4	ESE	4	20	54	75	5	5	2	-	7-8	10	1500	1	*	ccocrs	ccocrs	ccocrs	ccocrs
	Eskdalemuir ...	1001.9	-2.0	SE	4	20	48	85	7	5	7	-	2-3	9	2500	999.3	-6	SEIS	6	10	51	85	7	5	-	-	9	9	2500	1	*	C	ccocrs	ccocrs	ccocrs
	Point of Ayre ...	996.3	-3.2	SSE	8	20	52	85	6	5	1	-	7-8	10	2000	995.0	+6	SE	7	10	53	92	6	6	2	-	4-6	10	800	1	5	Cz	ccocrs	ccocrs	ccocrs
13A	Tirree ...	990.8	-1.4	SSE	6	20	49	92	7	5	-	-	10	10	1500	992.0	0	S	6	10	53	97	6	-	2	-	10	10	1200	1	6	or	ccocrs	ccocrs	ccocrs
13B	Stornoway ...	996.7	-4.2	ESE	6	20	50	85	7	5	2	-	9	10	1000	994.1	-8	ESE	6	10	52	83	7	5	7	-	7-8	10	1500	1	4	pr	ccocrs	ccocrs	ccocrs
15	Dalwhinnie ...	999.2	-2.0	SSE	4	20	42	92	6	5	2	-	7-8	10	1500	997.4	-1.8	SSE	5	10	48	92	6	5	-	-	9	9	1500	1	4	pr	ccocrs	ccocrs	ccocrs
	Aberdeen ...	1006.8	-1.6	SSE	4	20	49	92	6	5	-	-	10	10	700	1003.9	-1.4	SSE	5	10	49	92	6	5	-	-	10	10	200	1	4	ccrrc	ccocrs	ccocrs	ccocrs
	Wick ...	1005.6	-1.8	SEIS	5	20	48	85	7	5	-	-	10	10	700	1003.6	-6	SEIS	5	20	49	85	6	5	-	-	10	10	800	1	*	cmoc	ccocrs	ccocrs	ccocrs
16	Sumburgh ...	1010.0	-1.0	SSE	5	20	46	85	7	5	-	-	10	10	1500	1008.2	-6	SE	5	20	48	92	6	5	-	-	10	10	1200	1	5	Cz	ccocrs		

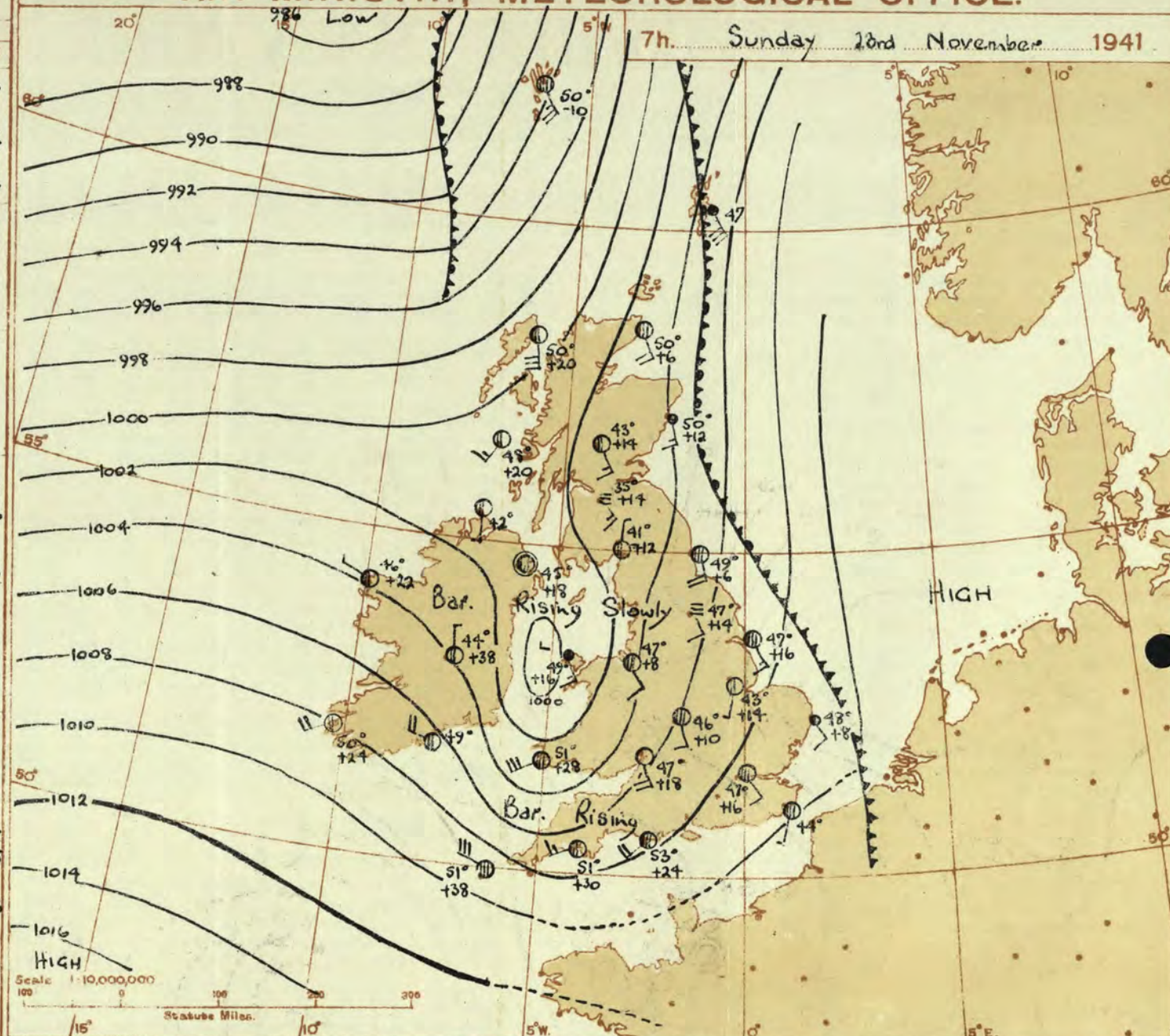


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 22nd Nov. 18h. G.M.T.				01h. G.M.T. 23rd Nov. 07h. G.M.T.			
III C <sub>1</sub>	ww Vh N <sub>1</sub>	DD FWN	C <sub>1</sub> C <sub>2</sub>	III C <sub>1</sub>	ww Vh N <sub>1</sub>	DD FWN	C <sub>1</sub> C <sub>2</sub>
109 62	03645	11668	5-	61638	45728	5-	03638 45668
115 52	12734	45627	52	14744	45526	52	14844 45526
203			5-	02846	08626	5-	02848 16528
206 57	02853	08628	57	02854	10226	5-	61748 10668
210			57	61744	4466	5-	05648 08328
220			62	63336	14768		52 02536 15328
230			52	62647	10568	57	22555 14166
245 5-	05635	14528	6-	61638	46668	6-	64538 14568
260 57	61763	10328	57	22654	10365	5-	22658 14268
278			52	22735	45668	50	00862 14112
279 62	62643	45668	57	05665	43527	57	22656 16368
285 --	57109	12559	6-	58538	12668		50 00762 08262
288 54	02742	27428	57	05543	46664	52	05655 12468
295 57			5-	02847	14227	50	00851 00001
301 57	05654	13726	52	61646	47828	50	22662 14462
321 50	05664	47428	57	05664	13420	02	61648 13368
299 --	28229	14649	5-	01653	12413	5-	05655 12515
298 57	05635	10427	52	05646	11328	02	05648 45468
310							02 05663 12363
614 57	05565	12427	6-	05555	45428	62	62545 17368
338 52	02865	12868	52	62645	18568	4-	01852 45512
334 --	63544	20486	--	63547	24588		
340 50	61643	27666	5-	61658	14668	50	05662 15312
136 50	05690	14447	07	05690	13426	5-	05676 14326
336 62	63643	12568				5-	22666 17266
350 57	05541	12425	57	05565	45427	62	62557 16267
368 62	62644	45568	62	62645	21367	50	25653 16283
279 57	25865	47586	62	62646	14568	00	05620 16260
390 07	05696	16426	57	05663	14425	5-	22545 16268
382 53	02851	49526	52	62646	13468	50	22 662 16262
428 5-	07765	14515					53 05643 14314
430 57	02741	14551	5-	64538	16568	5-	05654 18224
400 57	22745	50767	57	02865	16465	5-	61654 18424
						52	62647 50568

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W = Present and past weather—See M.O. 252.  
h, N<sub>h</sub> = Height and amount of low cloud—See M.O. 252.  
N = Total amount of cloud—See M.O. 252.  
C<sub>1</sub>, C<sub>2</sub> = Form of low and medium cloud—See page 1.  
V = Visibility. F = Force of wind—See page 1.  
DD = Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 23rd November, 1941.

1 S.E. England	Light or moderate S. wind, veering W. Fair with some bright periods but with some local fog around dawn. Rather mild.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Strong westerly winds moderating. Local showers and bright intervals. Rather mild.
6 South Wales ...	
7 North Wales ...	Moderate S. wind, veering W. Local showers and bright intervals. Rather mild.
8 N.W. England	
9 N. Midlands ...	As 1-4.
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	As 7-8.
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	Strong southerly winds moderating and veering. Dull and rainy at first. Showers and bright intervals later. Rather mild.
16 Orkneys and Shetlands	
17 N. W. Ireland	Moderate westerly wind backing S.W. and freshening. Showers and bright intervals at first. More general rain tomorrow morning. Rather mild.
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their character is 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  
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.

GENERAL INFERENCE.

A depression near Iceland is moving northwards and associated troughs are moving N.E. across the British Isles. There will be some rain at first in N.E. England, and later a depression now well out on the Atlantic will bring rain into Ireland. Otherwise it will be fair apart from local showers and generally rather mild.

FURTHER OUTLOOK.

Rain spreading eastwards across Great Britain. Gale warning in operation in district 16. Time of issue. 0730h. on 21. 11. 41.

Forecasts issued at 10.30h. G.M.T.

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

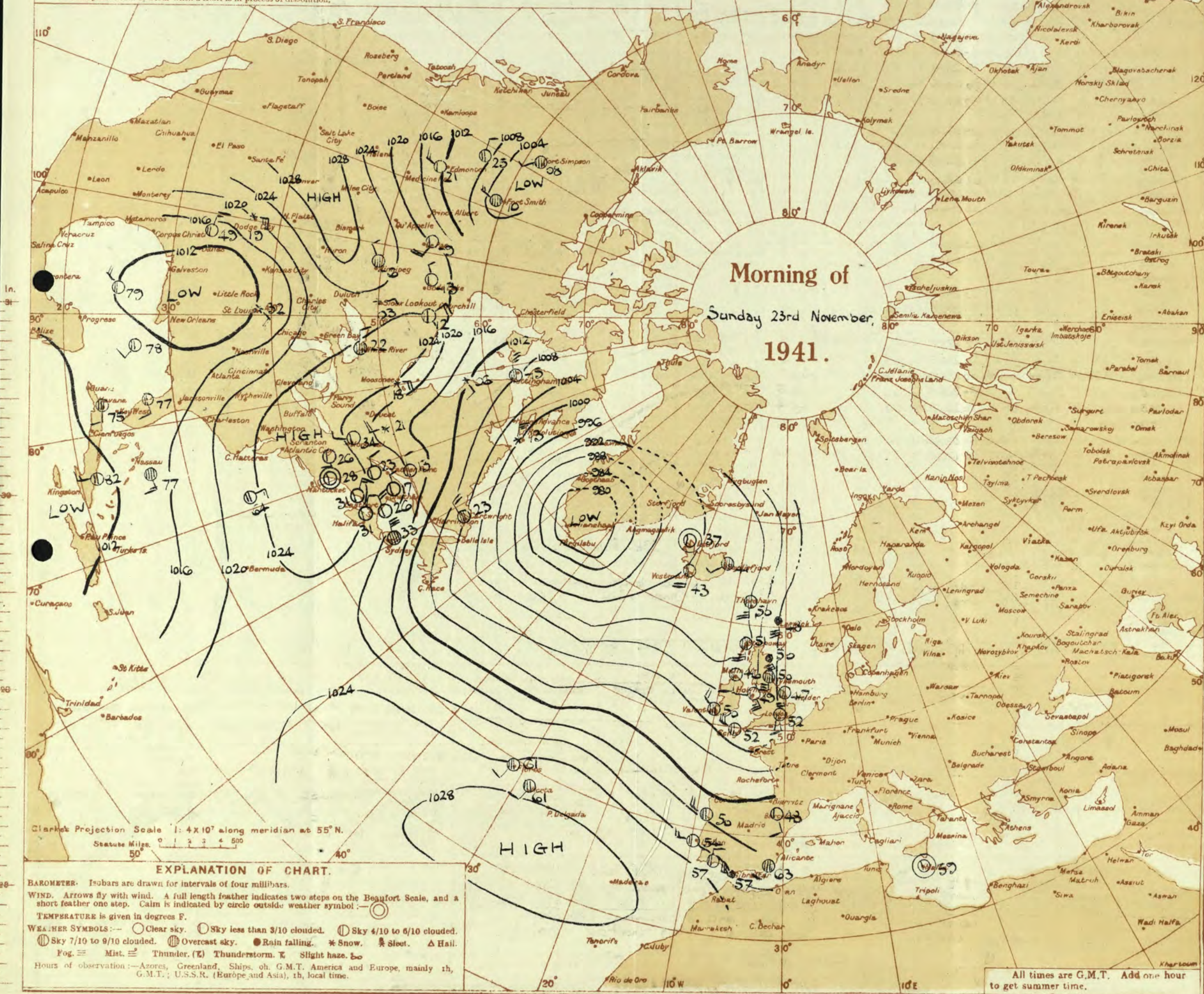
H.M.S.O. Press, Meteorological Office, Dunstable.



# 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 at the foot of page 2.)  
**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.





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 23rd November 1941.

No. 29221

OBSERVATIONS at 1 hr. G.M.T. 23rd November.														OBSERVATIONS at 7 hr. G.M.T. 23rd November.														PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. M.S.L. mb. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud.					Barom. at M.S.L. mb. (15)	Change in 3 hours.	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud.					State of Ground. 0-9 (29)	Sea. 0-9 (30)	TEMPERATURE.			RAINFALL.			SUN- SHINE Hrs. (36)
					Direc.	Force. 0-12 (4)					Form.	Amount. 0-10 (11)	Height of Base. (feet) (14)	Direc.	Force. 0-12 (18)			Form.	Amount 0-10 (25)					Height of Base (feet) (28)	Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Day 7h-18h mm. (34)			Night 18h-7h mm. (35)						
																																Low.	Med.	High	Low	Total	
1	London (Kew) ... 18	1005.7	+2	SSE	2	c/r	62	97	6	6	-	-	9	9	1500	1008.3	+16	SSE	2	z	47	97	6	4	3	0	9	-	1	58	46	33	-	4	3.8		
	Croydon ... 217	1005.7	+14	3	2	z	48	92	7	5	3	-	9	9	3500	1008.3	+16	SSE	2	z	47	97	6	4	3	0	9	-	1	59	47	42	7	3	3.2		
	S. Farnborough ... 226	1005.7	+14	3	2	z	48	92	7	5	3	-	9	9	3500	1008.3	+16	SSE	2	z	46	97	6	4	3	0	9	-	1	57	45	40	0.3	4	3.7		
	Boscombe Down ... 417	1005.8	+10	SSW	2	bc	51	92	6	5	4	-	2-3	2-3	4000	1008.2	+18	SSW	2	bc	46	97	7	8	4	1	2-3	4-6	4000	1	54	43	38	4	5	0.0	
	Thorney Island ... 10	1005.8	+2	SSE	3	r/r	52	97	6	-	2	-	10	10	1500	1010.0	+14	SSW	1	z	49	97	6	5	3	2	4-6	9	4000	1	56	43	35	1	3	0	
	Lymington ... 346	1008.2	+2	SSE	3	r/r	52	97	6	-	2	-	10	10	1500	1010.0	+14	SSW	1	z	49	97	6	5	3	2	4-6	9	4000	1	56	43	41	0.1	3	1.3	
	Manston ... 154	1007.2	0	S	2	r/r	53	92	6	5	-	-	9	9	6500	1008.8	+10	S	1	z	50	97	7	5	4	-	9	9	6000	1	55	49	44	-	0.1	1.8	
2	Shoeburyness ... 11	1007.1	0	S	4	r/r	52	92	6	5	-	-	10	10	1700	1009.0	+8	S	2	c	48	97	6	5	7	-	4-6	9	5700	1	53	48	47	-	0.5	1.3	
	Felixstowe ... 15	*	-4	SSE	4	z	51	92	6	5	-	-	10	10	4000	*	+8	SSW	2	z	49	97	6	5	-	-	7.8	7.8	2500	1	52	48	*	-	0.1	1.2	
	Gorleston ... 5	1008.6	-6	SSE	3	z	49	92	6	5	-	-	4.6	4.6	2500	1008.8	+8	SE/E	2	pr	48	95	6	5	4	-	4-6	7.8	1500	1	50	47	45	-	0.1	0	
	Mildenhall ... 19	1005.8	-2	SE/S	4	z	53	85	6	5	-	-	9	9	5600	1007.7	+12	SSE	2	z	50	92	6	-	7	-	0	7.8	-	1	54	50	44	0.1	7	0.0	
	Cranwell ... 240	1004.6	-2	SSE	3	r/r	51	97	5	5	-	-	10	10	1500	1006.5	+14	SSE	1	z	43	97	6	5	4	-	2-3	4.6	3000	1	54	42	38	-	0.4	0.5	
3	Birmingham ... 535	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1005.1	+8	SSE	3	c	45	97	7	6	-	-	9	9	800	1	54	43	39	0.6	3	0.4	
	Upper Heyford ... 408	1004.2	+6	SW	2	z	49	97	6	5	-	-	2-3	2-3	1000	1006.6	+14	SW/W	1	z	45	97	6	5	7	4	1	2-3	4500	1	56	45	41	1	8	*	
4	Ross-on-Wye ... 223	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.7	+10	S	4	c	49	92	7	8	-	-	9	9	3000	1	56	46	38	-	12	0.1	
5	Hartland Point ... 299	1000.3	-2	SW	4	bc	50	75	8	5	-	-	2-3	2-3	2500	1005.7	+40	WNW	5	c	51	75	8	8	-	-	7.8	7.8	2500	1	56	48	45	2	2	0.1	
	Bristol ... 209	1003.5	+4	SSE	2	b	47	92	7	7	-	-	Tr	Tr	1500	1006.2	+18	S	4	bc	47	85	7	5	-	-	2.3	2-3	1200	1	55	46	41	2	5	0.0	
	Portland Bill ... 32	1004.9	+12	SSW	4	bc	53	92	7	5	-	-	4.6	4.6	4000	1007.6	+14	WSW	4	c	53	92	7	5	-	-	7.8	7.8	2500	1	50	50	*	2	6	*	
	Plymouth ... 82	1003.0	+6	SW	5	bc	53	75	7	4	-	-	2-3	2-3	2500	1007.7	+30	WS	3	bc	51	85	7	5	-	-	4.6	4.6	3000	1	57	50	47	3	0.1	0.1	
	The Lizard ... 240	1003.1	+12	WSW	6	bc	51	85	8	8	-	-	4.6	4.6	1500	1008.6	+10	WNW	7	bc	51	75	8	8	6	-	4.6	4.6	1500	1	55	50	*	7	1	0.2	
	Scilly (St. Mary's) ... 163	1002.0	+20	WNW	6	bc	52	75	7	8	-	-	4.6	4.6	1500	1009.1	+38	NW	6	c	51	65	8	8	7	2	4.6	7.8	1500	0	54	52	*	7	-	1.2	
	Guernsey ... 175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
6	Pembroke ... 142	998.4	-12	SSW	7	pr	50	97	8	8	-	-	7.8	7.8	1500	1002.1	+28	WS	6	cq	51	92	7	8	-	-	7.8	7.8	2500	0	55	46	*	10	1	0.0	
7	Holyhead (Valley) ... 26	999.0	0	SE	5	b	49	85	8	5	-	-	Tr	Tr	5700	1000.3	+16	SSE	3	pr	49	92	7	9	-	-	3	3	1200	1	58	47	44	0.1	1	*	
	Chester (Sealand) ... 16	1001.8	+8	SSE	2	bc	46	92	7	5	-	-	2-3	2-3	3000	1003.1	+8	SSE	2	c	47	85	7	5	-	-	9	9	2700	1	56	44	32	0.1	3	0.4	
8	Manchester ... 235	1002.7	+10	SSE	4	c	51	85	8	5	-	-	4.6	4.6	3000	1008.0	+6	SSE	3	bc	46	85	7	5	-	-	4.6	4.6	4000	1	57	45	40	0.2	0.3	*	
10	Spurn Head ... 29	1005.1	-8	SE'S	4	z	47	92	6	5	-	-	4.6	9	2500	1006.9	+16	SSE	3	c	47	97	6	2	3	-	4.6	4.6	2500	1	49	43	*	0.1	7	1.5	
	Catterick ... 175	1003.2	+2	S'E	3	r/r	51	97	5	5	-	-	10	10	700	1005.2	+14	S'E	2	F+	47	97	1	-	-	-	10	10	4150	1	52	51	41	0.1	1	0.0	
	Tynemouth ... 108	1003.4	0	S	6	o	50	92	6	5	-	-	10	10	1500	1004.4	+6	S	4	c/r	49	97	6	5	-	-	10	10	1500	1	50	48	45	-	1	**	
11	St. Abbs Head ... 280	1000.7	-4	SE	6	r/r	49	97	5	5	-	-	10	10	1500	1003.3	+8	SE	3	c/r	48	97	5	5	-	-	10	10	1500	1	48	48	*	-	2	*	
	Leuchars ... 36	1000.7	-2	ESE	5	r/r	50	97	6	5	-	-	4.6	10	1800	1003.5	+12	-	0	c/r	47	97	6	5	2	-	9	10	3600	2	49	47	44	-	2	0.0	
12	Renfrew (Abbots L.) ... 19	1000.7	+14	S'E	2	r/r	50	92	7	5	-	-	9	10	5000	1003.6	+14	SE	3	if	35	97	3	5	-	-	Tr	Tr	2500	1	54	35	29	0.1	0.2	0.0	
	Eskdalemuir ... 794	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.7	+12	N	1	c	41	97	8	5	-	-	7.8	7.8	2500	1	51	37	33	-	3	0.0	
	Point of Ayre ... 30	1000.3	+6	SW'S	3	bc	49	85	8	9	4	-	Tr	1	3500	1001.2	+10	S'E	5	c	49	92	8	5	-	-	7.8	7.8	2500	1	54	42	*	0.3	1	0.0	
13A	Tiree ... 22	998.0	+20	SSW	2	bc	48	85	8	9	-	-	2.8	2.8	2500	1001.8	+20	SSW	3	bc	48	92	8	8	-	-	4.6	4.6	1800	0	53	42	*	9	2	0.0	
13B	Stornoway ... 80	998.8	+18	S	5	c	51	85	7	5	-	-	7.8	10	1500	998.9	+20	S	6	bc	50	85	7	2	4	-	-	4.6	4.6	1500	1	52	50	*	1	0.6	0.0
15	Dalwhinnie ... 1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1003.8	+14	SSE	3	bc	43	85	7	8	-	-	2.3	4.6	2500	1	45	42	35	2	10	0.0	
	Aberdeen ... 79	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1004.1	+12	S'E	3	r/r	50	97	6	6	-	-	10	10	1000	1	49	50	47	-	6	0.1	
	Wick ... 119	1000.8	-10	SSE	5	z	50	92	6	5	-	-	10	10	900	1002.2	+6	S'E	4	c/r	50	92	6	5	7	-	4.6	9	1500	1	49	47	48	-	1	*	
16	Sumburgh ... 30	1006.1	-2	SE'S	7	r/r	48	97	6	6	-	-	10	10	900	1005.4	+2	SE'S	7	r/r	48	97	5	6	-	-	10	10	800	1	48	46	46	-	0.1	0.0	
17	Blacksod Point ... 18	997.5	+26	SE	1	c/r	47	85	8	5	-	-	9	9	2500	1003.7	+22	WNW	1	b	46	75	8	4	-	-	1	1									



AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
Monday 24th November 1941.  
No. 29,222

OBSERVATIONS at 13h. G.M.T 23rd November														OBSERVATIONS at 18h. G.M.T 23rd November														PAST 24 HOURS.						
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.						
				Dirac. (3)	Force. 0-12 (4)				Form.	Amount. Low Total 0-10 0-10 (11) (12)	Height of Base. (feet) (14)	Dirac. (17)	Force. 0-12 (18)			Form.	Amount. Low Total 0-10 0-10 (23) (24)				Height of Base. (feet) (28)	7h.-13h. 23rd. (37)	13h.-18h. 23rd. (38)	18h. 23rd 1h. 24th (39)	1h.-7h. 24th (40)									
1	London (Kew) ... Croydon ... S. Farnborough Boscombe Down Thorney Island Lympne ... Manston ...	1011.2 1011.3 1011.3 1012.7 1011.8 1012.7 1011.3	+10 +6 +10 +30 +14 +6 0	WSW WSW W W WSW SW SW	2 3 3 4 2 2 2	53 56 55 50 55 55 57	75 65 75 85 75 75 75	6 7 7 8 7 8 7	8 2 - - 1 4 2	3 6 - - 1 4 1	4-6 4-6 4-6 7-8 7-8 4-6 4-6	4-6 4-6 4-6 1500 1000 2500 2000	1014.9 1014.8 1014.9 1015.7 1015.6 1015.5 1014.5	+20 +18 +20 +24 +26 +20 +12	WSW SW WSW W W WSW WSW	2 1 2 2 2 1 1	20 30 45 43 48 49 46	85 85 85 92 85 92 92	6 4 4 - 5 6 6	- - - - - - 4	4 6 3 9 8 7 3	0 4-6 0 4-6 2-3 10 7-8	- - - - 1000 - 1000	1 1 1 1 1 1 1	*	cbcmw bcmobc bcmobc bcmobc bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc bcmobc bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc bcmobc bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc bcmobc bcmobc bcmobc bcmobc					
2	Shoeburyness ... Felixstowe Gorleston ... Mildenhall Cranwell	1011.5 1011.5 1013.1 1010.7 1009.0	+2 +4 +20 +14 +6	WSW WSW SSW SSW SSW	2 3 2 3 4	55 54 54 53 51	75 85 85 75 85	6 8 5 6 7	2 - 1 4 1	- - 1 2 3	2-3 2-3 2-3 2-3 2-3	4-6 7-8 3000 4000 1000	1014.8 1014.8 1014.5 1013.3 1011.9	+24 +20 +14 +18 +18	WSW WSW WSW SSW SW	1 2 2 2 3	20 20 50 47 46	85 92 85 85 85	5 4 6 6 6	- 4 - - -	6 10 0 2-3 10	- 1000 - - -	1 1 1 1 1	1	cmobc bcmobc bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc bcmobc bcmobc						
3	Birmingham Upper Heyford	1009.5 1010.2	+14 +16	SSW SW	3 3	50 51	75 75	8 8	5 9	- 3	4-6 7-8	4-6 7-8	1500 2500	1012.9 1013.5	+16 +20	WSW WSW	2 2	20 20	48 46	75 92	7 6	5 4	- 3	- -	2-3 4-6	2-3 4-6	2500 4500	1 1	1	*	cbcmw bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc
4	Ross-on-Wye	1008.7	+20	WSW	3	52	65	8	7	-	7-8	7-8	3500	1013.6	+20	SW	2	20	46	75	8	-	5	-	0	7-8	-	1	*	cbcmw bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	
5	Hartland Point Bristol ... Portland Bill ... Plymouth The Lizard Silly (St. Mary's) Guernsey	1011.8 1011.0 1011.1 1012.6 1013.6 1013.3	+22 +18 +12 +12 +18 +12	WSW W W W WSW WSW	5 4 4 4 5 4	51 51 52 52 54 55	65 85 85 85 85 75	8 8 8 8 8 8	7 6 5 5 6 8	- 4 - - - 4	4-6 4-6 4-6 4-6 4-6 2-3	2500 2500 4000 3000 2500 1500	1013.1 1014.8 1015.4 1015.1 1013.4 1014.6	0 +12 +12 +16 +6 +6	SW W W W SW WSW	4 3 4 3 5 4	20 20 51 52 52 53	97 75 85 85 85 85	8 8 8 6 8 8	- - - - 2 5	9 7-8 7-8 7-8 7-8 7-8	2500 2000 4000 3000 1000 1500	1 1 1 1 1 1	4	cbcmw bcmobc bcmobc bcmobc bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc bcmobc bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc bcmobc bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc bcmobc bcmobc bcmobc bcmobc						
6	Pembroke	1011.0	+22	W	5	52	85	8	2	3	4-6	4-6	2500	1012.1	0	SW	4	20	52	97	8	3	-	-	9	9	2500	1	4	cbcmw bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	
7	Holyhead (Valley)	1007.2	+32	W	5	49	85	8	2	-	7-8	7-8	1200	1008.6	+10	SW	5	20	50	85	8	5	6	2-3	10	2500	1	4	cbcmw bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc		
8	Chester (Sealand)	1007.5	+26	WSW	3	52	75	7	9	-	10	10	1000	1011.2	+24	WSW	1	20	47	85	7	4	5	-	4-6	7-8	3000	1	1	cbcmw bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	
8	Manchester	1007.1	+14	SW	4	51	85	8	2	6	4-6	7-8	2500	1011.1	+12	SW	4	20	46	85	8	4	-	-	4-6	4-6	3000	1	1	cbcmw bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	
10	Spurn Head Catterick Tynemouth	1003.4 1007.1 1007.1	+2 +6 +2	SW SW SW	3 2 3	51 46 49	92 97 85	6 3 6	- 5 5	- - -	0 10 9	4-6 300 1500	1010.3 1008.9 1007.8	0 +10 +4	SSW SSW SW	3 3 3	20 20 20	48 47 48	92 92 85	6 5 6	1 5 5	4 3 -	1 - -	2-3 2-3 7-8	4-6 7-8 7-8	4000 1500 1500	0 1 1	3	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc		
11	St. Abbs Head Leuchars	1005.7 1004.8	+6 +2	SW W	2 0	49 54	97 85	7 5	4 1	4 7	4-6 2-3	4-6 3200	1006.7 1005.4	+8 +6	SW W	2 2	20 20	46 45	92 92	7 6	5 5	4 -	- -	7-8 7-8	9 7-8	2500 4000	1 1	2	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc		
12	Rentrev (Abbots L.) Eskdalemuir Point of Ayre	1005.8 1006.0 1004.8	+2 +4 +10	W W W	1 0 2	40 45 52	97 92 85	2 6 8	5 5 8	- - 3	7-8 7-8 7-8	4000 2500 3000	1005.5 1006.0 1007.4	+2 +8 +10	SW SW WSW	2 2 3	20 20 20	46 44 47	85 92 85	5 6 8	5 5 8	2 - 7	- - 7	7-8 7-8 10	4000 1500 4000	1 1 1	4	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc			
13A	Tiree	1003.1	0	WSW	2	50	85	8	2	-	4-6	4-6	2500	1000.2	-16	SSW	5	20	47	97	7	-	2	-	10	10	1800	1	5	cbcmw bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	
13B	Stornoway	1001.5	+6	SW	4	50	85	8	5	7	7-8	7-8	2000	998.8	-6	SSW	7	20	50	85	7	5	7	-	7-8	9	1500	1	4	cbcmw bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	
15	Dalwhinnie Aberdeen Wick	1006.2 1003.7 1004.1	+4 0 0	SSW SW SW	2 2 3	45 49 52	75 97 75	7 5 8	2 5 -	- - 3	4-6 7-8 2-3	2500 800 -	1004.4 1005.5 1003.6	-2 -2 -6	SSW SW SW	2 3 4	20 20 20	47 49 48	85 97 92	7 5 6	5 5 5	- - -	- - -	7-8 7-8 10	7-8 7-8 10	2500 300 500	0 1 1	3	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc		
16	Sumburgh	1006.0	-2	SSW	5	47	97	6	6	-	10	10	400	1005.2	-6	SSW	4	20	48	97	5	6	-	-	10	10	400	1	3	cbcmw bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	
17	Blacksod Point	1002.7	-18	SW	5	51	75	7	6	-	10	10	1500	1003.0	-6	SW	6	20	56	92	7	9	-	-	10	10	800	2	1	cbcmw bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	
18	Malin Head Aldergrove	1003.6 1005.8	+4 +10	SW SW	2 2	48 47	85 85	8 7	4 5	- -	2-3 7-8	7-8 400	1003.8 1005.4	-34 -6	SW SW	6 4	20 20	46 45	85 92	6 6	6 6	- 2	- -	9 7-8	9 10	1500 1000	1 2	4	cbcmw bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc		
19	Birr Castle	1007.6	+4	SW	1	49	75	8	5	-	9	10	4000	1004.9	-10	SW	3	20	51	87	8	5	1	-	7-8	10	2500	1	1	cbcmw bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	
20	Valentia Obay. Roche Point	1006.8 1007.8	-22 +2	SW SW	6 3	51 52	92 85	5 8	5 5	- 7	9 4-6	10 1500	1006.1 1008.3	+4 -6	SSW SSW	6 5	20 20	55 52	94 97	6 6	5 5	- -	- -	10 10	10 800	800	1 1	5	cbcmw bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc	bcmobc bcmobc bcmobc		

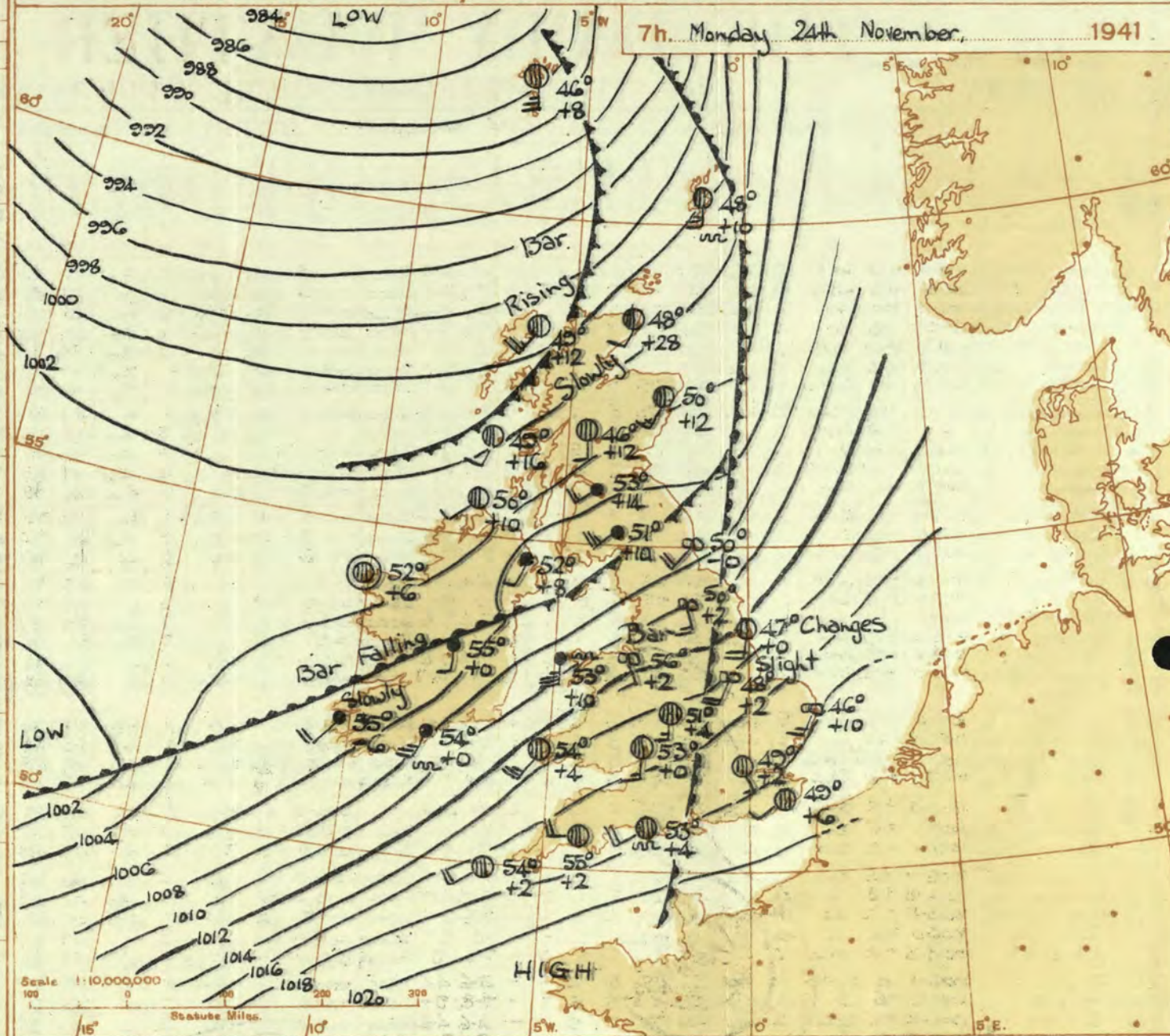


Abridged observations of additional stations in the AVIATION WEATHER CODE															
13h. G.M.T. 23rd Nov.				15h. G.M.T.				01h. G.M.T. 24th Nov.				07h. G.M.T.			
III	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN
109	57	05631	15422	5-	05644	14404	52	62645	47668	57	22754	19465			
115				54	02344	16325	52	81844	12387	54	02844	20485			
203							5-	02838	16628	5-	02838	16688			
206	13	01863	00013	50	00362	12312	5-	01854	53364	5-	01854	00064			
210	03	00070	17212	50	01362	14114	5-	22767	16467	57	02864	53467			
220				50	81644	1552*				52	82635	22388			
230	8-	02856	00086	57	21746	16258	5-	51648	18468	21	02754	51356			
245	53	05524	00025	5-	47352	17242	02	66548	16368	52	21544	17468			
260	70	00762	00002				50	22764	53664	5-	02745	19365			
271	86	02856	10217	52	02763	19328	51	61744	19466	52	62635	20368			
279				5-	08467	20387	62	61846	50568	62	61635	52668			
285							6-	63638	26568						
288	5-	05648	16218	5-	61547	16227	62	62655	18468	5-	05655	51426			
315	5-	02857	14227	5-	62648	13368	2-	21855	24465	5-	02858	00058			
301	8-	05657	20327	43	02763	21484	5-	05658	16468	52	05654	18368			
321	83	05644	18415	54	25653	19384	51	05664	19428	07	05650	18426			
299	57	01*	*	5-	05643	18215	5-	05655	20315	5-	05645	20315			
292	5-	05557	14017	8-	81548	19368	02	05657	14467	52	05665	18328			
310										--	46109	20443			
314	76	05675	16227	53	05663	20324	51	05563	18327	52	05645	53428			
333	2-	01844	24424	54	01863	18314	5-	22728	18668	5-	61738	18628			
334										--	54547	22258			
340				05	02830	18425	51	05646	16468	03	05650	18425			
136	14	01753	18314	14	00751	20213	07	05690	18318	52	51645	18468			
336							62	62644	20468						
350	17	01754	18315	57	05662	20214	51	05663	18225	62	52624	18358			
368	6-	02855	24516	57	02864	23326	5-	05768	20528	57	02765	22458			
279	50	01755	20315	54	01762	30323	50	05654	22414	--	57109	22553			
390	17	21563	16243	57	08461	16244	07	08490	16328	57	05534	18327			
382	8-	02855	22325	53	01661	21213	07	05630	16126	52	52646	17357			
436	77	01763	22214							34	02754	22425			
430							57	05663	28114						
499	50	01843	25484	57	02665	18317	5-	51618	18458	52	05636	18428			

III - Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
 ww, W - Present and past weather—See M.O. 252.  
 h, N<sub>h</sub> - Height and amount of low cloud—See M.O. 252.  
 N - Total amount of cloud—See M.O. 252.  
 C, C<sub>M</sub> - Form of low and medium cloud—See page 1.  
 V - Visibility. F - Force of wind—See page 1.  
 DD - Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

# AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Monday 24th November, 1941



## DISTRICTS.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. MONDAY 24th NOVEMBER 1941.

1 S.E. England	Moderate S.W. wind backing S. and freshening, strong locally later on coast; dull; occasional light rain; local coast fog near south coast; very mild.
2 E. England	
3 E. Midlands	
4 W. Midlands	
5 S.W. England	Moderate S.W. or South Wind fresh or strong locally on coasts increasing generally later with gales on coasts; mainly cloudy; some rain; mild.
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	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their character is 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  
 — Lines of Frontogenesis  
 — Occluded Front (or Occlusion)  
 — Warm Occlusion  
 — Cold Occlusion  
 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.

## GENERAL INFERENCE.

A deep depression centred off west Iceland is almost stationary and another depression northeast of the Azores is expected to move E.N.E. and then N.E. and deepen considerably. Weather will be cloudy with occasional rain. Southerly gales are likely later in the West and North.

## FURTHER OUTLOOK.

Unsettled generally.

Forecasts issued at 1030 G.M.T.  
 H.M.S.O. Press, Meteorological Office, Dunstable.

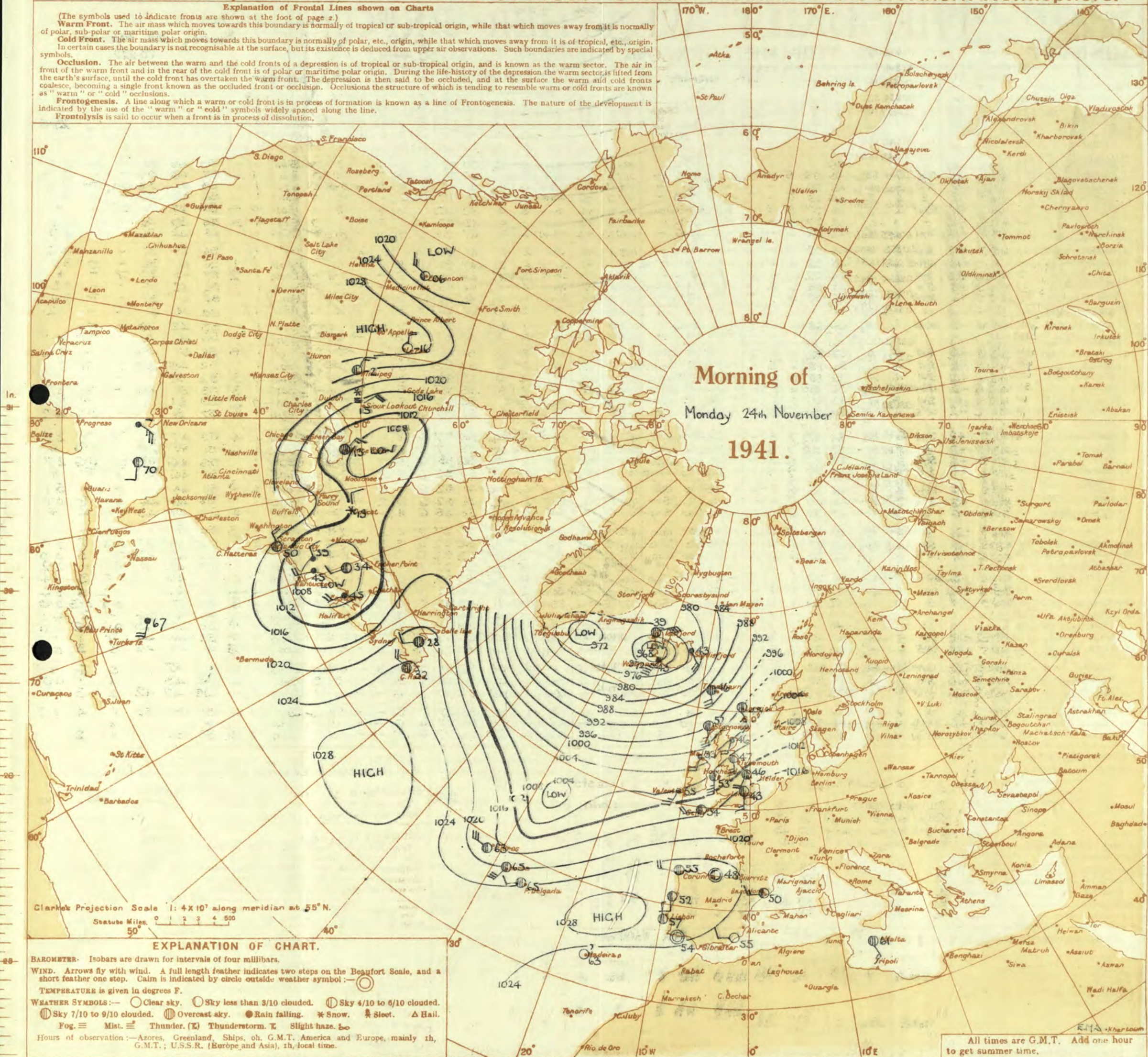
N. K. JOHNSON, D.Sc., A.R.C.S.  
 Director.



# 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 at the foot of page 2.)  
**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.





THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 24th November 1941

No. 29 222

OBSERVATIONS at 1 hr. G.M.T. 24th November															OBSERVATIONS at 7 hr. G.M.T. 24th November															PAST 24 HOURS.						
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. (22)	Cloud.					State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		SUNSHINE Hrs. (36)
					Dirce.	Force.					Form.	Amount.	Height of Base. (feet) (14)	Dirce.	Force.			Form.	Amount.					Height of Base. (feet) (28)	Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Day 7h-18h mm. (34)			Night 18h-7h mm. (35)					
																																Low.	Med.	High.	Low.	
1	London (Kew) ... 18	217	1017.3	+10	SSE	3	2	45	85	5	7	6	0	7-8	1018.4	+8	SSW	3	3	40	92	6	5	3	1	53	43	31	-	0.1	6.1					
	Croydon ... 217	1017.2	+10	SSE	3	2	45	85	5	7	6	0	7-8	1017.2	+8	SSW	3	3	40	92	6	5	3	1	57	43	36	-	0.1	5.3						
	S. Farnborough ... 226	1017.8	+6	SW	3	2	45	85	5	7	6	0	10	1018.3	+2	SSW	4	4	40	92	6	5	7	1	55	41	34	0.1	Tr	5.2						
	Boscombe Down ... 417	1016.8	-2	S	4	2	45	85	5	7	6	0	7-8	1017.7	+6	SSW	4	4	40	92	6	5	7	1	56	39	33	-	1	4.7						
	Thorney Island ... 10	1018.1	+6	SSW	2	2	48	87	5	5	8	2-3	7-8	1018.5	+4	SW	3	3	10	92	7	5	7	0	53	37	31	0.2	-	*						
	Lympe ... 346	1019.5	+4	-	0	2	42	97	5	1	2	8	0	2-3	1020.2	+6	SW	1	1	1	92	7	1	3	1	56	39	30	-	-	4.2					
	Manston ... 154	1018.9	+13	SW	2	2	42	92	6	1	1	0	4-6	1019.6	+4	SSW	2	2	10	92	6	5	3	1	58	42	36	-	Tr	3.7						
2	Shoeburyness ... 11	1019.2	+12	SW	2	2	44	92	5	1	1	0	10	1019.1	+4	SW	2	2	10	92	6	1	7	1	56	43	31	-	-	4.6						
	Felixstowe ... 15	*	+16	WSW	2	2	43	92	4	1	1	0	9	*	+2	SW	3	3	10	92	6	1	1	1	56	42	38	-	-	3.8						
	Gorleston ... 5	1016.6	+10	SW	2	2	44	92	6	1	4	0	4-6	1018.0	+10	SSW	3	3	10	92	6	1	1	2	57	43	39	Tr	-	*						
	Mildenhall ... 19	1016.3	+8	SW	3	3	44	85	6	5	7	7-8	7-8	1016.8	+2	SSW	4	4	10	92	6	1	1	1	55	42	35	-	-	3.5						
	Cranwell ... 240	1013.9	+2	SSW	5	5	47	85	6	1	7	0	9	1014.5	+2	SSW	4	4	10	92	6	1	1	1	52	41	37	-	Tr	3.4						
3	Birmingham ... 535	*	*	*	*	*	*	*	*	*	*	*	*	1014.8	+4	S	3	3	10	92	7	5	1	1	52	44	41	-	-	1.2						
	Upper Heyford ... 408	1015.6	-2	SSW	3	3	43	85	6	1	7	0	4-6	1016.3	+2	SW	4	4	10	92	7	5	1	1	53	42	39	-	Tr	*						
4	Ross-on-Wye ... 223	*	*	*	*	*	*	*	*	*	*	*	*	1014.7	0	S	3	3	10	92	7	5	1	1	55	46	40	-	Tr	4.1						
5	Hartland Point ... 299	1013.6	-4	SW	5	5	52	92	6	5	2	0	9	1014.1	+12	SW	5	5	10	92	7	5	1	1	52	51	49	0.2	-	3.6						
	Bristol ... 209	1015.3	-2	SW	4	4	50	85	6	5	1	0	9	1016.2	+10	SW	3	3	10	92	7	6	2	1	53	45	39	Tr	1	2.1						
	Portland Bill ... 32	1016.4	+4	SW	4	4	53	85	7	4	0	7-8	7-8	1017.1	+4	SW	4	4	10	92	7	5	1	1	54	50	*	-	-	3.7						
	Plymouth ... 82	1015.8	-2	WSW	6	6	54	92	6	5	1	0	10	1016.0	+2	W	4	4	10	92	6	5	1	1	55	51	46	-	Tr	3.7						
	The Lizard ... 240	1015.8	0	SW	5	5	53	97	7	6	1	0	10	1016.6	+10	SW	5	5	10	92	7	5	2	1	54	51	*	-	-	5.1						
	Seilly (St. Mary's) ... 163	1014.8	-2	W/S	4	4	54	97	7	6	1	0	10	1015.1	+2	SW/W	4	4	10	92	7	5	2	1	57	51	*	-	0.1	4.7						
	Guernsey ... 175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*					
6	Pembroke ... 142	1011.9	+2	SW	6	6	54	97	7	8	1	0	9	1012.8	+4	SW/S	5	5	10	92	7	6	1	1	53	47	*	Tr	Tr	3.5						
7	Holyhead/Valley ... 26	1008.7	-2	S	7	7	53	97	7	5	2	0	7-8	1009.8	+10	S	7	7	10	92	7	6	2	1	51	47	45	1	0.3	*						
	Chester/Sealand ... 16	1010.9	-6	SSE	3	3	50	92	6	5	1	0	10	1011.1	+2	SSE	2	2	10	92	6	5	7	1	53	46	47	0.1	0.6	2.7						
8	Manchester ... 235	1011.4	-8	SE	4	4	47	85	7	5	1	0	4-6	1011.8	+4	SSE	4	4	10	92	6	5	2	1	51	46	41	Tr	Tr	*						
10	Spurn Head ... 29	1013.8	+4	SSW	4	4	46	85	6	5	1	0	10	1013.0	0	S/W	4	4	10	92	6	5	4	1	51	44	*	-	-	5.1						
	Catterick ... 175	1010.8	-6	E/N	3	3	46	85	5	5	1	0	10	1010.5	+2	SSE	3	3	10	92	6	5	2	1	48	46	44	0.1	Tr	0.0						
	Tynemouth ... 108	1008.9	-6	S	5	5	47	85	6	2	1	0	10	1008.9	0	SW	4	4	10	92	6	8	1	1	40	47	43	-	2	*						
11	St. Abbs Head ... 280	1004.7	-20	S	4	4	45	92	7	5	2	0	7-8	1005.5	+18	SW	5	5	10	92	7	5	2	1	50	51	*	-	1	*						
	Leuchars ... 36	1003.9	-6	SE	1	1	45	97	6	5	1	0	10	1004.3	+14	SW	1	1	10	92	6	5	2	1	54	44	37	0.1	2	5.3						
12	Renfrew (Abbots I.) ... 19	1003.2	-14	SW/S	4	4	52	92	6	6	2	0	4-6	1005.5	+14	SW	3	3	10	92	6	5	2	1	46	49	43	Tr	5	0.0						
	Esksdalemuir ... 794	*	*	*	*	*	*	*	*	*	*	*	*	1005.8	+10	SW	5	5	10	92	7	5	1	1	45	42	41	Tr	11	0.2						
	Point of Ayre ... 30	1006.0	-6	SW/W	5	5	54	92	7	6	2	0	4-6	1006.9	+6	SW	5	5	10	92	7	8	2	1	54	46	*	0.2	3	1.4						
13A	Tiree ... 22	1008.6	+16	SW	4	4	52	92	7	5	1	0	7-8	1001.8	+16	SSW	2	2	10	92	7	5	1	1	50	46	*	0.2	5	3.4						
13B	Stornoway ... 80	1004.3	-8	S	7	7	52	92	7	5	7	0	7-8	1003.5	+12	SSW	5	5	10	92	7	5	7	1	50	47	*	0.1	0.3	0.0						
15	Dalwhinnie ... 1176	*	*	*	*	*	*	*	*	*	*	*	*	1003.8	+12	S	1	1	10	92	7	8	1	1	47	41	36	-	0.2	4.1						
	Aberdeen ... 79	*	*	*	*	*	48	*	*	*	*	*	*	1003.9	+12	SSW	3	3	10	92	7	5	1	1	50	46	43	0.1	0.5	0.0						
	Wick ... 119	1009.2	-18	SE	5	5	47	85	6	5	1	0	9	1001.9	+28	SSW	2	2	10	92	7	8	7	1	52	46	44	Tr	1	0.0						
16	Sumburgh ... 30	1001.7	-22	SSE	6	6	48	92	6	6	1	0	10	1001.3	+10	S	5	5	10	92	7	6	2	1	48	47	46	8	3	0						
17	Blacksod Point ... 18	1002.0	+22	W	6	6	53	92	7	5	1	0	10	1003.2	+6	-	0	0	10	92	7	3	3	1	56	47	*	S	Tr	*						
18	Malin Head ... 84	1009.9	+16	SW	4	4	53	92	6	6	1	0	9	1003.1	+10	SW	1	1	10	92	7	5	1	1	48	43	*	1	1	0.0						
	Aldergrove ... 268	1003.6	+6	SW	3	3	53	92	6	6	1	0	10	1005.4	+8	SSW	1	1	10	92	7	6	1	1	48	47	42	2	3	1.1						
19	Birr Castle ... 173	*	*	*	*	*	55	*	*	*	*	*	*	1005.2	-6	S	1	1	10	92	7	6	1	1	51	51	50	1	4	1.3						
20	Valentia Obay. ... 30	1006.7	+6	SW/S	5	5	55	97	6	5	1	0	8	1005.7	-10	SW/S	4	4	10	92	7	6	1	1	*	*	*	*	*	*						
	Roches Point ... 22	1008.9	0	SSW	5	5	53	92	8	5	1	0	9	1008.2	0	S/W	5	5	10	92	7	6	1	1	53	51	*	1	2	*						

LONDON OBSERVATIONS.

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

Height above  
M.S.L. in feet.

18  
217  
149  
City (Bunhill Row) ...  
27  
168  
110  
80  
450

Weather.

Morning. Afternoon. Night.

24 hrs. ended 9h.

bcmw  
bcm bc  
bcm  
.  
.  
bc  
bc  
bc

bcmg  
bcmw  
bcm  
.  
.  
bc  
bc  
.

bcmwb  
bcmw  
cw  
.  
.  
.  
.  
o

Temperature.

Day Max. Night Min. Min. on Grass °F.

53 43 31  
57 43 36  
55 41 30  
.  
.  
55 44 38  
54 43 38  
55 42 32  
53 41 37

Rainfall.

Day. Night.

- - 0.1  
- -  
- -  
.  
-  
Tr  
Tr  
- -

Sun-  
shine,  
to  
Sunset.  
hrs.

Humidity.  
15h. G.M.T. %  
9h. G.M.T. %

6.1 . .  
5.3 73 87  
3.9 73 87  
70 82  
77 87  
79 89  
97

Atmospheric Pollution.  
Milligrams of Solid Impurity  
per cubic metre.

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

SOUTH KENSINGTON.

Max. Time. Min. Time.

Kew Observatory.

Max. Time. Min. Time.

0.2 17.20-10.1 1-6h  
23rd 24th

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 18.  
THE BEAUFORT SCALE OF WIND is used  
only for surface observations. In the ac-  
companying table the speed of the wind  
corresponding with the different numbers is  
the speed at about 30 feet above the ground.

Beaufort  
No.

Statute  
m/h.

Bouffort  
No.

Statute  
m/h.

Beaufort  
No.

Statute  
m/h.

0 1 4 13-18 9 47-54  
1 1-3 5 19-24 10 56-63  
2 4-7 6 25-31 11 64-75  
3 8-12 7 32-38 12 75  
8 39-46

COLUMN 30—Code for  
State of Sea.

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

COLUMNS 3, 22 — Code for  
surface visibility.

Objects not visible at

0 Dense fog 55 yards.  
1 Thick fog 220 "  
2 Fog 550 "  
3 Moderate fog 1,100 "  
4 Mist or haze 1½ miles.  
5 Poor visibility 2½ "  
6 Moderate " 6¼ "  
7 Good " 12½ "  
8 Very good " 31 "  
9 Excellent " beyond 31m.

COLUMNS 34, 35.  
Tr. = rain has fallen, but amount less  
than 0.1 mm.

FOREIGN OBSERVATIONS.

Evening of 23rd November.....  
Morning of 24th November.....  
Past 24 Hours.

STATIONS.

Reykjavik (18h and 07h) ...  
Lisbon (18h and 07h) ...  
Madrid (18h and 07h) ...  
Cairo (Heliopolis) (18h and 06h) ...  
Toronto (13h and 01h) ...  
Washington (13h and 01h) ...

Barom.  
mb.

Wind.  
Direc. Force.

Weather.

Temp.  
°F.

Barom.  
mb.

Wind.  
Direc. Force.

Weather.

Temp.  
°F.

Max.  
Day  
°F.

Min.  
Night  
°F.

Rainfall.  
Day  
mm. Night  
mm.

977.6 E 5 bc 39 968.3 SE 5 bc 41 \* \* \* \*  
100.4 WSW 4 Z. 42 1018.9 W'S 2 b 54 \* \* \* \*

‡ Pressure at 1,000 dynamic metres level.

‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h.

† Sea disturbance reported from Dungeness.

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

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

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



AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
BRITISH SECTION  
Tuesday 25th November 1941.  
No. 29223

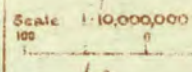
OBSERVATIONS at 13h. G.M.T. Monday 24th														OBSERVATIONS at 18h. G.M.T. Monday 24th														PAST 24 HOURS.									
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.				Barom. at M.S.L. mb.	Change in 8 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. 0-9	Cloud.				State of Ground. 0-9	Sea. 0-9	WEATHER.									
				Dir.	Force.					Form.	Amount.	Height of Base. (feet)	Form.			Amount.	Height of Base. (feet)					7h.—13h. 24th	13h.—18h. 24th	18h.—25th 1h. 25th	1h.—7h. 25th												
																												Low.	Med.	High	Low	Total	Low	Total	Low	Total	
1	London (Kew) ...	1018.8	-2	SSW	3	id	53	92	6	5	-	-	10	10	1500	1019.6	+6	SSW	3	20	52	92	6	5	-	-	10	10	1500	1	*	id	cm	cm	id	id	
	Croydon ...	1019.4	0	SW	3	id	53	92	7	6	-	-	3	10	600	1019.5	+2	SW	4	52	92	6	5	-	-	10	10	1500	1	*	id	cm	cm	id	id		
	S. Farnborough	1019.0	-4	SW	4	id	54	92	7	6	-	-	4	10	1000	1019.0	+4	SW	3	53	92	7	5	7	-	9	10	1200	1	*	id	cm	cm	id	id		
	Boscombe Down	1018.5	-4	SSW	5	c	56	85	7	5	7	1	10	9	2000	1018.5	+6	SW	5	53	92	7	5	2	-	7	10	900	1	*	id	cm	cm	id	id		
	Thorney Island	1019.6	-4	SW	4	id	54	92	6	5	-	-	10	10	450	1020.0	+2	SW	5	53	92	6	5	-	-	10	10	400	1	*	id	cm	cm	id	id		
	Lympne ...	1021.7	0	S	3	id	51	97	6	5	-	-	10	10	100	1020.7	+2	S	2	51	97	5	-	2	-	10	10	100	1	*	cm	cm	cm	cm			
	Manston ...	1020.7	+2	SW	3	id	52	97	6	5	-	-	10	10	1000	1021.2	+10	SSW	4	51	97	6	5	-	-	10	10	500	1	*	cm	cm	cm	cm			
2	Shoeburyness ...	1019.8	-2	SW	3	c	52	92	7	5	-	-	10	10	700	1020.1	+4	S	3	51	97	5	5	-	-	10	10	900	1	*	cm	cm	cm	cm			
	Felixstowe ...	1019.8	-2	SW	4	c	52	85	7	5	-	-	10	10	1500	1019.8	+4	SW	4	50	97	6	5	-	-	10	10	400	1	*	cm	cm	cm	cm			
	Gorleston ...	1019.1	+2	SW	2	c	53	85	6	5	-	-	4	6	2000	1019.3	+6	S	4	51	92	6	5	-	-	10	10	1500	1	*	cm	cm	cm	cm			
	Mildenhall ...	1018.1	+2	SW	4	z	55	85	6	5	-	-	10	10	8000	1018.0	+2	SE	4	53	92	6	5	-	-	10	10	4500	1	*	cm	cm	cm	cm			
	Cranwell ...	1015.3	+2	SSW	5	c	55	85	8	5	-	-	10	10	4500	1015.2	-8	S	4	52	85	6	5	-	-	9	9	2000	0	*	cm	cm	cm	cm			
3	Birmingham	1017.8	-4	SSW	4	c	55	85	7	8	7	8	4.5	9	2500	1014.5	0	SSW	4	54	85	7	-	7	-	0	9	-	1	*	id	cm	cm	cm			
	Upper Heyford	1016.3	-10	SW	3	c	55	75	8	5	7	6	1	9	900	1016.6	+4	SW	4	53	85	7	5	-	-	9	9	1200	1	*	id	cm	cm	cm			
4	Ross-on-Wye ...	1015.2	0	SW	5	c	57	75	7	6	1	8	7.8	9	3000	1014.9	0	S	4	55	85	7	5	-	-	10	10	2500	1	*	id	cm	cm	cm			
5	Hartland Point	1013.9	-10	WSW	5	c	56	85	7	5	6	2	9	9	2000	1012.7	-2	SW	5	56	75	7	5	4	-	4	6	7	8	2000	1	*	id	cm	cm	cm	
	Bristol ...	1016.7	-4	SSW	4	c	56	75	7	5	-	-	10	10	4000	1016.3	+10	SSW	5	55	85	7	5	2	-	9	10	4000	1	*	id	cm	cm	cm			
	Portland Bill	1015.2	-6	S	3	o	54	92	7	5	-	-	10	10	2500	1017.8	+2	S	4	53	92	7	5	-	-	10	10	2500	1	*	id	cm	cm	cm			
	Plymouth	1017.0	-2	SW	4	c	55	92	6	5	-	-	10	10	3500	1015.9	0	SW	6	55	92	6	5	1	-	9	9	2000	0	5	cm	cm	cm	cm			
	The Lizard	1016.8	-4	SW	5	o	55	92	7	5	-	-	10	10	1000	1015.5	+14	SW	6	55	92	8	4	4	-	4	6	4	1500	0	5	cm	cm	cm	cm		
	Soilly (St. Mary's)	1014.9	-10	SW	5	c	55	92	7	5	-	-	9	9	1500	1012.4	-12	SW	5	53	92	6	5	-	-	9	9	1500	1	*	id	cm	cm	cm			
	Guernsey	1014.9	-10	SW	5	c	55	92	7	5	-	-	9	9	1500	1012.4	-12	SW	5	53	92	6	5	-	-	9	9	1500	1	*	id	cm	cm	cm			
6	Pembroke	1012.9	0	SW	6	c	55	92	6	8	-	-	9	9	2500	1010.8	-4	SW	8	55	97	7	8	-	-	7	8	2500	1	4	cm	cm	cm	cm			
7	Holyhead (Valley)	1009.5	-2	SSW	6	id	54	92	5	5	-	-	10	10	300	1007.3	-14	SE	6	54	92	6	5	-	-	10	10	1000	1	6	id	cm	cm	cm			
	Chester (Sealand)	1011.6	-6	SE	3	z	58	75	6	5	7	-	4	6	10	1200	1011.1	-4	SE	3	56	75	7	5	7	-	2	3	2500	1	*	cm	cm	cm	cm		
8	Manchester	1012.6	-6	S	4	c	55	85	6	5	3	-	4	6	2500	1012.4	-2	S	5	55	85	7	5	7	-	4	6	10	3000	1	*	id	cm	cm	cm		
10	Spurn Head	1014.3	+4	SSW	4	c	51	92	6	5	7	-	7	8	9	2500	1014.8	0	SE	4	50	92	6	5	1	-	4	6	7	8	1500	0	3	c	c	c	c
	Catterick	1011.3	-4	SW	3	z	55	85	5	5	1	-	7	8	10	1200	1011.3	0	SW	4	55	75	5	5	2	-	9	10	2200	1	*	c	cm	cm	cm		
	Tynemouth	1009.7	+2	SSW	4	z	55	85	6	8	-	-	9	9	1700	1009.8	-6	SSW	5	56	75	6	5	-	-	7	8	2000	1	3	bc	c	c	c	c		
11	St. Abbs Head	1007.0	+8	SW	3	c/r	52	97	7	8	4	-	4	6	9	1000	1006.0	-6	SW	6	55	92	7	5	4	-	4	6	7	8	1500	1	3	r	id	cm	cm
	Leuchars	1005.6	-2	-	0	r/o	52	97	6	5	2	-	4	6	10	600	1004.4	0	SE	3	54	92	6	5	-	-	10	10	1200	1	*	id	cm	cm	cm		
12	Reafrew (Abbots L.)	1015.3	-14	SE	2	r/f	52	92	3	5	-	-	10	10	1000	1004.1	-2	SE	4	55	85	5	5	7	-	7	8	3	2000	1	*	id	cm	cm	cm		
	Eskdalemuir	1006.7	-6	SSW	6	r/o	51	97	5	2	-	-	10	10	1150	1007.0	+2	SW	6	51	97	5	-	2	-	10	10	220	1	*	id	cm	cm	cm			
	Point of Ayre	1007.4	-2	SW	7	c	56	92	8	5	7	-	1	10	2500	1006.4	-6	SW	6	55	85	7	6	4	-	2	3	7	8	1000	1	4	id	cm	cm	cm	
13A	Tiree ...	1001.9	-16	SSW	2	dodo	52	97	7	5	-	-	10	10	1800	996.1	-30	SSW	4	53	92	7	5	-	-	9	9	1500	1	5	id	cm	cm	cm			
13B	Stornoway	1000.9	0	SSW	5	c	50	85	8	5	7	-	7	8	10	2000	997.8	-20	SE	5	49	82	7	8	1	-	7	8	10	1500	1	3	c	c	c	c	
15	Dalwhinnie	1004.8	-2	S	3	pr	48	85	7	6	-	-	9	9	2500	1002.5	-12	SSW	5	51	92	7	8	-	-	9	9	2500	1	*	c	cm	cm	cm			
	Aberdeen	1006.2	-2	SSW	2	c	52	92	6	5	7	-	4	6	9	1100	1004.5	-10	SSW	4	52	97	5	5	-	-	9	9	1100	1	*	id	cm	cm	cm		
	Wick ...	1004.1	+4	S	3	c	49	85	8	7	-	-	0	9	-	1001.4	-20	SE	3	50	92	5	5	2	-	10	10	1600	1	7	id	cm	cm	cm			
16	Sumburgh	1004.5	+10	SSW	4	c	49	97	7	5	7	-	2	2	10	4000	1003.8	-6	S	3	49	92	7	5	1	-	7	8	10	2500	1	*	id	cm	cm	cm	
17	Blackod Point...	997.7	-42	S	4	ir	52	92	7	6	-	-	10	10	800	991.1	-56	S	8	53	92	7	5	-	-	10	10	800	1	*	id	cm	cm	cm			
18	Malin Head	1000.8	-26	S	1	ir	51	92	6	3	-	-	9	9	800	995.9	-26	SE	6	50	75	7	6	-	-	9	9	800	1	5	id	cm	cm	cm			
	Aldergrove	1004.4	-14	S	3	dodo	55	97	6	6	2	-	9	9	900	1001.5	-18	SE	4	54	85	7	5	3	-	2	3										



## AVIATION WEATHER CODE

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
 ww, W = Present and past weather—See M.O. 252.  
 h, N<sub>h</sub> = Height and amount of low cloud—See M.O. 252.  
 N = Total amount of cloud—See M.O. 252.  
 G, C<sub>N</sub> = Form of low and medium cloud—See page 1.  
 V = Visibility. F = Force of wind—See page 1.  
 DD = Direction of wind (E, 16 = S, 24 = W, 32 = N).

15° 982 980 Low 5" W 7h. Tuesday 25th November 1941



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

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

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

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

## GENERAL INFERENCE.

Pressure is high from the Azores to Spain. A deep depression north of Faeroes is moving away northwards and a ridge of higher pressure will give a mainly fine interval over most of the British Isles. A new depression is expected to move rapidly eastwards on the Atlantic and cause stormy conditions to spread from the west tomorrow.

### FURTHER OUTLOOK.

A period of rain and strong winds in the east.  
Changeable generally

Forecasts issued at 10.30h.  
H.M.S.O. Press, Meteorological Office Dunstable.

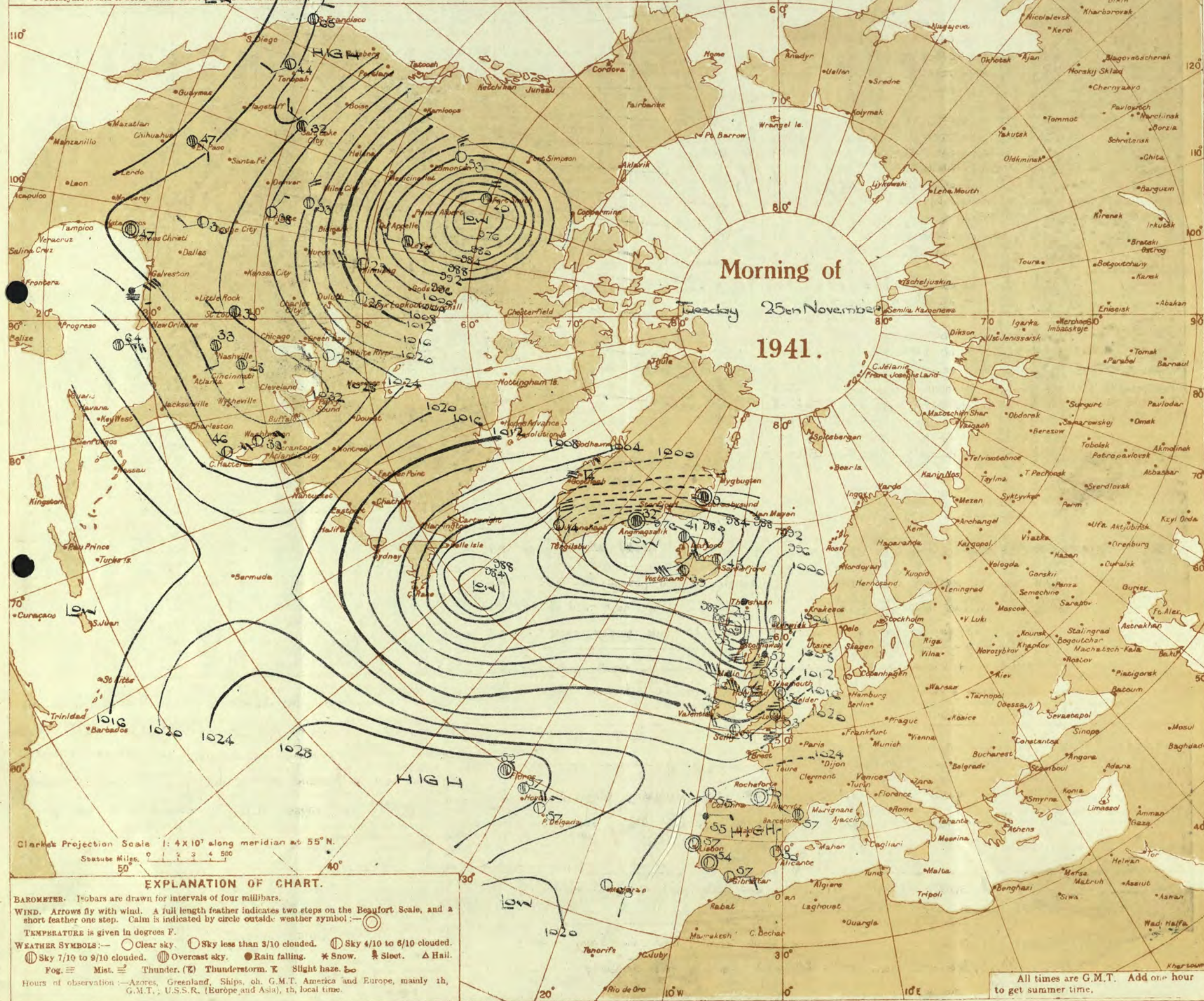
N. K. JOHNSON. D.Sc., A.R.C.S.  
Director.



# 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 at the foot of page 2.)  
**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.





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 25th November 1941.  
No. 29223.

OBSERVATIONS at 1 hr. G.M.T. 25th November														OBSERVATIONS at 7 hr. G.M.T. 25th November														PAST 24 HOURS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.					State of Ground.	TEMPERATURE.			RAINFALL.		Sun-shine 24 Hrs.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
					Dir.	Force.					Low.	Med.	High.	Low.	Med.			High.	Low.					Med.	High.	Low.	Med.	High.		Max. Day 7h-18h °F.	Min. Night 18h-7h °F.	Min. on Grass °F.	Day 7h-18h mm.	Night 18h-7h mm.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
																																				0-12	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10	0-10



AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
BRITISH SECTION  
Wednesday 26th Nov. 1941.  
No. 29,224.

OBSERVATIONS at 13h. G.M.T. 25th November														OBSERVATIONS at 18h. G.M.T. 25th November														PAST 24 HOURS.															
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. m.	Cloud.				Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. m.	Cloud.				Barom. at M.S.L. mb.	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility. m.	WEATHER.									
				Dir.	Force.					Form.	Amount.	Height of Base. (feet)	Dir.			Force.	Form.					Amount.	Height of Base. (feet)	Dir.	Force.			Form.	Amount.					Height of Base. (feet)	Dir.	Force.	Form.	Amount.	Height of Base. (feet)	7h.—18h. 25th.	13h.—18h. 25th.	18h.—25th 26th.	1h.—7h. 26th.
1	London (Kew)...	1023.1	+18	HLW	1	20	52	75	6	2	7	2-3	9	1500	1026.5	+18	SSW	1	bft	41	85	3	-	-	-	0	0	-	1	*	rdcbmo	czobf	befx	esobef									
	Croydon ...	1023.0	+12	WSW	1	20	50	85	6	9	7	2-3	10	3500	1026.5	+22	SW	1	bct+	42	92	3	-	-	-	0	46	-	1	*	doirm	cmof	bfbm	bfbm									
	S. Farnborough	1023.2	+14	NW	2	2	51	65	8	8	7	-	1	9	1500	1027.8	+20	-	0	43	92	6	-	-	-	0	23	-	1	*	cmof	cmof	bfbm	bfbm									
	Boscombe Down	1023.5	+16	NW	2	2	50	75	7	-	7	-	0	7-8	-	1027.0	+22	W	1	44	85	6	-	-	-	0	0	-	1	*	cmof	cmof	bfbm	bfbm									
	Thorney Island	1022.9	+16	NW	2	20	52	85	6	5	7	-	0	9	7200	1026.5	+26	ENE	1	45	92	4	-	-	-	0	Tr	-	1	*	cmof	cmof	bfbm	bfbm									
	Lympe	1022.6	+3	NW	2	20	48	97	7	5	2	-	7-8	10	800	1026.3	+20	-	0	46	97	4	-	-	-	0	9+	-	1	*	cmof	cmof	bfbm	bfbm									
	Manston	1022.5	+12	-	0	10	48	97	6	5	2	-	7-8	10	600	1026.3	+20	NW	1	47	97	4	5	7	-	-	-	2-3	10	7000	1	*	cmof	cmof	bfbm	bfbm							
2	Shoeburyness ...	1022.6	+12	-	0	CL	50	92	6	6	7	-	0	10	1700	1026.0	+20	-	0	45	92	4	-	-	-	0	7-8	-	1	*	cmof	cmof	bfbm	bfbm									
	Felixstowe ...	1022.1	+12	W	1	10	49	92	6	5	-	-	10	10	2500	1025.9	+26	W	1	48	85	5	-	-	-	0	9+	-	1	*	cmof	cmof	bfbm	bfbm									
	Gorleston ...	1021.0	+10	NW	2	10	50	92	6	6	-	-	10	10	800	1025.0	+16	W	1	49	85	5	5	-	-	-	10	10	1000	-	2	cidof	sfcaz	sfcaz	bfbm								
	Mildenhall ...	1022.0	+16	NW	3	20	50	85	6	5	7	2	2-3	9	2500	1025.4	+20	WSW	2	40	85	5	-	-	-	0	4-6	-	1	*	cmof	cmof	bfbm	bfbm									
	Cranwell ...	1021.3	+14	W	3	20	49	75	5	-	3	2	0	7-8	-	1024.8	+24	W	2	41	97	6	-	-	-	0	0	-	0	*	cmof	cmof	bfbm	bfbm									
3	Birmingham	1021.9	+14	WSW	3	2	48	75	8	5	7	-	1	9	2500	1025.6	+20	WSW	2	44	85	6	-	-	-	0	0	-	1	*	bce	bce	bfbm	bfbm									
	Upper Heyford	1022.6	+18	NW	3	2	50	65	8	-	3	9	0	7-8	-	1026.1	+22	WSW	1	43	85	6	-	-	-	0	Tr	-	1	*	bce	bce	bfbm	bfbm									
4	Ross-on-Wye ...	1022.3	+12	WSW	2	2	51	65	8	1	2	9	2	7-8	3500	1025.8	+20	SW	1	44	75	8	-	-	-	0	0	-	1	*	bce	bce	bfbm	bfbm									
5	Hartland Point	1023.5	+12	WSW	3	bc	51	65	8	2	4	-	2-3	4-6	2000	1026.3	+16	WSW	3	48	75	8	2	4	-	-	-	2-3	4-6	2000	1	3	ccirbc	bce	bce	bce							
	Bristol ...	1023.4	+12	WSW	3	2	51	65	7	-	7	6	0	9	-	1026.3	+14	WSW	1	44	75	6	5	-	-	-	Tr	Tr	4000	1	4	ccirbc	bce	bce	bce								
	Portland Bill ...	1023.2	+12	WSW	2	2	51	92	8	5	-	-	10	10	4000	1026.5	+12	W	2	51	85	8	2	-	-	-	-	-	-	-	4	2	ccirbc	bce	bce	bce							
	Plymouth ...	1024.7	+12	NW	2	20	50	75	6	2	3	2	2-3	4-6	2000	1027.5	+18	-	0	43	92	4	1	-	-	-	-	-	-	-	2	2	ccirbc	bce	bce	bce							
	The Lizard ...	1024.4	+14	NW	3	bc	54	75	8	2	-	-	-	-	-	1027.2	+8	NW	3	48	85	8	8	4	-	-	-	-	-	-	3	3	ccirbc	bce	bce	bce							
	Scilly (St. Mary's)	1024.9	+16	NW	3	bc	56	65	8	1	4	-	-	-	-	1027.3	+18	WSW	2	47	75	8	2	4	-	-	-	-	-	-	1	3	ccirbc	bce	bce	bce							
	Guernsey ...	1024.9	+16	NW	3	bc	56	65	8	1	4	-	-	-	-	1027.3	+18	WSW	2	47	75	8	2	4	-	-	-	-	-	-	1	3	ccirbc	bce	bce	bce							
6	Pembroke ...	1023.4	+24	W	5	bc	51	92	8	2	-	-	-	-	-	1025.9	+12	WSW	3	50	75	8	2	-	-	-	-	-	-	-	3	3	ccirbc	bce	bce	bce							
7	Holyhead (Valley)	1021.1	+20	SW	4	bc	50	65	9	2	-	-	-	-	-	1023.3	+14	SW	3	47	65	8	1	-	-	-	-	-	-	-	4	4	ccirbc	bce	bce	bce							
	Chester (Sealand)	1021.2	+18	SW	3	bc	53	55	8	2	-	-	-	-	-	1024.6	+16	WSW	2	42	85	4	-	-	-	-	-	-	-	-	-	1	1	ccirbc	bce	bce	bce						
8	Manchester ...	1021.3	+14	SW	3	2	49	75	7	2	3	8	1	7-8	2500	1024.9	+18	SW	1	41	92	6	-	-	-	-	-	-	-	-	-	1	1	ccirbc	bce	bce	bce						
10	Spurn Head ...	1020.5	+12	W	5	20	50	75	6	5	7	2	4-6	4-6	2500	1024.3	+12	W	3	45	85	7	-	-	-	-	-	-	-	-	0	3	ccirbc	bce	bce	bce							
	Catterick ...	1019.7	+22	WSW	4	pr	48	65	8	8	-	-	-	-	-	1023.5	+38	SE	2	41	85	7	5	-	-	-	-	-	-	-	0	0	ccirbc	bce	bce	bce							
	Tynemouth ...	1017.7	+20	WSW	4	pr	50	65	7	4	3	-	-	-	-	1022.8	+28	WSW	3	44	75	5	-	-	-	-	-	-	-	-	0	0	ccirbc	bce	bce	bce							
11	St. Abbs Head	1014.6	+14	W	5	bc	46	75	8	1	4	-	-	-	-	1019.1	+8	SW	3	41	85	8	4	4	-	-	-	-	-	-	2-3	4-6	2500	1	3	ccirbc	bce	bce	bce				
	Leuchars ...	1013.9	+22	WSW	5	bc	47	85	7	3	-	-	-	-	-	1018.4	+26	-	0	38	97	6	-	-	-	-	-	-	-	-	-	0	0	ccirbc	bce	bce	bce						
12	Reafrow (Abbots L.)	1016.2	+24	WSW	4	bc	48	65	7	0	6	-	-	-	-	1019.3	+18	SW	2	43	75	7	4	-	-	-	-	-	-	-	-	1	1	ccirbc	bce	bce	bce						
	Eskdalemuir ...	1016.8	+16	WSW	5	bc	43	75	8	7	-	-	-	-	-	1020.9	+16	SW	3	35	85	8	7	-	-	-	-	-	-	-	-	Tr	Tr	2500	1	4	ccirbc	bce	bce	bce			
	Point of Ayre ...	1017.5	+28	W	5	bc	49	75	8	5	-	-	-	-	-	1021.8	+18	WSW	2	41	85	8	4	-	-	-	-	-	-	-	-	Tr	Tr	4000	1	4	ccirbc	bce	bce	bce			
13a	Three ...	1013.0	+30	WSW	4	bc	45	75	8	8	-	-	-	-	-	1013.7	+6	WSW	5	48	75	8	8	-	-	-	-	-	-	-	-	-	-	-	-	6	6	ccirbc	bce	bce	bce		
13b	Stornoway ...	1008.0	+24	SW	5	bc	45	75	8	3	6	-	-	-	-	1011.3	+8	WSW	6	43	85	8	3	6	-	-	-	-	-	-	-	-	-	-	-	3	3	ccirbc	bce	bce	bce		
15	Dalwhinnie ...	1013.0	+30	SW	3	2	39	75	7	5	-	-	-	-	-	1018.5	+14	SW	3	36	85	8	2	-	-	-	-	-	-	-	-	-	-	-	-	2	2	ccirbc	bce	bce	bce		
	Aberdeen ...	1013.2	+24	-	0	bc	47	75	8	7	3	3	1	2-3	2100	1017.5	+24	WSW	1	41	85	7	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	ccirbc	bce	bce	bce		
	Wick ...	1009.2	+36	SW	3	bc	46	65	9	3	3	1	2-3	4-6	3000	1013.1	+22	SW	3	39	85	8	5	-	-	-	-	-	-	-	-	-	-	-	-	1	1	ccirbc	bce	bce	bce		
16	Sumburgh ...	1005.3	+36	WSW	6	CL	47	85	8	3	-	-	-	-	-	1011.2	+26	WSW	4	45	85	8	2	-	-	-	-	-	-	-	-	-	-	-	-	5	5	ccirbc	bce	bce	bce		
17	Blackad Point...	1016.8	+14	WSW	5	2	49	65	8	2	6	-	-	-	-	1015.8	-10	S	5	50	65	7	9	-	-	-	-	-	-	-	-	-	-	-	-	0	0	ccirbc	bce	bce	bce		
18	Malin Head ...	101																																									



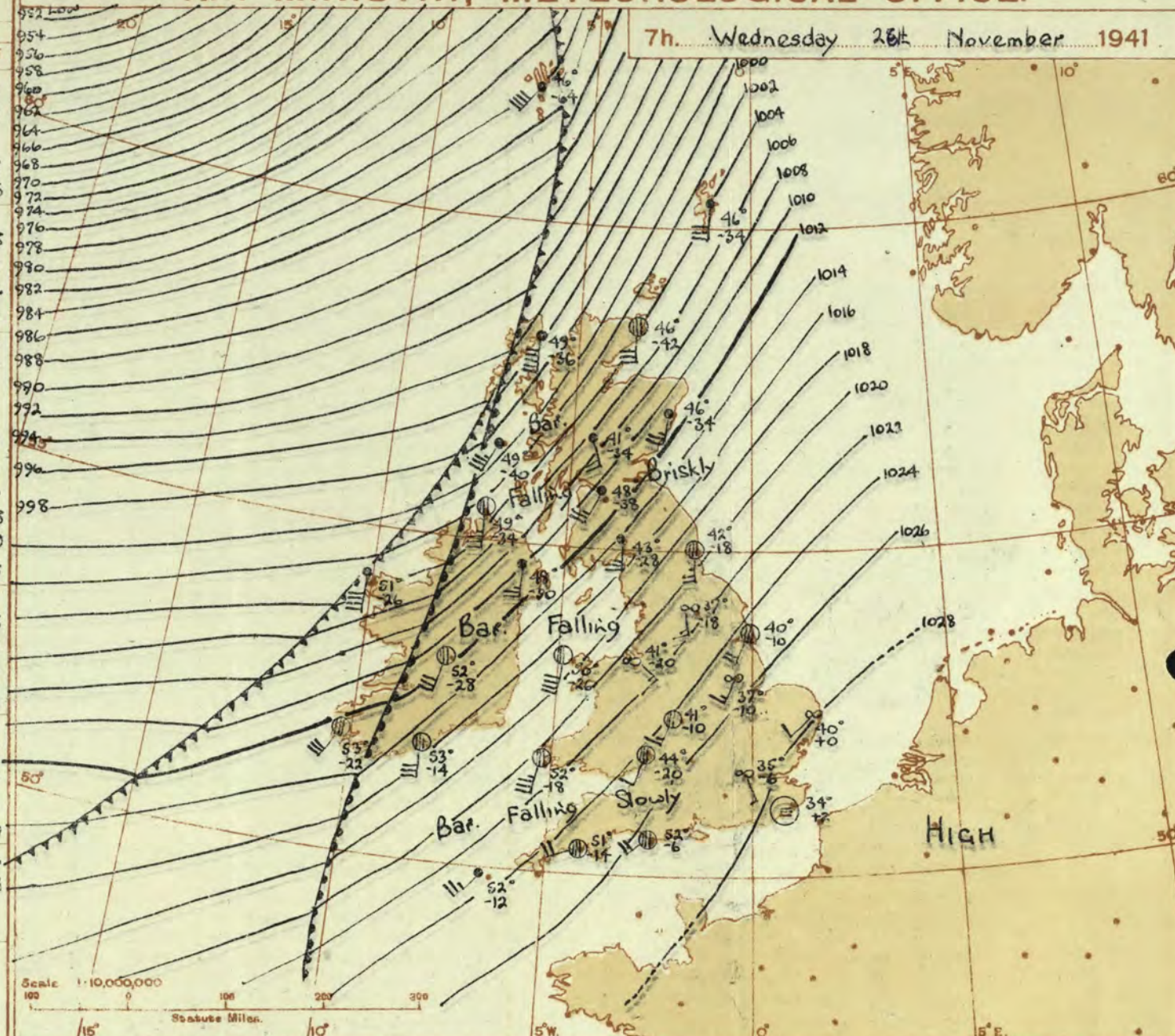
Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T.	15h. G.M.T.	18h. G.M.T.	01h. G.M.T.	04h. G.M.T.	07h. G.M.T.
III C <sub>1</sub> wwVhN <sub>1</sub> DDFWN <sub>1</sub>	C <sub>2</sub> wwVhN <sub>2</sub> DDFWN <sub>2</sub>	C <sub>3</sub> wwVhN <sub>3</sub> DDFWN <sub>3</sub>	C <sub>4</sub> wwVhN <sub>4</sub> DDFWN <sub>4</sub>	C <sub>5</sub> wwVhN <sub>5</sub> DDFWN <sub>5</sub>	C <sub>6</sub> wwVhN <sub>6</sub> DDFWN <sub>6</sub>
109 36 10853 53684	82 00732 18382	50 00851 40501	52 02753 47668		
115 57 88834 18687	87 02044 20586	54 02844 16585	52 81844 16487		
203	9- 02035 20725				
206 3- 81244 22884	50 00552 22482	52 02853 33328	52 41855 22568		
210 87 01952 53504	00 00830 18200	01 02830 50517	57 02363 47625		
220	80 01854 25414				
230	8- 25847 50487	5- 02757 18427	52 62644 40668		
245 24 01964 53414	40 00851 31241	01 05630 50418	52 61655 51668		
260 36 01854 20405	50 00761 10381	07 02730 20518	07 22730 51664		
278 20 00852 22402	40 00731 20301	01 02730 51518	52 02763 50568		
279 20 01853 22513	40 00852 22302	01 02730 18327	52 22754 51668		
285 23 01854 22413	23 01853 28414		27 02725 24387		
288 87 02853 22315	00 00563 16201	00 05630 18300	02 08430 51318		
575 50 00857 22321		02 02830 40528	52 61745 14568		
301 36 10854 22485	20 01754 24314	00 05630 15400	52 22665 16568		
321 07 05630 20225	02 08430 16120	00 05630 18200	00 05530 18316		
299 54 05553 22204	00 00730 22200		50 05654 22114		
292 27 01853 22215	00 00730 21180	00 05530 15200	01 43330 14248		
310 -- 0643 24313	-- 0642 24212		-- 67103 24349		
614 07 05530 22115	00 08430 22120	03 43330 00041	01 45230 20248		
333 20 00961 24401	00 00830 24100	50 01852 18514	52 02855 17768		
334	-- 01862 30203		-- 03557 23228		
340 00 01850 24214	00 00830 16110	00 08430 16300	5- 08458 14348		
136 07 05630 24366	07 05530 24225	00 45330 22140	03 41430 18247		
336 24 01752 24414	20 01762 24312		52 02753 20228		
350	07 05630 22112	00 08430 20200	00 05630 16205		
308 23 01852 24384	04 05530 24191	50 05652 23212	52 02744 24227		
279 03 02850 22217	04 05630 20121		02 02730 22307		
390 37 05546 24368	07 05330 22124	00 47230 00040	-- 44200 17149		
382 17 02852 26315	00 08430 00000	00 45330 00041	01 04630 10207		
428 8- 25735 28253			01 01782 14102		
430 57 05654 26267	07 05630 28113	00 05630 32101	50 24113 36363		
400 20 01854 26314	20 00851 26112	00 05630 16203	52 05654 18418		

III - Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W - Present and past weather—See M.O. 252.  
h, N<sub>h</sub> - Height and amount of low cloud—See M.O. 252.  
N - Total amount of cloud—See M.O. 252.  
C<sub>1</sub>, C<sub>2</sub> - Form of low and medium cloud—See page 1.  
V - Visibility—See page 1.  
DD - Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Wednesday 26th November 1941



DISTRICTS.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Wednesday 26th November 1941
1 S.E. England	Light southwest wind increasing to moderate; fair at first apart from local fog; cloudy later with slight rain; becoming rather mild.
2 E. England	
3 E. Midlands	
4 W. Midlands	
5 S.W. England	Light or moderate southwest wind freshening, increasing to gale on western coasts; fair at first apart from local fog; cloudy with rain spreading from west; rather mild.
6 South Wales	
7 North Wales	
8 N.W. England	As 11-16
9 N. Midlands	
10 N.E. England	Moderate southwest wind freshening; becoming cloudy with rain spreading from west today; showers and bright intervals later; mild at first becoming colder.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man	Fresh or strong southwest wind, gale at exposed places, cloudy with rain spreading from west today, showers and bright intervals later; mild at first becoming colder.
13 A. W. Scotland	
13 B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	
18 N. E. Ireland	Fresh or strong southwest wind, gale at times on coast; bright intervals and showers today but rain at first in east; further rain spreading from southwest tomorrow; becoming cooler today, milder tomorrow.
19 S. E. Ireland	
20 S. W. Ireland	

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

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.

GENERAL INFERENCE.

An intense depression just off southwest Iceland is moving north-northeast and an associated trough over our western seaboard is moving east. Another depression north of the Azores will deepen and move quickly northeast. Rain will spread eastwards across the country today followed by showers in the Northwest, but rainfall in the Southeast will be slight. Gales will occur in the West and severe gales in the North.

FURTHER OUTLOOK.

Unsettled: West to southwest winds continuing with further rain spreading from west. Gale warning in operation in districts 5 (part) 6, 7, 8, 11, 12, 13 (part) 15, 16, 17, 18, 19 and 20. Times of issue 1930, 2325 on 23/11/41 and 0610 on 26/11/41

Forecasts issued at 10.30h.

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

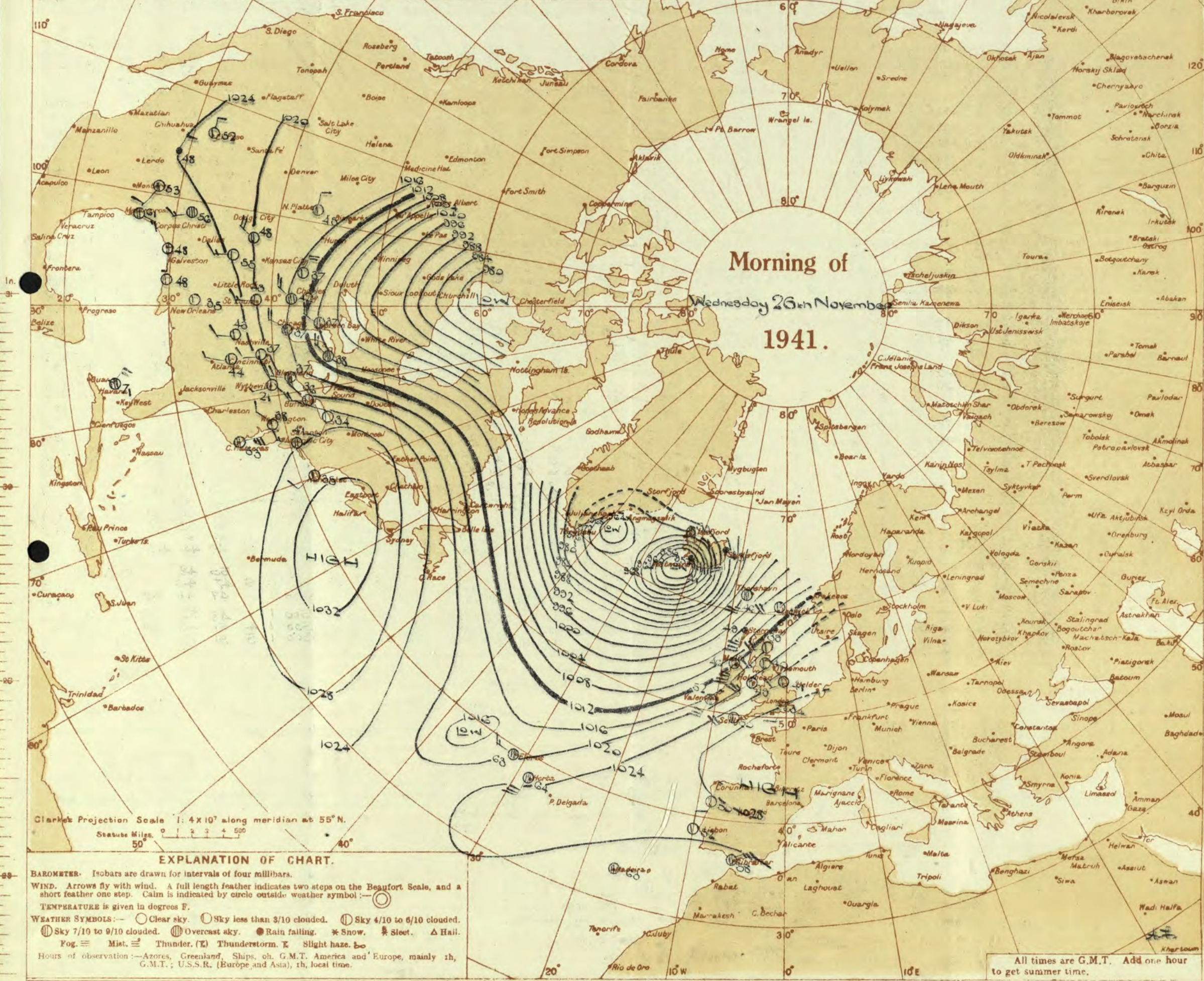
H.M.S.O. Press, Meteorological Office, Dunstable.



# 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 at the foot of page 2.)  
**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.





AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 26th Nov. 1941.

No. 29224.

OBSERVATIONS at 1 hr. G.M.T. 26th November														OBSERVATIONS at 7 hr. G.M.T. 26th November														PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.				Barom. at M.S.L. (15)	Change in 3 hours.	Wind.		Weather.	Temp. °F.	Humid. %	Visibility.	Cloud.				State of Ground.	Sea.	TEMPERATURE.		RAINFALL.		SUNSHINE Hrs.				
					Direc.	Force.					Form.	Amount.	Height of Base. (feet).	Direc.			Force.	Form.					Amount.	Height of Base. (feet).	Max. Day 7h-13h °F.	Min. Night 13h-7h °F.			Min. on Grass °F.	Day 7h-13h mm.	Night 13h-7h mm.						
																																0-12		0-10	0-10	0-10	0-10
1	London (Kew)	18	1028.1	+8	SSW	2	b	36	97	4	-	-	-	1027.6	-2	-	0	F	32	97	1	-	-	-	10	10	150	1	53	31	24	0	Tr	0.0			
	Croydon	217	1027.8	+8	SSW	2	b	34	97	4	-	-	-	1027.4	-6	SSW	2	b	35	97	6	-	-	-	2	0	40	1	54	34	23	4	-	0.0			
	S. Farnborough	226	1027.8	-2	SE	1	b	32	97	2	-	-	-	1027.3	-2	SE	1	b	36	97	5	-	-	-	5	0	40	1	51	29	21	1	-	0.0			
	Boscombe Down	417	1028.1	-2	E	1	b	36	97	5	-	-	-	1027.0	-6	SE	2	b	33	97	4	-	-	-	5	0	40	1	50	31	25	1	Tr	1.1			
	Thorney Island	10	1028.0	+2	NE	1	b	33	97	5	-	-	-	1027.3	-4	ENE	2	b	36	97	6	-	-	-	1	2-3	4000	0	55	32	28	4	-	0.0			
	Lymington	346	1028.0	+8	WNW	1	b	35	97	3	-	-	-	1028.2	+2	-	0	b	34	97	7	-	-	-	2	0	1	1	53	33	22	1	Tr	0.0			
	Manston	154	1028.1	+6	WNW	1	b	37	92	5	-	-	-	1028.6	+2	-	0	b	35	97	4	-	-	-	2	0	1	1	54	34	22	6	Tr	0.0			
2	Shoeburyness	11	1027.7	+12	-	0	b	37	97	3	-	-	-	1028.0	+2	WNW	1	b	31	97	2	-	-	-	0	0	-	3	53	30	24	3	-	0.0			
	Felixstowe	15	1029.0	+20	WNW	1	b	40	97	4	-	-	-	1028.0	0	-	0	b	32	97	2	-	-	-	0	0	-	1	51	31	27	2	Tr	0.0			
	Gorleston	5	1027.3	+8	W	2	b	41	92	6	-	-	-	1027.1	-2	SW	2	b	40	85	6	-	-	-	0	0	-	2	52	38	34	2	Tr	0.0			
	Mildenhall	19	1027.1	+6	SSW	2	b	36	97	4	-	-	-	1026.8	-2	SSW	2	b	35	83	4	-	-	-	0	2-3	-	1	55	32	27	1	Tr	0.1			
	Cranwell	240	1026.5	+4	WSW	1	b	34	97	4	-	-	-	1024.0	-10	SSW	3	b	37	92	5	-	-	-	0	9+	-	0	50	33	27	Tr	-	1.1			
3	Birmingham	535	1026.9	+4	S	1	b	37	97	3	-	-	-	1024.2	-10	SSW	3	b	41	85	6	-	-	-	0	9+	-	1	49	36	32	-	-	3.3			
	Upper Heyford	408	1026.9	+4	S	1	b	37	97	3	-	-	-	1026.2	-6	SE	1	b	36	97	3	-	-	-	0	9+	-	1	51	34	32	0.1	-	-			
4	Ross-on-Wye	223	1026.9	+4	S	1	b	37	97	3	-	-	-	1023.7	-20	SSW	2	b	44	85	7	-	-	-	0	10	-	1	53	34	-	-	-	-			
5	Hartland Point	299	1025.4	-10	SW	3	b	46	75	8	5	-	-	Tr	Tr	2500	1022.9	-16	SSW	3	b	49	75	8	5	2	3	9+	2500	1	3	52	43	4.1	Tr	4.4	
	Bristol	209	1027.2	-4	SW	2	b	43	92	6	-	-	-	0	0	-	1025.4	-12	SSW	2	b	45	85	5	7	-	1	4-6	2500	1	52	34	29	Tr	1.6		
	Portland Bill	32	1027.8	0	W	3	b	48	92	8	2	-	-	7-8	7-8	4000	1026.0	-6	SW	4	b	52	92	8	5	-	7-8	7-8	4000	1	4	55	46	-	-		
	Plymouth	82	1027.5	-6	SE	1	b	37	97	6	5	-	-	2-3	2-3	2600	1025.1	-14	WSW	4	b	51	75	6	5	-	10	10	3000	1	3	54	31	-	Tr	4.8	
	The Lizard	240	1026.3	-8	SW	5	b	43	75	8	8	-	-	4-6	4-6	2600	1024.5	-10	SW	5	b	51	75	8	8	2	3	10	1500	0	4	54	46	-	-	6.2	
	Scilly (St. Mary's)	163	1025.6	+18	SW	4	b	50	75	8	8	-	-	2-3	2-3	1500	1024.2	-12	SW	5	b	52	85	8	8	2	7-8	10	1500	1	4	55	47	-	0.1		
	Guernsey	175	1025.6	+18	SW	4	b	50	75	8	8	-	-	2-3	2-3	1500	1024.2	-12	SW	5	b	52	85	8	8	2	7-8	10	1500	1	4	55	47	-	0.1		
6	Pembroke	142	1024.2	-16	SW	5	b	51	92	7	2	-	-	2-3	2-3	4000	1021.0	-18	SSW	7	b	52	97	7	8	4	3+	9+	4000	1	4	52	47	-	1	5.0	
7	Holyhead (Valley)	26	1022.0	-18	SW	5	b	49	75	8	5	-	-	5	2-3	4-6	2500	1017.6	-26	SW	8	b	50	85	8	5	2	7-8	10	1500	1	6	55	46	4.1	Tr	3.9
	Chester (Sealand)	16	1024.5	-6	SE	2	b	36	92	5	-	-	-	0	0	-	1021.4	-20	SE	3	b	41	85	5	-	-	10	10	-	0	53	35	27	-	Tr	3.9	
8	Manchester	235	1024.6	-8	S	3	b	38	92	5	-	-	-	0	0	-	1022.6	-12	S	4	b	42	92	6	-	-	10	10	3000	1	50	37	31	-	Tr	*	
10	Spurn Head	29	1025.9	+2	SW	2	b	41	92	7	-	-	-	0	0	-	1024.8	-10	SSW	4	b	40	92	7	5	2	7-8	9+	2500	0	2	50	39	-	-	1.4	
	Catterick	175	1024.0	-6	SSW	3	b	38	85	5	-	-	-	5	0	2-3	-	1021.1	-18	S	3	b	37	92	5	5	2	7-8	10	3100	1	50	34	29	0.1	-	4.4
	Tynemouth	108	1023.3	-4	WSW	3	b	40	85	6	-	-	-	0	0	-	1020.1	-18	S	5	b	42	85	6	5	-	10	10	1500	1	3	51	39	35	-	-	*
11	St. Abba Head	280	1020.7	0	SW	4	b	38	92	7	4	-	-	2-3	2-3	2500	1014.7	-24	S	5	b	43	85	7	5	2	7-8	10	1500	1	3	40	37	-	-	5.8	
	Leuchars	36	1012.8	-16	SW	2	b	41	92	6	5	7	-	2-3	10	2500	1012.7	-26	SSW	5	b	46	85	6	5	7	7-8	10	1800	1	4	47	38	29	Tr	3.4	
12	Renfrew (Abbots I.)	19	1007.2	-22	S	4	b	45	75	7	5	-	-	1	4-6	2000	1011.0	-28	SSW	5	b	48	75	6	5	1	7-8	7-8	2500	1	4	48	41	34	-	0.6	
	Eskdalemuir	794	1007.2	-22	S	4	b	45	75	7	5	-	-	1	4-6	2000	1011.0	-28	SSW	5	b	48	75	6	5	-	10	10	800	1	4	48	41	25	-	2	5.3
	Point of Ayre	30	1020.6	-12	SW	3	b	45	85	8	4	-	-	6	Tr	9+	2500	1015.6	-26	SW	6	b	51	75	7	5	2	10	10	1500	1	4	49	37	-	Tr	6.1
13A	Tiree	22	1008.3	-36	S	9	b	49	85	7	8	7	-	9	10	1500	1001.6	-40	SSW	7	b	49	97	6	8	2	10	10	1200	1	6	48	46	-	1	2.7	
13B	Stornoway	80	1003.1	-56	S	9	b	49	85	7	8	7	-	9	10	1500	1001.6	-40	SSW	7	b	49	97	6	8	2	10	10	1500	1	7	46	43	-	2	1.4	
15	Dalwhinnie	1176	1007.8	-34	SE	4	b	41	92	6	5	2	-	7-8	10	1500	1007.8	-34	SE	4	b	41	92	6	5	2	7-8	10	1500	1	7	41	36	31	5	3	1.3
	Aberdeen	79	1011.6	-34	SW	5	b	46	85	6	2	-	-	4-6	10	300	1011.6	-34	SW	5	b	46	85	6	2	-	4-6	10	300	1	5	44	33	27	-	0.1	
	Wick	119	1012.1	-18	SSW	5	b	44	75	8	-	-	-	7	0	10	-	1005.2	-42	S	6	b	46	85	7	5	2	7-8	10	3000	1	5	47	44	-	0.1	
16	Sumburgh	30	1012.5	-6	SSW	4	b	46	85	8	-	-	-	0	0	-	1006.8	-34	S	6	b	46	85	7	5	2	7-8	10	1500	1	5	49	44	42	3	Tr	*
17	Blackad Point	18	1008.9	-36	S	7	b	50	92	6	6	-	-	10	10	800	1002.5	-26	S	8	b	51	97	7	6	-	10	10	800	2	50	48	-	0.2	27	*	
18	Malin Head	84	1010.3	-34	S	7	b	46	65	7	8	-	-	9+	9+	800	1002.9	-34	S	7	b	49	75	7	5	-	3										



AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
METEOROLOGICAL OFFICEThursday 27th November 1941.  
No. 22225

OBSERVATIONS at 13h. G.M.T. 26th November														OBSERVATIONS at 18h. G.M.T. 26th November														PAST 24 HOURS.						
DISTRICT.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 8 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	° Humid. (7)	Visibility. 0-9 (8)	Cloud.				Barom. at M.S.L. mb. (15)	Change in 8 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	° Humid. (21)	Visibility. 0-9 (22)	Cloud.				Barom. at M.S.L. mb. (29)	State of Ground. (30)	Sea. (31)	WEATHER.					
				Dirce. (3)	Force. (4)					Form. (9)	Amount. (10)	Height of Base. (feet) (11)	Form. (23)			Amount. (24)	Height of Base. (feet) (25)					Form. (27)	Amount. (28)	7h.—13h. 26th (37)	13h.—18h. 26th (38)				18h.—20h. 26th (39)	20h.—7h. 27th (40)				
1	London (Kew)...	1025.5	-18	WS	2	20	48	85	6	-	7	1	0	9	1023.2	-4	S	3	20	48	85	6	5	7	9	1500	1	1	Fenfc	cmo	cbcmw	bcw bny		
	Croydon ...	1025.8	-18	SSW	3	C	50	75	6	5	7	2	1	9	1024.0	-2	S	2	40	85	85	4	5	7	10	10	5000	1	1	bcfcgem	cmo	cmid	cid	
	S. Farnborough	1025.4	-20	SSW	4	20	51	85	6	7	7	-	9	3000	1023.5	-10	S'W	3	20	47	85	6	5	7	10	10	5000	1	1	bcfcgem	cmo	cmid	cid	
	Boscombe Down	1024.6	-24	S	3	20	48	85	6	7	7	-	9	2000	1022.6	-14	S'E	3	20	47	82	6	5	7	10	10	5000	1	1	CFcmo	cmo	cmid	cid	
	Thorney Island	...	...	SSW	3	C	51	85	6	7	7	-	9	4000	1023.6	-10	S'W	3	20	48	85	6	5	7	10	10	5000	1	1	CFcmo	cmo	cmid	cid	
	Lympe	1027.6	-14	S	2	20	51	75	6	7	7	-	9	4200	1025.1	-4	SSW	2	20	48	85	6	5	7	10	10	5000	1	1	bcfc	cmo	cmid	cid	
	Manston	1027.4	-6	SSW	2	20	51	75	6	7	7	-	9	4200	1025.1	-4	SSW	2	20	48	85	6	5	7	10	10	5000	1	1	bcfc	cmo	cmid	cid	
2	Shoeburyness	1026.3	-16	S	3	C	50	75	6	-	7	-	9	4	1024.7	-4	S	3	20	47	82	6	5	7	10	10	5000	1	1	BFfc	cmo	cmid	cid	
	Felixstowe	1026.3	-18	SSW	3	20	49	85	6	-	7	7	0	9	1024.4	-4	S	3	20	47	82	6	5	7	10	10	5000	1	1	BFfc	cmo	cmid	cid	
	Gorleston	1025.4	-20	SSW	3	20	47	85	6	5	7	-	9	4000	1024.4	-4	S'W	3	20	48	85	6	5	7	10	10	5000	1	1	bcfc	cmo	cmid	cid	
	Mildenhall	1025.0	-14	S	3	20	48	85	6	-	7	2	0	9	1022.7	-8	SSW	3	20	47	85	6	5	7	10	10	5000	1	1	bcfc	cmo	cmid	cid	
	Cranwell	1022.4	-22	S'W	4	20	48	85	6	5	7	6	0	9	1020.2	-2	SSW	3	20	47	85	6	5	7	10	10	5000	1	1	CFcmo	cmo	cmid	cid	
3	Birmingham	1021.6	-14	S	3	C	47	85	7	5	7	-	9	1500	1019.8	-8	SSW	3	20	48	85	7	5	7	10	10	5000	1	1	CFcmo	cmo	cmid	cid	
	Upper Heyford	1022.8	-24	S	4	C	50	75	7	5	7	-	9	4000	1022.0	-6	SSW	3	20	47	82	6	5	7	10	10	5000	1	1	CFcmo	cmo	cmid	cid	
4	Ross-on-Wye	1021.8	-20	SSW	4	C	51	75	8	6	7	-	9	4000	1019.9	-10	S	4	20	49	85	7	5	7	10	10	5000	1	1	CFcmo	cmo	cmid	cid	
5	Hartland Point	1020.9	-20	SSW	5	C	52	75	8	8	4	-	9	2000	1017.6	-18	SW	5	20	51	75	8	5	4	7	23	10	1200	2	4	CFcmo	cmo	cmid	cid
	Bristol ...	1023.4	-20	SSW	3	C	52	75	8	7	7	-	9	3000	1021.5	-2	SSW	5	20	49	75	7	5	7	10	10	5000	1	1	CFcmo	cmo	cmid	cid	
	Portland Bill	1024.0	-22	SSW	4	C	53	85	8	3	7	-	9	4000	1021.6	-14	S	4	20	53	85	8	5	7	10	10	5000	1	1	CFcmo	cmo	cmid	cid	
	Plymouth	1024.0	-18	SSW	5	C	52	85	8	1	7	-	9	1800	1021.1	-8	SSW	6	20	52	75	7	5	7	10	10	5000	1	1	CFcmo	cmo	cmid	cid	
	The Lizard	1023.9	-8	SSW	6	C	53	75	8	2	-	9	1500	1020.3	-12	SSW	7	20	52	85	7	8	2	-	9	10	1500	1	1	CFcmo	cmo	cmid	cid	
	Soilly (St. Mary's)	1021.1	-18	SW	5	C	53	75	8	5	7	-	9	1500	1017.1	-10	SW'S	5	20	52	85	7	5	7	10	10	1200	1	1	CFcmo	cmo	cmid	cid	
	Guernsey	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
6	Pembroke	1018.3	-20	SSW	8	Foro	53	97	7	8	6	-	9	10	1015.3	-18	SSW	8	20	53	97	7	8	2	-	9	10	1500	1	5	CFcmo	cmo	cmid	cid
7	Holyhead (Valley)	1018.6	-18	S'W	8	Foro	53	85	7	5	2	-	9	10	1011.9	-22	SSW	8	20	52	85	7	5	7	10	10	1500	1	7	CFcmo	cmo	cmid	cid	
	Chester (Sealand)	1017.6	-18	SSW	4	C	50	85	7	5	7	-	9	10	1016.2	-12	S	3	20	50	75	6	5	7	10	10	1500	1	1	CFcmo	cmo	cmid	cid	
8	Manchester	1018.3	-26	S'W	7	C	48	85	7	5	7	-	9	10	1016.7	-10	S	5	20	49	85	6	5	7	10	10	1500	1	1	CFcmo	cmo	cmid	cid	
10	Spurn Head	1022.0	-22	S'W	4	20	46	92	6	5	-	9	9	2500	1020.0	-4	S	4	20	46	92	6	5	-	9	9	2500	0	3	CFcmo	cmo	cmid	cid	
	Catterick	1017.4	-30	S'E	4	20	48	75	5	3	2	-	9	10	1015.1	-14	S	4	20	49	75	6	5	7	10	10	1400	1	1	CFcmo	cmo	cmid	cid	
	Tynemouth	1014.6	-38	SSW	6	20	47	85	5	5	-	9	9	2400	1013.3	-6	SW	6	20	50	75	6	8	-	9	9	1000	1	4	CFcmo	cmo	cmid	cid	
11	St. Abbs Head	1010.3	-26	S	5	C	47	92	8	5	2	-	9	2000	1006.7	-16	SSW	7	20	51	85	7	5	7	10	10	1500	1	3	CFcmo	cmo	cmid	cid	
	Leuchars	1007.5	-22	SSW	5	Foro	51	92	7	5	7	-	9	2100	1005.1	-8	SW	7	20	52	85	8	5	7	10	10	2200	1	1	CFcmo	cmo	cmid	cid	
12	Renfrew (Abbots L.)	1007.5	-18	SSW	6	Foro	53	85	7	6	2	-	9	10	1005.3	-10	SSW	5	20	54	75	7	5	2	-	9	10	2100	1	1	CFcmo	cmo	cmid	cid
	Eskdalemuir	1010.8	-32	S'W	7	Foro	47	97	5	-	2	-	9	450	1008.4	-14	S'W	8	20	47	92	4	-	2	-	9	10	4150	1	1	CFcmo	cmo	cmid	cid
	Point of Ayre	1012.2	-12	S'W	7	Foro	53	85	7	6	2	-	9	10	1009.9	-6	SW	6	20	52	85	7	6	2	-	9	10	500	1	4	CFcmo	cmo	cmid	cid
13A	Three	998.5	-14	SSW	7	Foro	52	97	6	-	2	-	9	10	936.4	-10	SSW	7	20	52	97	6	2	-	9	10	1200	1	7	CFcmo	cmo	cmid	cid	
13B	Stornoway	992.2	-12	S	10	Foro	51	97	6	6	2	-	9	10	930.5	-4	S	9	20	52	97	6	6	2	-	9	10	500	1	7	CFcmo	cmo	cmid	cid
15	Dalwhinnie	1002.8	-20	SSW	4	Foro	47	85	6	5	-	9	10	1500	999.8	-6	SW	6	20	49	85	6	5	1	-	9	10	1500	1	1	CFcmo	cmo	cmid	cid
	Aberdeen	1006.9	-22	S'W	4	Foro	48	85	6	6	7	-	9	10	1004.7	-10	S'W	4	20	52	85	6	6	7	-	9	10	900	1	1	CFcmo	cmo	cmid	cid
	Wick	1000.2	-26	S'E	6	C	49	85	7	5	7	-	9	2000	997.6	-6	S'W	7	20	53	75	8	5	2	-	9	10	2000	1	1	CFcmo	cmo	cmid	cid
16	Sumburgh	1001.1	-26	S'W	8	Foro	48	92	6	6	2	-	9	10	997.4	-16	S	6	20	50	92	6	6	2	-	9	10	1200	1	6	CFcmo	cmo	cmid	cid
17	Blacksod Point	997.1	-16	S	8	Foro	52	97	6	6	-	9	10	800	996.8	-16	S	8	20	53	97	6	6	-	9	10	450	2	7	CFcmo	cmo	cmid	cid	
18	Malin Head	1000.0	-12	S'W	8	C	53	75	6	6	-	9	9	800	997.9	-10	S	8	20	52	85	6	6	-	9	9	800	0	6	CFcmo	cmo	cmid	cid	
	Aldergrove	1006.9	-22	S	6	Foro	52	85	7	5	2	-	9																					



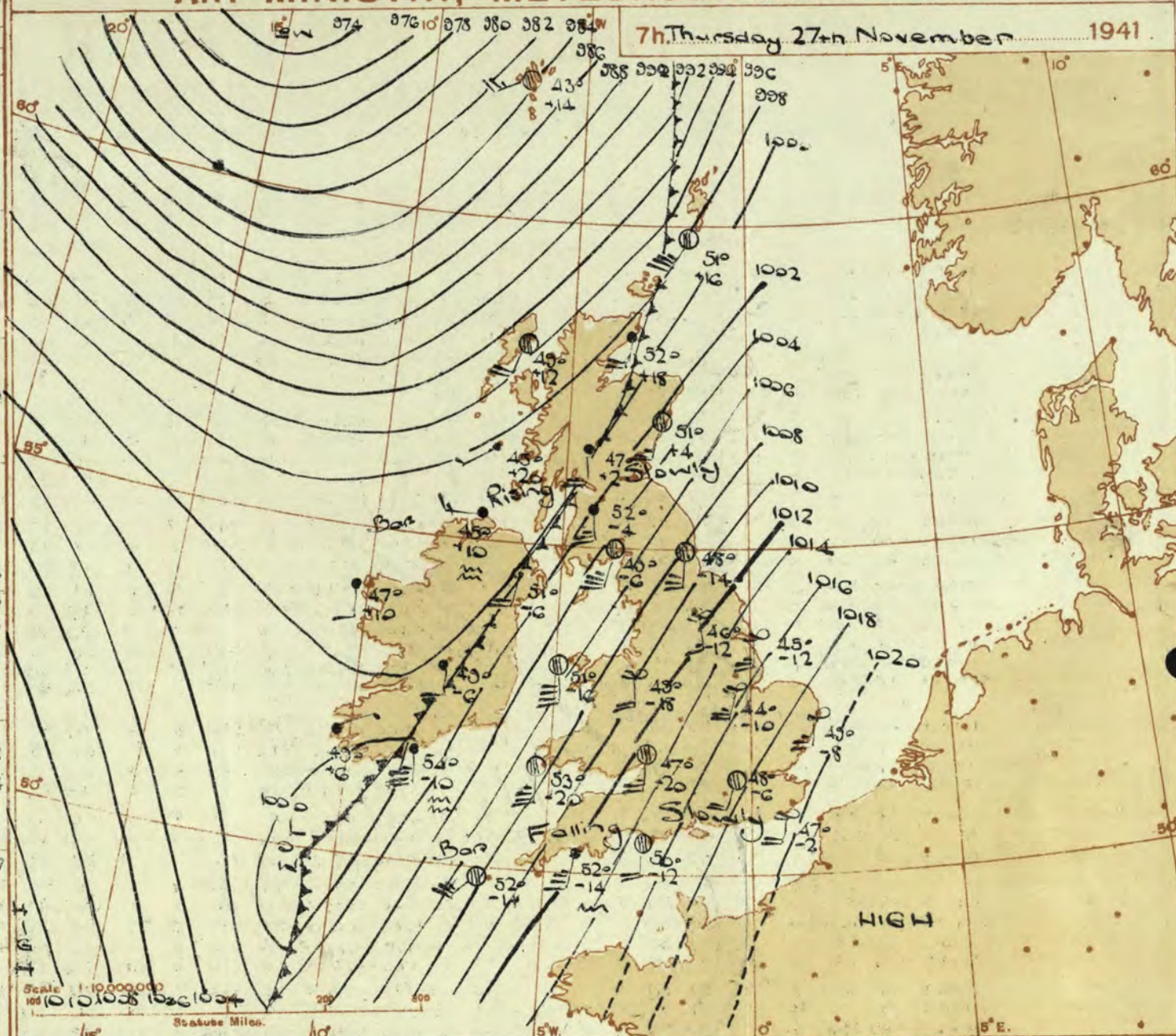
Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 26th November 18h. G.M.T.				01h. G.M.T. 27th November 07h. G.M.T.			
III C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>h</sub> C <sub>M</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>h</sub> C <sub>M</sub>	wwVhN <sub>h</sub>
109 62	03690	48728	52	03656	47528	5-	01764
115 52	62734	53787	87	81734	53887	52	61844
203 6-	64738	16868	6-	64738	49808	6-	64738
206 52	61254	53667	52	02855	53368	52	61855
210 87	02967	49627	57	02954	50626	03	01990
220 62	04525	20768	32	64525	20768		
230 62	65647	11668	62	54625	51758	62	64636
245 57	22745	16668	5-	14657	53728	5-	61758
260 5-	51748	19768	57	51644	51758	57	02874
278 52	22736	49568	52	05637	49528	52	02745
279 52	63757	51768	62	21644	53768	5-	05658
285 22	03745	18628	6-	22637	20567		
288 52	05661	49528	53	05655	51627	51	05665
301 07	05590	17528	51	05544	17728	52	05655
321 02	05690	18428	57	05664	51428	57	05655
299 52	05654	20316	5-	05645	22425	5-	05644
292 52	08443	14348	57	05653	12527	51	02763
310 614	05590	51427	52	05544	51528	51	05664
333 52	22746	16728	51	02745	49768	52	02745
334 -	61647	26528	-	02647	22628	-	03647
340 57	02652	49528	57	02765	49428	51	02654
136 07	05690	19427	07	05590	17528	03	05690
336 52	02753	20428	52	02753	20428		
360 57	05651	16427	57	05663	18428	57	05644
368 57	02856	20467	57	02754	16428	57	02745
379 57	02764	18427	57	05652	16526	57	05643
390 07	01590	18247	57	43346	18228	5-	41448
382 57	02753	17426	57	05643	16427	57	05653
408 05	01675	22415				5-	14747
430 57	02861	18427	03	05630	18126		
109 57	02843	18667	57	02744	17627	5-	02758

III = Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W = Present and past weather—See M.O. 252.  
h, N<sub>h</sub> = Height and amount of low cloud—See M.O. 252.  
N = Total amount of cloud—See M.O. 252.  
C<sub>h</sub> C<sub>M</sub> = Form of low and medium cloud—See page 1.  
V = Visibility—See page 1.  
DD = Direction of wind—E, 16 = S, 24 = W, 32 = N.

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h. Thursday 27th November 1941



DISTRICTS.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. Thursday 27th November 1941

1 S.E. England	Moderate or fresh S. to S.W. wind veering W. later mainly cloudy, some rain tonight; rather mild today, temperature falling later.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	Fresh S.W. wind, strong to gale on coast, becoming westerly or variable light later; cloudy, rain later; rather mild at first, temperature falling later.
5 S.W. England	
6 South Wales ...	
7 North Wales ...	Strong S.W. wind, gale on coast, veering N.W. later; cloudy with rain at first, bright periods later; mild, becoming cooler.
8 N.W. England	
9 N. Midlands ...	
10 N.E. England	As 4.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	
13B. N.W. Scotland	
14 Mid Scotland	Moderate or fresh westerly wind; bright intervals, occasional showers; rather low temperature.
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	Light W. to N.W. wind, becoming moderate; cloudy with rain at first, bright intervals and showers later; cool.
18 N. E. Ireland	
19 S. E. Ireland	As 5-6.
20 S. W. Ireland	As 17-18.

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

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  
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.

GENERAL INFERENCE.

An elongated trough of low pressure from N.E. Scotland to S.W. Ireland is moving slowly east, and a large anti-cyclone to W. and N.W. of the Azores is spreading east. Rain will spread from western districts to most parts of the country reaching E. England during the night. Fair weather apart from occasional showers will spread from the west later.

FURTHER OUTLOOK.

Dull, with further occasional rain at first in the S.E.; bright periods elsewhere with showers in the North. Gale warning in operation in districts 5, 6, 7, 8, 10, 11, 12, 15, 16, 18 and 19. Times of issue:— 2325 on 25/11/41; 0615 and 2225 on 26/11/41

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

Forecasts issued at 1030 G.M.T.  
H.M.S.O. Press, Meteorological Office, 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 at the foot of page 2.)

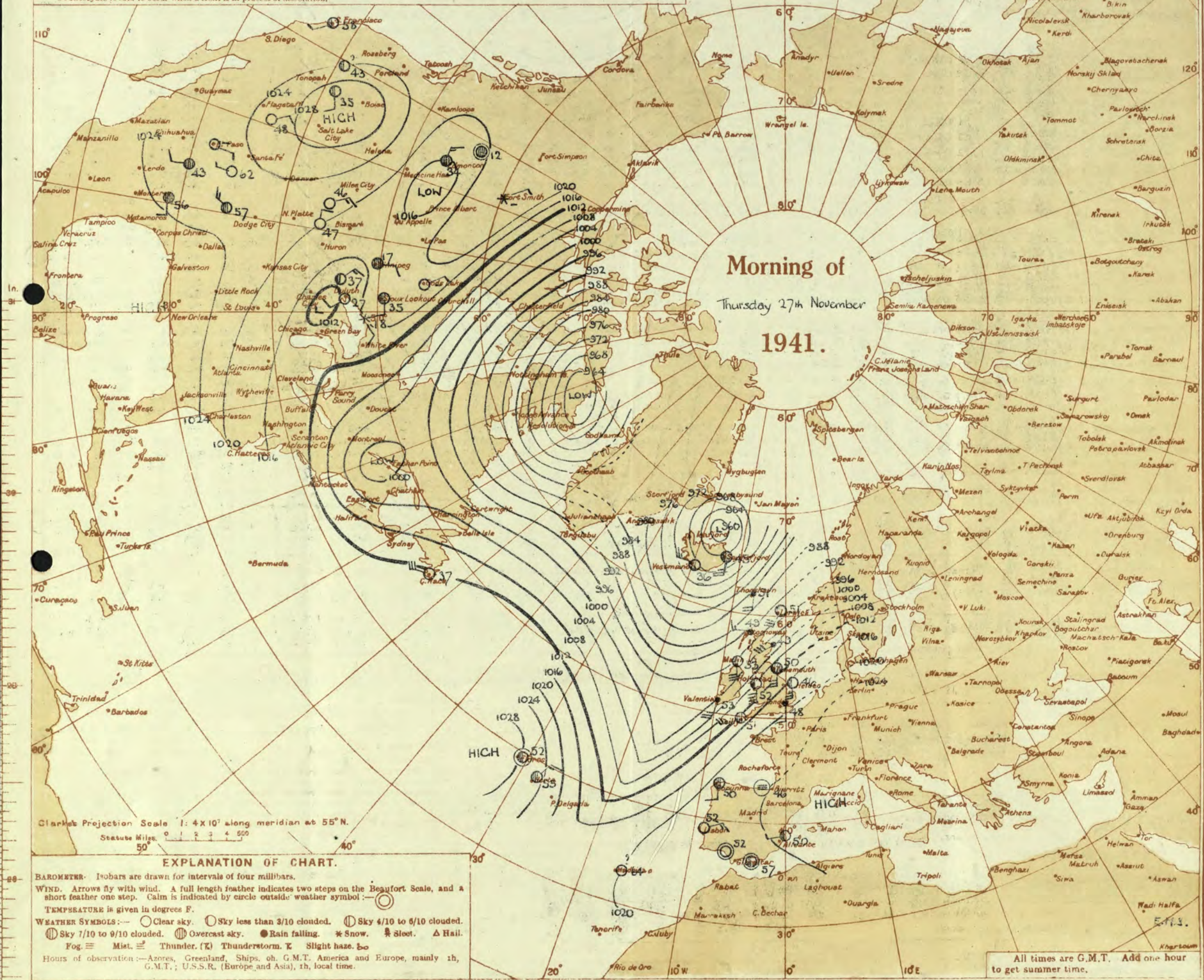
**Warm Front.** The air mass which moves towards this boundary is normally of tropical or sub-tropical origin, while that which moves away from it is normally of polar, sub-polar or maritime polar origin.

**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.





THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Thursday 27th November 1941  
No 29225

[illegible][illegible]

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

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



AIR  
MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

**SECRET**  
BRITISH SECTION  
Friday 28th November 1941.  
No. 29226

OBSERVATIONS at 13h. G.M.T. Thursday 27th.														OBSERVATIONS at 18h. G.M.T. Thursday 27th.														PAST 24 HOURS.							
Discrip.	STATIONS. (For heights see p. 4.)	Barom. M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.				Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.				State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.							
				Dir.	Force. 0-12 (4)					Form.	Amount. Low Total 0-10 0-10 (12) (13)	Height of Base (feet) (14)	Dir.			Force. 0-12 (18)	Form.					Amount. Low Total 0-10 0-10 (26) (27)	Height of Base (feet) (28)	7h.-13h. 27th (37)	13h.-18h. 27th (38)			18h.-27h. 28th (39)	1h.-7h. 28th (40)						
1	London (Kew)...	1014.9	-16	S	4	c	49	75	8	5	7	-	4-6	9	1500	1014.7	-2	SSE	3	z	48	85	6	5	-	-	10	10	2500	1	*	cm,c	cczmo	cmo,c	cmo
	Croydon ...	1016.1	-10	SSW	4	c	48	75	7	5	7	-	7-8	7	1300	1015.1	+2	S	2	z	47	85	5	5	-	-	10	10	2200	1	*	cid,c	cmo	cmo,mo	omdo,do
	S. Farnborough	1015.0	-18	S'E	3	c	49	75	7	5	3	-	7-8	9	2100	1014.2	+2	SE'S	3	c	48	85	6	5	-	-	10	10	2200	1	*	mo,c	ccmo	cmo,cmo	cmo,do
	Boscombe Down	1013.9	-16	S'E	5	c	48	85	8	5	-	-	10	10	1500	1013.0	-2	S'E	4	c	50	92	6	5	-	-	10	10	800	0	*	c	c	cd,do,ddh	cid,cmo
	Thorney Island	1014.9	-6	SSW	4	c	50	85	8	7	5	-	1	9	4000	1014.1	-4	S'E	3	c	51	85	8	5	-	-	4-6	9	2500	0	*	c	c	cid,cmo	dd,do,mo
	Lympe ...	1018.2	-16	S'E	4	c	47	85	7	1	3	-	3	9	800	1017.0	-2	SE	3	z	47	75	6	5	-	-	10	10	600	1	*	bc,mo,c	ccmo	cmo	Cz
	Manston ...	1018.1	-12	S	4	z	48	75	6	5	9	-	4-6	7	1200	1016.8	+2	S'W	4	z	46	85	6	-	3	9	0	9	-	1	*	cmo	cz	cmo	Cz
2	Shoeburyness ...	1016.9	-14	S'E	3	c	49	85	8	-	7	-	0	9	-	1016.5	0	SSE	3	c	47	85	6	5	7	-	4-6	10	1900	1	*	cmo	cmo	cmo	Cz
	Felixstowe ...	1017.2	-14	S	6	z	47	92	6	5	3	-	2-3	9	1400	1016.5	-4	S	5	z	48	85	6	5	-	-	9	9	1800	1	4	cmo	c	cmo	cmo
	Gorleston ...	1018.3	+6	S'W	6	z	48	85	6	5	3	-	4-6	7	800	1016.0	-4	S'E	6	z	47	85	6	5	-	-	9	9	2000	0	5	cmo,q	cy	cmo,w	cmo,mo
	Mildenhall ...	1015.1	-14	S	4	c	51	75	7	5	7	-	4-6	9	2000	1014.8	+6	SSE	4	z	47	85	6	5	3	-	7-8	9	2500	0	*	c	ccmo	cmo,c	cmo,do
	Cranwell ...	1012.1	-22	S	4	c	49	75	7	5	7	-	4-6	9	3000	1012.1	-2	S	6	z	46	85	6	-	3	-	0	4-6	-	0	*	cmo,c	cbcmo	bc,cmo	cmo,do
3	Birmingham	1010.1	-20	S	4	o	49	85	8	5	-	-	10	10	1500	1010.4	0	SSE	4	o	48	92	6	5	-	-	10	10	1500	1	*	co	c	c	cor
	Upper Heyford	1013.1	-14	SSW	4	c	48	85	8	5	7	-	7-8	10	2000	1012.6	-2	S'E	4	c	48	85	7	5	2	-	9	10	1000	1	*	cmo,do,c	c	cid,do	cmo,odm
4	Ross-on-Wye ...	1010.5	-16	S	5	cy	51	85	7	5	-	-	10	10	1500	1009.6	-4	S'E	4	ido	52	85	6	5	-	-	10	10	1500	1	*	cy,do,c	cy,c	do,do	c
5	Hartland Point	1007.4	-14	SSW	5	id	54	85	6	5	2	-	7-8	10	800	1008.2	+8	WSW	4	rr	50	92	6	6	2	-	1-8	10	600	1	4	cid,c	cid,ddr	rr,c	ex,fo,b
	Bristol ...	1011.3	-22	S	4	ido	51	85	6	5	2	-	9	10	900	1010.3	-2	SSW	4	z	53	85	6	5	-	-	9	10	1000	1	*	cid,mo	cid,mo	rr,c	cmo
	Portland Bill ...	1012.7	-16	S	5	c	52	85	8	5	-	-	10	10	2500	1011.5	-6	S	5	c	54	92	7	5	-	-	10	10	2500	1	5	c	c	pr,r	oc
	Plymouth ...	1010.8	-16	S'E	5	cy	54	92	6	5	2	-	9	10	800	1010.1	+2	S	5	dd	54	97	5	5	-	-	10	10	200	1	4	cid,mo	cid,mo	cid,mo,c	cmo
	The Lizard ...	1009.2	-10	S	6	cy	53	97	7	5	-	-	10	10	1000	1009.3	+10	WSW	4	rr	51	97	7	5	-	-	10	10	800	1	4	op,do	od,rr	c	cbc
	Scilly (St. Mary's)	1006.5	-8	SW'S	5	ido	54	97	6	5	-	-	10	10	500	1010.0	+30	NW'N	5	c	49	85	8	8	7	-	4-6	9	1200	1	4	cid	cid,c	c	cb,cw
	Guernsey ...																																		
6	Pembroke ...	1016.4	0	S	8	do,do	53	97	5	8	-	-	10	10	2500	1007.3	+12	SW	5	c	51	97	7	8	2	-	7-8	10	2500	1	4	cid,do,mo	do,do,c	cy,be	bc
7	Holyhead (Valley)	1003.1	-6	S	8	ido	54	85	6	5	-	-	10	10	600	1005.7	+2.6	W	6	ido	49	97	6	5	-	-	10	10	1700	1	6	cid,mo	cid,mo	c	b
	Chester (Sealand)	1007.6	-16	E'N	2	z	51	85	6	5	1	-	9	10	1500	1007.0	+6	SSE	4	z	53	85	6	5	2	-	4-6	10	1500	1	*	cz	cmo	cmo,do,fo	cmo
8	Manchester ...	1009.1	-6	SSE	5	cy	49	85	6	5	-	-	10	10	1500	1008.5	0	SSE	4	z	50	92	6	5	-	-	10	10	1500	1	*	cmo,fo	cmo	cmo,fo	cmo
10	Spurn Head ...	1012.6	-20	S'E	6	c	48	85	6	5	6	-	4-6	7-8	4000	1012.4	-2	S'E	6	c	47	92	7	3	8	-	2-3	7-8	4000	0	4	c	c	c,o	om,do
	Catterick ...	1009.0	-14	S	3	m	47	85	4	5	2	-	9	10	1500	1008.7	+4	S	4	cf	49	85	3	5	2	-	7-8	10	800	1	*	cmo,cm	cmo,cf	cd	cf,do,cmo
	Tynemouth ...	1007.6	+4	SW	4	z	48	85	6	8	-	-	9	9	1600	1007.3	+6	S	6	z	50	85	6	5	-	-	9	9	1500	1	4	cmo	cmo	cmo	om,oc
11	St. Abbs Head	1004.2	-4	SSE	4	c	50	75	8	5	7	-	7-8	10	2500	1003.9	+2	S	4	c	51	75	7	5	2	-	7-8	10	1500	0	3	cy	c	c	cbc
	Leuchars ...	1002.4	-6	S	4	c	52	85	8	5	7	-	9	10	2200	1002.2	+2	S	4	c	51	92	7	5	7	-	7-8	10	1800	1	*	c	cid	cmo,cbc	bcwb
12	Reitrew (Abbots L.)	1000.7	-6	S	5	ro,ro	53	85	5	5	-	-	10	10	1000	1002.1	+2.6	W	3	do,do	45	92	7	5	1	-	4-6	10	1000	1	*	cmo,mo	or,rd	do,do,bc	bebf
	Esksdalemuir ...	1003.7	-2	S'W	6	ro,ro	47	85	5	-	2	-	10	10	800	1003.7	+8	S'E	4	rr	48	92	5	-	2	-	10	10	220	1	*	cmo,ro	or,rr	rr,ro,c	cbcbx
	Point of Ayre ...	1003.2	-8	S'W	5	dd	52	92	7	6	2	-	9	10	800	1006.1	+2.0	NW'N	4	rr	49	97	7	6	2	-	7-8	10	1000	1	*	ro,do	dd,rr	rr,do	bcx
13A	Tiree ...	1000.6	+4	S'W	1	do,do	45	97	7	5	-	-	10	10	1800	1003.0	+14	SW	2	cy	45	92	7	5	3	-	4-6	4-6	2100	1	4	od,do	cid,bc	cbcc	cbc
13B	Stornoway ...	998.8	+6	SSW	4	c	49	85	8	5	7	-	7-8	10	2000	1000.5	+4	S	4	c	47	92	8	5	7	-	7-8	10	2000	1	2	c	cy	cbc	bc
15	Dalwhinnie ...	1000.0	0	S	4	ro,ro	49	85	7	6	2	-	9	10	1500	1003.6	+12	N	1	rr	39	92	6	5	-	-	10	10	800	1	*	orr	orr	cmo	oirbc
	Aberdeen ...	1002.7	-10	S	4	c	49	92	6	5	7	-	4-6	10	2100	1003.1	+2	S'E	4	ro	49	92	5	6	2	-	7-8	10	300	1	3	cz	cmo	cmo	cbzo
	Wick ...	1001.4	+4	W	1	ro,ro	46	92	7	-	2	-	10	10	2500	1002.3	+10	WNW	1	do,do	43	97	5	-	2	-	10	10	800	1	*	rr,ro,ro	ro,do,do	do,ro,do	bebbe
16	Sumburgh ...	1001.6	+10	S	2	rr	48	97	5	-	2	-	10	10	1200	1001.5	-2	-	0	do,do	45	97	5	5	-	-	10	10	800	1	4	ro,ro	rr,do,do	ro,do	C,b
17	Blacksod Point...	1002.0	+10	W'S	2	c	48	65	8	5	-	-	10	10	2500	1005.4	+24	WSW	3	c	47	7													

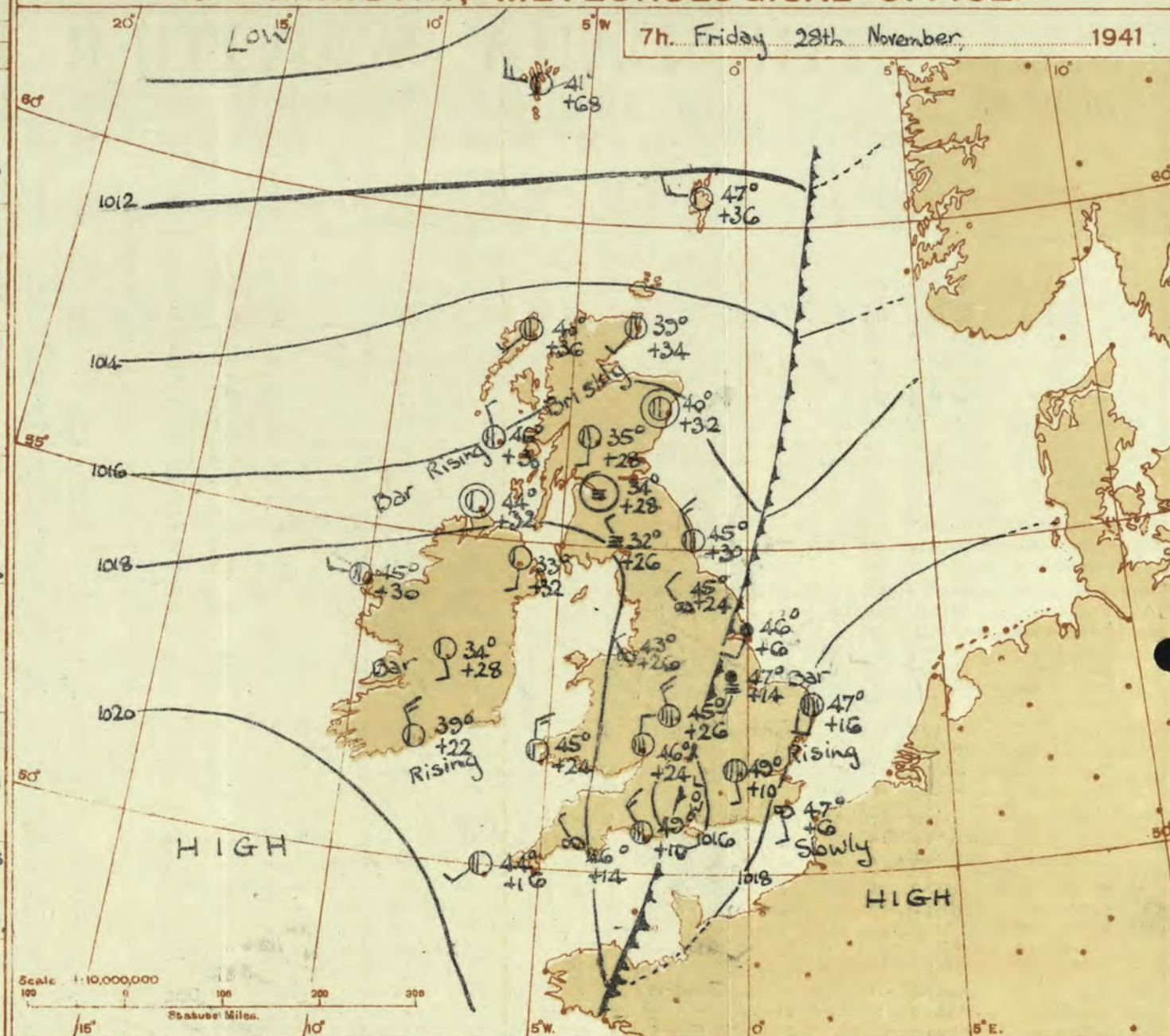


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T.	18h. G.M.T.	01h. G.M.T.	07h. G.M.T.
III C <sub>1</sub> wwVhN <sub>1</sub> DDFWN <sub>1</sub>	C <sub>2</sub> C <sub>3</sub> wwVhN <sub>2</sub> DDFWN <sub>2</sub>	C <sub>4</sub> C <sub>5</sub> wwVhN <sub>3</sub> DDFWN <sub>3</sub>	C <sub>6</sub> C <sub>7</sub> wwVhN <sub>4</sub> DDFWN <sub>4</sub>
109 02 62768 13168	02 63668 20268	04 01790 19314	5- 02865 23315
115 51 02944 20367	52 62844 18367	54 81844 18468	57 02944 28385
203 6- 63838 16528	6- 62838 16468		
206 5- 62748 00068	5- 62648 18168	00 00090 24160	5- 00963 00003
210 52 62645 28168	02 52538 28268	50 00972 20152	54 00961 18103
220 82 08345 18388	83 01854 19315		
230 62 61843 26268	54 00852 00063	8- 61767 17327	8- 01854 08194
245 57 02744 16528	52 61557 15568	53 02064 22266	04 01850 222
260 57 61744 48628	57 02744 40568	53 00763 22313	54 05661 24103
278	54 22965 28466	50 01863 20313	00 05590 12200
279 52 02743 50628	62 52645 40558	5- 02766 24226	04 05650 22103
285 23 05635 22617	6- 53538 22638		5- 01855 28215
288 5- 05657 48628	5- 05666 47626	5- 05648 17428	5- 08468 29158
301 02 62848 30168	05 02890 20168	04 00890 00011	50 00752 10102
301 57 05654 47628	52 05554 47628	57 05655 28168	50 08452 00022
321 57 02755 16428	52 02745 16428	5- 61638 15328	5- 05548 18368
299 57 01754 20616	50 05645 20316	5- 05648 18528	8- 52448 18258
292 52 05636 48428	52 05648 12228	02 51538 12358	5- 05668 28258
310 - 51428 20628			02 02638 24318
314 57 05655 16428	52 05646 30428	02 54438 18388	5- 43346 00046
333 52 53636	5- 50625 19558	5- 02865 28128	54 01761 26114
334 - 03748 20528	- 50647 24338		- 02665 00015
340 52 25746 14366	5- 05638 40628	62 64448 30268	51 05451 00028
136 57 02744 16527	07 05630 16427	52 05645 16428	62 52428 19258
336 52 21743 12458			54 01753 28315
350 57 02742 14427	57 05645 14428	52 21635 16458	5- 51428 16258
368 52 02747 15558	52 02737 16528	52 22635 22468	57 02644 26327
379 5- 51748 16558	5- 05628 16558	5- 52428 16458	5- 05538 26358
390 52 02744 17427	5- 05548 16428	5- 08438 16828	5- 51428 16258
382 5- 02848 48528	52 05657 15428	5- 52638 12328	5- 51588 24128
406 - - - 57 4386			8- 03648 22328
430	57 02756 16427		
400 52 61737 16668	62 64626 18408	54 02765 26327	57 01843 30284

III - Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W - Present and past weather—See M.O. 252.  
h, Nh - Height and amount of low cloud—See M.O. 252.  
N - Total amount of cloud—See M.O. 252.  
C<sub>1</sub>, C<sub>2</sub> - Form of low and medium cloud—See page 1.  
V - Visibility. F - Force of wind—See page 1.  
DD - Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 28th November 1941.

1 S.E. England	Light S. wind, veering W; dull at first with slight rain; an improvement spreading slowly from west and reaching extreme east of area late in day; fog in places tonight; average day temperature, frost at night.
2 E. England	
3 E. Midlands	Light variable wind; dull and misty with rain at first but an improvement soon spreading from west; average day temperature, fog and frost in places tonight.
4 W. Midlands	
5 S.W. England	
6 South Wales	Light N.W. wind; fair today; average day temperature fog and frost in places 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.	
13 A. W. Scotland	
13 B. N.W. Scotland	Light W to N.W. wind, variable cloud, local showers today, average day temperature. Frost in places tonight.
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	
17 N. W. Ireland	As 4-13A.
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their character is 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  
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.

GENERAL INFERENCE.

A pronounced trough of low pressure from the Humber to the Isle of Wight is moving very slowly eastwards. A ridge of high pressure is spreading N.E. from the Azores region. There will be rain at first in the Southeast. Elsewhere it will be fair today but fog will develop in many areas tonight.

FURTHER OUTLOOK.

Mainly fair and quiet weather with fog and frost at night in many areas.

Forecasts issued at 10.30h G.M.T.

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

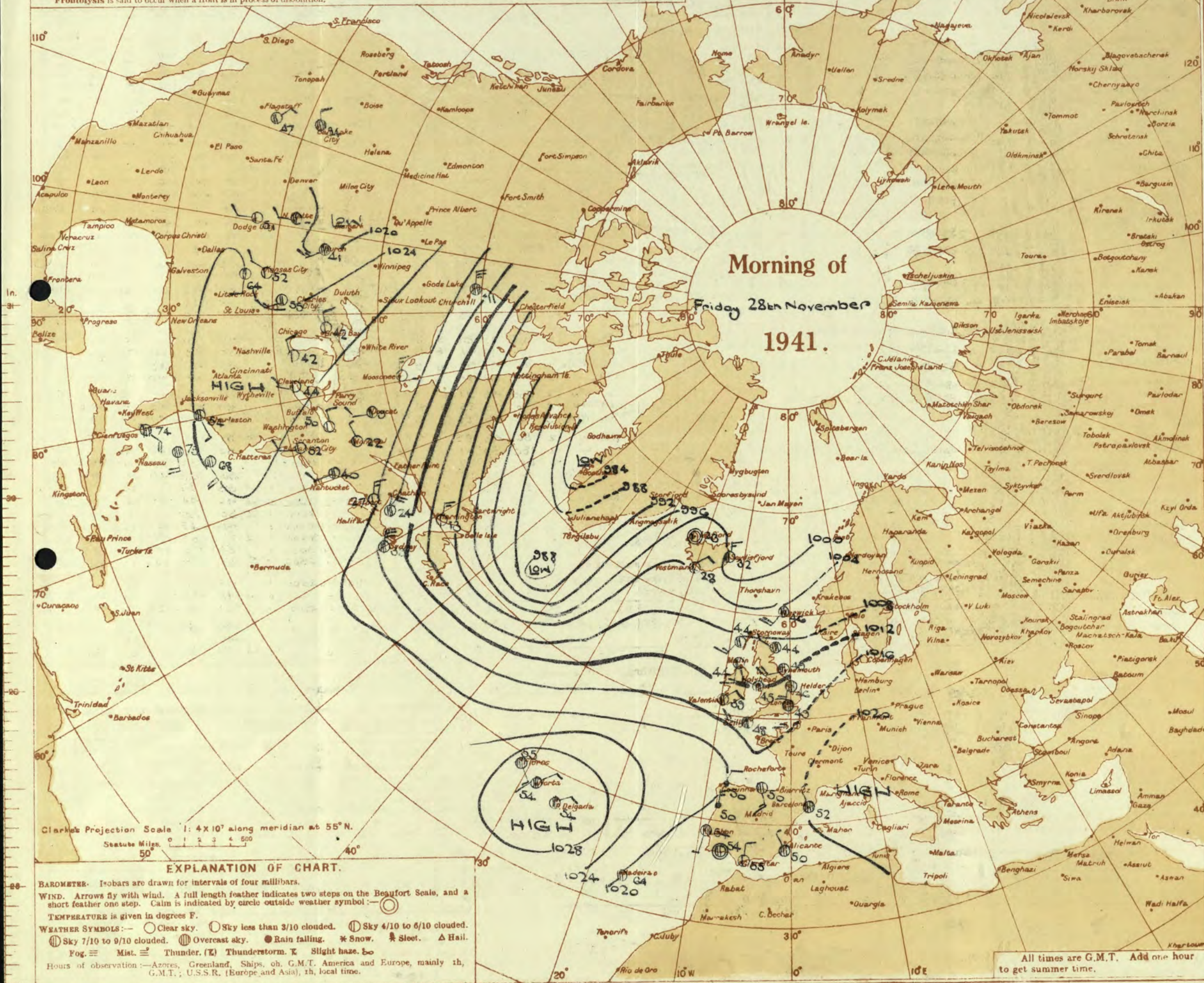
H.M.S.O. Press, Meteorological Office, Dunstable.



# 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 at the foot of page 2.)  
**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.





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

 BRITISH SECTION  
 Friday 28th November 1941.  
 No. 29226

OBSERVATIONS at 1 hr. G.M.T. 28th November														OBSERVATIONS at 7 hr. G.M.T. 28th November														PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Temp. °F. (6)	Humid. % (7)	Visibility. (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Temp. °F. (20)	Humid. % (21)	Visibility. (22)	Cloud.					State of Ground. (29)	Sea. 0-9 (30)	TEMPERATURE.			RAINFALL.		SUNSHINE Hrs. (36)			
					Direc. (3)	Force. (4)				Weather. (5)	Form. (9)	Amount. (10)	Height of Base. (feet) (11)	Form. (23)			Amount. (24)	Height of Base. (feet) (25)				Form. (26)	Amount. (27)	Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)			Day 7h-18h mm. (34)	Night 18h-7h mm. (35)							
1	London (Kew) ... 217	1014.8	+2	S	3	20	49	92	6	5	-	10	10	1400	1016.3	+10	SSW	2	20	50	92	6	5	-	10	10	2500	1	50	48	46	-	-	0.0			
	Croydon ... 226	1014.3	+6	SW	2	20	51	92	6	5	-	10	10	800	1016.3	+10	S'E	1	20	49	97	5	5	-	10	10	900	1	45	46	44	Tr	Tr	0.0			
	S. Farnborough ... 417	1014.1	+10	SW	2	20	50	97	6	5	-	10	10	200	1016.6	+14	SE	1	20	50	97	5	5	-	10	10	400	1	49	48	47	Tr	0.1	0.0			
	Boscombe Down ... 10	1014.5	+6	S	3	20	51	92	6	5	-	10	10	1000	1016.8	+10	NW	3	20	47	97	6	5	-	10	10	700	1	50	46	45	-	0.3	0.0			
	Thorney Island ... 346	1017.4	+6	SW	3	20	47	97	6	5	-	10	10	700	1015.9	+10	SSW	1	20	51	97	5	5	-	10	10	450	1	51	50	48	-	1	0.0			
	Lymington ... 154	1016.5	+2	S	3	20	45	92	6	5	-	9	9	1000	1018.2	+6	SSE	1	20	47	97	5	5	-	10	10	400	1	49	45	43	-	-	2.9			
	Manston ... 154	1016.5	+2	S	3	20	45	92	6	5	-	9	9	1000	1017.8	+10	S'E	1	20	47	92	5	5	-	10	10	600	1	49	44	40	-	-	1.4			
2	Shoeburyness ... 11	1016.5	+4	SW	2	C	47	92	5	5	7	-	9	10	2200	1017.6	+10	SE	2	0	48	92	5	5	-	10	10	900	1	51	47	42	-	-	1.2		
	Felixstowe ... 15	1016.7	+6	S	4	20	47	92	6	5	7	-	7.8	10	4000	1017.9	+8	SSE	3	20	47	92	6	5	-	10	10	1500	1	50	46	43	-	-	0.2		
	Gorleston ... 5	1016.3	+4	S	4	20	46	92	6	5	-	10	10	1500	1018.3	+16	S'W	2	20	47	92	6	5	-	10	10	1500	0	51	46	45	-	-	0.0			
	Mildenhall ... 19	1015.0	+6	S'E	3	C	47	85	7	5	2	-	7.8	10	1800	1016.9	+12	S	2	20	47	97	6	5	-	10	10	1600	1	53	46	42	-	1	1.0		
	Cranwell ... 240	1013.5	+10	S	4	20	46	92	5	5	-	10	10	800	1016.0	+14	SSW	1	df	47	97	2	5	-	10	10	500	1	49	44	43	-	Tr	0.0			
3	Birmingham ... 535	1013.2	+6	SSW	3	df	49	97	6	5	-	10	10	300	1017.7	+26	NNW	3	C	45	92	6	6	7	-	4.6	10	1500	1	49	45	43	-	3	0.0		
4	Upper Heyford ... 408	1013.2	+6	SSW	3	df	49	97	6	5	-	10	10	300	1016.6	+22	NNW	3	df	47	97	3	5	-	10	10	500	1	48	47	46	Tr	1	0.0			
	Ross-on-Wye ... 223	1013.2	+6	SSW	3	df	49	97	6	5	-	10	10	300	1017.4	+24	N	2	46	85	7	3	2	-	4.6	10	3000	1	52	46	43	Tr	2	0.0			
5	Hartland Point ... 299	1014.3	+24	NW	3	C	49	75	8	5	2	-	4.6	9	1500	1018.1	+22	NNW	2	bc	49	65	8	2	1	-	2.3	4.6	1500	1	55	48	45	4	3	0.1	
	Bristol ... 209	1013.7	+26	SSW	4	C	49	92	7	5	2	-	2.3	10	1200	1017.5	+22	N	3	20	47	85	6	5	2	-	4.6	10	2500	1	53	45	43	Tr	1	0.0	
	Portland Bill ... 32	1013.3	+12	S	4	Tr	51	92	7	5	-	10	10	2500	1016.0	+10	NW	3	C	49	92	6	5	-	10	10	2500	1	54	47	45	-	4	0.0			
	Plymouth ... 82	1015.0	+22	WNW	3	C	48	85	7	5	-	9	9	1500	1018.1	+14	NW	1	20	46	92	6	5	-	7.8	7.8	2000	1	54	45	42	4	1	0.0			
	The Lizard ... 240	1015.4	+20	NW	2	C	49	85	8	7	-	7.8	7.8	1500	1018.7	+16	NNW	3	bc	44	85	8	4	-	4.6	4.6	2500	0	54	43	41	1	1	0.0			
	Scilly (St. Mary's) ... 163	1015.6	+14	NW	3	C	48	75	8	5	7	-	4.6	9	1500	1018.8	+16	SW	1	bc	44	85	8	8	-	2.3	2.3	1500	-	54	44	42	1	-	0.0		
	Guernsey ... 175	1015.6	+14	NW	3	C	48	75	8	5	7	-	4.6	9	1500	1018.8	+16	SW	1	bc	44	85	8	8	-	2.3	2.3	1500	-	54	44	42	1	-	0.0		
6	Pembroke ... 142	1014.5	+20	NW	4	bc	49	75	8	1	4	2	2.3	4.6	4000	1018.0	+24	N	3	bc	45	85	8	8	-	2.3	2.3	4000	1	54	52	50	5	-	0.0		
7	Holyhead (Valley) ... 26	1013.1	+30	WNW	2	C	45	85	8	2	3	8	2.3	9	3000	1017.5	+20	NNW	1	bc	43	97	6	5	-	10	10	2500	1	54	43	40	7	3	0.0		
	Chester (Sealand) ... 16	1012.8	+30	WNW	3	bc	48	92	6	5	2	-	7.8	10	1500	1017.9	+26	NNW	1	20	43	97	6	5	2	-	4.6	9	2600	1	53	43	36	-	4	0.0	
8	Manchester ... 235	1012.6	+26	W	3	bc	48	97	5	2	-	4.6	10	1500	1017.6	+24	N	2	20	43	97	6	5	-	10	10	2500	1	51	43	40	Tr	3	0.0			
10	Spurn Head ... 29	1013.8	+12	S	4	0	46	92	6	5	2	-	10	10	1500	1016.2	+6	S'W	2	df	46	97	6	5	-	10	10	1500	1	49	45	43	-	Tr	0.0		
	Catterick ... 175	1011.9	+18	S'E	3	df	47	97	3	5	-	10	10	1400	1017.3	+24	NW	2	20	45	85	5	5	1	-	7.8	10	3500	1	49	45	43	-	0.6	0.0		
	Tynemouth ... 108	1011.5	+16	SW	4	20	49	85	5	5	-	10	10	1500	1017.5	+30	NW	3	C	45	85	7	5	-	7.8	7.8	1500	0	50	45	42	-	-	0.0			
11	St. Abbs Head ... 280	1010.0	+26	NW	3	C	46	75	8	5	7	-	4.6	9	2500	1016.4	+38	W	2	bc	43	85	8	4	4	-	2.3	2.3	2500	0	51	48	45	-	-	0.0	
	Leuchars ... 36	1010.4	+22	W	2	bc	43	97	7	5	3	-	2.3	4.6	3500	1016.3	+32	W	2	bc	39	97	7	3	1	0	2.3	-	1	52	38	29	Tr	-	0.0		
12	Renfrew (Abbots L.) ... 19	1011.7	+26	-	0	bc	40	97	7	5	3	-	1	4.6	2500	1017.3	+28	-	0	bf	34	97	2	5	-	Tr	Tr	1400	1	52	33	28	11	0.2	0.0		
	Eskdalemuir ... 794	1012.4	+22	NW	3	bc	46	85	5	4	8	Tr	2.3	6000	1018.0	+26	NNW	1	fg	32	97	7	4	4	-	0	2.3	-	1	50	33	26	7	4	0.0		
	Point of Ayre ... 30	1012.4	+22	NW	3	bc	46	85	5	4	8	Tr	2.3	6000	1017.5	+20	WN	3	b	38	92	8	4	4	-	Tr	Tr	3000	1	53	38	35	5	1	0.0		
13A	Tiree ... 22	1010.1	+24	W	2	bc	47	85	8	5	7	-	4.6	4.6	2500	1016.0	+30	NNW	1	bc	46	75	8	8	-	2.3	2.3	2500	0	46	44	42	3	-	0.0		
13B	Stornoway ... 80	1007.3	+38	SW	3	bc	47	85	8	5	6	-	2.3	4.6	2500	1015.0	+36	SW	2	bc	40	92	8	5	4	-	1	2.3	2500	1	50	39	37	1	-	0.0	
15	Dalwhinnie ... 1176	1010.0	+22	W	2	bc	47	85	8	5	6	-	2.3	4.6	2500	1018.2	+28	S	1	bc	35	97	8	8	-	6	4.6	4.6	4000	1	49	28	21	14	1	0.0	
	Aberdeen ... 79	1008.4	+22	SW	2	bc	43	92	9	3	4	0	4.6	-	-	1016.2	+32	-	0	bc	40	92	6	5	-	2.3	2.3	3400	1	51	39	30	0.2	0.1	0.0		
	Wick ... 119	1008.4	+22	SW	2	bc	43	92	9	3	4	0	4.6	-	-	1016.2	+32	-	0	bc	40	92	6	5	-	2.3	2.3	3400	1	51	39	30	0.2	0.1	0.0		
16	Sumburgh ... 30	1006.2	+26	W	3	C	47	97	8	5	7	-	7.8	9	2500	1014.7	+34	SW	1	bc	39	85	9	5	3	1	2.3	4.6	3000	1	52	49	34	4	1	0.0	
	Sumburgh ... 30	1006.2	+26	W	3	C	4																														



AIR  
MINISTRY.

## THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

SECRET  
BRITISH SECTIONSaturday 23<sup>rd</sup> November, 1941.  
No. 23,227.

OBSERVATIONS at 13h. G.M.T. 23 <sup>rd</sup> November.														OBSERVATIONS at 18h. G.M.T. 23 <sup>rd</sup> November.														PAST 24 HOURS.								
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.				Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.				State of Ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.								
				Dir.	Force. 0-12 (4)					Form.	Amount. 0-10 (12)	Height of Base. (feet) (14)	Dir.			Force. 0-12 (17)	Form.					Amount. 0-10 (26)	Height of Base. (feet) (28)	7h.—13h. 23 <sup>rd</sup> Nov. (37)	13h.—18h. 23 <sup>rd</sup> Nov. (38)			18h.—23 <sup>rd</sup> Nov. 1 <sup>st</sup> Dec. (39)	1h.—7h. 20 <sup>th</sup> Nov. (40)							
1	London (Kew) ...	019.3	+6	0	dd	51	57	4	6	2	7-8	10	500	021.3	+14	ESE	2	dd	50	57	3	6	2	7-8	10	500	1	1	2	2	2	2	2	2	2	2
	Croydon ...	019.3	+4	0	dd	51	57	4	5	1	10	10	500	020.8	+10	SE	1	dd	49	57	4	6	1	4-6	10	500	1	1	2	2	2	2	2	2	2	
	S. Farnborough ...	019.1	+6	0	dd	50	57	4	5	1	10	10	500	020.9	+10	NE	2	dd	48	57	3	5	1	10	10	300	1	1	2	2	2	2	2	2	2	
	Boscombe Down ...	019.8	+2	0	dd	48	55	6	5	7	7-8	10	1000	021.3	+12	NW	3	dd	45	57	6	5	1	10	10	300	1	1	2	2	2	2	2	2	2	
	Thorney Island ...	019.4	+10	0	dd	52	52	6	7	7	4-6	10	1500	020.1	+12	NW	1	dd	40	57	6	5	1	10	10	300	1	1	2	2	2	2	2	2	2	
	Lymington ...	020.4	+4	0	dd	47	52	5	5	1	10	10	400	022.2	+12	SE	2	dd	47	52	5	5	1	10	10	800	1	1	2	2	2	2	2	2	2	
	Manston ...	020.0	+4	0	dd	48	52	6	5	1	10	10	500	021.8	+12	SE	2	dd	47	52	4	5	3	7-8	10	1100	1	1	2	2	2	2	2	2	2	
2	Shoeburyness ...	019.7	+4	0	dd	48	57	5	5	1	10	10	500	021.5	+12	SE	1	dd	48	57	4	5	1	10	10	500	1	1	2	2	2	2	2	2	2	
	Felixstowe ...	020.0	+4	0	dd	48	57	5	5	1	10	10	500	021.7	+14	SE	0	dd	47	57	5	5	1	10	10	1000	1	1	2	2	2	2	2	2	2	
	Gorleston ...	020.5	+4	0	dd	48	52	6	5	1	10	10	500	022.4	+10	SE	2	dd	47	55	5	5	1	10	10	800	2	1	2	2	2	2	2	2	2	
	Mildenhall ...	019.8	+6	0	dd	49	57	4	5	1	10	10	600	021.9	+16	EIS	1	dd	40	57	2	5	1	10	10	2150	1	1	2	2	2	2	2	2	2	
	Cranwell ...	019.9	+14	0	dd	47	52	4	2	2	10	10	800	022.5	+16	NW	2	dd	46	57	4	5	1	10	10	800	1	1	2	2	2	2	2	2	2	
3	Birmingham ...	020.4	+4	0	dd	46	55	4	5	1	10	10	2500	022.7	+16	N	2	dd	46	55	3	5	1	10	10	800	1	1	2	2	2	2	2	2	2	
	Upper Heyford ...	019.5	+10	0	dd	47	55	4	5	2	2-3	10	500	021.5	+10	NW	3	dd	46	57	3	5	1	10	10	4150	1	1	2	2	2	2	2	2	2	
4	Ross-on-Wye ...	020.4	+6	0	dd	47	55	8	5	2	10	10	3500	022.5	+14	NW	2	dd	47	55	6	5	1	10	10	2000	1	1	2	2	2	2	2	2	2	
5	Hartland Point ...	020.9	+8	0	dd	49	55	8	2	4	2-3	4-6	2500	021.9	+6	N	3	dd	49	55	8	1	7	1	9	2500	1	3	2	2	2	2	2	2	2	
	Bristol ...	020.6	+6	0	dd	48	55	6	5	2	7-8	10	3000	022.5	+10	N	1	dd	47	55	4	2	2	1	10	1400	1	1	2	2	2	2	2	2	2	
	Portland Bill ...	019.3	+6	0	dd	49	52	7	5	1	10	10	2500	020.2	+4	N	4	dd	47	52	7	5	1	10	10	2500	1	4	2	2	2	2	2	2	2	
	Plymouth ...	020.8	+2	0	dd	50	55	8	8	3	7-8	10	2000	022.1	+6	NW	1	dd	48	55	5	7	1	10	10	2000	1	3	2	2	2	2	2	2	2	
	The Lizard ...	020.9	+6	0	dd	52	55	8	8	6	7-8	10	2500	021.9	+6	NW	3	dd	46	55	8	8	5	7-8	10	2500	1	3	2	2	2	2	2	2	2	
	St. Mary's ...	021.5	+8	0	dd	52	55	8	8	4	4-6	4-6	1500	020.2	+4	NW	2	dd	48	55	8	8	5	1	7-8	1500	1	3	2	2	2	2	2	2	2	
	Guernsey ...	021.5	+8	0	dd	52	55	8	8	4	4-6	4-6	1500	020.2	+4	NW	2	dd	48	55	8	8	5	1	7-8	1500	1	3	2	2	2	2	2	2	2	
6	Pembroke ...	022.2	+12	0	dd	50	55	7	2	2	2-3	4-6	3000	025.3	+6	NW	3	dd	46	52	8	2	6	2-3	7-8	3000	1	3	2	2	2	2	2	2	2	
7	Holyhead (Valley) ...	021.9	+12	0	dd	50	55	8	3	3	7-8	10	2500	023.9	+12	NW	1	dd	42	57	7	1	8	7-8	2500	1	2	2	2	2	2	2	2	2		
	Chester (Sealand) ...	021.6	+10	0	dd	49	52	6	5	7	2-3	10	2000	024.1	+10	NW	2	dd	43	52	5	7	1	10	10	2000	1	1	2	2	2	2	2	2	2	
8	Manchester ...	020.7	+8	0	dd	46	52	3	5	1	10	10	2000	023.7	+2	NW	2	dd	42	52	3	3	1	10	10	2000	1	1	2	2	2	2	2	2	2	
10	Spurn Head ...	019.9	+14	0	dd	47	57	6	5	1	10	10	1500	022.1	+2	NW	4	dd	47	57	6	5	1	7-8	10	1500	1	3	2	2	2	2	2	2	2	
	Catterick ...	022.0	+14	0	dd	47	55	8	5	3	4-6	10	5500	024.8	+14	NW	2	dd	44	55	6	3	1	10	10	5500	1	1	2	2	2	2	2	2	2	
	Tynemouth ...	021.9	+20	0	dd	46	55	6	5	3	4-6	7-8	1500	024.6	+14	NW	3	dd	44	55	6	5	3	4-6	7-8	2500	0	3	2	2	2	2	2	2	2	
11	St. Abbs Head ...	021.8	+20	0	dd	46	55	7	4	4	2-3	7-8	2500	024.8	+16	NW	2	dd	44	52	5	4	4	2-3	2-3	2500	0	2	2	2	2	2	2	2	2	
	Leuchars ...	022.0	+22	0	dd	44	52	7	1	1	8	10	7-8	025.5	+26	SE	0	dd	37	52	6	1	2	0	1	1	1	1	1	1	1	1	1	1	1	
12	Reafrew (Abbots L.) ...	022.3	+18	0	dd	38	57	2	1	6	7-8	10	2500	026.0	+26	SE	0	dd	36	57	1	1	1	10	10	2150	1	1	1	1	1	1	1	1	1	
	Esksdalemuir ...	022.2	+10	0	dd	41	52	8	3	8	7-8	10	2500	025.7	+18	NW	1	dd	36	55	8	7	6	0	4-6	1	1	1	1	1	1	1	1	1		
	Point of Ayre ...	022.3	+10	0	dd	45	55	8	2	7	2-3	7-8	2000	024.6	+22	NW	1	dd	44	52	8	4	4	8	10	2000	1	2	2	2	2	2	2	2	2	
13A	Tiree ...	021.9	+20	0	dd	51	55	8	2	1	2-3	2-3	3500	024.8	+14	SE	0	dd	39	52	8	1	1	1	1	3500	0	3	2	2	2	2	2	2	2	
13B	Stornoway ...	021.8	+26	0	dd	46	55	8	2	4	1	1	3500	025.2	+18	SE	0	dd	40	57	8	2	1	1	1	3500	1	1	1	1	1	1	1	1	1	
15	Dalwhinnie ...	022.5	+24	0	dd	41	52	8	2	9	1	4-6	1500	025.8	+26	NW	1	dd	27	55	8	1	1	1	1	1500	1	3	2	2	2	2	2	2	2	
	Aberdeen ...	022.0	+20	0	dd	45	55	6	1	5	0	4-6	1500	025.8	+26	NW	2	dd	40	52	5	1	9	0	10	1500	1	1	1	1	1	1	1	1	1	
	Wick ...	021.8	+26	0	dd	46	55	6	2	4	1	1	2500	026.0	+26	NW	2	dd	37	52	6	1	1	1	1	2500	1	1	1	1	1	1	1	1	1	
	Sumburgh ...	020.4	+34	0	dd	48	55	8	3	4	1	2-3	2500	025.1	+34	NW	1	dd	44	55	8	1	1	1	1	2500	1	3	2	2	2	2	2	2	2	
17	Blacksod Point ...	023.0	+10	0	dd	50	55	8	2	1	4-6	4-6	4000	025.9	+20	SE	0	dd	40	55	8	1	1	1	1	4000	0									

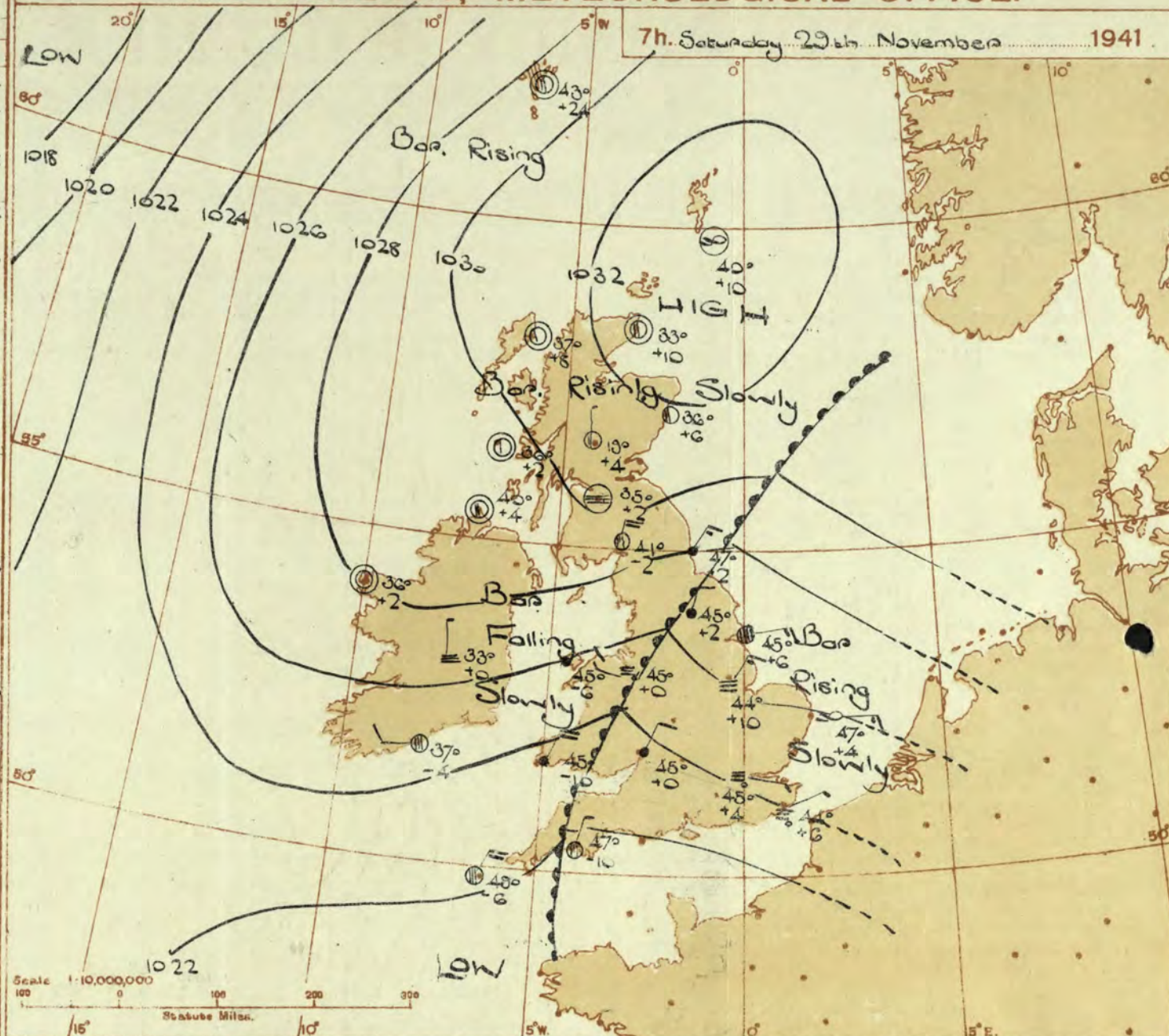


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T. 25th Nov.							18h. G.M.T.							01h. G.M.T. 29th Nov.							07h. G.M.T.						
III	C <sub>W</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>W</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>W</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>W</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>W</sub>	wwVhN <sub>h</sub>	DDFWN	C <sub>W</sub>	wwVhN <sub>h</sub>	DDFWN									
109	80	01352	23283	80	00751	24101	00	00730	00000	10	00752	00002															
115	84	01044	24485	84	01844	24315	54	01353	20213	84	01953	16214															
203				10	01043	12313	00	00090	16200	00	00890	12300															
206	20	01861	24214	00	05090	00010	00	00890	00000	5-	02855	00025															
210	00	01900	21314	00	00930	18101	00	00890	00000																		
220				50	01762	212102				50	00752	06202															
230				00	00890	00000	00	00790	00000	00	00790	00000															
245				00	00890	22113	00	00890	22200	84	01851	32303															
260				00	47290	00024	5-	45266	00046	5-	45348	00048															
278	20	03651	08114	00	41430	24140	00	05630	00040	50	00761	24301															
279	--	46209	00049	--	44109	02249	03	47390	00042	07	43390	32144															
285				53	01852	02103				5-	53638	28358															
288	53	08464	30147	53	45262	232147	52	08544	29348	5-	41637	07257															
295	00	43130	00040	00	04730	00024	00	03790	00000	00	45230	10140															
301	00	47390	31246	07	47290	32148	53	08563	02126	57	08564	32128															
321	57	05675	30368	57	05557	30328	5-	52438	30358	5-	08548	18258															
299	5-	02748	32468	5-	02740	32416	5-	67338	32368	5-	08548	04228															
292	07	05690	28227	07	05550	28227	02	67348	29368	--	57209	00068															
310	--	03428	32328							--	57209	32449															
614	5-	05567	02247	5-	61408	82308	52	52446	02368	02	57338	06458															
338	03	01890	00014	03	02830	32227	07	02890	28217	52	61655	02128															
334	--	02665	02217	--	05454	28216				--	54547	24158															
340	07	08490	30128	07	08490	30228	5-	08468	30228	5-	57338	32158															
136	02	57308	16158	5-	57209	00058	--	57209	08159	5-	43228	08158															
336	57	02763	28328	53	02763	32316				--	57409	28															
350	5-	52428	30158							5-	44418	08248															
368	57	02761	26127	52	05061	30128	5-	62438	32168	5-	08538	06468															
379	52	05465	30328	5-	57328	32358	--	57209	08369																		
390	5-	57128	16158	5-	57128	17258	5-	43108	04248	5-	47138	12148															
382	5-	61658	31368	5-	51309	32360	5-	57318	04256	5-	08438	01248															
438	--	46009	24249							5-	02747	10317															
430				5-	57318	12458	5-	08548	08228	5-	08568	08229															
100	27	01953	06214	27	01752	32215	57	08652	01128	57	02647	02368															

III - Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W - Present and past weather—See M.O. 252.  
h, Sh - Height and amount of low cloud—See M.O. 252.  
N - Total amount of cloud—See M.O. 252.  
C<sub>W</sub> - Form of low and medium cloud—See page 2.  
V - Visibility. P - Force of wind—See page 4.  
DD - Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

1 S.E. England	Light east or southeast wind; cloudy; local fog; temperature falling a little.
2 E. England ...	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England	Light northeast wind veering east; dull; slight rain locally; local fog; average temperature.
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	Light northeast or east wind; fair at first apart from local fog; cloudy later with slight rain locally; rather cold.
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	
13A. W. Scotland	Light east wind; fair or fine; local fog; rather cold; frost at night.
13B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	As 11-12
17 N. W. Ireland	
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	As 13A-17

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

FRONTS or boundaries between masses of air of different origin are indicated, wherever their character is 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.

GENERAL INFERENCE.

Pressure is high from Southeast Europe to Shetland and an anticyclone centred near Shetland is moving northeast. A shallow trough of low pressure extending from the Humber to Southwest England is moving slowly northwest. In the West and North of England weather will be dull with occasional light rain and local fog. In the South and East of England weather will be cloudy or dull with local fog. In Scotland and Ireland weather will be fair apart from fog.

FURTHER OUTLOOK.

Little change

Forecasts issued at 10.30 a.m. T.  
H.M.S.O. Press, Meteorological Office, Dunstable.

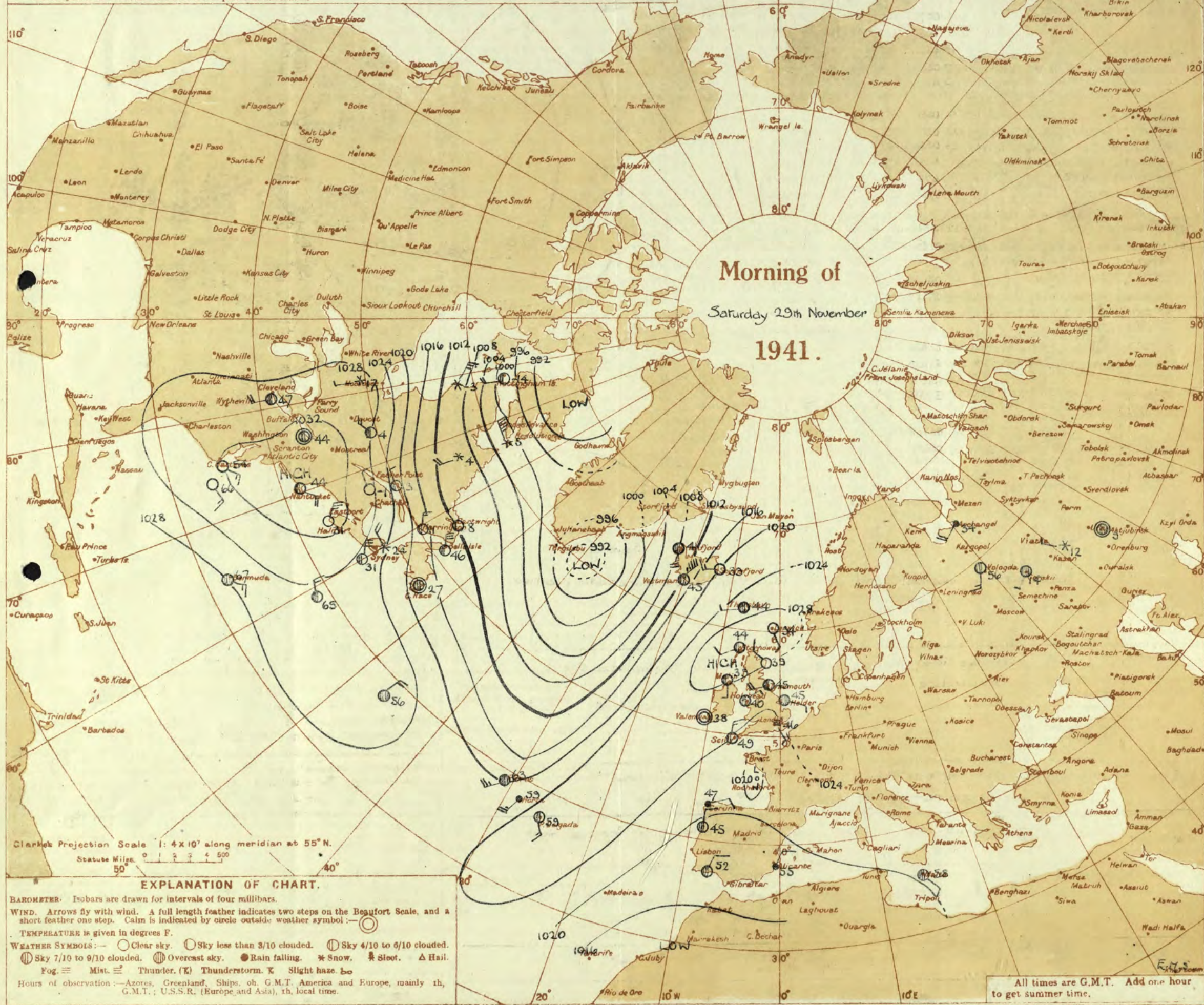
N. K. JOHNSON, D.Sc., A.R.C.S.  
Director.



# 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 at the foot of page 2.)  
**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.





# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION  
Saturday 29th November 1941.  
No 29,227.

OBSERVATIONS at 1 hr. G.M.T. 29th November															OBSERVATIONS at 7 hr. G.M.T. 29th November															PAST 24 HOURS.									
DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. (8)	Cloud.					Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. (22)	Cloud.					State of Ground. (29)	Sea. 0-9 (30)	TEMPERATURE.			RAINFALL.		SUNSHINE 28th Hrs. (36)			
					Direc. (3)	Force. 0-12 (4)					Form.	Amount. (12)	Height of Base. (feet) (14)	Direc. (17)	Force. 0-12 (18)			Form.	Amount. (26)					Height of Base. (feet) (28)	Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Day 7h-18h mm. (34)			Night 18h-7h mm. (35)								
1	London (Kew)	18	*	*	SE	3	48	*	*	*	3	*	1024.9	+10	NE	2	20	48	92	5	5	10	10	2500	1	*	49	44	40	Tr	-	-	0.0	0.0					
	Croydon	217	1023.5	+6	SE	3	46	97	4	5	3	4.6	9	3000	1024.5	+4	ESE	1	10	45	97	4	5	10	10	2500	1	*	51	45	40	3	0.3	0.0					
	S. Farnborough	226	1023.5	+10	E	2	48	97	3	5	1	10	10	800	1024.4	+6	ENE	2	10	46	97	3	5	10	10	1600	1	*	51	45	44	3	0	0.0					
	Boscombe Down	417	1022.8	+6	E'N	3	47	97	2	5	1	10	10	1500	1023.8	+6	E'N	3	10	46	97	4	5	10	10	2500	1	*	48	45	40	1	2	0.0					
	Thorney Island	10	1022.5	+10	NE	2	50	97	5	5	1	9+	9+	1800	1023.4	+8	ENE	1	20	48	97	6	5	9+	9+	1700	1	*	52	46	39	0.5	0.6	*					
	Lymington	346	1023.8	+6	SE	1	47	97	4	5	1	10	10	600	1024.7	+6	NEE	1	10	44	97	4	5	10	10	400	1	3	48	44	43	-	-	0.0					
	Manston	1544	1024.2	+10	-	0	42	92	3	1	1	6	0	4.6	1025.2	+6	-	0	45	92	4	5	10	10	300	1	*	48	39	28	Tr	-	-	0.0					
2	Shoeburyness	11	1023.8	+10	SE	1	48	92	6	5	1	10	10	2500	1025.0	+6	SE	2	0	46	92	5	5	10	10	1500	1	*	49	44	40	Tr	-	-	0.0				
	Felixstowe	15	1024.4	+10	E'N	1	48	92	5	5	1	10	10	1000	1025.4	+6	E'N	2	20	47	85	5	5	10	10	1400	1	1	48	46	45	-	-	0.0					
	Gorleston	51	1024.6	+10	SE	2	47	85	5	5	1	10	10	800	1025.7	+4	E	3	20	47	85	6	5	10	10	1000	0	2	54	45	45	-	-	*					
	Mildenhall	19	1024.4	+14	E	2	47	97	4	5	1	10	10	300	1025.4	+6	E	2	20	46	97	5	5	10	10	1000	1	*	49	46	46	3	0.5	0.0					
	Cranwell	240	1024.4	+6	N'E	2	46	97	2	1	1	10	10	1500	1026.2	+10	NE	3	0	44	97	3	5	10	10	600	1	*	51	43	43	2	3	0.0					
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	1025.3	+4	ENE	2	F	46	97	1	5	1	10	10	1500	1	*	47	43	42	0.2	3	0.0						
	Upper Heyford	408	1023.4	+10	NNE	2	46	97	3	1	1	10	10	1500	1024.5	+8	ESE	2	0	46	97	3	5	10	10	400	1	*	48	45	45	0.5	2	*					
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	1023.9	0	NE	2	10	45	97	4	1	2	10	10	800	1	*	48	44	43	Tr	5	0.0						
5	Hartland Point	299	1023.2	+4	NE	2	47	85	7	5	2	7.8	10	1500	1021.8	+8	NNE	3	C	47	92	6	5	2	7.8	10	1500	1	3	52	46	45	1	1	4.7				
	Bristol	209	1023.3	+2	NE	3	45	97	3	1	2	10	10	500	1023.6	+2	-	0	47	97	4	5	3	10	10	400	1	*	48	44	43	Tr	3	0.0					
	Portland Bill	32	1021.0	+2	NE	2	48	92	7	5	1	10	10	2500	1021.6	+6	E	4	C	52	92	7	5	2	7.8	10	2500	1	4	53	46	44	0.2	4	*				
	Plymouth	82	1022.7	+2	-	0	48	97	5	1	2	10	10	1800	1021.5	+2	NNE	1	10	47	97	5	5	2	7.8	10	1800	1	2	51	44	44	-	1	0.0				
	The Lizard	240	1022.5	-2	NE'N	3	45	85	8	2	1	7.8	10	1500	1022.0	+4	NNE	3	10	45	85	7	5	1	10	10	1000	1	3	54	42	42	-	Tr	3.3				
	Scilly (St. Mary's)	163	1023.3	-2	NE'N	3	49	65	8	3	1	2.3	7.8	1500	1022.2	-6	NEN	4	C	49	65	8	8	1	9	9	1500	1	3	53	47	47	-	-	4.5				
	Guernsey	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				
6	Pembroke	142	1024.2	+10	NEE	4	46	92	8	8	1	4.6	7.8	1000	1023.5	-10	NE'N	4	10	45	97	7	8	1	9	9	2500	1	3	51	41	41	-	*	1.4				
7	Holyhead (Valley)	26	1025.5	+2	NE	1	40	97	7	1	1	7	0	10	10	1025.0	-6	NE	2	10	45	92	6	5	1	10	10	1600	1	2	51	46	33	-	Tr	*			
	Chester (Sealand)	161	1025.8	+4	NW	2	43	85	4	1	1	0	10	10	1025.6	0	WN	1	10	45	92	4	5	1	10	10	1000	10	*	49	43	37	-	-	0.0				
8	Manchester	235	1025.5	+6	NW	2	45	92	5	5	1	10	10	3000	1026.0	+10	NE	3	10	45	97	4	5	2	10	10	1500	1	*	47	42	40	-	2	*				
10	Spurn Head	29	1025.5	+14	ESE	2	45	97	6	5	1	10	10	1500	1026.5	+6	E'N	3	0	45	85	6	5	1	10	10	1500	1	3	47	45	45	1	1	0.0				
	Catterick	175	1027.2	+4	N	3	44	92	6	5	7	4.6	9+	700	1027.4	+2	N'E	2	10	45	97	4	5	2	10	10	300	1	*	47	42	40	-	1	0.2				
	Tynemouth	108	1026.9	+8	WSW	4	45	85	6	8	1	9+	9+	1500	1027.4	+2	NE	3	10	47	97	6	5	2	10	10	1500	1	3	47	42	39	-	1	*				
11	St. Abbs Head	280	1028.2	+12	N	3	45	92	7	8	4	4.6	7.8	2500	1029.3	+2	NNE	3	10	46	85	7	4	4	2.3	4.6	1500	0	2	46	43	43	-	-	*				
	Leuchars	361	1029.7	+16	NW	2	33	97	4	1	3	0	2.3	10	1030.5	+6	WNW	1	10	31	97	4	5	3	1	1	4000	1	*	47	31	26	-	-	4.0				
12	Renfrew (Abbots I.)	191	1029.8	+14	-	0	35	97	1	1	1	10	10	1500	1030.1	+2	-	0	35	97	1	1	1	10	10	1500	1	*	39	32	29	-	Tr	0.0					
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	1028.6	+2	NNE	4	C	41	92	7	5	1	9+	9+	2500	1	*	43	34	26	-	-	2.2				
	Point of Ayre	304	1027.2	+8	NEE	4	44	85	8	1	1	4	0	1	10	1027.1	0	E'N	5	C	45	85	7	5	1	4.6	9+	3000	1	4	50	43	43	-	-	3.5			
13A	Tiree	22	1028.0	+8	-	0	35	97	8	2	1	6	1	3500	1028.3	+2	-	0	36	97	8	1	1	1	1	3500	0	2	51	39	39	0.1	-	5.7					
13B	Stornoway	80	1029.6	+18	-	0	37	97	8	1	1	Tr	Tr	3500	1030.7	+8	-	0	37	97	8	1	1	1	1	3500	1	1	48	36	36	-	-	5.6					
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	1033.6	+4	NNW	1	10	36	97	8	8	1	2.3	2.3	2500	3	*	43	19	12	-	-	3.0				
	Aberdeen	79	*	*	*	*	37	*	*	*	*	*	*	*	1031.3	+6	NW	2	10	36	97	7	3	1	1	2.3	2500	1	2	45	35	29	-	-	3.3				
	Wick	119	1030.2	+14	W	1	36	92	9	1	1	0	0	10	1032.0	+10	-	0	36	97	8	5	1	1	4.6	4.6	2500	1	*	47	31	28	Tr	-	*				
16	Sumburgh	30	1030.4	+20	-	0	37	97	6	5	1	Tr	Tr	400	1032.8	+10	-	0	40	97	6	5	1	1	1	400	1	2	48	35	20	0.4	-	2					
17	Blacksod Point	18	1028.1	+4	-	0	36	97	8	1	1	0	0	10	1028.0	+2	-	0	36	97	8	1	1	1	1	1000	1	*	50	39	39	8	-	*					
18	Malin Head	84	1027.6	+6	S	1	39	75	8	4	1	2.3	2.3	5700	1028.4	+4	-	0	39	75	8	2	1	1	4.6	4.6	5700	0	3	49	36	36	-	-	5.4				
	Aldergrove	288	1028.7	+6	-	0	39	97	3	5	1	2.3	2.3	2500	10																								



AIR  
MINISTRY.THE DAILY WEATHER REPORT  
OF THE METEOROLOGICAL OFFICE, LONDON.SECRET  
BRITISH SECTION  
Sunday 30th November, 1941.  
No. 29,228.

OBSERVATIONS at 13h. G.M.T. 29th November.														OBSERVATIONS at 18h. G.M.T. 29th November.														PAST 24 HOURS.							
District.	STATIONS. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 8 hours. (2)	Wind.		Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0-9 (8)	Cloud.					Barom. at M.S.L. mb. (15)	Change in 8 hours. (16)	Wind.		Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility. 0-9 (22)	Cloud.					State of ground. 0-9 (29)	Sea. 0-9 (30)	WEATHER.					
				Dirac.	Force. 0-12 (4)					Low.	Med.	High (11)	Low 0-10 (12)	Total 0-10 (13)			Height of Base. (feet) (14)	Dirac.					Force. 0-12 (18)	Low.	Med.	High (25)	Low 0-10 (26)			Total 0-10 (27)	Height of Base. (feet) (28)	7h.—13h. 29th (37)	13h.—18h. 29th (38)	18h.—24h. 30th (39)	1h.—7h. 30th (40)
1	London (Kew) ...	1025.5	-4	ESE	2	Zo	48	85	5	-	-	10	10	2500	1025.5	+2	HE	2	m	48	85	4	5	-	-	10	10	2500	1	*	cfmo	cm	cyclomet	cfmo	
	Croydon ...	1025.4	-2	SE'S	2	Zo	48	85	5	-	-	7.8	10	1200	1025.4	-2	HE	2	of+	46	92	3	5	-	-	10	10	1600	1	*	cfmo	cfdo	cfdo	cfmo	
	S. Farnborough	1025.6	0	ESE	3	Zo	47	92	6	-	-	10	10	1100	1025.5	-2	EHE	1	m	46	92	4	5	-	-	10	10	1800	1	*	cfmo	cfmo	cfmo	cfmo	
	Boscombe Down	1024.5	-2	E	3	Zo	48	92	6	-	-	9+	9+	1000	1024.8	+2	EHE	3	m	45	92	4	5	-	-	9	9	1500	1	*	cfmo	cfmo	cfmo	cfmo	
	Thorney Island	1024.4	-4	E'S	3	Zo	51	85	6	-	-	4.6	4.6	1000	1024.3	-2	EHE	2	Zo	45	92	5	5	-	-	9+	9+	2000	1	*	cfmo	cfmo	cfmo	cfmo	
	Lymington	1025.2	-6	E'N	2	Zo	50	85	6	-	-	4.6	4.6	1200	1025.3	+2	EHE	2	of	45	97	3	5	-	-	10	10	1400	1	*	cfmo	cfmo	cfmo	cfmo	
	Manston	1025.8	-2	EHE	1	Zo	46	92	5	-	-	10	10	500	1025.8	+2	E'N	3	m	46	92	4	5	-	-	10	10	800	1	*	cfmo	cfmo	cfmo	cfmo	
2	Shoeburyness ...	1025.8	-4	HE'N	6	fg	48	85	2	-	-	10	10	1200	1026.0	+2	E	1	o	46	92	6	5	-	-	10	10	1500	1	*	cfmo	cfmo	cfmo	cfmo	
	Felixstowe	1026.4	-4	E'S	3	Zo	47	92	5	-	-	10	10	1000	1026.3	+2	EHE	4	Zo	46	97	5	5	-	-	10	10	1600	1	2	cfmo	cfmo	cfmo	cfmo	
	Gorleston	1027.4	+2	ESE	3	Zo	45	85	6	-	-	10	10	1200	1027.9	+6	EHE	3	old	48	85	6	5	-	-	10	10	1200	0	4	cfmo	cfmo	cfmo	cfmo	
	Mildenhall	1026.7	-2	EHE	1	Zo	48	92	6	-	-	10	10	2200	1026.9	+2	E	2	id.	45	97	5	5	-	-	10	10	1500	1	*	cfmo	cfmo	cfmo	cfmo	
	Cranwell	1026.0	-2	E'S	1	m/d	45	97	4	-	-	10	10	800	1027.1	+4	EHE	2	of+	44	97	3	5	-	-	10	10	500	1	*	cfmo	cfmo	cfmo	cfmo	
3	Birmingham	1025.8	0	EHE	3	df	46	97	2	-	-	10	10	2150	1026.3	+2	E	3	df	45	97	3	6	-	-	10	10	1450	1	*	cfmo	cfmo	cfmo	cfmo	
	Upper Heyford	1025.8	-6	EHE	3	Zo	47	92	5	-	-	9+	9+	2500	1025.6	0	EHE	3	of+	45	97	3	5	-	-	10	10	2200	1	*	cfmo	cfmo	cfmo	cfmo	
4	Ross-on-Wye ...	1024.7	0	EW	2	fg	48	92	6	-	-	10	10	1500	1025.0	+4	E'N	2	Zo	47	92	5	5	-	-	10	10	800	1	*	cfmo	cfmo	cfmo	cfmo	
5	Hartland Point	1022.2	0	E	3	C	49	85	7	5	7	6	4.6	9	2500	1021.5	-2	E	4	C	49	92	6	5	7	-	7.8	9+	2000	1	3	idof	C	C	cbc
	Bristol ...	1024.3	-6	E'S	2	Zo	49	92	6	-	-	9	9+	3000	1024.8	+2	SE	2	m	48	92	4	5	7	-	4.6	9+	2500	1	*	C	cfmo	cfmo	cfmo	
	Portland Bill	1022.1	-2	E	4	C	52	92	7	5	-	-	10	10	2500	1023.4	+6	E	4	C	50	92	7	5	-	-	10	10	2500	1	4	oc	C	C	C
	Plymouth	1021.8	-8	E	2	id	51	85	6	5	2	-	7.8	10	1400	1021.9	+2	E'S	3	Zo	51	85	6	5	-	-	9+	9+	7200	1	3	cidomo	cdemo	C	C
	The Lizard	1021.4	-4	NE	2	fg	47	97	6	-	-	10	10	1000	1020.3	0	E'S	4	C	51	92	8	6	-	-	7.8	7.8	1500	0	4	Czof	C	C	C	
	Scilly (St. Mary's)	1021.3	-10	HE'N	3	fg	50	85	6	-	-	7.8	10	1800	1020.7	-2	EHE	2	C	50	92	6	5	2	-	4.6	9+	1200	1	3	Cif	Cif	C	C	
6	Pembroke	1023.3	-2	E'N	4	C	49	92	5	8	6	-	7.8	9	2500	1023.4	+4	E'N	5	id	48	97	5	8	1	-	9	9	1500	1	2	oprcmo	cmido	C	C
7	Holyhead (Valley)	1024.5	-10	EHE	4	fg	47	97	5	-	-	10	10	2000	1024.7	-2	EHE	3	Zo	45	92	6	5	3	-	4.6	9+	3000	1	3	cfmo	cfmo	cfmo	cfmo	
	Chester (Sealand)	1024.4	+2	E'S	1	id	46	92	5	2	-	7.8	10	2000	1026.5	+4	ESE	1	dd	46	92	4	5	-	-	10	10	1500	1	*	cfmo	cfmo	cfmo	cfmo	
8	Manchester	1026.6	-2	E'S	3	Zo	46	85	6	5	3	-	4.6	9+	5000	1027.0	+8	E'N	3	m	48	92	4	5	-	-	10	10	3000	1	*	rrmc	cfmo	cfmo	cfmo
10	Spurn Head	1027.5	-2	E	4	C	45	97	6	5	2	-	7.8	10	1500	1027.8	+2	SE	3	id	46	97	6	-	2	-	10	10	1500	1	3	cfmo	cfmo	cfmo	cfmo
	Catterick	1028.7	+2	HE	2	id	45	92	5	5	2	-	7.8	10	800	1028.6	0	-	o	m	43	92	4	5	2	-	9	9	2000	1	*	cfmo	cfmo	cfmo	cfmo
	Tynemouth	1028.8	-4	E	4	of	46	92	7	-	2	-	10	10	1500	1028.7	+2	E	3	C	45	75	7	8	-	-	9+	9+	2500	1	3	cfmo	cfmo	cfmo	cfmo
11	St. Abbs Head	1029.5	-4	SE	3	dodo	45	97	4	5	-	-	10	10	800	1029.2	+2	E	3	C	44	85	7	5	2	-	7.8	10	1500	1	2	cfmo	cfmo	cfmo	cfmo
	Leuchars	1030.5	-6	NNE	1	C	44	97	7	5	7	-	4.6	10	2500	1030.4	+4	EHE	2	id	45	97	5	5	-	-	10	10	800	1	*	cfmo	cfmo	cfmo	cfmo
12	Benbow (Abbots L.)	1029.6	-6	E	3	Zo	45	85	6	5	1	-	9+	10	3500	1028.7	-6	E	3	Zo	45	92	6	5	-	-	10	10	700	1	*	cfmo	cfmo	cfmo	cfmo
	Eskdalemuir	1028.4	-4	HE'N	3	dodo	43	97	6	-	2	-	10	10	450	1028.8	+6	EHE	3	old	41	92	6	5	-	-	10	10	800	1	*	cfmo	cfmo	cfmo	cfmo
	Point of Ayre	1026.7	-8	E	4	C	48	92	8	5	7	-	2.3	10	2500	1026.8	0	SE'S	4	id	48	85	7	6	2	-	2.3	10	800	0	4	C	C	C	C
13A	Tiree	1029.4	-4	EHE	2	bc	44	85	8	1	3	-	4.6	3500	1028.1	-6	EHE	2	C	44	85	8	5	-	-	7.8	7.8	3500	0	3	bcc	bcc	C	C	
13B	Stornoway	1031.3	-2	SE	3	b	46	75	9	1	2	-	Tr	Tr	3500	1030.6	0	SE	5	bc	45	75	7	5	4	-	1	2.3	2500	1	2	b	bcc	C	C
15	Dalwhinnie	1032.7	-2	N	1	bc	32	75	8	4	9	-	2.3	4.6	2500	1030.8	-2	-	o	o	36	92	7	5	-	-	10	10	1500	1	*	bcc	co	C	C
	Aberdeen	1031.7	-2	NNE	1	C	42	77	6	5	-	-	9+	9+	1200	1031.3	+2	NNE	1	Zo	42	97	5	5	-	-	10	10	700	1	2	bcmoc	pidop	oido	ozo
	Wick	1032.9	-2	EHE	2	C	46	85	9	1	-	-	7.8	7.8	2000	1032.3	-2	E'N	3	C	46	92	8	5	-	-	7.8	10	1400	1	*	bcc	bcc	C	C
	Sumburgh	1034.9	+4	E	3	bc	45	85	8	1	-	-	4.6	4.6	2500	1034.7	-2	E'S	3	b	44	85	8	1	4	8	Tr	1	2100	1	3	bmo	bcc	C	C
17	Blackad Point	1027.0	-8	-	0	bc	45	85	8	4	-	-	2.3	2.3	2500	1025.7	-6	E	2	C	42	92	7	-	3	-	0	7.8	-	0	bc	C	C	bc	
18	Malin Head	1028.0	-6	E	4	C	46	75	6	5	9	-	4.6	7.8	1500	1027.0	-2	E	2	C	48	85	6	9	-	-	9	9	1500	0	3	C	C	C	C
	Aldergrove	1027.0	-10	HE'E	2	Zo	43	97	6	5	7	-	7.8																						

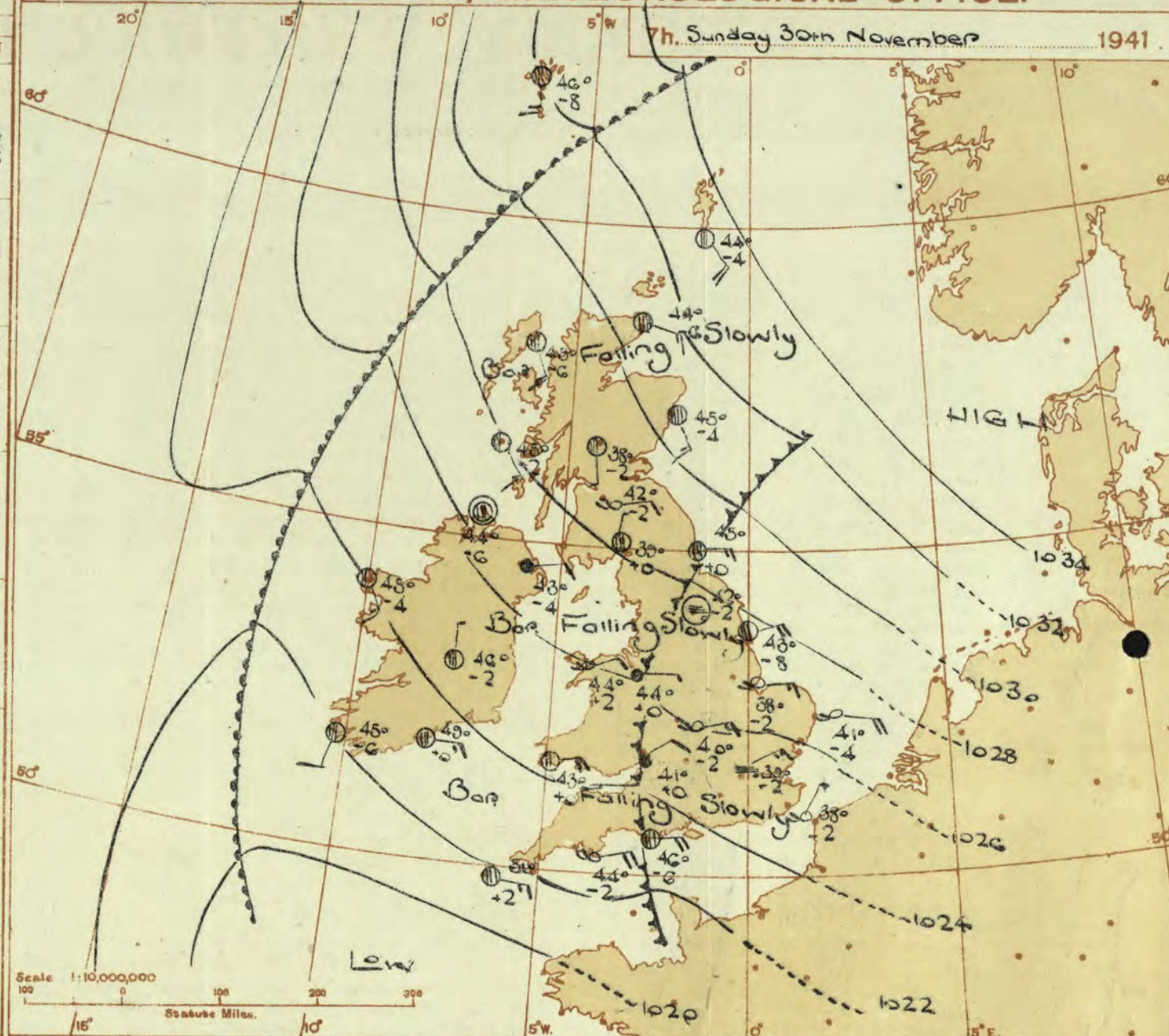


Abridged observations of additional stations in the  
AVIATION WEATHER CODE

13h. G.M.T.	20th. Nov.	18h. G.M.T.	01h. G.M.T.	20th. Nov.	07h. G.M.T.
III. C.	wwVhN	DDFWN	C. C.	wwVhN	DDFWN
109 50	12855	10315	5-	02857	10417
115 54	01950	10314	54	01944	10415
203 14	01942	12403	10	01942	12313
206 50	05648	26228	5-	02657	00027
210			5-	47358	00048
220 23	01953	12214	40	01853	13202
230 54	01951	30014	57	02964	02127
245 5-	02856	02316	5-	52648	04258
260 5-	05648	02348	5-	05548	08228
278 53	02853	08227	57	02765	08468
279 52	02746	04348	53	05664	04327
285 5-	84538	08458	6-	53538	08458
288 5-	21648	08158	5-	05538	07128
575 57	00565	00047	5-	51568	08158
301 57	05553	12166	07	08430	08328
321 51	51648	05228	5-	05546	08258
299 5-	05648	08228	5-	05648	08228
292 5-	62538	07158	5-	05558	00058
310					
614 02	57284	04258	5-	43348	06148
333 5-	05657	04267	5-	05666	07326
334 --	04437	08228	--	04438	04228
340 5-	05658	08268	5-	08438	10328
136 5-	08438	09248	5-	52425	10228
336					
350 52	05645	06228	5-	46348	06158
368 5-	51548	04458	5-	08447	10358
379 5-	05638	04248	5-	05538	06228
390 5-	08447	08248	5-	57338	07258
382 7-	05647	08227	5-	05548	07228
438 5-	02657	08427			
430 50	05635	06325			
400 51	05644	10267	5-	05655	10455

III - Index Number of Station—See M.O. 252 or list issued on 1st of each month.  
ww, W - Present and past weather—See M.O. 252.  
h, N - Height and amount of low cloud—See M.O. 252.  
N - Total amount of cloud—See M.O. 252.  
C, C - Form of low and medium cloud—See page 1.  
V - Visibility. F - Force of wind—See page 4.  
DD - Direction of wind (8 = E, 16 = S, 24 = W, 32 = N).

AIR MINISTRY, METEOROLOGICAL OFFICE.



DISTRICTS.

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

1 S.E. England	Light or moderate east or southeast wind. Fair with some bright intervals; rather cold with local frost at night.
2 E. England	
3 E. Midlands	
4 W. Midlands	Light or moderate easterly wind. Cloudy with local rain at first; fair later with some bright intervals. Rather cold with local night frost.
5 S.W. England	
6 South Wales	
7 North Wales	As 1-3
8 N.W. England	
9 N. Midlands	
10 N.E. England	Light or moderate east or southeast winds. Mainly cloudy with slight local rain; rather cold.
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man	
13 A. W. Scotland	As 1-3
13 B. N.W. Scotland	
14 Mid Scotland	
15 N. E. Scotland	
16 Orkneys and Shetlands	As 9-11
17 N. W. Ireland	
18 N. E. Ireland	As 1-3
19 S. E. Ireland	
20 S. W. Ireland	

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

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.

GENERAL INFERENCE.

A large anticyclone is centred over Eastern Europe and extends to the British Isles. Weather will be mainly fair and rather cold with frost locally at night.

FURTHER OUTLOOK.

Little change.

Forecasts issued at 1030 G.M.T.  
H.M.S.O. Press, Meteorological Office, Dunstable.

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



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

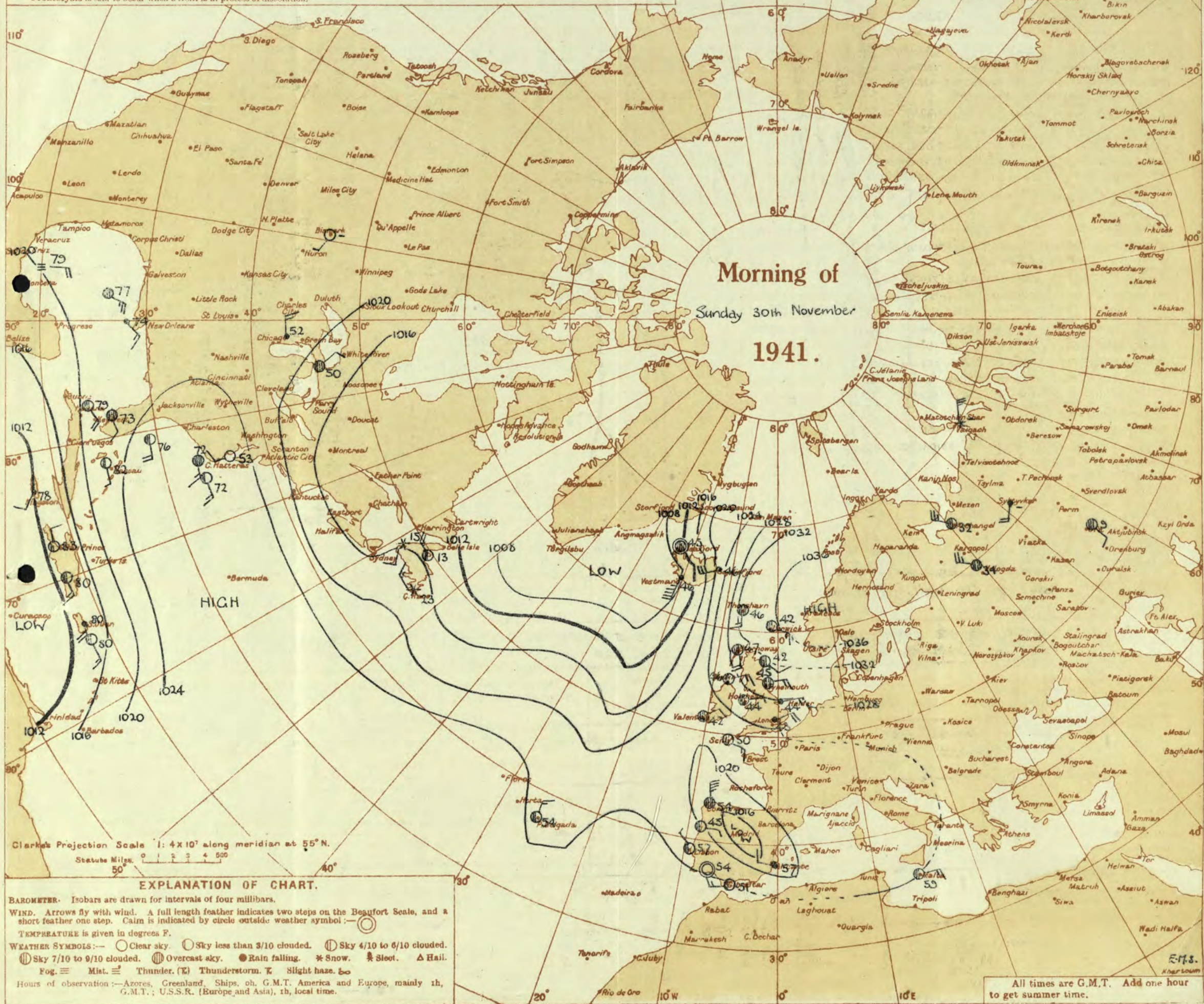
## Explanation of Frontal Lines shown on Charts

(The symbols used to indicate fronts are shown at the foot of page 2.)  
**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.





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

BRITISH SECTION

Sunday 30th November 1941.

No. 23,228

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

OBSERVATIONS at 7 hr. G.M.T. 30th November

PAST 24 HOURS.

DISTRICT.	STATIONS.	Height above M.S.L. in feet.	Barom. at M.S.L. (1)	Change in 3 hours. (2)	Wind.		Weather.	Temp. °F. (6)	Humid. % (7)	Visibility. mi. (8)	Cloud.			Barom. at M.S.L. (15)	Change in 3 hours. (16)	Wind.		Weather.	Temp. °F. (20)	Humid. % (21)	Visibility. mi. (22)	Cloud.			State of Ground. (29)	Sea. (30)	TEMPERATURE.			RAINFALL.		SUN- SHINE Hrs. (36)						
					Direc.	Force. 0-12 (4)					Low.	Med.	High (11)			Low 0-10 (12)	Total 0-10 (13)					Height of Base (feet) (14)	Direc.	Force 0-12 (18)			Low.	Med.	High (25)	Low 0-10 (26)	Total 0-10 (27)		Height of Base (feet) (28)	Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Day 7h-18h mm. (34)	Night 18h-7h mm. (35)
1	London (Kew)	18		*	*	*		44	75	6	5	-	10	10	2500	1024.4	-2	SE	2	40	75	5	5	-	10	10	2200	1	*	48	40	38	-	-	Tr	0.0		
	Croydon	217	1025.4	-2	SE	2	43	87	6	5	-	10	10	3000	1024.0	-2	SE	2	39	85	6	5	-	10	10	4000	1	*	48	39	37	-	-	0.3	0.0			
	S. Farnborough	226	1025.2	-2	SE	2	45	92	6	5	-	10	10	7000	1024.7	-2	SE	2	39	75	6	5	-	10	10	2000	1	*	47	39	37	-	-	0.3	0.0			
	Boscombe Down	417	1025.0	-2	SE	2	44	97	6	5	-	10	10	1700	1024.2	-2	SE	2	41	87	6	5	-	10	10	1300	1	*	48	41	39	-	-	0.3	0.0			
	Thorney Island	10	1024.4	-2	SE	2	47	85	6	5	-	10	10	2500	1023.9	-2	SE	2	41	75	6	5	-	10	10	2800	1	*	51	41	40	-	-	0.3	0.0			
	Lympne	346	1025.0	-2	SE	2	42	92	6	5	-	10	10	400	1024.4	-2	SE	2	38	85	6	5	-	10	10	3000	1	*	51	38	36	-	-	0.7	0.0			
	Manston	154	1025.7	0	SE	2	41	75	6	5	-	10	10	1800	1024.2	-4	SE	2	39	75	5	5	-	10	10	2000	1	*	48	36	29	-	-	0.0	0.0			
2	Shoeburyness	11	1025.9	-2	SE	2	42	75	6	5	-	10	10	2500	1024.4	-2	SE	2	40	75	6	5	-	10	10	2200	1	*	49	37	31	-	-	Tr	0.0			
	Felixstowe	15	1026.3	-2	SE	2	42	75	6	5	-	10	10	2500	1025.1	-6	SE	2	39	85	6	5	-	10	10	2100	1	3	48	38	36	-	-	Tr	0.0			
	Gorleston	5	1027.7	-2	SE	2	41	85	6	5	-	10	10	1500	1026.6	-4	SE	2	41	65	6	5	-	10	10	2500	1	4	47	39	30	Tr	Tr	0.0	0.0			
	Mildenhall	19	1027.1	-2	SE	2	42	92	6	5	-	10	10	1100	1026.2	-4	SE	2	35	92	6	5	-	10	10	2500	1	4	48	33	30	Tr	Tr	0.0	0.0			
	Cranwell	240	1027.8	0	SE	2	45	92	6	5	-	10	10	600	1027.1	-2	SE	2	38	85	5	5	-	10	10	2000	1	*	45	38	35	0.2	0.1	Tr	0.0			
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	1025.9	-2	SE	2	40	85	5	5	-	10	10	1500	1	*	46	40	37	2	0.2	0.0	0.0			
	Upper Heyford	408	1025.9	-2	SE	2	43	97	6	5	-	10	10	3000	1025.7	-6	SE	2	37	85	5	5	-	10	10	1600	1	*	47	37	36	0.1	0.1	0.0	0.0			
4	Ross-on-Wye	223	1025.9	-2	SE	2	43	97	6	5	-	10	10	3000	1025.0	0	SE	2	41	92	6	5	-	10	10	1000	1	*	48	41	39	0.1	0.1	Tr	0.0			
5	Hartland Point	299	1023.0	+2	SE	2	47	85	7	5	-	10	10	4000	1022.9	0	SE	2	44	85	7	5	4	-	10	10	2500	1	3	50	44	43	0.4	0.1	0.0	0.0		
	Bristol	209	1025.1	+6	SE	2	43	92	6	5	-	10	10	2300	1024.8	-1	SE	2	42	92	7	5	-	10	10	1200	1	5	49	38	29	Tr	Tr	0.0	0.0			
	Portland Bill	32	1023.0	-4	SE	2	48	92	6	5	-	10	10	4000	1022.3	-1	SE	2	46	85	7	5	-	10	10	2500	1	5	52	44	40	0.5	0.1	0.0	0.0			
	Plymouth	82	1022.6	-2	SE	2	49	92	6	5	-	10	10	5700	1022.6	-2	SE	2	44	97	6	5	-	10	10	7200	1	3	53	44	40	0.5	0.1	0.0	0.0			
	The Lizard	240	1021.4	+2	SE	2	51	85	7	5	-	10	10	1500	1021.6	+6	SE	2	51	85	7	5	2	-	10	10	1000	1	4	52	50	40	0.5	0.1	0.0	0.0		
	Scilly (St. Mary's)	163	1021.4	+4	SE	2	50	92	7	5	-	10	10	1200	1021.3	+2	SE	2	51	85	7	5	-	10	10	1500	1	3	51	49	40	0.2	0.1	0.0	0.0			
	Guernsey	175	1021.4	+4	SE	2	50	92	7	5	-	10	10	1200	1021.3	+2	SE	2	51	85	7	5	-	10	10	1500	1	3	51	49	40	0.2	0.1	0.0	0.0			
6	Pembroke	142	1024.1	+2	SE	2	46	87	6	5	-	10	10	4000	1024.4	0	SE	2	43	97	6	2	-	10	10	2300	1	2	50	43	41	0.1	0.1	0.0	0.0			
7	Holyhead (Valley)	26	1025.4	+2	SE	2	44	92	6	5	-	10	10	3400	1025.4	+2	SE	2	44	92	6	5	-	10	10	3500	1	2	49	43	41	0.1	0.1	0.0	0.0			
	Chester (Sealand)	16	1026.9	+2	SE	2	45	92	6	5	-	10	10	2500	1026.5	0	SE	2	44	92	6	5	-	10	10	1800	1	*	45	44	40	0.2	0.1	Tr	0.0			
8	Manchester	235	1027.4	-2	SE	2	45	85	6	5	-	10	10	3500	1027.0	-2	SE	2	42	97	6	5	-	10	10	2500	1	*	47	42	41	0.3	0.1	Tr	0.0			
10	Spurn Head	29	1028.3	0	SE	2	44	85	6	5	-	10	10	1500	1027.6	-8	SE	2	43	75	7	4	1	-	10	10	1500	1	3	46	42	40	0.2	0.1	0.0	0.0		
	Catterick	175	1029.1	+2	SE	2	42	97	6	5	-	10	10	3000	1028.5	-2	SE	2	42	97	7	4	5	-	10	10	2200	1	*	46	42	42	1	0.2	0.0	0.0		
	Tynemouth	108	1029.1	+2	SE	2	45	75	7	5	-	10	10	1500	1028.8	0	SE	2	45	85	7	5	-	10	10	1500	1	3	48	45	42	1	0.2	0.0	0.0			
11	St. Abbs Head	280	1029.6	+2	SE	2	44	85	7	5	2	-	10	10	1500	1029.2	-2	SE	2	43	85	7	5	2	-	10	10	1500	1	2	46	42	40	0.5	0.1	0.0	0.0	
	Leuchars	36	1029.2	-2	SE	2	44	85	6	5	-	10	10	1800	1029.3	-2	SE	2	44	92	6	5	-	10	10	2200	1	*	46	44	40	0.5	0.1	Tr	0.0			
12	Kenfrew (Abbots L.)	19	1029.2	0	SE	2	43	85	6	5	2	-	10	10	3200	1028.8	-2	SE	2	42	85	5	5	7	-	10	10	3500	1	*	45	42	39	0.4	0.1	Tr	0.0	
	Eskdalemuir	794	1029.2	*	SE	2	43	85	6	5	*	-	10	10	1028.8	-2	SE	2	39	85	6	5	-	10	10	800	1	*	45	38	38	0.4	0.1	0.0	0.0			
	Point of Ayre	30	1027.0	+2	SE	2	46	92	6	5	2	-	10	10	2000	1027.0	0	SE	2	47	85	7	5	2	-	10	10	1800	1	3	49	45	40	0.4	0.1	0.0	0.0	
13A	Tiree	22	1028.3	0	SE	2	46	92	6	5	*	-	10	10	2900	1028.0	-2	SE	2	45	85	7	5	-	10	10	2500	1	4	46	44	40	0.5	0.1	Tr	0.0		
13B	Stornoway	80	1029.2	-4	SE	2	47	75	7	5	7	-	10	10	2500	1028.7	-6	SE	2	45	75	7	5	7	-	10	10	2500	1	2	46	44	40	0.5	0.1	Tr	0.0	
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	1030.9	-2	SE	2	38	85	6	5	2	-	10	10	1500	1	*	36	35	32	-	-	0.0	0.0		
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	1030.2	-4	SE	2	45	85	7	5	-	10	10	1100	1	2	45	42	41	1	0.1	0.3	0.0			
	Wick	119	1032.2	+2	SE	2	44	85	6	5	-	10	10	1000	1031.0	-6	SE	2	44	75	6	5	-	10	10	1000	1	*	46	43	42	0.3	0.1	0.0	0.0			
16	Sumburgh	30	1034.5	-4	SE	2	44	92	6	5	-	10	10	2100	1033.9	-4																						